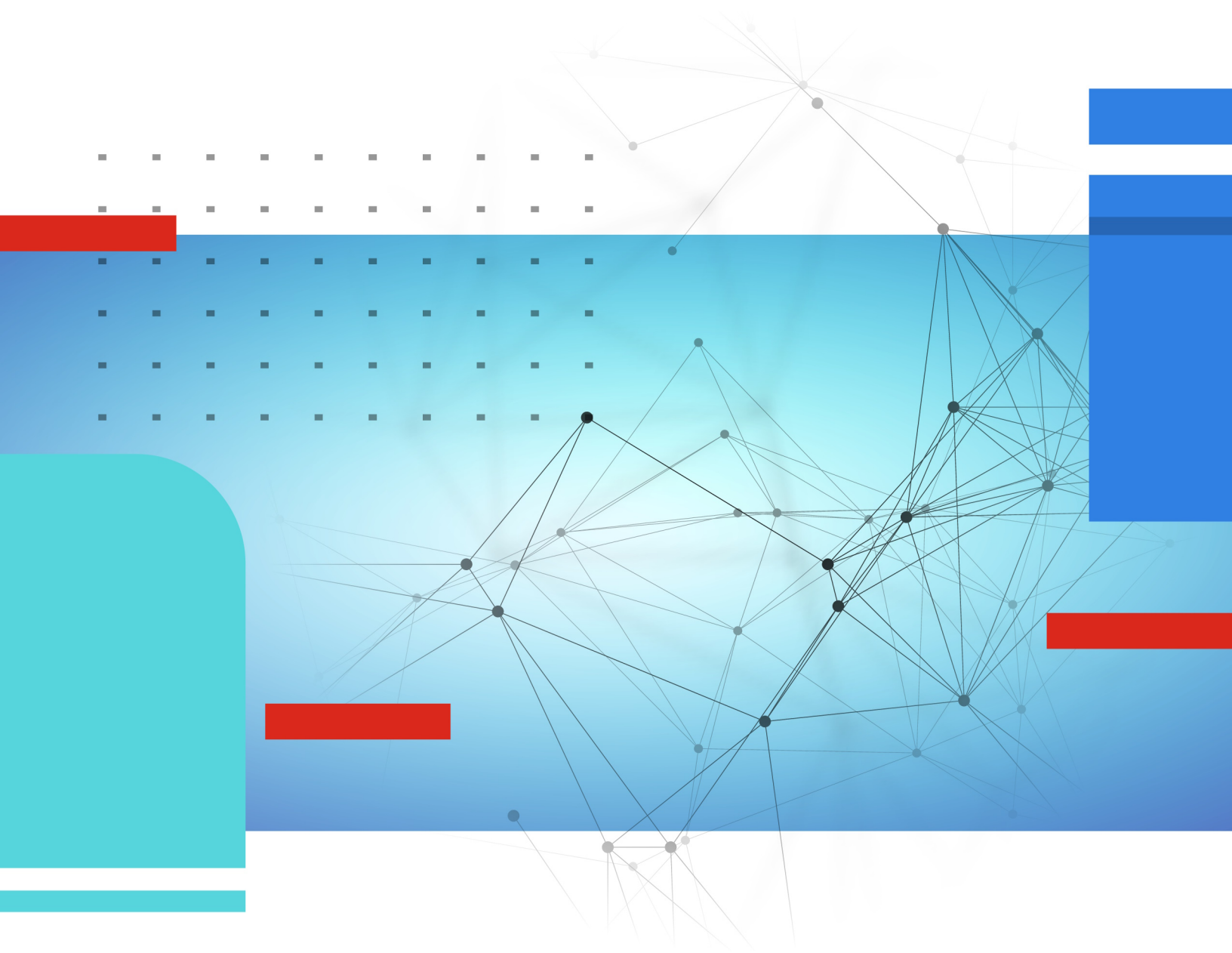




CLI Reference

FortiProxy 7.6.2



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FortiProxy 7.6.2 CLI Reference

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Change log

Date	Change Description
2025-01-24	Initial release.
2025-03-26	Added CLI diagnose commands on page 1356 and CLI execute commands on page 1810 .

FortiProxy CLI Interface

This document describes FortiProxy 7.6.2 CLI commands that are used to configure and manage FortiProxy from the command line interface (CLI). For information on using the CLI, see the [FortiProxy 7.6.2 Administration Guide](#).

CLI configuration commands

Use configuration commands to configure and manage a FortiProxy unit from the command line interface (CLI).

The CLI syntax is created by processing the schema from FortiProxy models running FortiProxy 7.6.2 and reformatting the resultant CLI output. If you have comments on this content, its format, or requests for commands that are not included, contact us at techdoc@fortinet.com.

alertemail

This section includes syntax for the following commands:

- [config alertemail setting on page 75](#)

config alertemail setting

Configure alert email settings.

```
config alertemail setting
    Description: Configure alert email settings.
    set username {string}
    set mailto1 {string}
    set mailto2 {string}
    set mailto3 {string}
    set filter-mode [category|threshold]
    set email-interval {integer}
    set IPS-logs [enable|disable]
    set firewall-authentication-failure-logs [enable|disable]
    set HA-logs [enable|disable]
    set IPsec-errors-logs [enable|disable]
    set FDS-update-logs [enable|disable]
    set PPP-errors-logs [enable|disable]
    set antivirus-logs [enable|disable]
    set webfilter-logs [enable|disable]
    set configuration-changes-logs [enable|disable]
    set violation-traffic-logs [enable|disable]
    set admin-login-logs [enable|disable]
    set FDS-license-expiring-warning [enable|disable]
    set log-disk-usage-warning [enable|disable]
    set fortiguard-log-quota-warning [enable|disable]
    set amc-interface-bypass-mode [enable|disable]
    set FIPS-CC-errors [enable|disable]
    set FSSO-disconnect-logs [enable|disable]
    set ssh-logs [enable|disable]
    set fpx-license-logs [enable|disable]
    set local-disk-usage {integer}
    set emergency-interval {integer}
    set alert-interval {integer}
    set critical-interval {integer}
    set error-interval {integer}
    set warning-interval {integer}
    set notification-interval {integer}
    set information-interval {integer}
    set debug-interval {integer}
    set severity [emergency|alert|...]
end
```

config alertemail setting

Parameter	Description	Type	Size	Default						
username	Name that appears in the From: field of alert emails (max. 63 characters).	string	Maximum length: 63							
mailto1	Email address to send alert email to (usually a system administrator) (max. 63 characters).	string	Maximum length: 63							
mailto2	Optional second email address to send alert email to (max. 63 characters).	string	Maximum length: 63							
mailto3	Optional third email address to send alert email to (max. 63 characters).	string	Maximum length: 63							
filter-mode	How to filter log messages that are sent to alert emails.	option	-	category						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>category</td><td>Filter based on category.</td></tr><tr><td>threshold</td><td>Filter based on severity.</td></tr></table>				Option	Description	category	Filter based on category.	threshold	Filter based on severity.
Option	Description									
category	Filter based on category.									
threshold	Filter based on severity.									
email-interval	Interval between sending alert emails (1 - 99999 min, default = 5).	integer	Minimum value: 1 Maximum value: 99999	5						
IPS-logs	Enable/disable IPS logs in alert email.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable IPS logs in alert email.</td></tr><tr><td>disable</td><td>Disable IPS logs in alert email.</td></tr></table>				Option	Description	enable	Enable IPS logs in alert email.	disable	Disable IPS logs in alert email.
Option	Description									
enable	Enable IPS logs in alert email.									
disable	Disable IPS logs in alert email.									
firewall-authentication-failure-logs	Enable/disable firewall authentication failure logs in alert email.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable firewall authentication failure logs in alert email.</td></tr><tr><td>disable</td><td>Disable firewall authentication failure logs in alert email.</td></tr></table>				Option	Description	enable	Enable firewall authentication failure logs in alert email.	disable	Disable firewall authentication failure logs in alert email.
Option	Description									
enable	Enable firewall authentication failure logs in alert email.									
disable	Disable firewall authentication failure logs in alert email.									
HA-logs	Enable/disable HA logs in alert email.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable HA logs in alert email.</td></tr><tr><td>disable</td><td>Disable HA logs in alert email.</td></tr></table>				Option	Description	enable	Enable HA logs in alert email.	disable	Disable HA logs in alert email.
Option	Description									
enable	Enable HA logs in alert email.									
disable	Disable HA logs in alert email.									

Parameter	Description	Type	Size	Default
IPsec-errors-logs	Enable/disable IPsec error logs in alert email.	option	-	disable
	Option	Description		
	enable	Enable IPsec error logs in alert email.		
	disable	Disable IPsec error logs in alert email.		
FDS-update-logs	Enable/disable FortiGuard update logs in alert email.	option	-	disable
	Option	Description		
	enable	Enable FortiGuard update logs in alert email.		
	disable	Disable FortiGuard update logs in alert email.		
PPP-errors-logs	Enable/disable PPP error logs in alert email.	option	-	disable
	Option	Description		
	enable	Enable PPP error logs in alert email.		
	disable	Disable PPP error logs in alert email.		
antivirus-logs	Enable/disable antivirus logs in alert email.	option	-	disable
	Option	Description		
	enable	Enable antivirus logs in alert email.		
	disable	Disable antivirus logs in alert email.		
webfilter-logs	Enable/disable web filter logs in alert email.	option	-	disable
	Option	Description		
	enable	Enable web filter logs in alert email.		
	disable	Disable web filter logs in alert email.		
configuration-changes-logs	Enable/disable configuration change logs in alert email.	option	-	disable
	Option	Description		
	enable	Enable configuration change logs in alert email.		
	disable	Disable configuration change logs in alert email.		
violation-traffic-logs	Enable/disable violation traffic logs in alert email.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable violation traffic logs in alert email.		
	<i>disable</i>	Disable violation traffic logs in alert email.		
admin-login-logs	Enable/disable administrator login/logout logs in alert email.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable administrator login/logout logs in alert email.		
	<i>disable</i>	Disable administrator login/logout logs in alert email.		
FDS-license-expiring-warning	Enable/disable FortiGuard license expiration warnings in alert email.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable FortiGuard license expiration warnings in alert email.		
	<i>disable</i>	Disable FortiGuard license expiration warnings in alert email.		
log-disk-usage-warning	Enable/disable disk usage warnings in alert email.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable disk usage warnings in alert email.		
	<i>disable</i>	Disable disk usage warnings in alert email.		
fortiguard-log-quota-warning	Enable/disable FortiCloud log quota warnings in alert email.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable FortiCloud log quota warnings in alert email.		
	<i>disable</i>	Disable FortiCloud log quota warnings in alert email.		
amc-interface-bypass-mode	Enable/disable Fortinet Advanced Mezzanine Card (AMC) interface bypass mode logs in alert email.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable Fortinet Advanced Mezzanine Card (AMC) interface bypass mode logs in alert email.		
	<i>disable</i>	Disable Fortinet Advanced Mezzanine Card (AMC) interface bypass mode logs in alert email.		

Parameter	Description	Type	Size	Default
FIPS-CC-errors	Enable/disable FIPS and Common Criteria error logs in alert email.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable FIPS and Common Criteria error logs in alert email.		
	<i>disable</i>	Disable FIPS and Common Criteria error logs in alert email.		
FSSO-disconnect-logs	Enable/disable logging of FSSO collector agent disconnect.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable logging of FSSO collector agent disconnect.		
	<i>disable</i>	Disable logging of FSSO collector agent disconnect.		
ssh-logs	Enable/disable SSH logs in alert email.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable SSH logs in alert email.		
	<i>disable</i>	Disable SSH logs in alert email.		
fpx-license-logs	Enable/disable FortiProxy license related logs in alert email.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable FortiProxy license related warnings in alert email.		
	<i>disable</i>	Disable FortiProxy license related warnings in alert email.		
local-disk-usage	Disk usage percentage at which to send alert email (1 - 99 percent, default = 75).	integer	Minimum value: 1 Maximum value: 99	75
emergency-interval	Emergency alert interval in minutes.	integer	Minimum value: 1 Maximum value: 99999	1
alert-interval	Alert alert interval in minutes.	integer	Minimum value: 1 Maximum value: 99999	2

Parameter	Description	Type	Size	Default														
critical-interval	Critical alert interval in minutes.	integer	Minimum value: 1 Maximum value: 99999	3														
error-interval	Error alert interval in minutes.	integer	Minimum value: 1 Maximum value: 99999	5														
warning-interval	Warning alert interval in minutes.	integer	Minimum value: 1 Maximum value: 99999	10														
notification-interval	Notification alert interval in minutes.	integer	Minimum value: 1 Maximum value: 99999	20														
information-interval	Information alert interval in minutes.	integer	Minimum value: 1 Maximum value: 99999	30														
debug-interval	Debug alert interval in minutes.	integer	Minimum value: 1 Maximum value: 99999	60														
severity	Lowest severity level to log.	option	-	alert														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>emergency</i></td><td>Emergency level.</td></tr><tr><td><i>alert</i></td><td>Alert level.</td></tr><tr><td><i>critical</i></td><td>Critical level.</td></tr><tr><td><i>error</i></td><td>Error level.</td></tr><tr><td><i>warning</i></td><td>Warning level.</td></tr><tr><td><i>notification</i></td><td>Notification level.</td></tr></table>				Option	Description	<i>emergency</i>	Emergency level.	<i>alert</i>	Alert level.	<i>critical</i>	Critical level.	<i>error</i>	Error level.	<i>warning</i>	Warning level.	<i>notification</i>	Notification level.
Option	Description																	
<i>emergency</i>	Emergency level.																	
<i>alert</i>	Alert level.																	
<i>critical</i>	Critical level.																	
<i>error</i>	Error level.																	
<i>warning</i>	Warning level.																	
<i>notification</i>	Notification level.																	

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>information</i>	Information level.		
	<i>debug</i>	Debug level.		

antivirus

This section includes syntax for the following commands:

- [config antivirus exempt-list on page 82](#)
- [config antivirus profile on page 83](#)
- [config antivirus quarantine on page 113](#)
- [config antivirus settings on page 116](#)

config antivirus exempt-list

Configure a list of hashes to be exempt from AV scanning.

```
config antivirus exempt-list
  Description: Configure a list of hashes to be exempt from AV scanning.
  edit <name>
    set comment {var-string}
    set hash-type [md5|sha1|...]
    set hash {string}
    set status [disable|enable]
  next
end
```

config antivirus exempt-list

Parameter	Description	Type	Size	Default
name	Table entry name.	string	Maximum length: 35	
comment	Comment.	var-string	Maximum length: 255	
hash-type	Hash type.	option	-	sha1
	Option Description			
	<i>md5</i>	MD5 hash value (32 characters in length).		
	<i>sha1</i>	SHA1 hash value (40 characters in length).		
	<i>sha256</i>	SHA256 hash value (64 characters in length).		
hash	Hash value to be matched.	string	Maximum length: 64	
status	Enable/disable table entry.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable AV exempt-list table entry.		
	<i>enable</i>	Enable AV exempt-list table entry.		

config antivirus profile

Configure AntiVirus profiles.

```
config antivirus profile
  Description: Configure AntiVirus profiles.
  edit <name>
    set comment {var-string}
    set replacemsg-group {string}
    set fortisandbox-mode [inline|analytics-suspicious|...]
    set fortisandbox-max-upload {integer}
    set analytics-ignore-filetype {integer}
    set analytics-accept-filetype {integer}
    set analytics-db [disable|enable]
    set mobile-malware-db [disable|enable]
  config http
    Description: Configure HTTP AntiVirus options.
    set av-scan [disable|block|...]
    set outbreak-prevention [disable|block|...]
    set external-blocklist [disable|block|...]
    set fortindr [disable|block|...]
    set fortisandbox [disable|block|...]
    set quarantine [disable|enable]
    set archive-block {option1}, {option2}, ...
    set archive-log {option1}, {option2}, ...
    set emulator [enable|disable]
    set content-disarm [disable|enable]
  end
  config ftp
    Description: Configure FTP AntiVirus options.
    set av-scan [disable|block|...]
    set outbreak-prevention [disable|block|...]
    set external-blocklist [disable|block|...]
    set fortindr [disable|block|...]
    set fortisandbox [disable|block|...]
    set quarantine [disable|enable]
    set archive-block {option1}, {option2}, ...
    set archive-log {option1}, {option2}, ...
    set emulator [enable|disable]
  end
  config imap
    Description: Configure IMAP AntiVirus options.
    set av-scan [disable|block|...]
    set outbreak-prevention [disable|block|...]
    set external-blocklist [disable|block|...]
    set fortindr [disable|block|...]
```

```

        set fortisandbox [disable|block|...]
        set quarantine [disable|enable]
        set archive-block {option1}, {option2}, ...
        set archive-log {option1}, {option2}, ...
        set emulator [enable|disable]
        set executables [default|virus]
        set content-disarm [disable|enable]
    end
    config pop3
        Description: Configure POP3 AntiVirus options.
        set av-scan [disable|block|...]
        set outbreak-prevention [disable|block|...]
        set external-blocklist [disable|block|...]
        set fortindr [disable|block|...]
        set fortisandbox [disable|block|...]
        set quarantine [disable|enable]
        set archive-block {option1}, {option2}, ...
        set archive-log {option1}, {option2}, ...
        set emulator [enable|disable]
        set executables [default|virus]
        set content-disarm [disable|enable]
    end
    config smtp
        Description: Configure SMTP AntiVirus options.
        set av-scan [disable|block|...]
        set outbreak-prevention [disable|block|...]
        set external-blocklist [disable|block|...]
        set fortindr [disable|block|...]
        set fortisandbox [disable|block|...]
        set quarantine [disable|enable]
        set archive-block {option1}, {option2}, ...
        set archive-log {option1}, {option2}, ...
        set emulator [enable|disable]
        set executables [default|virus]
        set content-disarm [disable|enable]
    end
    config mapi
        Description: Configure MAPI AntiVirus options.
        set av-scan [disable|block|...]
        set outbreak-prevention [disable|block|...]
        set external-blocklist [disable|block|...]
        set fortindr [disable|block|...]
        set fortisandbox [disable|block|...]
        set quarantine [disable|enable]
        set archive-block {option1}, {option2}, ...
        set archive-log {option1}, {option2}, ...
        set emulator [enable|disable]
        set executables [default|virus]
    end
    config nntp
        Description: Configure NNTP AntiVirus options.
        set av-scan [disable|block|...]
        set outbreak-prevention [disable|block|...]
        set external-blocklist [disable|block|...]
        set fortindr [disable|block|...]
        set fortisandbox [disable|block|...]

```



```

        set quarantine [disable|enable]
        set archive-block {option1}, {option2}, ...
        set archive-log {option1}, {option2}, ...
        set emulator [enable|disable]
    end
    config cifs
        Description: Configure CIFS AntiVirus options.
        set av-scan [disable|block|...]
        set outbreak-prevention [disable|block|...]
        set external-blocklist [disable|block|...]
        set fortindr [disable|block|...]
        set fortisandbox [disable|block|...]
        set quarantine [disable|enable]
        set archive-block {option1}, {option2}, ...
        set archive-log {option1}, {option2}, ...
        set emulator [enable|disable]
    end
    config ssh
        Description: Configure SFTP and SCP AntiVirus options.
        set av-scan [disable|block|...]
        set outbreak-prevention [disable|block|...]
        set external-blocklist [disable|block|...]
        set fortindr [disable|block|...]
        set fortisandbox [disable|block|...]
        set quarantine [disable|enable]
        set archive-block {option1}, {option2}, ...
        set archive-log {option1}, {option2}, ...
        set emulator [enable|disable]
    end
    config nac-quar
        Description: Configure AntiVirus quarantine settings.
        set infected [none|quar-src-ip]
        set expiry {user}
        set log [enable|disable]
    end
    config content-disarm
        Description: AV Content Disarm and Reconstruction settings.
        set original-file-destination [fortisandbox|quarantine|...]
        set error-action [block|log-only|...]
        set office-macro [disable|enable]
        set office-hylink [disable|enable]
        set office-linked [disable|enable]
        set office-embed [disable|enable]
        set office-dde [disable|enable]
        set office-action [disable|enable]
        set pdf-javacode [disable|enable]
        set pdf-embedfile [disable|enable]
        set pdf-hyperlink [disable|enable]
        set pdf-act-gotor [disable|enable]
        set pdf-act-launch [disable|enable]
        set pdf-act-sound [disable|enable]
        set pdf-act-movie [disable|enable]
        set pdf-act-java [disable|enable]
        set pdf-act-form [disable|enable]
        set cover-page [disable|enable]
        set detect-only [disable|enable]

```

```

end
set outbreak-prevention-archive-scan [disable|enable]
set external-blocklist-enable-all [disable|enable]
set external-blocklist <name1>, <name2>, ...
set ems-threat-feed [disable|enable]
set fortindr-error-action [log-only|block|...]
set fortindr-timeout-action [log-only|block|...]
set fortisandbox-error-action [log-only|block|...]
set fortisandbox-timeout-action [log-only|block|...]
set av-virus-log [enable|disable]
set scan-mode [default|legacy]
next
end

```

config antivirus profile

Parameter	Description	Type	Size	Default								
name	Profile name.	string	Maximum length: 35									
comment	Comment.	var-string	Maximum length: 255									
replacemsg-group	Replacement message group customized for this profile.	string	Maximum length: 35									
fortisandbox-mode	FortiSandbox scan modes.	option	-	analytics-everything								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>inline</i></td><td>FortiSandbox inline scan.</td></tr><tr><td><i>analytics-suspicious</i></td><td>FortiSandbox post-transfer scan: submit supported files if heuristics or other methods determine they are suspicious.</td></tr><tr><td><i>analytics-everything</i></td><td>FortiSandbox post-transfer scan: submit supported files and known infected files.</td></tr></table>				Option	Description	<i>inline</i>	FortiSandbox inline scan.	<i>analytics-suspicious</i>	FortiSandbox post-transfer scan: submit supported files if heuristics or other methods determine they are suspicious.	<i>analytics-everything</i>	FortiSandbox post-transfer scan: submit supported files and known infected files.
	Option	Description										
	<i>inline</i>	FortiSandbox inline scan.										
	<i>analytics-suspicious</i>	FortiSandbox post-transfer scan: submit supported files if heuristics or other methods determine they are suspicious.										
<i>analytics-everything</i>	FortiSandbox post-transfer scan: submit supported files and known infected files.											
fortisandbox-max-upload	Maximum size of files that can be uploaded to FortiSandbox in Mbytes.	integer	Minimum value: 1 Maximum value: 4095	10								
analytics-ignore-filetype	Do not submit files matching this DLP file-pattern to FortiSandbox (post-transfer scan only).	integer	Minimum value: 0 Maximum value: 4294967295	0								

Parameter	Description	Type	Size	Default						
analytics-accept-filetype	Only submit files matching this DLP file-pattern to FortiSandbox (post-transfer scan only).	integer	Minimum value: 0 Maximum value: 4294967295	0						
analytics-db	Enable/disable using the FortiSandbox signature database to supplement the AV signature databases.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>Use only the standard AV signature databases.</td></tr><tr><td>enable</td><td>Also use the FortiSandbox signature database.</td></tr></table>	Option	Description	disable	Use only the standard AV signature databases.	enable	Also use the FortiSandbox signature database.			
Option	Description									
disable	Use only the standard AV signature databases.									
enable	Also use the FortiSandbox signature database.									
mobile-malware-db	Enable/disable using the mobile malware signature database.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>Do not use the mobile malware signature database.</td></tr><tr><td>enable</td><td>Also use the mobile malware signature database.</td></tr></table>	Option	Description	disable	Do not use the mobile malware signature database.	enable	Also use the mobile malware signature database.			
Option	Description									
disable	Do not use the mobile malware signature database.									
enable	Also use the mobile malware signature database.									
outbreak-prevention-archive-scan	Enable/disable outbreak-prevention archive scanning.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>Analyze files as sent, not the content of archives.</td></tr><tr><td>enable</td><td>Analyze files including the content of archives.</td></tr></table>	Option	Description	disable	Analyze files as sent, not the content of archives.	enable	Analyze files including the content of archives.			
Option	Description									
disable	Analyze files as sent, not the content of archives.									
enable	Analyze files including the content of archives.									
external-blocklist-enable-all	Enable/disable all external blocklists.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>Use configured external blocklists.</td></tr><tr><td>enable</td><td>Enable all external blocklists.</td></tr></table>	Option	Description	disable	Use configured external blocklists.	enable	Enable all external blocklists.			
Option	Description									
disable	Use configured external blocklists.									
enable	Enable all external blocklists.									
external-blocklist<name>	One or more external malware block lists. External blocklist.	string	Maximum length: 79							
ems-threat-feed	Enable/disable use of EMS threat feed when performing AntiVirus scan. Analyzes files including the content of archives.	option	-	disable						

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable use of EMS threat feed when performing AntiVirus scan.		
	<i>enable</i>	Enable use of EMS threat feed when performing AntiVirus scan.		
fortindr-error-action	Action to take if FortiNDR encounters an error.	option	-	log-only
	Option	Description		
	<i>log-only</i>	Log FortiNDR error, but allow the file.		
	<i>block</i>	Block the file on FortiNDR error.		
	<i>ignore</i>	Do nothing on FortiNDR error.		
fortindr-timeout-action	Action to take if FortiNDR encounters a scan timeout.	option	-	log-only
	Option	Description		
	<i>log-only</i>	Log FortiNDR scan timeout, but allow the file.		
	<i>block</i>	Block the file on FortiNDR scan timeout.		
	<i>ignore</i>	Do nothing on FortiNDR scan timeout.		
fortisandbox-error-action	Action to take if FortiSandbox inline scan encounters an error.	option	-	log-only
	Option	Description		
	<i>log-only</i>	Log FortiSandbox inline scan error, but allow the file.		
	<i>block</i>	Block the file on FortiSandbox inline scan error.		
	<i>ignore</i>	Do nothing on FortiSandbox inline scan error.		
fortisandbox-timeout-action	Action to take if FortiSandbox inline scan encounters a scan timeout.	option	-	log-only
	Option	Description		
	<i>log-only</i>	Log FortiSandbox inline scan timeout, but allow the file.		
	<i>block</i>	Block the file on FortiSandbox inline scan timeout.		
	<i>ignore</i>	Do nothing on FortiSandbox inline scan timeout.		
av-virus-log	Enable/disable AntiVirus logging.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
scan-mode	Configure scan mode (default or legacy).	option	-	default
	Option	Description		
	<i>default</i>	On the fly decompression and scanning of certain archive files.		
	<i>legacy</i>	Scan archive files only after the entire file is received.		

config http

Parameter	Description	Type	Size	Default
av-scan	Enable AntiVirus scan service.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the virus infected files.		
	<i>monitor</i>	Log the virus infected files.		
outbreak-prevention	Enable virus outbreak prevention service.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the matched files.		
	<i>monitor</i>	Log the matched files.		
external-blocklist	Enable external-blocklist. Analyzes files including the content of archives.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the matched files.		
	<i>monitor</i>	Log the matched files.		
fortindr	Enable scanning of files by FortiNDR.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the FortiNDR detected infections.		
	<i>monitor</i>	Log the FortiNDR detected infections.		
fortisandbox	Enable scanning of files by FortiSandbox.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the FortiSandbox detected infections.		
	<i>monitor</i>	Log the FortiSandbox detected infections.		
quarantine	Enable/disable quarantine for infected files.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable quarantine for infected files.		
	<i>enable</i>	Enable quarantine for infected files.		
archive-block	Select the archive types to block.	option	-	
	Option	Description		
	<i>encrypted</i>	Block encrypted archives.		
	<i>corrupted</i>	Block corrupted archives.		
	<i>partiallycorrupted</i>	Block partially corrupted archives.		
	<i>multipart</i>	Block multipart archives.		
	<i>nested</i>	Block nested archives that exceed uncompressed nest limit.		
	<i>mailbomb</i>	Block mail bomb archives.		
	<i>timeout</i>	Block scan timeout.		
	<i>unhandled</i>	Block archives that FortiProxy cannot open.		
archive-log	Select the archive types to log.	option	-	
	Option	Description		
	<i>encrypted</i>	Log encrypted archives.		
	<i>corrupted</i>	Log corrupted archives.		
	<i>partiallycorrupted</i>	Log partially corrupted archives.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>multipart</i>	Log multipart archives.		
	<i>nested</i>	Log nested archives that exceed uncompressed nest limit.		
	<i>mailbomb</i>	Log mail bomb archives.		
	<i>timeout</i>	Log scan timeout.		
	<i>unhandled</i>	Log archives that FortiProxy cannot open.		
emulator	Enable/disable the virus emulator.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable the virus emulator.		
	<i>disable</i>	Disable the virus emulator.		
content-disarm	Enable/disable Content Disarm and Reconstruction when performing AntiVirus scan.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable Content Disarm and Reconstruction when performing AntiVirus scan.		
	<i>enable</i>	Enable Content Disarm and Reconstruction when performing AntiVirus scan.		

config ftp

Parameter	Description	Type	Size	Default
av-scan	Enable AntiVirus scan service.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the virus infected files.		
	<i>monitor</i>	Log the virus infected files.		
outbreak-prevention	Enable virus outbreak prevention service.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the matched files.		
	<i>monitor</i>	Log the matched files.		

Parameter	Description	Type	Size	Default														
external-blocklist	Enable external-blocklist. Analyzes files including the content of archives.	option	-	disable														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable.</td></tr><tr><td><i>block</i></td><td>Block the matched files.</td></tr><tr><td><i>monitor</i></td><td>Log the matched files.</td></tr></table>	Option	Description	<i>disable</i>	Disable.	<i>block</i>	Block the matched files.	<i>monitor</i>	Log the matched files.									
Option	Description																	
<i>disable</i>	Disable.																	
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fortindr	Enable scanning of files by FortiNDR.	option	-	disable														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable.</td></tr><tr><td><i>block</i></td><td>Block the FortiNDR detected infections.</td></tr><tr><td><i>monitor</i></td><td>Log the FortiNDR detected infections.</td></tr></table>	Option	Description	<i>disable</i>	Disable.	<i>block</i>	Block the FortiNDR detected infections.	<i>monitor</i>	Log the FortiNDR detected infections.									
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fortisandbox	Enable scanning of files by FortiSandbox.	option	-	disable														
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<i>disable</i>	Disable.																	
<i>block</i>	Block the FortiSandbox detected infections.																	
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quarantine	Enable/disable quarantine for infected files.	option	-	disable														
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Option	Description																	
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archive-block	Select the archive types to block.	option	-															
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Parameter	Description	Type	Size	Default
	Option	Description		
	<i>timeout</i>	Block scan timeout.		
	<i>unhandled</i>	Block archives that FortiProxy cannot open.		
archive-log	Select the archive types to log.	option	-	
	Option	Description		
	<i>encrypted</i>	Log encrypted archives.		
	<i>corrupted</i>	Log corrupted archives.		
	<i>partiallycorrupted</i>	Log partially corrupted archives.		
	<i>multipart</i>	Log multipart archives.		
	<i>nested</i>	Log nested archives that exceed uncompressed nest limit.		
	<i>mailbomb</i>	Log mail bomb archives.		
	<i>timeout</i>	Log scan timeout.		
	<i>unhandled</i>	Log archives that FortiProxy cannot open.		
emulator	Enable/disable the virus emulator.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable the virus emulator.		
	<i>disable</i>	Disable the virus emulator.		

config imap

Parameter	Description	Type	Size	Default
av-scan	Enable AntiVirus scan service.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the virus infected files.		
	<i>monitor</i>	Log the virus infected files.		
outbreak-prevention	Enable virus outbreak prevention service.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the matched files.		
	<i>monitor</i>	Log the matched files.		
external-blocklist	Enable external-blocklist. Analyzes files including the content of archives.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the matched files.		
	<i>monitor</i>	Log the matched files.		
fortindr	Enable scanning of files by FortiNDR.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the FortiNDR detected infections.		
	<i>monitor</i>	Log the FortiNDR detected infections.		
fortisandbox	Enable scanning of files by FortiSandbox.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the FortiSandbox detected infections.		
	<i>monitor</i>	Log the FortiSandbox detected infections.		
quarantine	Enable/disable quarantine for infected files.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable quarantine for infected files.		
	<i>enable</i>	Enable quarantine for infected files.		
archive-block	Select the archive types to block.	option	-	
	Option	Description		
	<i>encrypted</i>	Block encrypted archives.		
	<i>corrupted</i>	Block corrupted archives.		

Parameter	Description	Type	Size	Default																		
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archive-log	Select the archive types to log.	option	-																			
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emulator	Enable/disable the virus emulator.	option	-	enable																		
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executables	Treat Windows executable files as viruses for the purpose of blocking or monitoring.	option	-	default																		
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content-disarm	Enable/disable Content Disarm and Reconstruction when performing AntiVirus scan.	option	-	disable																		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable Content Disarm and Reconstruction when performing AntiVirus scan.		
	<i>enable</i>	Enable Content Disarm and Reconstruction when performing AntiVirus scan.		

config pop3

Parameter	Description	Type	Size	Default
av-scan	Enable AntiVirus scan service.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the virus infected files.		
	<i>monitor</i>	Log the virus infected files.		
outbreak-prevention	Enable virus outbreak prevention service.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the matched files.		
	<i>monitor</i>	Log the matched files.		
external-blocklist	Enable external-blocklist. Analyzes files including the content of archives.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the matched files.		
	<i>monitor</i>	Log the matched files.		
fortindr	Enable scanning of files by FortiNDR.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the FortiNDR detected infections.		
	<i>monitor</i>	Log the FortiNDR detected infections.		
fortisandbox	Enable scanning of files by FortiSandbox.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the FortiSandbox detected infections.		
	<i>monitor</i>	Log the FortiSandbox detected infections.		
quarantine	Enable/disable quarantine for infected files.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable quarantine for infected files.		
	<i>enable</i>	Enable quarantine for infected files.		
archive-block	Select the archive types to block.	option	-	
	Option	Description		
	<i>encrypted</i>	Block encrypted archives.		
	<i>corrupted</i>	Block corrupted archives.		
	<i>partiallycorrupted</i>	Block partially corrupted archives.		
	<i>multipart</i>	Block multipart archives.		
	<i>nested</i>	Block nested archives that exceed uncompressed nest limit.		
	<i>mailbomb</i>	Block mail bomb archives.		
	<i>timeout</i>	Block scan timeout.		
	<i>unhandled</i>	Block archives that FortiProxy cannot open.		
archive-log	Select the archive types to log.	option	-	
	Option	Description		
	<i>encrypted</i>	Log encrypted archives.		
	<i>corrupted</i>	Log corrupted archives.		
	<i>partiallycorrupted</i>	Log partially corrupted archives.		
	<i>multipart</i>	Log multipart archives.		
	<i>nested</i>	Log nested archives that exceed uncompressed nest limit.		
	<i>mailbomb</i>	Log mail bomb archives.		
	<i>timeout</i>	Log scan timeout.		
	<i>unhandled</i>	Log archives that FortiProxy cannot open.		
emulator	Enable/disable the virus emulator.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable the virus emulator.		
	<i>disable</i>	Disable the virus emulator.		
executables	Treat Windows executable files as viruses for the purpose of blocking or monitoring.	option	-	default
	Option	Description		
	<i>default</i>	Perform standard AntiVirus scanning of Windows executable files.		
	<i>virus</i>	Treat Windows executables as viruses.		
content-disarm	Enable/disable Content Disarm and Reconstruction when performing AntiVirus scan.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable Content Disarm and Reconstruction when performing AntiVirus scan.		
	<i>enable</i>	Enable Content Disarm and Reconstruction when performing AntiVirus scan.		

config smtp

Parameter	Description	Type	Size	Default
av-scan	Enable AntiVirus scan service.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the virus infected files.		
	<i>monitor</i>	Log the virus infected files.		
outbreak-prevention	Enable virus outbreak prevention service.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the matched files.		
	<i>monitor</i>	Log the matched files.		
external-blocklist	Enable external-blocklist. Analyzes files including the content of archives.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the matched files.		
	<i>monitor</i>	Log the matched files.		
fortindr	Enable scanning of files by FortiNDR.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the FortiNDR detected infections.		
	<i>monitor</i>	Log the FortiNDR detected infections.		
fortisandbox	Enable scanning of files by FortiSandbox.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the FortiSandbox detected infections.		
	<i>monitor</i>	Log the FortiSandbox detected infections.		
quarantine	Enable/disable quarantine for infected files.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable quarantine for infected files.		
	<i>enable</i>	Enable quarantine for infected files.		
archive-block	Select the archive types to block.	option	-	
	Option	Description		
	<i>encrypted</i>	Block encrypted archives.		
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	<i>mailbomb</i>	Block mail bomb archives.		
	<i>timeout</i>	Block scan timeout.		
	<i>unhandled</i>	Block archives that FortiProxy cannot open.		

Parameter	Description	Type	Size	Default																		
archive-log	Select the archive types to log.	option	-																			
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<i>virus</i>	Treat Windows executables as viruses.																					
content-disarm	Enable/disable Content Disarm and Reconstruction when performing AntiVirus scan.	option	-	disable																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable Content Disarm and Reconstruction when performing AntiVirus scan.</td></tr><tr><td><i>enable</i></td><td>Enable Content Disarm and Reconstruction when performing AntiVirus scan.</td></tr></table>	Option	Description	<i>disable</i>	Disable Content Disarm and Reconstruction when performing AntiVirus scan.	<i>enable</i>	Enable Content Disarm and Reconstruction when performing AntiVirus scan.															
Option	Description																					
<i>disable</i>	Disable Content Disarm and Reconstruction when performing AntiVirus scan.																					
<i>enable</i>	Enable Content Disarm and Reconstruction when performing AntiVirus scan.																					

config mapi

Parameter	Description	Type	Size	Default
av-scan	Enable AntiVirus scan service.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the virus infected files.		
	<i>monitor</i>	Log the virus infected files.		
outbreak-prevention	Enable virus outbreak prevention service.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the matched files.		
	<i>monitor</i>	Log the matched files.		
external-blocklist	Enable external-blocklist. Analyzes files including the content of archives.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the matched files.		
	<i>monitor</i>	Log the matched files.		
fortindr	Enable scanning of files by FortiNDR.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the FortiNDR detected infections.		
	<i>monitor</i>	Log the FortiNDR detected infections.		
fortisandbox	Enable scanning of files by FortiSandbox.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the FortiSandbox detected infections.		
	<i>monitor</i>	Log the FortiSandbox detected infections.		
quarantine	Enable/disable quarantine for infected files.	option	-	disable

Parameter	Description	Type	Size	Default																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable quarantine for infected files.</td></tr><tr><td><i>enable</i></td><td>Enable quarantine for infected files.</td></tr></table>	Option	Description	<i>disable</i>	Disable quarantine for infected files.	<i>enable</i>	Enable quarantine for infected files.															
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archive-block	Select the archive types to block.	option	-																			
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	<i>mailbomb</i>	Block mail bomb archives.																				
	<i>timeout</i>	Block scan timeout.																				
<i>unhandled</i>	Block archives that FortiProxy cannot open.																					
archive-log	Select the archive types to log.	option	-																			
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>encrypted</i></td><td>Log encrypted archives.</td></tr><tr><td><i>corrupted</i></td><td>Log corrupted archives.</td></tr><tr><td><i>partiallycorrupted</i></td><td>Log partially corrupted archives.</td></tr><tr><td><i>multipart</i></td><td>Log multipart archives.</td></tr><tr><td><i>nested</i></td><td>Log nested archives that exceed uncompressed nest limit.</td></tr><tr><td><i>mailbomb</i></td><td>Log mail bomb archives.</td></tr><tr><td><i>timeout</i></td><td>Log scan timeout.</td></tr><tr><td><i>unhandled</i></td><td>Log archives that FortiProxy cannot open.</td></tr></table>	Option	Description	<i>encrypted</i>	Log encrypted archives.	<i>corrupted</i>	Log corrupted archives.	<i>partiallycorrupted</i>	Log partially corrupted archives.	<i>multipart</i>	Log multipart archives.	<i>nested</i>	Log nested archives that exceed uncompressed nest limit.	<i>mailbomb</i>	Log mail bomb archives.	<i>timeout</i>	Log scan timeout.	<i>unhandled</i>	Log archives that FortiProxy cannot open.			
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	<i>mailbomb</i>	Log mail bomb archives.																				
	<i>timeout</i>	Log scan timeout.																				
<i>unhandled</i>	Log archives that FortiProxy cannot open.																					
emulator	Enable/disable the virus emulator.	option	-	enable																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable the virus emulator.</td></tr><tr><td><i>disable</i></td><td>Disable the virus emulator.</td></tr></table>	Option	Description	<i>enable</i>	Enable the virus emulator.	<i>disable</i>	Disable the virus emulator.															
	Option	Description																				
	<i>enable</i>	Enable the virus emulator.																				
<i>disable</i>	Disable the virus emulator.																					
executables	Treat Windows executable files as viruses for the purpose of blocking or monitoring.	option	-	default																		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>default</i>	Perform standard AntiVirus scanning of Windows executable files.		
	<i>virus</i>	Treat Windows executables as viruses.		

config nntp

Parameter	Description	Type	Size	Default
av-scan	Enable AntiVirus scan service.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the virus infected files.		
	<i>monitor</i>	Log the virus infected files.		
outbreak-prevention	Enable virus outbreak prevention service.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the matched files.		
	<i>monitor</i>	Log the matched files.		
external-blocklist	Enable external-blocklist. Analyzes files including the content of archives.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the matched files.		
	<i>monitor</i>	Log the matched files.		
fortindr	Enable scanning of files by FortiNDR.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the FortiNDR detected infections.		
	<i>monitor</i>	Log the FortiNDR detected infections.		
fortisandbox	Enable scanning of files by FortiSandbox.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the FortiSandbox detected infections.		
	<i>monitor</i>	Log the FortiSandbox detected infections.		
quarantine	Enable/disable quarantine for infected files.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable quarantine for infected files.		
	<i>enable</i>	Enable quarantine for infected files.		
archive-block	Select the archive types to block.	option	-	
	Option	Description		
	<i>encrypted</i>	Block encrypted archives.		
	<i>corrupted</i>	Block corrupted archives.		
	<i>partiallycorrupted</i>	Block partially corrupted archives.		
	<i>multipart</i>	Block multipart archives.		
	<i>nested</i>	Block nested archives that exceed uncompressed nest limit.		
	<i>mailbomb</i>	Block mail bomb archives.		
	<i>timeout</i>	Block scan timeout.		
	<i>unhandled</i>	Block archives that FortiProxy cannot open.		
archive-log	Select the archive types to log.	option	-	
	Option	Description		
	<i>encrypted</i>	Log encrypted archives.		
	<i>corrupted</i>	Log corrupted archives.		
	<i>partiallycorrupted</i>	Log partially corrupted archives.		
	<i>multipart</i>	Log multipart archives.		
	<i>nested</i>	Log nested archives that exceed uncompressed nest limit.		
	<i>mailbomb</i>	Log mail bomb archives.		
	<i>timeout</i>	Log scan timeout.		
	<i>unhandled</i>	Log archives that FortiProxy cannot open.		
emulator	Enable/disable the virus emulator.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable the virus emulator.		
	<i>disable</i>	Disable the virus emulator.		

config cifs

Parameter	Description	Type	Size	Default
av-scan	Enable AntiVirus scan service.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the virus infected files.		
	<i>monitor</i>	Log the virus infected files.		
outbreak-prevention	Enable virus outbreak prevention service.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the matched files.		
	<i>monitor</i>	Log the matched files.		
external-blocklist	Enable external-blocklist. Analyzes files including the content of archives.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the matched files.		
	<i>monitor</i>	Log the matched files.		
fortindr	Enable scanning of files by FortiNDR.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the FortiNDR detected infections.		
	<i>monitor</i>	Log the FortiNDR detected infections.		
fortisandbox	Enable scanning of files by FortiSandbox.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the FortiSandbox detected infections.		
	<i>monitor</i>	Log the FortiSandbox detected infections.		
quarantine	Enable/disable quarantine for infected files.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable quarantine for infected files.		
	<i>enable</i>	Enable quarantine for infected files.		
archive-block	Select the archive types to block.	option	-	
	Option	Description		
	<i>encrypted</i>	Block encrypted archives.		
	<i>corrupted</i>	Block corrupted archives.		
	<i>partiallycorrupted</i>	Block partially corrupted archives.		
	<i>multipart</i>	Block multipart archives.		
	<i>nested</i>	Block nested archives that exceed uncompressed nest limit.		
	<i>mailbomb</i>	Block mail bomb archives.		
	<i>timeout</i>	Block scan timeout.		
	<i>unhandled</i>	Block archives that FortiProxy cannot open.		
archive-log	Select the archive types to log.	option	-	
	Option	Description		
	<i>encrypted</i>	Log encrypted archives.		
	<i>corrupted</i>	Log corrupted archives.		
	<i>partiallycorrupted</i>	Log partially corrupted archives.		
	<i>multipart</i>	Log multipart archives.		
	<i>nested</i>	Log nested archives that exceed uncompressed nest limit.		
	<i>mailbomb</i>	Log mail bomb archives.		
	<i>timeout</i>	Log scan timeout.		
	<i>unhandled</i>	Log archives that FortiProxy cannot open.		
emulator	Enable/disable the virus emulator.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable the virus emulator.		
	<i>disable</i>	Disable the virus emulator.		

config ssh

Parameter	Description	Type	Size	Default
av-scan	Enable AntiVirus scan service.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the virus infected files.		
	<i>monitor</i>	Log the virus infected files.		
outbreak-prevention	Enable virus outbreak prevention service.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the matched files.		
	<i>monitor</i>	Log the matched files.		
external-blocklist	Enable external-blocklist. Analyzes files including the content of archives.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the matched files.		
	<i>monitor</i>	Log the matched files.		
fortindr	Enable scanning of files by FortiNDR.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the FortiNDR detected infections.		
	<i>monitor</i>	Log the FortiNDR detected infections.		
fortisandbox	Enable scanning of files by FortiSandbox.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable.		
	<i>block</i>	Block the FortiSandbox detected infections.		
	<i>monitor</i>	Log the FortiSandbox detected infections.		
quarantine	Enable/disable quarantine for infected files.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable quarantine for infected files.		
	<i>enable</i>	Enable quarantine for infected files.		
archive-block	Select the archive types to block.	option	-	
	Option	Description		
	<i>encrypted</i>	Block encrypted archives.		
	<i>corrupted</i>	Block corrupted archives.		
	<i>partiallycorrupted</i>	Block partially corrupted archives.		
	<i>multipart</i>	Block multipart archives.		
	<i>nested</i>	Block nested archives that exceed uncompressed nest limit.		
	<i>mailbomb</i>	Block mail bomb archives.		
	<i>timeout</i>	Block scan timeout.		
	<i>unhandled</i>	Block archives that FortiProxy cannot open.		
archive-log	Select the archive types to log.	option	-	
	Option	Description		
	<i>encrypted</i>	Log encrypted archives.		
	<i>corrupted</i>	Log corrupted archives.		
	<i>partiallycorrupted</i>	Log partially corrupted archives.		
	<i>multipart</i>	Log multipart archives.		
	<i>nested</i>	Log nested archives that exceed uncompressed nest limit.		
	<i>mailbomb</i>	Log mail bomb archives.		
	<i>timeout</i>	Log scan timeout.		
	<i>unhandled</i>	Log archives that FortiProxy cannot open.		
emulator	Enable/disable the virus emulator.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable the virus emulator.		
	<i>disable</i>	Disable the virus emulator.		

config nac-quar

Parameter	Description	Type	Size	Default
infected	Enable/Disable quarantining infected hosts to the banned user list.	option	-	none
	Option	Description		
	<i>none</i>	Do not quarantine infected hosts.		
	<i>quar-src-ip</i>	Quarantine all traffic from the infected hosts source IP.		
expiry	Duration of quarantine.	user	Not Specified	5m
log	Enable/disable AntiVirus quarantine logging.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable AntiVirus quarantine logging.		
	<i>disable</i>	Disable AntiVirus quarantine logging.		

config content-disarm

Parameter	Description	Type	Size	Default
original-file-destination	Destination to send original file if active content is removed.	option	-	discard
	Option	Description		
	<i>fortisandbox</i>	Send original file to configured FortiSandbox.		
	<i>quarantine</i>	Send original file to quarantine.		
	<i>discard</i>	Original file will be discarded after content disarm.		
error-action	Action to be taken if CDR engine encounters an unrecoverable error.	option	-	log-only

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>block</i>	Block file on CDR error.		
	<i>log-only</i>	Log CDR error, but allow file.		
	<i>ignore</i>	Do nothing on CDR error.		
office-macro	Enable/disable stripping of macros in Microsoft Office documents.	option	-	enable
	Option	Description		
	<i>disable</i>	Disable this Content Disarm and Reconstruction feature.		
	<i>enable</i>	Enable this Content Disarm and Reconstruction feature.		
office-hylink	Enable/disable stripping of hyperlinks in Microsoft Office documents.	option	-	enable
	Option	Description		
	<i>disable</i>	Disable this Content Disarm and Reconstruction feature.		
	<i>enable</i>	Enable this Content Disarm and Reconstruction feature.		
office-linked	Enable/disable stripping of linked objects in Microsoft Office documents.	option	-	enable
	Option	Description		
	<i>disable</i>	Disable this Content Disarm and Reconstruction feature.		
	<i>enable</i>	Enable this Content Disarm and Reconstruction feature.		
office-embed	Enable/disable stripping of embedded objects in Microsoft Office documents.	option	-	enable
	Option	Description		
	<i>disable</i>	Disable this Content Disarm and Reconstruction feature.		
	<i>enable</i>	Enable this Content Disarm and Reconstruction feature.		
office-dde	Enable/disable stripping of Dynamic Data Exchange events in Microsoft Office documents.	option	-	enable
	Option	Description		
	<i>disable</i>	Disable this Content Disarm and Reconstruction feature.		
	<i>enable</i>	Enable this Content Disarm and Reconstruction feature.		

Parameter	Description	Type	Size	Default						
office-action	Enable/disable stripping of PowerPoint action events in Microsoft Office documents.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable this Content Disarm and Reconstruction feature.</td></tr><tr><td><i>enable</i></td><td>Enable this Content Disarm and Reconstruction feature.</td></tr></table>	Option	Description	<i>disable</i>	Disable this Content Disarm and Reconstruction feature.	<i>enable</i>	Enable this Content Disarm and Reconstruction feature.			
Option	Description									
<i>disable</i>	Disable this Content Disarm and Reconstruction feature.									
<i>enable</i>	Enable this Content Disarm and Reconstruction feature.									
pdf-javacode	Enable/disable stripping of JavaScript code in PDF documents.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable this Content Disarm and Reconstruction feature.</td></tr><tr><td><i>enable</i></td><td>Enable this Content Disarm and Reconstruction feature.</td></tr></table>	Option	Description	<i>disable</i>	Disable this Content Disarm and Reconstruction feature.	<i>enable</i>	Enable this Content Disarm and Reconstruction feature.			
Option	Description									
<i>disable</i>	Disable this Content Disarm and Reconstruction feature.									
<i>enable</i>	Enable this Content Disarm and Reconstruction feature.									
pdf-embedfile	Enable/disable stripping of embedded files in PDF documents.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable this Content Disarm and Reconstruction feature.</td></tr><tr><td><i>enable</i></td><td>Enable this Content Disarm and Reconstruction feature.</td></tr></table>	Option	Description	<i>disable</i>	Disable this Content Disarm and Reconstruction feature.	<i>enable</i>	Enable this Content Disarm and Reconstruction feature.			
Option	Description									
<i>disable</i>	Disable this Content Disarm and Reconstruction feature.									
<i>enable</i>	Enable this Content Disarm and Reconstruction feature.									
pdf-hyperlink	Enable/disable stripping of hyperlinks from PDF documents.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable this Content Disarm and Reconstruction feature.</td></tr><tr><td><i>enable</i></td><td>Enable this Content Disarm and Reconstruction feature.</td></tr></table>	Option	Description	<i>disable</i>	Disable this Content Disarm and Reconstruction feature.	<i>enable</i>	Enable this Content Disarm and Reconstruction feature.			
Option	Description									
<i>disable</i>	Disable this Content Disarm and Reconstruction feature.									
<i>enable</i>	Enable this Content Disarm and Reconstruction feature.									
pdf-act-gotor	Enable/disable stripping of PDF document actions that access other PDF documents.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable this Content Disarm and Reconstruction feature.</td></tr><tr><td><i>enable</i></td><td>Enable this Content Disarm and Reconstruction feature.</td></tr></table>	Option	Description	<i>disable</i>	Disable this Content Disarm and Reconstruction feature.	<i>enable</i>	Enable this Content Disarm and Reconstruction feature.			
Option	Description									
<i>disable</i>	Disable this Content Disarm and Reconstruction feature.									
<i>enable</i>	Enable this Content Disarm and Reconstruction feature.									
pdf-act-launch	Enable/disable stripping of PDF document actions that launch other applications.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable this Content Disarm and Reconstruction feature.</td></tr><tr><td><i>enable</i></td><td>Enable this Content Disarm and Reconstruction feature.</td></tr></table>	Option	Description	<i>disable</i>	Disable this Content Disarm and Reconstruction feature.	<i>enable</i>	Enable this Content Disarm and Reconstruction feature.			
Option	Description									
<i>disable</i>	Disable this Content Disarm and Reconstruction feature.									
<i>enable</i>	Enable this Content Disarm and Reconstruction feature.									

Parameter	Description	Type	Size	Default						
pdf-act-sound	Enable/disable stripping of PDF document actions that play a sound.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable this Content Disarm and Reconstruction feature.</td></tr><tr><td><i>enable</i></td><td>Enable this Content Disarm and Reconstruction feature.</td></tr></table>	Option	Description	<i>disable</i>	Disable this Content Disarm and Reconstruction feature.	<i>enable</i>	Enable this Content Disarm and Reconstruction feature.			
Option	Description									
<i>disable</i>	Disable this Content Disarm and Reconstruction feature.									
<i>enable</i>	Enable this Content Disarm and Reconstruction feature.									
pdf-act-movie	Enable/disable stripping of PDF document actions that play a movie.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable this Content Disarm and Reconstruction feature.</td></tr><tr><td><i>enable</i></td><td>Enable this Content Disarm and Reconstruction feature.</td></tr></table>	Option	Description	<i>disable</i>	Disable this Content Disarm and Reconstruction feature.	<i>enable</i>	Enable this Content Disarm and Reconstruction feature.			
Option	Description									
<i>disable</i>	Disable this Content Disarm and Reconstruction feature.									
<i>enable</i>	Enable this Content Disarm and Reconstruction feature.									
pdf-act-java	Enable/disable stripping of PDF document actions that execute JavaScript code.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable this Content Disarm and Reconstruction feature.</td></tr><tr><td><i>enable</i></td><td>Enable this Content Disarm and Reconstruction feature.</td></tr></table>	Option	Description	<i>disable</i>	Disable this Content Disarm and Reconstruction feature.	<i>enable</i>	Enable this Content Disarm and Reconstruction feature.			
Option	Description									
<i>disable</i>	Disable this Content Disarm and Reconstruction feature.									
<i>enable</i>	Enable this Content Disarm and Reconstruction feature.									
pdf-act-form	Enable/disable stripping of PDF document actions that submit data to other targets.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable this Content Disarm and Reconstruction feature.</td></tr><tr><td><i>enable</i></td><td>Enable this Content Disarm and Reconstruction feature.</td></tr></table>	Option	Description	<i>disable</i>	Disable this Content Disarm and Reconstruction feature.	<i>enable</i>	Enable this Content Disarm and Reconstruction feature.			
Option	Description									
<i>disable</i>	Disable this Content Disarm and Reconstruction feature.									
<i>enable</i>	Enable this Content Disarm and Reconstruction feature.									
cover-page	Enable/disable inserting a cover page into the disarmed document.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable this Content Disarm and Reconstruction feature.</td></tr><tr><td><i>enable</i></td><td>Enable this Content Disarm and Reconstruction feature.</td></tr></table>	Option	Description	<i>disable</i>	Disable this Content Disarm and Reconstruction feature.	<i>enable</i>	Enable this Content Disarm and Reconstruction feature.			
Option	Description									
<i>disable</i>	Disable this Content Disarm and Reconstruction feature.									
<i>enable</i>	Enable this Content Disarm and Reconstruction feature.									
detect-only	Enable/disable only detect disarmable files, do not alter content.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable this Content Disarm and Reconstruction feature.</td></tr><tr><td><i>enable</i></td><td>Enable this Content Disarm and Reconstruction feature.</td></tr></table>	Option	Description	<i>disable</i>	Disable this Content Disarm and Reconstruction feature.	<i>enable</i>	Enable this Content Disarm and Reconstruction feature.			
Option	Description									
<i>disable</i>	Disable this Content Disarm and Reconstruction feature.									
<i>enable</i>	Enable this Content Disarm and Reconstruction feature.									

config antivirus quarantine

Configure quarantine options.

```
config antivirus quarantine
    Description: Configure quarantine options.
    set agelimit {integer}
    set maxfilesize {integer}
    set quarantine-quota {integer}
    set drop-infected {option1}, {option2}, ...
    set store-infected {option1}, {option2}, ...
    set drop-machine-learning {option1}, {option2}, ...
    set store-machine-learning {option1}, {option2}, ...
    set lowspace [drop-new|ovrw-old]
    set destination [NULL|disk|...]
end
```

config antivirus quarantine

Parameter	Description	Type	Size	Default
agelimit	Age limit for quarantined files (0 - 479 hours, 0 means forever).	integer	Minimum value: 0 Maximum value: 479	0
maxfilesize	Maximum file size to quarantine (0 - 500 Mbytes, 0 means unlimited).	integer	Minimum value: 0 Maximum value: 500	0
quarantine-quota	The amount of disk space to reserve for quarantining files (0 - 4294967295 Mbytes, depends on disk space).	integer	Minimum value: 0 Maximum value: 4294967295	0
drop-infected	Do not quarantine infected files found in sessions using the selected protocols. Dropped files are deleted instead of being quarantined.	option	-	
	Option Description			
	<i>imap</i>	IMAP.		
	<i>smtp</i>	SMTP.		
	<i>pop3</i>	POP3.		
	<i>http</i>	HTTP.		
	<i>ftp</i>	FTP.		

Parameter	Description	Type	Size	Default																										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>nntp</i></td><td>NNTP.</td></tr><tr><td><i>imaps</i></td><td>IMAPS.</td></tr><tr><td><i>smtps</i></td><td>SMTPS.</td></tr><tr><td><i>pop3s</i></td><td>POP3S.</td></tr><tr><td><i>https</i></td><td>HTTPS.</td></tr><tr><td><i>ftps</i></td><td>FTPS.</td></tr><tr><td><i>mapi</i></td><td>MAPI.</td></tr><tr><td><i>cifs</i></td><td>CIFS.</td></tr><tr><td><i>ssh</i></td><td>SSH.</td></tr></table>	Option	Description	<i>nntp</i>	NNTP.	<i>imaps</i>	IMAPS.	<i>smtps</i>	SMTPS.	<i>pop3s</i>	POP3S.	<i>https</i>	HTTPS.	<i>ftps</i>	FTPS.	<i>mapi</i>	MAPI.	<i>cifs</i>	CIFS.	<i>ssh</i>	SSH.									
	Option	Description																												
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	<i>mapi</i>	MAPI.																												
	<i>cifs</i>	CIFS.																												
	<i>ssh</i>	SSH.																												
store-infected	Quarantine infected files found in sessions using the selected protocols.	option	-	imap smtp pop3 http ftp nntp imaps smtps pop3s https ftps mapi cifs ssh																										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>imap</i></td><td>IMAP.</td></tr><tr><td><i>smtp</i></td><td>SMTP.</td></tr><tr><td><i>pop3</i></td><td>POP3.</td></tr><tr><td><i>http</i></td><td>HTTP.</td></tr><tr><td><i>ftp</i></td><td>FTP.</td></tr><tr><td><i>nntp</i></td><td>NNTP.</td></tr><tr><td><i>imaps</i></td><td>IMAPS.</td></tr><tr><td><i>smtps</i></td><td>SMTPS.</td></tr><tr><td><i>pop3s</i></td><td>POP3S.</td></tr><tr><td><i>https</i></td><td>HTTPS.</td></tr><tr><td><i>ftps</i></td><td>FTPS.</td></tr><tr><td><i>mapi</i></td><td>MAPI.</td></tr></table>	Option	Description	<i>imap</i>	IMAP.	<i>smtp</i>	SMTP.	<i>pop3</i>	POP3.	<i>http</i>	HTTP.	<i>ftp</i>	FTP.	<i>nntp</i>	NNTP.	<i>imaps</i>	IMAPS.	<i>smtps</i>	SMTPS.	<i>pop3s</i>	POP3S.	<i>https</i>	HTTPS.	<i>ftps</i>	FTPS.	<i>mapi</i>	MAPI.			
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Parameter	Description	Type	Size	Default																														
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	Option	Description																																
	<i>cifs</i>	CIFS.																																
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drop-machine-learning	Do not quarantine files detected by machine learning found in sessions using the selected protocols. Dropped files are deleted instead of being quarantined.	option	-																															
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>imap</i></td><td>IMAP.</td></tr><tr><td><i>smtp</i></td><td>SMTP.</td></tr><tr><td><i>pop3</i></td><td>POP3.</td></tr><tr><td><i>http</i></td><td>HTTP.</td></tr><tr><td><i>ftp</i></td><td>FTP.</td></tr><tr><td><i>nntp</i></td><td>NNTP.</td></tr><tr><td><i>imaps</i></td><td>IMAPS.</td></tr><tr><td><i>smtps</i></td><td>SMTPS.</td></tr><tr><td><i>pop3s</i></td><td>POP3S.</td></tr><tr><td><i>https</i></td><td>HTTPS.</td></tr><tr><td><i>ftps</i></td><td>FTPS.</td></tr><tr><td><i>mapi</i></td><td>MAPI.</td></tr><tr><td><i>cifs</i></td><td>CIFS.</td></tr><tr><td><i>ssh</i></td><td>SSH.</td></tr></table>	Option	Description	<i>imap</i>	IMAP.	<i>smtp</i>	SMTP.	<i>pop3</i>	POP3.	<i>http</i>	HTTP.	<i>ftp</i>	FTP.	<i>nntp</i>	NNTP.	<i>imaps</i>	IMAPS.	<i>smtps</i>	SMTPS.	<i>pop3s</i>	POP3S.	<i>https</i>	HTTPS.	<i>ftps</i>	FTPS.	<i>mapi</i>	MAPI.	<i>cifs</i>	CIFS.	<i>ssh</i>	SSH.			
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<i>ssh</i>	SSH.																																	
store-machine-learning	Quarantine files detected by machine learning found in sessions using the selected protocols.	option	-	imap smtp pop3 http ftp nntp imaps smtps pop3s https ftps mapi cifs ssh																														

Parameter	Description	Type	Size	Default																														
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	<i>mapi</i>	MAPI.																																
	<i>cifs</i>	CIFS.																																
<i>ssh</i>	SSH.																																	
lowspace	Select the method for handling additional files when running low on disk space.	option	-	ovrw-old																														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>drop-new</i></td><td>Drop (delete) the most recently quarantined files.</td></tr><tr><td><i>ovrw-old</i></td><td>Overwrite the oldest quarantined files. That is, the files that are closest to being deleted from the quarantine.</td></tr></table>	Option	Description	<i>drop-new</i>	Drop (delete) the most recently quarantined files.	<i>ovrw-old</i>	Overwrite the oldest quarantined files. That is, the files that are closest to being deleted from the quarantine.																											
	Option	Description																																
	<i>drop-new</i>	Drop (delete) the most recently quarantined files.																																
<i>ovrw-old</i>	Overwrite the oldest quarantined files. That is, the files that are closest to being deleted from the quarantine.																																	
destination	Choose whether to quarantine files to the FortiProxy disk or to FortiAnalyzer or to delete them instead of quarantining them.	option	-	disk																														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>NULL</i></td><td>Files that would be quarantined are deleted.</td></tr><tr><td><i>disk</i></td><td>Quarantine files to the FortiProxy hard disk.</td></tr><tr><td><i>FortiAnalyzer</i></td><td>FortiAnalyzer</td></tr></table>	Option	Description	<i>NULL</i>	Files that would be quarantined are deleted.	<i>disk</i>	Quarantine files to the FortiProxy hard disk.	<i>FortiAnalyzer</i>	FortiAnalyzer																									
	Option	Description																																
	<i>NULL</i>	Files that would be quarantined are deleted.																																
	<i>disk</i>	Quarantine files to the FortiProxy hard disk.																																
<i>FortiAnalyzer</i>	FortiAnalyzer																																	

config antivirus settings

Configure AntiVirus settings.


```

config antivirus settings
    Description: Configure AntiVirus settings.
    set machine-learning-detection [enable|monitor|...]
    set use-extreme-db [enable|disable]
    set grayware [enable|disable]
    set override-timeout {integer}
    set cache-infected-result [enable|disable]
end

```

config antivirus settings

Parameter	Description	Type	Size	Default								
machine-learning-detection	Use machine learning based malware detection.	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable machine learning based malware detection.</td></tr><tr><td><i>monitor</i></td><td>Enable machine learning based malware detection for monitoring only.</td></tr><tr><td><i>disable</i></td><td>Disable machine learning based malware detection.</td></tr></table>	Option	Description	<i>enable</i>	Enable machine learning based malware detection.	<i>monitor</i>	Enable machine learning based malware detection for monitoring only.	<i>disable</i>	Disable machine learning based malware detection.			
Option	Description											
<i>enable</i>	Enable machine learning based malware detection.											
<i>monitor</i>	Enable machine learning based malware detection for monitoring only.											
<i>disable</i>	Disable machine learning based malware detection.											
use-extreme-db	Enable/disable the use of Extreme AVDB.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable extreme AVDB.</td></tr><tr><td><i>disable</i></td><td>Disable extreme AVDB.</td></tr></table>	Option	Description	<i>enable</i>	Enable extreme AVDB.	<i>disable</i>	Disable extreme AVDB.					
Option	Description											
<i>enable</i>	Enable extreme AVDB.											
<i>disable</i>	Disable extreme AVDB.											
grayware	Enable/disable grayware detection when an AntiVirus profile is applied to traffic.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable grayware detection.</td></tr><tr><td><i>disable</i></td><td>Disable grayware detection.</td></tr></table>	Option	Description	<i>enable</i>	Enable grayware detection.	<i>disable</i>	Disable grayware detection.					
Option	Description											
<i>enable</i>	Enable grayware detection.											
<i>disable</i>	Disable grayware detection.											
override-timeout	Override the large file scan timeout value in seconds (30 - 3600). Zero is the default value and is used to disable this command. When disabled, the daemon adjusts the large file scan timeout based on the file size.	integer	Minimum value: 30 Maximum value: 3600	0								
cache-infected-result	Enable/disable cache of infected scan results (default = enable).	option	-	enable								

Parameter	Description		Type	Size	Default
	Option	Description			
	<i>enable</i>	Enable cache of infected scan results.			
	<i>disable</i>	Disable cache of infected scan results.			

application

This section includes syntax for the following commands:

- [config application custom on page 119](#)
- [config application group on page 120](#)
- [config application list on page 121](#)
- [config application name on page 130](#)
- [config application rule-settings on page 132](#)

config application custom

Configure custom application signatures.

```
config application custom
    Description: Configure custom application signatures.
    edit <tag>
        set id {integer}
        set comment {string}
        set signature {var-string}
        set category {integer}
        set protocol {user}
        set technology {user}
        set behavior {user}
        set vendor {user}
    next
end
```

config application custom

Parameter	Description	Type	Size	Default
tag	Signature tag.	string	Maximum length: 63	
id	Custom application category ID (use ? to view available options).	integer	Minimum value: 0 Maximum value: 4294967295	0
comment	Comment.	string	Maximum length: 63	

Parameter	Description	Type	Size	Default
signature	The text that makes up the actual custom application signature.	var-string	Maximum length: 4095	
category	Custom application category ID (use ? to view available options).	integer	Minimum value: 0 Maximum value: 4294967295	0
protocol	Custom application signature protocol.	user	Not Specified	
technology	Custom application signature technology.	user	Not Specified	
behavior	Custom application signature behavior.	user	Not Specified	
vendor	Custom application signature vendor.	user	Not Specified	

config application group

Configure firewall application groups.

```

config application group
    Description: Configure firewall application groups.
    edit <name>
        set comment {var-string}
        set type [application|filter]
        set application <id1>, <id2>, ...
        set category <id1>, <id2>, ...
        set risk <level1>, <level2>, ...
        set protocols {user}
        set vendor {user}
        set technology {user}
        set behavior {user}
        set popularity {option1}, {option2}, ...
    next
end

```

config application group

Parameter	Description	Type	Size	Default
name	Application group name.	string	Maximum length: 63	
comment	Comments.	var-string	Maximum length: 255	
type	Application group type.	option	-	application

Parameter	Description	Type	Size	Default												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>application</i></td><td>Application ID.</td></tr><tr><td><i>filter</i></td><td>Application filter.</td></tr></table>	Option	Description	<i>application</i>	Application ID.	<i>filter</i>	Application filter.									
	Option	Description														
	<i>application</i>	Application ID.														
<i>filter</i>	Application filter.															
application <id>	Application ID list. Application IDs.	integer	Minimum value: 0 Maximum value: 4294967295													
category <id>	Application category ID list. Category IDs.	integer	Minimum value: 0 Maximum value: 4294967295													
risk <level>	Risk, or impact, of allowing traffic from this application to occur (1 - 5; Low, Elevated, Medium, High, and Critical). Risk, or impact, of allowing traffic from this application to occur (1 - 5; Low, Elevated, Medium, High, and Critical).	integer	Minimum value: 0 Maximum value: 4294967295													
protocols	Application protocol filter.	user	Not Specified	all												
vendor	Application vendor filter.	user	Not Specified	all												
technology	Application technology filter.	user	Not Specified	all												
behavior	Application behavior filter.	user	Not Specified	all												
popularity	Application popularity filter (1 - 5, from least to most popular).	option	-	1 2 3 4 5												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>1</td><td>Popularity level 1.</td></tr><tr><td>2</td><td>Popularity level 2.</td></tr><tr><td>3</td><td>Popularity level 3.</td></tr><tr><td>4</td><td>Popularity level 4.</td></tr><tr><td>5</td><td>Popularity level 5.</td></tr></table>	Option	Description	1	Popularity level 1.	2	Popularity level 2.	3	Popularity level 3.	4	Popularity level 4.	5	Popularity level 5.			
	Option	Description														
	1	Popularity level 1.														
	2	Popularity level 2.														
	3	Popularity level 3.														
	4	Popularity level 4.														
5	Popularity level 5.															

config application list

Configure application control lists.

```

config application list
  Description: Configure application control lists.
  edit <name>
    set comment {var-string}
    set replacemsg-group {string}
    set extended-log [enable|disable]
    set other-application-action [pass|block]
    set app-replacemsg [disable|enable]
    set other-application-log [disable|enable]
    set enforce-default-app-port [disable|enable]
    set force-inclusion-ssl-di-sigs [disable|enable]
    set unknown-application-action [pass|block]
    set unknown-application-log [disable|enable]
    set p2p-block-list {option1}, {option2}, ...
    set deep-app-inspection [disable|enable]
    set options {option1}, {option2}, ...
  config entries
    Description: Application list entries.
    edit <id>
      set risk <level1>, <level2>, ...
      set category <id1>, <id2>, ...
      set application <id1>, <id2>, ...
      set protocols {user}
      set vendor {user}
      set technology {user}
      set behavior {user}
      set popularity {option1}, {option2}, ...
      set exclusion <id1>, <id2>, ...
    config parameters
      Description: Application parameters.
      edit <id>
        config members
          Description: Parameter tuple members.
          edit <id>
            set name {string}
            set value {string}
          next
        end
      next
    end
    set action [pass|block|...]
    set log [disable|enable]
    set log-packet [disable|enable]
    set rate-count {integer}
    set rate-duration {integer}
    set rate-mode [periodical|continuous]
    set rate-track [none|src-ip|...]
    set session-ttl {integer}
    set shaper {string}
    set quarantine [none|attacker]
    set quarantine-expiry {user}
    set quarantine-log [disable|enable]
  next
end
set control-default-network-services [disable|enable]
config default-network-services

```

```

        Description: Default network service entries.
        edit <id>
            set port {integer}
            set services {option1}, {option2}, ...
            set violation-action [pass|monitor|...]
        next
    end
next
end

```

config application list

Parameter	Description	Type	Size	Default
name	List name.	string	Maximum length: 35	
comment	Comments.	var-string	Maximum length: 255	
replacemsg-group	Replacement message group.	string	Maximum length: 35	
extended-log	Enable/disable extended logging.	option	-	disable
	Option	Description		
	enable	Enable setting.		
	disable	Disable setting.		
other-application-action	Action for other applications.	option	-	pass
	Option	Description		
	pass	Allow sessions matching an application in this application list.		
	block	Block sessions matching an application in this application list.		
app-replacemsg	Enable/disable replacement messages for blocked applications.	option	-	enable
	Option	Description		
	disable	Disable replacement messages for blocked applications.		
	enable	Enable replacement messages for blocked applications.		
other-application-log	Enable/disable logging for other applications.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable logging for other applications.		
	<i>enable</i>	Enable logging for other applications.		
enforce-default-app-port	Enable/disable default application port enforcement for allowed applications.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable default application port enforcement.		
	<i>enable</i>	Enable default application port enforcement.		
force-inclusion-ssl-di-sigs	Enable/disable forced inclusion of SSL deep inspection signatures.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable forced inclusion of signatures which normally require SSL deep inspection.		
	<i>enable</i>	Enable forced inclusion of signatures which normally require SSL deep inspection.		
unknown-application-action	Pass or block traffic from unknown applications.	option	-	pass
	Option	Description		
	<i>pass</i>	Pass or allow unknown applications.		
	<i>block</i>	Drop or block unknown applications.		
unknown-application-log	Enable/disable logging for unknown applications.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable logging for unknown applications.		
	<i>enable</i>	Enable logging for unknown applications.		
p2p-block-list	P2P applications to be block listed.	option	-	

Parameter	Description	Type	Size	Default										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>skype</td><td>Skype.</td></tr><tr><td>edonkey</td><td>Edonkey.</td></tr><tr><td>bittorrent</td><td>Bit torrent.</td></tr></table>	Option	Description	skype	Skype.	edonkey	Edonkey.	bittorrent	Bit torrent.					
	Option	Description												
	skype	Skype.												
	edonkey	Edonkey.												
bittorrent	Bit torrent.													
deep-app-inspection	Enable/disable deep application inspection.	option	-	enable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>Disable deep application inspection.</td></tr><tr><td>enable</td><td>Enable deep application inspection.</td></tr></table>	Option	Description	disable	Disable deep application inspection.	enable	Enable deep application inspection.							
	Option	Description												
	disable	Disable deep application inspection.												
enable	Enable deep application inspection.													
options	Basic application protocol signatures allowed by default.	option	-	allow-dns										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>allow-dns</td><td>Allow DNS.</td></tr><tr><td>allow-icmp</td><td>Allow ICMP.</td></tr><tr><td>allow-http</td><td>Allow generic HTTP web browsing.</td></tr><tr><td>allow-ssl</td><td>Allow generic SSL communication.</td></tr></table>	Option	Description	allow-dns	Allow DNS.	allow-icmp	Allow ICMP.	allow-http	Allow generic HTTP web browsing.	allow-ssl	Allow generic SSL communication.			
	Option	Description												
	allow-dns	Allow DNS.												
	allow-icmp	Allow ICMP.												
	allow-http	Allow generic HTTP web browsing.												
allow-ssl	Allow generic SSL communication.													
control-default-network-services	Enable/disable enforcement of protocols over selected ports.	option	-	disable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>Disable protocol enforcement over selected ports.</td></tr><tr><td>enable</td><td>Enable protocol enforcement over selected ports.</td></tr></table>	Option	Description	disable	Disable protocol enforcement over selected ports.	enable	Enable protocol enforcement over selected ports.							
	Option	Description												
	disable	Disable protocol enforcement over selected ports.												
enable	Enable protocol enforcement over selected ports.													

config entries

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0

Parameter	Description	Type	Size	Default												
risk <level>	Risk, or impact, of allowing traffic from this application to occur (1 - 5; Low, Elevated, Medium, High, and Critical). Risk, or impact, of allowing traffic from this application to occur (1 - 5; Low, Elevated, Medium, High, and Critical).	integer	Minimum value: 0 Maximum value: 4294967295													
category <id>	Category ID list. Application category ID.	integer	Minimum value: 0 Maximum value: 4294967295													
application <id>	ID of allowed applications. Application IDs.	integer	Minimum value: 0 Maximum value: 4294967295													
protocols	Application protocol filter.	user	Not Specified	all												
vendor	Application vendor filter.	user	Not Specified	all												
technology	Application technology filter.	user	Not Specified	all												
behavior	Application behavior filter.	user	Not Specified	all												
popularity	Application popularity filter (1 - 5, from least to most popular).	option	-	1 2 3 4 5												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>1</td><td>Popularity level 1.</td></tr><tr><td>2</td><td>Popularity level 2.</td></tr><tr><td>3</td><td>Popularity level 3.</td></tr><tr><td>4</td><td>Popularity level 4.</td></tr><tr><td>5</td><td>Popularity level 5.</td></tr></table>				Option	Description	1	Popularity level 1.	2	Popularity level 2.	3	Popularity level 3.	4	Popularity level 4.	5	Popularity level 5.
Option	Description															
1	Popularity level 1.															
2	Popularity level 2.															
3	Popularity level 3.															
4	Popularity level 4.															
5	Popularity level 5.															
exclusion <id>	ID of excluded applications. Excluded application IDs.	integer	Minimum value: 0 Maximum value: 4294967295													
action	Pass or block traffic, or reset connection for traffic from this application.	option	-	block												

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>pass</i>	Pass or allow matching traffic.		
	<i>block</i>	Block or drop matching traffic.		
	<i>reset</i>	Reset sessions for matching traffic.		
log	Enable/disable logging for this application list.	option	-	enable
	Option	Description		
	<i>disable</i>	Disable logging.		
	<i>enable</i>	Enable logging.		
log-packet	Enable/disable packet logging.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable packet logging.		
	<i>enable</i>	Enable packet logging.		
rate-count	Count of the rate.	integer	Minimum value: 0 Maximum value: 65535	0
rate-duration	Duration (sec) of the rate.	integer	Minimum value: 1 Maximum value: 65535	60
rate-mode	Rate limit mode.	option	-	continuous
	Option	Description		
	<i>periodical</i>	Allow configured number of packets every rate-duration.		
	<i>continuous</i>	Block packets once the rate is reached.		
rate-track	Track the packet protocol field.	option	-	none
	Option	Description		
	<i>none</i>	none		
	<i>src-ip</i>	Source IP.		
	<i>dest-ip</i>	Destination IP.		
	<i>dhcp-client-mac</i>	DHCP client.		
	<i>dns-domain</i>	DNS domain.		

Parameter	Description	Type	Size	Default						
session-ttl	Session TTL (0 = default).	integer	Minimum value: 0 Maximum value: 4294967295	0						
shaper	Traffic shaper.	string	Maximum length: 35							
quarantine	Quarantine method.	option	-	none						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>none</i></td><td>Quarantine is disabled.</td></tr><tr><td><i>attacker</i></td><td>Block all traffic sent from attacker's IP address. The attacker's IP address is also added to the banned user list. The target's address is not affected.</td></tr></table>				Option	Description	<i>none</i>	Quarantine is disabled.	<i>attacker</i>	Block all traffic sent from attacker's IP address. The attacker's IP address is also added to the banned user list. The target's address is not affected.
Option	Description									
<i>none</i>	Quarantine is disabled.									
<i>attacker</i>	Block all traffic sent from attacker's IP address. The attacker's IP address is also added to the banned user list. The target's address is not affected.									
quarantine-expiry	Duration of quarantine. (Format ####d##h##m, minimum 1m, maximum 364d23h59m, default = 5m). Requires quarantine set to attacker.	user	Not Specified	5m						
quarantine-log	Enable/disable quarantine logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable quarantine logging.</td></tr><tr><td><i>enable</i></td><td>Enable quarantine logging.</td></tr></table>				Option	Description	<i>disable</i>	Disable quarantine logging.	<i>enable</i>	Enable quarantine logging.
Option	Description									
<i>disable</i>	Disable quarantine logging.									
<i>enable</i>	Enable quarantine logging.									

config parameters

Parameter	Description	Type	Size	Default
id	Parameter tuple ID.	integer	Minimum value: 0 Maximum value: 4294967295	0

config members

Parameter	Description	Type	Size	Default
id	Parameter.	integer	Minimum value: 0 Maximum value: 4294967295	0

Parameter	Description	Type	Size	Default
name	Parameter name.	string	Maximum length: 31	
value	Parameter value.	string	Maximum length: 199	

config default-network-services

Parameter	Description	Type	Size	Default																								
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0																								
port	Port number.	integer	Minimum value: 0 Maximum value: 65535	0																								
services	Network protocols.	option	-																									
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>http</td><td>HTTP.</td></tr><tr><td>ssh</td><td>SSH.</td></tr><tr><td>telnet</td><td>TELNET.</td></tr><tr><td>ftp</td><td>FTP.</td></tr><tr><td>dns</td><td>DNS.</td></tr><tr><td>smtp</td><td>SMTP.</td></tr><tr><td>pop3</td><td>POP3.</td></tr><tr><td>imap</td><td>IMAP.</td></tr><tr><td>snmp</td><td>SNMP.</td></tr><tr><td>nntp</td><td>NNTP.</td></tr><tr><td>https</td><td>HTTPS.</td></tr></table>				Option	Description	http	HTTP.	ssh	SSH.	telnet	TELNET.	ftp	FTP.	dns	DNS.	smtp	SMTP.	pop3	POP3.	imap	IMAP.	snmp	SNMP.	nntp	NNTP.	https	HTTPS.
Option	Description																											
http	HTTP.																											
ssh	SSH.																											
telnet	TELNET.																											
ftp	FTP.																											
dns	DNS.																											
smtp	SMTP.																											
pop3	POP3.																											
imap	IMAP.																											
snmp	SNMP.																											
nntp	NNTP.																											
https	HTTPS.																											
violation-action	Action for protocols not in the allowlist for selected port.	option	-	block																								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>pass</td><td>Allow protocols not in the allowlist for selected port.</td></tr></table>				Option	Description	pass	Allow protocols not in the allowlist for selected port.																				
Option	Description																											
pass	Allow protocols not in the allowlist for selected port.																											

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>monitor</i>	Monitor protocols not in the allowlist for selected port.		
	<i>block</i>	Block protocols not in the allowlist for selected port.		

config application name

Configure application signatures.

```

config application name
    Description: Configure application signatures.
    edit <name>
        set id {integer}
        set category {integer}
        set popularity {integer}
        set risk {integer}
        set weight {integer}
        set protocol {user}
        set technology {user}
        set behavior {user}
        set vendor {user}
    config parameters
        Description: Application parameters.
        edit <name>
            set default value {string}
        next
    end
    config metadata
        Description: Meta data.
        edit <id>
            set metaid {integer}
            set valueid {integer}
        next
    end
next
end

```

config application name

Parameter	Description	Type	Size	Default
name	Application name.	string	Maximum length: 63	

Parameter	Description	Type	Size	Default
id	Application ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
category	Application category ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
popularity	Application popularity.	integer	Minimum value: 0 Maximum value: 255	0
risk	Application risk.	integer	Minimum value: 0 Maximum value: 255	0
weight	Application weight.	integer	Minimum value: 0 Maximum value: 255	0
protocol	Application protocol.	user	Not Specified	
technology	Application technology.	user	Not Specified	
behavior	Application behavior.	user	Not Specified	
vendor	Application vendor.	user	Not Specified	

config parameters

Parameter	Description	Type	Size	Default
name	Parameter name.	string	Maximum length: 31	
default value	Parameter default value.	string	Maximum length: 199	

config metadata

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
metaid	Meta ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
valueid	Value ID.	integer	Minimum value: 0 Maximum value: 4294967295	0

config application rule-settings

Configure application rule settings.

```
config application rule-settings
    Description: Configure application rule settings.
    edit <id>
    next
end
```

config application rule-settings

Parameter	Description	Type	Size	Default
id	Rule ID.	integer	Minimum value: 0 Maximum value: 4294967295	0

authentication

This section includes syntax for the following commands:

- [config authentication rule on page 133](#)
- [config authentication scheme on page 136](#)
- [config authentication setting on page 139](#)

config authentication rule

Configure Authentication Rules.

```
config authentication rule
    Description: Configure Authentication Rules.
    edit <name>
        set status [enable|disable]
        set protocol [http|ftp|...]
        set web-proxy {string}
        set srcintf <name1>, <name2>, ...
        set srcaddr <name1>, <name2>, ...
        set dstaddr <name1>, <name2>, ...
        set srcaddr6 <name1>, <name2>, ...
        set dstaddr6 <name1>, <name2>, ...
        set ip-based [enable|disable]
        set active-auth-method {string}
        set sso-auth-method {string}
        set web-auth-cookie [enable|disable]
        set cors-stateful [enable|disable]
        set cors-depth {integer}
        set cert-auth-cookie [enable|disable]
        set transaction-based [enable|disable]
        set web-portal [enable|disable]
        set comments {var-string}
        set form-auth-fallback [enable|disable]
    next
end
```

config authentication rule

Parameter	Description	Type	Size	Default
name	Authentication rule name.	string	Maximum length: 35	
status	Enable/disable this authentication rule.	option	-	enable

Parameter	Description	Type	Size	Default												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable this authentication rule.</td></tr><tr><td><i>disable</i></td><td>Disable this authentication rule.</td></tr></table>	Option	Description	<i>enable</i>	Enable this authentication rule.	<i>disable</i>	Disable this authentication rule.									
Option	Description															
<i>enable</i>	Enable this authentication rule.															
<i>disable</i>	Disable this authentication rule.															
protocol	Authentication is required for the selected protocol (default = HTTP).	option	-	http												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>http</i></td><td>HTTP traffic is matched and authentication is required.</td></tr><tr><td><i>ftp</i></td><td>FTP traffic is matched and authentication is required.</td></tr><tr><td><i>socks</i></td><td>SOCKS traffic is matched and authentication is required.</td></tr><tr><td><i>ssh</i></td><td>SSH traffic is matched and authentication is required.</td></tr><tr><td><i>ztna-portal</i></td><td>ZTNA portal traffic is matched and authentication is required.</td></tr></table>	Option	Description	<i>http</i>	HTTP traffic is matched and authentication is required.	<i>ftp</i>	FTP traffic is matched and authentication is required.	<i>socks</i>	SOCKS traffic is matched and authentication is required.	<i>ssh</i>	SSH traffic is matched and authentication is required.	<i>ztna-portal</i>	ZTNA portal traffic is matched and authentication is required.			
Option	Description															
<i>http</i>	HTTP traffic is matched and authentication is required.															
<i>ftp</i>	FTP traffic is matched and authentication is required.															
<i>socks</i>	SOCKS traffic is matched and authentication is required.															
<i>ssh</i>	SSH traffic is matched and authentication is required.															
<i>ztna-portal</i>	ZTNA portal traffic is matched and authentication is required.															
web-proxy	Web-Proxy profile.	string	Maximum length: 35													
srcintf <name>	Incoming (ingress) interface. Interface name.	string	Maximum length: 79													
srcaddr <name>	Authentication is required for the selected IPv4 source address. Address name.	string	Maximum length: 79													
dstaddr <name>	Select an IPv4 destination address from available options. Required for web proxy authentication. Address name.	string	Maximum length: 79													
srcaddr6 <name>	Authentication is required for the selected IPv6 source address. Address name.	string	Maximum length: 79													
dstaddr6 <name>	Select an IPv6 destination address from available options. Required for web proxy authentication. Address name.	string	Maximum length: 79													
ip-based	Enable/disable IP-based authentication. When enabled, previously authenticated users from the same IP address will be exempted.	option	-	enable												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable IP-based authentication.</td></tr><tr><td><i>disable</i></td><td>Disable IP-based authentication.</td></tr></table>	Option	Description	<i>enable</i>	Enable IP-based authentication.	<i>disable</i>	Disable IP-based authentication.									
Option	Description															
<i>enable</i>	Enable IP-based authentication.															
<i>disable</i>	Disable IP-based authentication.															

Parameter	Description	Type	Size	Default						
active-auth-method	Select an active authentication method.	string	Maximum length: 35							
sso-auth-method	Select a single-sign on (SSO) authentication method.	string	Maximum length: 35							
web-auth-cookie	Enable/disable Web authentication cookies (default = disable).	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable Web authentication cookie.</td></tr><tr><td><i>disable</i></td><td>Disable Web authentication cookie.</td></tr></table>	Option	Description	<i>enable</i>	Enable Web authentication cookie.	<i>disable</i>	Disable Web authentication cookie.			
Option	Description									
<i>enable</i>	Enable Web authentication cookie.									
<i>disable</i>	Disable Web authentication cookie.									
cors-stateful	Enable/disable allowance of CORS access (default = disable).	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable allowance of CORS access</td></tr><tr><td><i>disable</i></td><td>Disable allowance of CORS access</td></tr></table>	Option	Description	<i>enable</i>	Enable allowance of CORS access	<i>disable</i>	Disable allowance of CORS access			
Option	Description									
<i>enable</i>	Enable allowance of CORS access									
<i>disable</i>	Disable allowance of CORS access									
cors-depth	Depth to allow CORS access (default = 3).	integer	Minimum value: 1 Maximum value: 8	3						
cert-auth-cookie	Enable/disable to use device certificate as authentication cookie (default = enable).	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable device certificate as authentication cookie.</td></tr><tr><td><i>disable</i></td><td>Disable device certificate as authentication cookie.</td></tr></table>	Option	Description	<i>enable</i>	Enable device certificate as authentication cookie.	<i>disable</i>	Disable device certificate as authentication cookie.			
Option	Description									
<i>enable</i>	Enable device certificate as authentication cookie.									
<i>disable</i>	Disable device certificate as authentication cookie.									
transaction-based	Enable/disable transaction based authentication (default = disable).	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable transaction based authentication.</td></tr><tr><td><i>disable</i></td><td>Disable transaction based authentication.</td></tr></table>	Option	Description	<i>enable</i>	Enable transaction based authentication.	<i>disable</i>	Disable transaction based authentication.			
Option	Description									
<i>enable</i>	Enable transaction based authentication.									
<i>disable</i>	Disable transaction based authentication.									
web-portal	Enable/disable web portal for proxy transparent policy (default = enable).	option	-	enable						

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable web-portal.		
	<i>disable</i>	Disable web-portal.		
comments	Comment.	var-string	Maximum length: 1023	
form-auth-fallback	Enable/disable to use FORM authentication if needed. (default = disable).	option	-	disable
	Option	Description		
	<i>enable</i>	Enable Form Authentication Fallback		
	<i>disable</i>	Disable Form Authentication Fallback		

config authentication scheme

Configure Authentication Schemes.

```

config authentication scheme
    Description: Configure Authentication Schemes.
    edit <name>
        set method {option1}, {option2}, ...
        set negotiate-ntlm [enable|disable]
        set kerberos-keytab {string}
        set domain-controller {string}
        set saml-server {string}
        set saml-timeout {integer}
        set oidc-server {string}
        set oidc-timeout {integer}
        set fsso-agent-for-ntlm {string}
        set require-tfa [enable|disable]
        set fsso-guest [enable|disable]
        set user-cert [enable|disable]
        set search-all-ldap-databases [enable|disable]
        set user-database <name1>, <name2>, ...
        set ssh-ca {string}
    next
end

```

config authentication scheme

Parameter	Description	Type	Size	Default
name	Authentication scheme name.	string	Maximum length: 35	

Parameter	Description	Type	Size	Default																												
method	Authentication methods (default = basic).	option	-																													
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>ntlm</i></td><td>NTLM authentication.</td></tr><tr><td><i>basic</i></td><td>Basic HTTP authentication.</td></tr><tr><td><i>digest</i></td><td>Digest HTTP authentication.</td></tr><tr><td><i>form</i></td><td>Form-based HTTP authentication.</td></tr><tr><td><i>negotiate</i></td><td>Negotiate authentication.</td></tr><tr><td><i>fsso</i></td><td>Fortinet Single Sign-On (FSSO) authentication.</td></tr><tr><td><i>rsso</i></td><td>RADIUS Single Sign-On (RSSO) authentication.</td></tr><tr><td><i>ssh-publickey</i></td><td>Public key based SSH authentication.</td></tr><tr><td><i>cert</i></td><td>Client certificate authentication.</td></tr><tr><td><i>saml</i></td><td>SAML authentication.</td></tr><tr><td><i>x-auth-user</i></td><td>User from HTTP x-authenticated-user header.</td></tr><tr><td><i>ztna-relay</i></td><td>ZTNA relay authentication.</td></tr><tr><td><i>oidc</i></td><td>OpenID Connect.</td></tr></table>	Option	Description	<i>ntlm</i>	NTLM authentication.	<i>basic</i>	Basic HTTP authentication.	<i>digest</i>	Digest HTTP authentication.	<i>form</i>	Form-based HTTP authentication.	<i>negotiate</i>	Negotiate authentication.	<i>fsso</i>	Fortinet Single Sign-On (FSSO) authentication.	<i>rsso</i>	RADIUS Single Sign-On (RSSO) authentication.	<i>ssh-publickey</i>	Public key based SSH authentication.	<i>cert</i>	Client certificate authentication.	<i>saml</i>	SAML authentication.	<i>x-auth-user</i>	User from HTTP x-authenticated-user header.	<i>ztna-relay</i>	ZTNA relay authentication.	<i>oidc</i>	OpenID Connect.			
	Option	Description																														
	<i>ntlm</i>	NTLM authentication.																														
	<i>basic</i>	Basic HTTP authentication.																														
	<i>digest</i>	Digest HTTP authentication.																														
	<i>form</i>	Form-based HTTP authentication.																														
	<i>negotiate</i>	Negotiate authentication.																														
	<i>fsso</i>	Fortinet Single Sign-On (FSSO) authentication.																														
	<i>rsso</i>	RADIUS Single Sign-On (RSSO) authentication.																														
	<i>ssh-publickey</i>	Public key based SSH authentication.																														
	<i>cert</i>	Client certificate authentication.																														
	<i>saml</i>	SAML authentication.																														
	<i>x-auth-user</i>	User from HTTP x-authenticated-user header.																														
	<i>ztna-relay</i>	ZTNA relay authentication.																														
<i>oidc</i>	OpenID Connect.																															
negotiate-ntlm	Enable/disable negotiate authentication for NTLM (default = disable).	option	-	enable																												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable negotiate authentication for NTLM.</td></tr><tr><td><i>disable</i></td><td>Disable negotiate authentication for NTLM.</td></tr></table>	Option	Description	<i>enable</i>	Enable negotiate authentication for NTLM.	<i>disable</i>	Disable negotiate authentication for NTLM.																									
	Option	Description																														
	<i>enable</i>	Enable negotiate authentication for NTLM.																														
<i>disable</i>	Disable negotiate authentication for NTLM.																															
kerberos-keytab	Kerberos keytab setting.	string	Maximum length: 35																													
domain-controller	Domain controller setting.	string	Maximum length: 35																													
saml-server	SAML configuration.	string	Maximum length: 35																													
saml-timeout	SAML authentication timeout in seconds.	integer	Minimum value: 30 Maximum value: 1200	120																												
oidc-server	OpenID Connect server configuration.	string	Maximum length: 35																													

Parameter	Description	Type	Size	Default						
oidc-timeout	OpenID Connect authentication timeout in seconds.	integer	Minimum value: 30 Maximum value: 1200	120						
fsso-agent-for-ntlm	FSSO agent to use for NTLM authentication.	string	Maximum length: 35							
require-tfa	Enable/disable two-factor authentication (default = disable).	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable two-factor authentication.</td></tr><tr><td><i>disable</i></td><td>Disable two-factor authentication.</td></tr></table>	Option	Description	<i>enable</i>	Enable two-factor authentication.	<i>disable</i>	Disable two-factor authentication.			
Option	Description									
<i>enable</i>	Enable two-factor authentication.									
<i>disable</i>	Disable two-factor authentication.									
fsso-guest	Enable/disable user fsso-guest authentication (default = disable).	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable user fsso-guest authentication.</td></tr><tr><td><i>disable</i></td><td>Disable user fsso-guest authentication.</td></tr></table>	Option	Description	<i>enable</i>	Enable user fsso-guest authentication.	<i>disable</i>	Disable user fsso-guest authentication.			
Option	Description									
<i>enable</i>	Enable user fsso-guest authentication.									
<i>disable</i>	Disable user fsso-guest authentication.									
user-cert	Enable/disable authentication with user certificate (default = disable).	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable client certificate field authentication.</td></tr><tr><td><i>disable</i></td><td>Disable client certificate field authentication.</td></tr></table>	Option	Description	<i>enable</i>	Enable client certificate field authentication.	<i>disable</i>	Disable client certificate field authentication.			
Option	Description									
<i>enable</i>	Enable client certificate field authentication.									
<i>disable</i>	Disable client certificate field authentication.									
search-all-ldap-databases	Enable/disable searching all LDAP databases to find groups.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable searching for groups in all LDAP databases.</td></tr><tr><td><i>disable</i></td><td>Disable searching for groups in all LDAP databases.</td></tr></table>	Option	Description	<i>enable</i>	Enable searching for groups in all LDAP databases.	<i>disable</i>	Disable searching for groups in all LDAP databases.			
Option	Description									
<i>enable</i>	Enable searching for groups in all LDAP databases.									
<i>disable</i>	Disable searching for groups in all LDAP databases.									
user-database <name>	Authentication server to contain user information; "local" (default) or "123" (for LDAP). Authentication server name.	string	Maximum length: 79							
ssh-ca	SSH CA name.	string	Maximum length: 35							

config authentication setting

Configure authentication setting.

```
config authentication setting
    Description: Configure authentication setting.
    set active-auth-scheme {string}
    set sso-auth-scheme {string}
    set update-time {user}
    set persistent-cookie [enable|disable]
    set ip-auth-cookie [enable|disable]
    set cookie-max-age {integer}
    set cookie-refresh-div {integer}
    set captive-portal-type [fqdn|ip]
    set captive-portal-ip {ipv4-address-any}
    set captive-portal-ip6 {ipv6-address}
    set captive-portal {string}
    set captive-portal6 {string}
    set cert-auth [enable|disable]
    set cert-captive-portal {string}
    set cert-captive-portal-ip {ipv4-address-any}
    set cert-captive-portal-port {integer}
    set captive-portal-port {integer}
    set auth-https [enable|disable]
    set captive-portal-ssl-port {integer}
    set user-cert-ca <name1>, <name2>, ...
    set dev-range <name1>, <name2>, ...
    set log-auth-request [enable|disable]
end
```

config authentication setting

Parameter	Description	Type	Size	Default
active-auth-scheme	Active authentication method (scheme name).	string	Maximum length: 35	
sso-auth-scheme	Single-Sign-On authentication method (scheme name).	string	Maximum length: 35	
update-time	Time of the last update.	user	Not Specified	
persistent-cookie	Enable/disable persistent cookie on web portal authentication (default = enable).	option	-	enable
		Option	Description	
		<i>enable</i>	Enable persistent cookie.	
		<i>disable</i>	Disable persistent cookie.	

Parameter	Description	Type	Size	Default						
ip-auth-cookie	Enable/disable persistent cookie on IP based web portal authentication (default = disable).	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable persistent cookie for IP-based authentication.</td></tr><tr><td><i>disable</i></td><td>Disable persistent cookie for IP-based authentication.</td></tr></table>				Option	Description	<i>enable</i>	Enable persistent cookie for IP-based authentication.	<i>disable</i>	Disable persistent cookie for IP-based authentication.
	Option	Description								
	<i>enable</i>	Enable persistent cookie for IP-based authentication.								
<i>disable</i>	Disable persistent cookie for IP-based authentication.									
cookie-max-age	Persistent web portal cookie maximum age in minutes (30 - 10080 (1 week), default = 480 (8 hours)).	integer	Minimum value: 30 Maximum value: 10080	480						
cookie-refresh-div	Refresh rate divider of persistent web portal cookie (default = 2). Refresh value = cookie-max-age/cookie-refresh-div.	integer	Minimum value: 2 Maximum value: 4	2						
captive-portal-type	Captive portal type.	option	-	fqdn						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>fqdn</i></td><td>Use FQDN for captive portal.</td></tr><tr><td><i>ip</i></td><td>Use an IP address for captive portal.</td></tr></table>				Option	Description	<i>fqdn</i>	Use FQDN for captive portal.	<i>ip</i>	Use an IP address for captive portal.
	Option	Description								
	<i>fqdn</i>	Use FQDN for captive portal.								
<i>ip</i>	Use an IP address for captive portal.									
captive-portal-ip	Captive portal IP address.	ipv4-address-any	Not Specified	0.0.0.0						
captive-portal-ip6	Captive portal IPv6 address.	ipv6-address	Not Specified	::						
captive-portal	Captive portal host name.	string	Maximum length: 255							
captive-portal6	IPv6 captive portal host name.	string	Maximum length: 255							
cert-auth	Enable/disable redirecting certificate authentication to HTTPS portal.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>				Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.
	Option	Description								
	<i>enable</i>	Enable setting.								
<i>disable</i>	Disable setting.									
cert-captive-portal	Certificate captive portal host name.	string	Maximum length: 255							

Parameter	Description	Type	Size	Default
cert-captive-portal-ip	Certificate captive portal IP address.	ipv4-address-any	Not Specified	0.0.0.0
cert-captive-portal-port	Certificate captive portal port number (1 - 65535, default = 7832).	integer	Minimum value: 1 Maximum value: 65535	7832
captive-portal-port	Captive portal port number (1 - 65535, default = 7830).	integer	Minimum value: 1 Maximum value: 65535	7830
auth-https	Enable/disable redirecting HTTP user authentication to HTTPS.	option	-	enable
	Option		Description	
	<i>enable</i>		Enable setting.	
	<i>disable</i>		Disable setting.	
captive-portal-ssl-port	Captive portal SSL port number (1 - 65535, default = 7831).	integer	Minimum value: 1 Maximum value: 65535	7831
user-cert-ca <name>	CA certificate used for client certificate verification. CA certificate list.	string	Maximum length: 79	
dev-range <name>	Address range for the IP based device query. Address name.	string	Maximum length: 79	
log-auth-request	Enable/disable to log authentication request.	option	-	disable
	Option		Description	
	<i>enable</i>		Enable setting.	
	<i>disable</i>		Disable setting.	

automation

This section includes syntax for the following commands:

- [config automation setting on page 142](#)

config automation setting

Automation setting configuration.

```
config automation setting
    Description: Automation setting configuration.
    set max-concurrent-stitches {integer}
    set fabric-sync [enable|disable]
end
```

config automation setting

Parameter	Description	Type	Size	Default
max-concurrent-stitches	Maximum number of automation stitches that are allowed to run concurrently.	integer	Minimum value: 32 Maximum value: 1024	512
fabric-sync	Enable/disable synchronization of automation settings with security fabric.	option	-	enable
	Option	Description		
	enable	Synchronize automation setting with security fabric.		
	disable	Do not synchronize automation setting with security fabric.		

casb

This section includes syntax for the following commands:

- [config casb profile on page 143](#)
- [config casb saas-application on page 146](#)
- [config casb user-activity on page 147](#)

config casb profile

Configure CASB profile.

```
config casb profile
  Description: Configure CASB profile.
  edit <name>
    set comment {var-string}
    config saas-application
      Description: CASB profile SaaS application.
      edit <name>
        set status [enable|disable]
        set safe-search [enable|disable]
        set safe-search-control <name1>, <name2>, ...
        set tenant-control [enable|disable]
        set tenant-control-tenants <name1>, <name2>, ...
        set domain-control [enable|disable]
        set domain-control-domains <name1>, <name2>, ...
        set log [enable|disable]
        config access-rule
          Description: CASB profile access rule.
          edit <name>
            set action [monitor|bypass|...]
            set bypass {option1}, {option2}, ...
          next
        end
      end
    config custom-control
      Description: CASB profile custom control.
      edit <name>
        config option
          Description: CASB custom control option.
          edit <name>
            set user-input <value1>, <value2>, ...
          next
        end
      next
    end
  next
end
next
end
next
end
```

config casb profile

Parameter	Description	Type	Size	Default
name	CASB profile name.	string	Maximum length: 35	
comment	Comment.	var-string	Maximum length: 255	

config saas-application

Parameter	Description	Type	Size	Default
name	CASB profile SaaS application name.	string	Maximum length: 79	
status	Enable/disable setting.	option	-	enable
	Option	Description		
	enable	Enable setting.		
	disable	Disable setting.		
safe-search	Enable/disable safe search.	option	-	disable
	Option	Description		
	enable	Enable setting.		
	disable	Disable setting.		
safe-search-control <name>	CASB profile safe search control. Safe search control name.	string	Maximum length: 79	
tenant-control	Enable/disable tenant control.	option	-	disable
	Option	Description		
	enable	Enable setting.		
	disable	Disable setting.		
tenant-control-tenants <name>	CASB profile tenant control tenants. Tenant control tenants name.	string	Maximum length: 79	
domain-control	Enable/disable domain control.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
domain-control-domains <name>	CASB profile domain control domains. Domain control domain name.	string	Maximum length: 79	
log	Enable/disable log settings.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable log setting.		
	<i>disable</i>	Disable log setting.		

config access-rule

Parameter	Description	Type	Size	Default
name	CASB access rule activity name.	string	Maximum length: 79	
action	CASB access rule action.	option	-	monitor
	Option	Description		
	<i>monitor</i>	Log when log is enabled.		
	<i>bypass</i>	Apply bypass options.		
	<i>block</i>	Block the request.		
bypass	CASB bypass options.	option	-	
	Option	Description		
	<i>av</i>	Exempt from AV scanning.		
	<i>dlp</i>	Exempt from data loss prevention (DLP).		
	<i>web-filter</i>	Exempt from web filter.		
	<i>file-filter</i>	Exempt from file filter.		
	<i>video-filter</i>	Exempt from video filter.		

config custom-control

Parameter	Description	Type	Size	Default
name	CASB custom control user activity name.	string	Maximum length: 79	

config option

Parameter	Description	Type	Size	Default
name	CASB custom control option name.	string	Maximum length: 79	
user-input <value>	CASB custom control user input. user input value.	string	Maximum length: 79	

config casb saas-application

Configure CASB SaaS application.

```
config casb saas-application
  Description: Configure CASB SaaS application.
  edit <name>
    set uuid {string}
    set status [enable|disable]
    set type [built-in|customized]
    set casb-name {string}
    set description {string}
    set domains <domain1>, <domain2>, ...
  next
end
```

config casb saas-application

Parameter	Description	Type	Size	Default
name	SaaS application name.	string	Maximum length: 79	
uuid	Universally Unique Identifier (UUID; automatically assigned but can be manually reset).	string	Maximum length: 36	
status	Enable/disable setting.	option	-	enable
		Option	Description	
		enable	Enable setting.	
		disable	Disable setting.	

Parameter	Description	Type	Size	Default
type	SaaS application type.	option	-	customized
	Option	Description		
	<i>built-in</i>	Built-in SaaS application.		
	<i>customized</i>	User customized SaaS application.		
casb-name	SaaS application signature name.	string	Maximum length: 79	
description	SaaS application description.	string	Maximum length: 63	
domains	SaaS application domain list.	string	Maximum length: 127	
<domain>	Domain list separated by space.			

config casb user-activity

Configure CASB user activity.

```

config casb user-activity
  Description: Configure CASB user activity.
  edit <name>
    set uuid {string}
    set status [enable|disable]
    set description {string}
    set type [built-in|customized]
    set casb-name {string}
    set application {string}
    set category [activity-control|tenant-control|...]
    set match-strategy [and|or]
    config match
      Description: CASB user activity match rules.
      edit <id>
        set strategy [and|or]
        config rules
          Description: CASB user activity rules.
          edit <id>
            set type [domains|host|...]
            set domains <domain1>, <domain2>, ...
            set methods <method1>, <method2>, ...
            set match-pattern [simple|substr|...]
            set match-value {string}
            set header-name {string}
            set case-sensitive [enable|disable]
            set negate [enable|disable]
          next
        end
      next
    end
  next
end
config control-options

```

```

Description: CASB control options.
edit <name>
    set status [enable|disable]
    config operations
        Description: CASB control option operations.
        edit <name>
            set target [header|path]
            set action [append|prepend|...]
            set direction {option}
            set header-name {string}
            set search-pattern [simple|substr|...]
            set search-key {string}
            set case-sensitive [enable|disable]
            set value-from-input [enable|disable]
            set values <value1>, <value2>, ...
        next
    end
next
end
next
end
next
end

```

config casb user-activity

Parameter	Description	Type	Size	Default						
name	CASB user activity name.	string	Maximum length: 79							
uuid	Universally Unique Identifier (UUID; automatically assigned but can be manually reset).	string	Maximum length: 36							
status	CASB user activity status.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>				Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									
description	CASB user activity description.	string	Maximum length: 63							
type	CASB user activity type.	option	-	customized						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>built-in</i></td><td>Built-in CASB user-activity.</td></tr><tr><td><i>customized</i></td><td>User customized CASB user-activity.</td></tr></table>				Option	Description	<i>built-in</i>	Built-in CASB user-activity.	<i>customized</i>	User customized CASB user-activity.
Option	Description									
<i>built-in</i>	Built-in CASB user-activity.									
<i>customized</i>	User customized CASB user-activity.									
casb-name	CASB user activity signature name.	string	Maximum length: 79							

Parameter	Description	Type	Size	Default												
application	CASB SaaS application name.	string	Maximum length: 79													
category	CASB user activity category.	option	-	activity-control												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>activity-control</i></td><td>Activity control.</td></tr><tr><td><i>tenant-control</i></td><td>Tenant control.</td></tr><tr><td><i>domain-control</i></td><td>Domain control.</td></tr><tr><td><i>safe-search-control</i></td><td>Safe search control.</td></tr><tr><td><i>other</i></td><td>User customized category.</td></tr></table>				Option	Description	<i>activity-control</i>	Activity control.	<i>tenant-control</i>	Tenant control.	<i>domain-control</i>	Domain control.	<i>safe-search-control</i>	Safe search control.	<i>other</i>	User customized category.
	Option	Description														
	<i>activity-control</i>	Activity control.														
	<i>tenant-control</i>	Tenant control.														
	<i>domain-control</i>	Domain control.														
	<i>safe-search-control</i>	Safe search control.														
<i>other</i>	User customized category.															
match-strategy	CASB user activity match strategy.	option	-	or												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>and</i></td><td>Match user activity using a logical AND operator.</td></tr><tr><td><i>or</i></td><td>Match user activity using a logical OR operator.</td></tr></table>				Option	Description	<i>and</i>	Match user activity using a logical AND operator.	<i>or</i>	Match user activity using a logical OR operator.						
	Option	Description														
	<i>and</i>	Match user activity using a logical AND operator.														
<i>or</i>	Match user activity using a logical OR operator.															

config match

Parameter	Description	Type	Size	Default						
id	CASB user activity match rules ID.	integer	Minimum value: 0 Maximum value: 4294967295	0						
strategy	CASB user activity rules strategy.	option	-	and						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>and</td><td>Match user activity using a logical AND operator.</td></tr><tr><td>or</td><td>Match user activity using a logical OR operator.</td></tr></table>				Option	Description	and	Match user activity using a logical AND operator.	or	Match user activity using a logical OR operator.
Option	Description									
and	Match user activity using a logical AND operator.									
or	Match user activity using a logical OR operator.									

config rules

Parameter	Description	Type	Size	Default														
id	CASB user activity rule ID.	integer	Minimum value: 0 Maximum value: 4294967295	0														
type	CASB user activity rule type.	option	-	host														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>domains</i></td><td>Domains.</td></tr><tr><td><i>host</i></td><td>Host.</td></tr><tr><td><i>path</i></td><td>Path.</td></tr><tr><td><i>header</i></td><td>HTTP header.</td></tr><tr><td><i>header-value</i></td><td>HTTP header and value.</td></tr><tr><td><i>method</i></td><td>HTTP method.</td></tr></table>	Option	Description	<i>domains</i>	Domains.	<i>host</i>	Host.	<i>path</i>	Path.	<i>header</i>	HTTP header.	<i>header-value</i>	HTTP header and value.	<i>method</i>	HTTP method.			
	Option	Description																
	<i>domains</i>	Domains.																
	<i>host</i>	Host.																
	<i>path</i>	Path.																
	<i>header</i>	HTTP header.																
	<i>header-value</i>	HTTP header and value.																
<i>method</i>	HTTP method.																	
domains <domain>	CASB user activity domain list. Domain list separated by space.	string	Maximum length: 127															
methods <method>	CASB user activity method list. User activity method.	string	Maximum length: 79															
match-pattern	CASB user activity rule match pattern.	option	-	simple														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>simple</i></td><td>Exact string match pattern.</td></tr><tr><td><i>substr</i></td><td>Sub-string pattern.</td></tr><tr><td><i>regex</i></td><td>Regular expression pattern.</td></tr></table>	Option	Description	<i>simple</i>	Exact string match pattern.	<i>substr</i>	Sub-string pattern.	<i>regex</i>	Regular expression pattern.									
	Option	Description																
	<i>simple</i>	Exact string match pattern.																
	<i>substr</i>	Sub-string pattern.																
<i>regex</i>	Regular expression pattern.																	
match-value	CASB user activity rule match value.	string	Maximum length: 1023															
header-name	CASB user activity rule header name.	string	Maximum length: 255															
case-sensitive	CASB user activity match case sensitive.	option	-	disable														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable value case sensitive match.</td></tr><tr><td><i>disable</i></td><td>Disable value case sensitive match.</td></tr></table>	Option	Description	<i>enable</i>	Enable value case sensitive match.	<i>disable</i>	Disable value case sensitive match.											
	Option	Description																
	<i>enable</i>	Enable value case sensitive match.																
<i>disable</i>	Disable value case sensitive match.																	

Parameter	Description	Type	Size	Default
negate	Enable/disable what the matching strategy must not be.	option	-	disable
	Option	Description		
	<i>enable</i>	Matching strategy is negated.		
	<i>disable</i>	Matching strategy is not negated.		

config control-options

Parameter	Description	Type	Size	Default
name	CASB control option name.	string	Maximum length: 79	
status	CASB control option status.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		

config operations

Parameter	Description	Type	Size	Default
name	CASB control option operation name.	string	Maximum length: 79	
target	CASB operation target.	option	-	header
	Option	Description		
	<i>header</i>	Header.		
	<i>path</i>	Path.		
action	CASB operation action.	option	-	append
	Option	Description		
	<i>append</i>	Append the values after the target.		
	<i>prepend</i>	Prepend the values before the target.		
	<i>replace</i>	Replace the target by the value.		
	<i>new</i>	Create a new header regardless if existing header is found or not.		

Parameter	Description	Type	Size	Default								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>new-on-not-found</i></td><td>Create new header only if existing HTTP header is not found.</td></tr><tr><td><i>delete</i></td><td>Delete the target.</td></tr></table>	Option	Description	<i>new-on-not-found</i>	Create new header only if existing HTTP header is not found.	<i>delete</i>	Delete the target.					
	Option	Description										
	<i>new-on-not-found</i>	Create new header only if existing HTTP header is not found.										
<i>delete</i>	Delete the target.											
direction	CASB operation direction.	option	-	request								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>request</i></td><td>Request.</td></tr></table>	Option	Description	<i>request</i>	Request.							
	Option	Description										
	<i>request</i>	Request.										
header-name	CASB operation header name to search.	string	Maximum length: 255									
search-pattern	CASB operation search pattern.	option	-	simple								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>simple</i></td><td>Exact string match pattern.</td></tr><tr><td><i>substr</i></td><td>Sub-string pattern.</td></tr><tr><td><i>regex</i></td><td>Regular expression pattern.</td></tr></table>	Option	Description	<i>simple</i>	Exact string match pattern.	<i>substr</i>	Sub-string pattern.	<i>regex</i>	Regular expression pattern.			
	Option	Description										
	<i>simple</i>	Exact string match pattern.										
	<i>substr</i>	Sub-string pattern.										
<i>regex</i>	Regular expression pattern.											
search-key	CASB operation key to search.	string	Maximum length: 1023									
case-sensitive	CASB operation search case sensitive.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable case sensitive search.</td></tr><tr><td><i>disable</i></td><td>Disable case sensitive search.</td></tr></table>	Option	Description	<i>enable</i>	Enable case sensitive search.	<i>disable</i>	Disable case sensitive search.					
	Option	Description										
	<i>enable</i>	Enable case sensitive search.										
<i>disable</i>	Disable case sensitive search.											
value-from-input	Enable/disable value from user input.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable value from input.</td></tr><tr><td><i>disable</i></td><td>Disable value from input.</td></tr></table>	Option	Description	<i>enable</i>	Enable value from input.	<i>disable</i>	Disable value from input.					
	Option	Description										
	<i>enable</i>	Enable value from input.										
<i>disable</i>	Disable value from input.											
values <value>	CASB operation new values. Operation value.	string	Maximum length: 79									

certificate

This section includes syntax for the following commands:

- [config certificate ca on page 153](#)
- [config certificate crl on page 155](#)
- [config certificate hsm-local on page 156](#)
- [config certificate local on page 160](#)
- [config certificate remote on page 165](#)

config certificate ca

CA certificate.

```
config certificate ca
  Description: CA certificate.
  edit <name>
    set ca {user}
    set range [global|vdom]
    set source [factory|user|...]
    set ssl-inspection-trusted [enable|disable]
    set scep-url {string}
    set est-url {string}
    set auto-update-days {integer}
    set auto-update-days-warning {integer}
    set source-ip {ipv4-address}
    set ca-identifier {string}
    set obsolete [disable|enable]
    set fabric-ca [disable|enable]
  next
end
```

config certificate ca

Parameter	Description	Type	Size	Default
name	Name.	string	Maximum length: 79	
ca	CA certificate as a PEM file.	user	Not Specified	
range	Either global or VDOM IP address range for the CA certificate.	option	-	global

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>global</i>	Global range.		
	<i>vdom</i>	VDOM IP address range.		
source	CA certificate source type.	option	-	user
	Option	Description		
	<i>factory</i>	Factory installed certificate.		
	<i>user</i>	User generated certificate.		
	<i>bundle</i>	Bundle file certificate.		
ssl-inspection-trusted	Enable/disable this CA as a trusted CA for SSL inspection.	option	-	enable
	Option	Description		
	<i>enable</i>	Trusted CA for SSL inspection.		
	<i>disable</i>	Untrusted CA for SSL inspection.		
scep-url	URL of the SCEP server.	string	Maximum length: 255	
est-url	URL of the EST server.	string	Maximum length: 255	
auto-update-days	Number of days to wait before requesting an updated CA certificate (0 - 4294967295, 0 = disabled).	integer	Minimum value: 0 Maximum value: 4294967295	0
auto-update-days-warning	Number of days before an expiry-warning message is generated (0 - 4294967295, 0 = disabled).	integer	Minimum value: 0 Maximum value: 4294967295	0
source-ip	Source IP address for communications to the SCEP server.	ipv4-address	Not Specified	0.0.0.0
ca-identifier	CA identifier of the SCEP server.	string	Maximum length: 255	
obsolete	Enable/disable this CA as obsoleted.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Alive.		
	<i>enable</i>	Obsolete.		
fabric-ca	Enable/disable synchronization of CA across Security Fabric.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable synchronization of CA across Security Fabric.		
	<i>enable</i>	Enable synchronization of CA across Security Fabric.		

config certificate crl

Certificate Revocation List as a PEM file.

```
config certificate crl
    Description: Certificate Revocation List as a PEM file.
    edit <name>
        set crl {user}
        set range [global|vdom]
        set source [factory|user|...]
        set update-vdom {string}
        set ldap-server {string}
        set ldap-username {string}
        set ldap-password {password}
        set http-url {string}
        set scep-url {string}
        set scep-cert {string}
        set update-interval {integer}
        set source-ip {ipv4-address}
    next
end
```

config certificate crl

Parameter	Description	Type	Size	Default
name	Name.	string	Maximum length: 35	
crl	Certificate Revocation List as a PEM file.	user	Not Specified	
range	Either global or VDOM IP address range for the certificate.	option	-	global

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>global</i>	Global range.		
	<i>vdom</i>	VDOM IP address range.		
source	Certificate source type.	option	-	user
	Option	Description		
	<i>factory</i>	Factory installed certificate.		
	<i>user</i>	User generated certificate.		
	<i>bundle</i>	Bundle file certificate.		
update-vdom	VDOM for CRL update.	string	Maximum length: 31	root
ldap-server	LDAP server name for CRL auto-update.	string	Maximum length: 35	
ldap-username	LDAP server user name.	string	Maximum length: 63	
ldap-password	LDAP server user password.	password	Not Specified	
http-url	HTTP server URL for CRL auto-update.	string	Maximum length: 255	
scep-url	SCEP server URL for CRL auto-update.	string	Maximum length: 255	
scep-cert	Local certificate for SCEP communication for CRL auto-update.	string	Maximum length: 35	Fortinet_CA_SSL
update-interval	Time in seconds before the FortiProxy checks for an updated CRL. Set to 0 to update only when it expires.	integer	Minimum value: 0 Maximum value: 4294967295	0
source-ip	Source IP address for communications to a HTTP or SCEP CA server.	ipv4-address	Not Specified	0.0.0.0

config certificate hsm-local

Local certificates whose keys are stored on HSM.

```
config certificate hsm-local
    Description: Local certificates whose keys are stored on HSM.
    edit <name>
```



```

set comments {string}
set vendor [unknown|gch]
set api-version [unknown|gch-default]
set certificate {user}
set range [global|vdom]
set source [factory|user|...]
set gch-url {string}
set gch-project {string}
set gch-location {string}
set gch-keyring {string}
set gch-cryptokey {string}
set gch-cryptokey-version {string}
set gch-cloud-service-name {string}
set gch-cryptokey-algorithm [2048-RSA-PKCS1v1.5-SHA256|3072-RSA-PKCS1v1.5-
SHA256|...]
next
end

```

config certificate hsm-local

Parameter	Description	Type	Size	Default						
name	Name.	string	Maximum length: 35							
comments	Comment.	string	Maximum length: 511							
vendor	HSM vendor.	option	-	unknown						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>unknown</i></td><td>Unknown type of HSM.</td></tr><tr><td><i>gch</i></td><td>Google Cloud HSM.</td></tr></table>				Option	Description	<i>unknown</i>	Unknown type of HSM.	<i>gch</i>	Google Cloud HSM.
Option	Description									
<i>unknown</i>	Unknown type of HSM.									
<i>gch</i>	Google Cloud HSM.									
api-version	API version for communicating with HSM.	option	-	unknown						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>unknown</i></td><td>Unknown API version.</td></tr><tr><td><i>gch-default</i></td><td>Google Cloud HSM default API.</td></tr></table>				Option	Description	<i>unknown</i>	Unknown API version.	<i>gch-default</i>	Google Cloud HSM default API.
Option	Description									
<i>unknown</i>	Unknown API version.									
<i>gch-default</i>	Google Cloud HSM default API.									

Parameter	Description	Type	Size	Default								
certificate	PEM format certificate.	user	Not Specified									
range	Either a global or VDOM IP address range for the certificate.	option	-	global								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>global</td><td>Global range.</td></tr><tr><td>vdom</td><td>VDOM IP address range.</td></tr></table>				Option	Description	global	Global range.	vdom	VDOM IP address range.		
Option	Description											
global	Global range.											
vdom	VDOM IP address range.											
source	Certificate source type.	option	-	user								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>factory</td><td>Factory installed certificate.</td></tr><tr><td>user</td><td>User generated certificate.</td></tr><tr><td>bundle</td><td>Bundle file certificate.</td></tr></table>				Option	Description	factory	Factory installed certificate.	user	User generated certificate.	bundle	Bundle file certificate.
Option	Description											
factory	Factory installed certificate.											
user	User generated certificate.											
bundle	Bundle file certificate.											
gch-url	Google Cloud HSM key URL (e.g. "https://cloudkms.googleapis.com/v1/projects/sampleproject/locations/samplelocation/keyRings/samplekeyring/cryptoKeys/sampleKeyName/cryptoKeyVersions/1").	string	Maximum length: 1024									
gch-project	Google Cloud HSM project ID.	string	Maximum length: 31									
gch-location	Google Cloud HSM location.	string	Maximum length: 63									
gch-keyring	Google Cloud HSM keyring.	string	Maximum length: 63									

Parameter	Description	Type	Size	Default
gch-cryptokey	Google Cloud HSM cryptokey.	string	Maximum length: 63	
gch-cryptokey-version	Google Cloud HSM cryptokey version.	string	Maximum length: 31	
gch-cloud-service-name	Cloud service config name to generate access token.	string	Maximum length: 35	
gch-cryptokey-algorithm	Google Cloud HSM cryptokey algorithm.	option	-	2048-RSA-PKCS1v1.5-SHA256

Option	Description
<i>2048-RSA-PKCS1v1.5-SHA256</i>	2048 bit RSA - PKCS#1 v1.5 padding - SHA256 Digest
<i>3072-RSA-PKCS1v1.5-SHA256</i>	3072 bit RSA - PKCS#1 v1.5 padding - SHA256 Digest
<i>4096-RSA-PKCS1v1.5-SHA256</i>	4096 bit RSA - PKCS#1 v1.5 padding - SHA256 Digest
<i>4096-RSA-PKCS1v1.5-SHA512</i>	4096 bit RSA - PKCS#1 v1.5 padding - SHA512 Digest
<i>EC_P256_SHA256</i>	Elliptic Curve P-256 - SHA256 Digest
<i>EC_P384_SHA384</i>	Elliptic Curve P-384 - SHA384 Digest

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>EC_secp256k1_SHA256</i>	Elliptic Curvesecp256k1 - SHA256 Digest		

config certificate local

Local keys and certificates.

```
config certificate local
  Description: Local keys and certificates.
  edit <name>
    set type [normal|hsm]
    set nethsm-slot {string}
    set password {password}
    set comments {string}
    set private-key {user}
    set certificate {user}
    set csr {user}
    set state {user}
    set scep-url {string}
    set range [global|vdom]
    set source [factory|user|...]
    set auto-regenerate-days {integer}
    set auto-regenerate-days-warning {integer}
    set scep-password {password}
    set ca-identifier {string}
    set name-encoding [printable|utf8]
    set source-ip {ipv4-address}
    set ike-localid {string}
    set ike-localid-type [asn1dn|fqdn]
    set enroll-protocol [none|scep|...]
    set private-key-retain [enable|disable]
    set cmp-server {string}
    set cmp-path {string}
    set cmp-server-cert {string}
    set cmp-regeneration-method [keyupdate|renewal]
    set acme-ca-url {string}
    set acme-domain {string}
    set acme-email {string}
    set acme-rsa-key-size {integer}
    set acme-renew-window {integer}
    set est-server {string}
    set est-ca-id {string}
    set est-http-username {string}
    set est-http-password {string}
    set est-client-cert {string}
    set est-server-cert {string}
    set est-srp-username {string}
```

```

        set est-srp-password {string}
        set est-regeneration-method [create-new-key|use-existing-key]
    next
end

```

config certificate local

Parameter	Description	Type	Size	Default
name	Name.	string	Maximum length: 35	
type	Type.	option	-	normal
	Option		Description	
	<i>normal</i>		Normal	
	<i>hsm</i>		HSM	
nethsm-slot	Network HSM slot name.	string	Maximum length: 35	
password	Password as a PEM file.	password	Not Specified	
comments	Comment.	string	Maximum length: 511	
private-key	PEM format key encrypted with a password.	user	Not Specified	
certificate	PEM format certificate.	user	Not Specified	
csr	Certificate Signing Request.	user	Not Specified	
state	Certificate Signing Request State.	user	Not Specified	
scep-url	SCEP server URL.	string	Maximum length: 255	
range	Either a global or VDOM IP address range for the certificate.	option	-	global
	Option		Description	
	<i>global</i>		Global range.	
	<i>vdom</i>		VDOM IP address range.	
source	Certificate source type.	option	-	user

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>factory</i>	Factory installed certificate.		
	<i>user</i>	User generated certificate.		
	<i>bundle</i>	Bundle file certificate.		
auto-regenerate-days	Number of days to wait before expiry of an updated local certificate is requested (0 = disabled).	integer	Minimum value: 0 Maximum value: 4294967295	0
auto-regenerate-days-warning	Number of days to wait before an expiry warning message is generated (0 = disabled).	integer	Minimum value: 0 Maximum value: 4294967295	0
scep-password	SCEP server challenge password for auto-regeneration.	password	Not Specified	
ca-identifier	CA identifier of the CA server for signing via SCEP.	string	Maximum length: 255	
name-encoding	Name encoding method for auto-regeneration.	option	-	printable
	Option	Description		
	<i>printable</i>	Printable encoding (default).		
	<i>utf8</i>	UTF-8 encoding.		
source-ip	Source IP address for communications to the SCEP server.	ipv4-address	Not Specified	0.0.0.0
ike-localid	Local ID the FortiProxy uses for authentication as a VPN client.	string	Maximum length: 63	
ike-localid-type	IKE local ID type.	option	-	asn1dn
	Option	Description		
	<i>asn1dn</i>	ASN.1 distinguished name.		
	<i>fqdn</i>	Fully qualified domain name.		

Parameter	Description	Type	Size	Default
enroll-protocol	Certificate enrollment protocol.	option	-	none
	Option Description			
	<i>none</i>	None (default).		
	<i>scep</i>	Simple Certificate Enrollment Protocol.		
	<i>cmpv2</i>	Certificate Management Protocol Version 2.		
	<i>acme2</i>	Automated Certificate Management Environment Version 2.		
	<i>est</i>	Enrollment over Secure Transport.		
private-key-retain	Enable/disable retention of private key during SCEP renewal (default = disable).	option	-	disable
	Option Description			
	<i>enable</i>	Keep the existing private key during SCEP renewal.		
	<i>disable</i>	Generate a new private key during SCEP renewal.		
cmp-server	Address and port for CMP server (format = address:port).	string	Maximum length: 63	
cmp-path	Path location inside CMP server.	string	Maximum length: 255	
cmp-server-cert	CMP server certificate.	string	Maximum length: 79	
cmp-regeneration-method	CMP auto-regeneration method.	option	-	keyupate
	Option Description			
	<i>keyupate</i>	Key Update.		
	<i>renewal</i>	Renewal.		
acme-ca-url	The URL for the ACME CA server (Let's Encrypt is the default provider).	string	Maximum length: 255	https://acme-v02.api.letsencrypt.org/directory
acme-domain	A valid domain that resolves to this FortiProxy unit.	string	Maximum length: 255	

Parameter	Description	Type	Size	Default						
acme-email	Contact email address that is required by some CAs like LetsEncrypt.	string	Maximum length: 255							
acme-rsa-key-size	Length of the RSA private key of the generated cert (Minimum 2048 bits).	integer	Minimum value: 2048 Maximum value: 4096	2048						
acme-renew-window	Beginning of the renewal window (in days before certificate expiration, 30 by default).	integer	Minimum value: 1 Maximum value: 100	30						
est-server	Address and port for EST server (e.g. https://example.com:1234).	string	Maximum length: 255							
est-ca-id	CA identifier of the CA server for signing via EST.	string	Maximum length: 255							
est-http-username	HTTP Authentication username for signing via EST.	string	Maximum length: 63							
est-http-password	HTTP Authentication password for signing via EST.	string	Maximum length: 63							
est-client-cert	Certificate used to authenticate this FortiGate to EST server.	string	Maximum length: 79							
est-server-cert	EST server's certificate must be verifiable by this certificate to be authenticated.	string	Maximum length: 79							
est-srp-username	EST SRP authentication username.	string	Maximum length: 63							
est-srp-password	EST SRP authentication password.	string	Maximum length: 63							
est-regeneration-method	EST behavioral options during re-enrollment.	option	-	create-new-key						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>create-new-key</td><td>Create new private key during re-enrollment.</td></tr><tr><td>use-existing-key</td><td>Reuse existing private key during re-enrollment.</td></tr></table>				Option	Description	create-new-key	Create new private key during re-enrollment.	use-existing-key	Reuse existing private key during re-enrollment.
Option	Description									
create-new-key	Create new private key during re-enrollment.									
use-existing-key	Reuse existing private key during re-enrollment.									

config certificate remote

Remote certificate as a PEM file.

```
config certificate remote
  Description: Remote certificate as a PEM file.
  edit <name>
    set remote {user}
    set range [global|vdom]
    set source [factory|user|...]
  next
end
```

config certificate remote

Parameter	Description	Type	Size	Default
name	Name.	string	Maximum length: 35	
remote	Remote certificate.	user	Not Specified	
range	Either the global or VDOM IP address range for the remote certificate.	option	-	global
		Option	Description	
		<i>global</i>	Global range.	
		<i>vdom</i>	VDOM IP address range.	
source	Remote certificate source type.	option	-	user
		Option	Description	
		<i>factory</i>	Factory installed certificate.	
		<i>user</i>	User generated certificate.	
		<i>bundle</i>	Bundle file certificate.	

diameter-filter

This section includes syntax for the following commands:

- [config diameter-filter profile on page 166](#)

config diameter-filter profile

Configure Diameter filter profiles.

```
config diameter-filter profile
    Description: Configure Diameter filter profiles.
    edit <name>
        set comment {var-string}
        set monitor-all-messages [disable|enable]
        set log-packet [disable|enable]
        set track-requests-answers [disable|enable]
        set missing-request-action [allow|block|...]
        set protocol-version-invalid [allow|block|...]
        set message-length-invalid [allow|block|...]
        set request-error-flag-set [allow|block|...]
        set cmd-flags-reserve-set [allow|block|...]
        set command-code-invalid [allow|block|...]
        set command-code-range {user}
    next
end
```

config diameter-filter profile

Parameter	Description	Type	Size	Default
name	Profile name.	string	Maximum length: 35	
comment	Comment.	var-string	Maximum length: 255	
monitor-all-messages	Enable/disable logging for all User Name and Result Code AVP messages.	option	-	disable
		Option	Description	
		disable	Disable.	
		enable	Enable.	
log-packet	Enable/disable packet log for triggered diameter settings.	option	-	disable

Parameter	Description	Type	Size	Default										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable.</td></tr><tr><td><i>enable</i></td><td>Enable.</td></tr></table>	Option	Description	<i>disable</i>	Disable.	<i>enable</i>	Enable.							
	Option	Description												
	<i>disable</i>	Disable.												
<i>enable</i>	Enable.													
track-requests-answers	Enable/disable validation that each answer has a corresponding request.	option	-	enable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable.</td></tr><tr><td><i>enable</i></td><td>Enable.</td></tr></table>	Option	Description	<i>disable</i>	Disable.	<i>enable</i>	Enable.							
	Option	Description												
	<i>disable</i>	Disable.												
<i>enable</i>	Enable.													
missing-request-action	Action to be taken for answers without corresponding request.	option	-	block										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>allow</i></td><td>Allow or pass matching traffic.</td></tr><tr><td><i>block</i></td><td>Block or drop matching traffic.</td></tr><tr><td><i>reset</i></td><td>Reset sessions for matching traffic.</td></tr><tr><td><i>monitor</i></td><td>Allow and log matching traffic.</td></tr></table>	Option	Description	<i>allow</i>	Allow or pass matching traffic.	<i>block</i>	Block or drop matching traffic.	<i>reset</i>	Reset sessions for matching traffic.	<i>monitor</i>	Allow and log matching traffic.			
	Option	Description												
	<i>allow</i>	Allow or pass matching traffic.												
	<i>block</i>	Block or drop matching traffic.												
	<i>reset</i>	Reset sessions for matching traffic.												
<i>monitor</i>	Allow and log matching traffic.													
protocol-version-invalid	Action to be taken for invalid protocol version.	option	-	block										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>allow</i></td><td>Allow or pass matching traffic.</td></tr><tr><td><i>block</i></td><td>Block or drop matching traffic.</td></tr><tr><td><i>reset</i></td><td>Reset sessions for matching traffic.</td></tr><tr><td><i>monitor</i></td><td>Allow and log matching traffic.</td></tr></table>	Option	Description	<i>allow</i>	Allow or pass matching traffic.	<i>block</i>	Block or drop matching traffic.	<i>reset</i>	Reset sessions for matching traffic.	<i>monitor</i>	Allow and log matching traffic.			
	Option	Description												
	<i>allow</i>	Allow or pass matching traffic.												
	<i>block</i>	Block or drop matching traffic.												
	<i>reset</i>	Reset sessions for matching traffic.												
<i>monitor</i>	Allow and log matching traffic.													
message-length-invalid	Action to be taken for invalid message length.	option	-	block										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>allow</i></td><td>Allow or pass matching traffic.</td></tr><tr><td><i>block</i></td><td>Block or drop matching traffic.</td></tr><tr><td><i>reset</i></td><td>Reset sessions for matching traffic.</td></tr></table>	Option	Description	<i>allow</i>	Allow or pass matching traffic.	<i>block</i>	Block or drop matching traffic.	<i>reset</i>	Reset sessions for matching traffic.					
	Option	Description												
	<i>allow</i>	Allow or pass matching traffic.												
	<i>block</i>	Block or drop matching traffic.												
<i>reset</i>	Reset sessions for matching traffic.													

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>monitor</i>	Allow and log matching traffic.		
request-error-flag-set	Action to be taken for request messages with error flag set.	option	-	block
	Option	Description		
	<i>allow</i>	Allow or pass matching traffic.		
	<i>block</i>	Block or drop matching traffic.		
	<i>reset</i>	Reset sessions for matching traffic.		
	<i>monitor</i>	Allow and log matching traffic.		
cmd-flags-reserve-set	Action to be taken for messages with cmd flag reserve bits set.	option	-	block
	Option	Description		
	<i>allow</i>	Allow or pass matching traffic.		
	<i>block</i>	Block or drop matching traffic.		
	<i>reset</i>	Reset sessions for matching traffic.		
	<i>monitor</i>	Allow and log matching traffic.		
command-code-invalid	Action to be taken for messages with invalid command code.	option	-	block
	Option	Description		
	<i>allow</i>	Allow or pass matching traffic.		
	<i>block</i>	Block or drop matching traffic.		
	<i>reset</i>	Reset sessions for matching traffic.		
	<i>monitor</i>	Allow and log matching traffic.		
command-code-range	Valid range for command codes (0-16777215).	user	Not Specified	

dlp

This section includes syntax for the following commands:

- [config dlp data-type on page 169](#)
- [config dlp dictionary on page 170](#)
- [config dlp exact-data-match on page 172](#)
- [config dlp filepattern on page 173](#)
- [config dlp fp-doc-source on page 177](#)
- [config dlp profile on page 180](#)
- [config dlp sensitivity on page 185](#)
- [config dlp sensor on page 185](#)
- [config dlp settings on page 186](#)

config dlp data-type

Configure predefined data type used by DLP blocking.

```
config dlp data-type
    Description: Configure predefined data type used by DLP blocking.
    edit <name>
        set pattern {string}
        set verify {string}
        set verify2 {string}
        set match-around {string}
        set look-back {integer}
        set look-ahead {integer}
        set match-back {integer}
        set match-ahead {integer}
        set transform {string}
        set verify-transformed-pattern [enable|disable]
        set comment {var-string}
    next
end
```

config dlp data-type

Parameter	Description	Type	Size	Default
name	Name of table containing the data type.	string	Maximum length: 35	
pattern	Regular expression pattern string without look around.	string	Maximum length: 255	

Parameter	Description	Type	Size	Default						
verify	Regular expression pattern string used to verify the data type.	string	Maximum length: 255							
verify2	Extra regular expression pattern string used to verify the data type.	string	Maximum length: 255							
match-around	Dictionary to check whether it has a match around (Only support match-any and basic types, no repeat supported).	string	Maximum length: 35							
look-back	Number of characters required to save for verification (1 - 255, default = 1).	integer	Minimum value: 1 Maximum value: 255	1						
look-ahead	Number of characters to obtain in advance for verification (1 - 255, default = 1).	integer	Minimum value: 1 Maximum value: 255	1						
match-back	Number of characters in front for match-around (1 - 4096, default = 1).	integer	Minimum value: 1 Maximum value: 4096	1						
match-ahead	Number of characters behind for match-around (1 - 4096, default = 1).	integer	Minimum value: 1 Maximum value: 4096	1						
transform	Template to transform user input to a pattern using capture group from 'pattern'.	string	Maximum length: 255							
verify-transformed-pattern	Enable/disable verification for transformed pattern.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable verification for transformed pattern.</td></tr><tr><td><i>disable</i></td><td>Disable verification for transformed pattern.</td></tr></table>				Option	Description	<i>enable</i>	Enable verification for transformed pattern.	<i>disable</i>	Disable verification for transformed pattern.
Option	Description									
<i>enable</i>	Enable verification for transformed pattern.									
<i>disable</i>	Disable verification for transformed pattern.									
comment	Optional comments.	var-string	Maximum length: 255							

config dlp dictionary

Configure dictionaries used by DLP blocking.

```
config dlp dictionary
    Description: Configure dictionaries used by DLP blocking.
```

```

edit <name>
  set uuid {uuid}
  set match-type [match-all|match-any]
  set match-around [enable|disable]
  set comment {var-string}
  config entries
    Description: DLP dictionary entries.
    edit <id>
      set type {string}
      set pattern {string}
      set ignore-case [enable|disable]
      set repeat [enable|disable]
      set status [enable|disable]
      set comment {var-string}
    next
  end
next
end

```

config dlp dictionary

Parameter	Description	Type	Size	Default						
uuid	Universally Unique Identifier (UUID; automatically assigned but can be manually reset).	uuid	Not Specified	00000000-0000-0000-0000-000000000000						
name	Name of table containing the dictionary.	string	Maximum length: 35							
match-type	Logical relation between entries (default = match-any).	option	-	match-any						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>match-all</i></td><td>Match all entries.</td></tr><tr><td><i>match-any</i></td><td>Match any entries.</td></tr></table>				Option	Description	<i>match-all</i>	Match all entries.	<i>match-any</i>	Match any entries.
Option	Description									
<i>match-all</i>	Match all entries.									
<i>match-any</i>	Match any entries.									
match-around	Enable/disable match-around support.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable match-around support.</td></tr><tr><td><i>disable</i></td><td>Disable match-around support.</td></tr></table>				Option	Description	<i>enable</i>	Enable match-around support.	<i>disable</i>	Disable match-around support.
Option	Description									
<i>enable</i>	Enable match-around support.									
<i>disable</i>	Disable match-around support.									
comment	Optional comments.	var-string	Maximum length: 255							

config entries

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
type	Pattern type to match.	string	Maximum length: 35	
pattern	Pattern to match.	string	Maximum length: 255	
ignore-case	Enable/disable ignore case.	option	-	disable
	OptionDescription			
	enable	Enable ignore case.		
	disable	Disable ignore case.		
repeat	Enable/disable repeat match.	option	-	disable
	OptionDescription			
	enable	Enable repeat match.		
	disable	Disable repeat match.		
status	Enable/disable this pattern.	option	-	enable
	OptionDescription			
	enable	Enable this pattern.		
	disable	Disable this pattern.		
comment	Optional comments.	var-string	Maximum length: 255	

config dlp exact-data-match

Configure exact-data-match template used by DLP scan.

```
config dlp exact-data-match
  Description: Configure exact-data-match template used by DLP scan.
  edit <name>
    set optional {integer}
    set data {string}
    config columns
      Description: DLP exact-data-match column types.
```



```

        edit <index>
            set type {string}
            set optional [enable|disable]
        next
    end
next
end

```

config dlp exact-data-match

Parameter	Description	Type	Size	Default
name	Name of table containing the exact-data-match template.	string	Maximum length: 35	
optional	Number of optional columns need to match.	integer	Minimum value: 0 Maximum value: 32	0
data	External resource for exact data match.	string	Maximum length: 35	

config columns

Parameter	Description	Type	Size	Default						
index	Column index.	integer	Minimum value: 1 Maximum value: 32	0						
type	Data-type for this column.	string	Maximum length: 35							
optional	Enable/disable optional match.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable optional match.</td></tr><tr><td><i>disable</i></td><td>Disable optional match.</td></tr></table>	Option	Description	<i>enable</i>	Enable optional match.	<i>disable</i>	Disable optional match.			
Option	Description									
<i>enable</i>	Enable optional match.									
<i>disable</i>	Disable optional match.									

config dlp filepattern

Configure file patterns used by DLP blocking.

```

config dlp filepattern
    Description: Configure file patterns used by DLP blocking.
    edit <id>
        set name {string}
    next
end

```

```

    set comment {var-string}
  config entries
    Description: Configure file patterns used by DLP blocking.
    edit <pattern>
      set filter-type [pattern|type]
      set file-type [7z|arj|...]
    next
  end
next
end

```

config dlp filepattern

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
name	Name of table containing the file pattern list.	string	Maximum length: 63	
comment	Optional comments.	var-string	Maximum length: 255	

config entries

Parameter	Description	Type	Size	Default
filter-type	Filter by file name pattern or by file type.	option	-	pattern
	Option	Description		
	<i>pattern</i>	Filter by file name pattern.		
	<i>type</i>	Filter by file type.		
pattern	Add a file name pattern.	string	Maximum length: 79	
file-type	Select a file type.	option	-	unknown
	Option	Description		
	<i>7z</i>	Match 7-zip files.		
	<i>arj</i>	Match arj compressed files.		
	<i>cab</i>	Match Windows cab files.		

Parameter	Description	Type	Size	Default

Option	Description
<i>lzh</i>	Match lzh compressed files.
<i>rar</i>	Match rar archives.
<i>tar</i>	Match tar files.
<i>zip</i>	Match zip files.
<i>bzip</i>	Match bzip files.
<i>gzip</i>	Match gzip files.
<i>bzip2</i>	Match bzip2 files.
<i>xz</i>	Match xz files.
<i>bat</i>	Match Windows batch files.
<i>uue</i>	Match uue files.
<i>mime</i>	Match mime files.
<i>base64</i>	Match base64 files.
<i>binhex</i>	Match binhex files.
<i>elf</i>	Match elf files.
<i>exe</i>	Match Windows executable files.
<i>dll</i>	Match dll files.
<i>hta</i>	Match hta files.
<i>html</i>	Match html files.
<i>jad</i>	Match jad files.
<i>class</i>	Match class files.
<i>cod</i>	Match cod files.
<i>javascript</i>	Match javascript files.
<i>jar</i>	Match jar files.
<i>jnlp</i>	Match jnlp files.
<i>msoffice</i>	Match MS-Office files. For example, doc, xls, ppt, and so on.
<i>msofficex</i>	Match MS-Office XML files. For example, docx, xlsx, pptx, and so on.
<i>fsg</i>	Match fsg files.
<i>upx</i>	Match upx files.
<i>petite</i>	Match petite files.

Parameter	Description	Type	Size	Default

Option	Description
<i>aspack</i>	Match aspack files.
<i>sis</i>	Match sis files.
<i>hlp</i>	Match Windows help files.
<i>activemime</i>	Match activemime files.
<i>jpeg</i>	Match jpeg files.
<i>gif</i>	Match gif files.
<i>tiff</i>	Match tiff files.
<i>png</i>	Match png files.
<i>bmp</i>	Match bmp files.
<i>unknown</i>	Match unknown files.
<i>mpeg</i>	Match mpeg files.
<i>mov</i>	Match mov files.
<i>mp3</i>	Match mp3 files.
<i>wma</i>	Match wma files.
<i>wav</i>	Match wav files.
<i>pdf</i>	Match Acrobat PDF files.
<i>avi</i>	Match avi files.
<i>rm</i>	Match rm files.
<i>torrent</i>	Match torrent files.
<i>hibun</i>	Match special-file-23-support files.
<i>msi</i>	Match Windows Installer msi files.
<i>mach-o</i>	Match Mach object files.
<i>dmg</i>	Match Apple disk image files.
<i>.net</i>	Match .NET files.
<i>xar</i>	Match xar archive files.
<i>chm</i>	Match Windows compiled HTML help files.
<i>iso</i>	Match ISO archive files.
<i>crx</i>	Match Chrome extension files.
<i>flac</i>	Match flac files.

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>registry</i>	Match registry files.		
	<i>hwp</i>	Match hwp files.		
	<i>rpm</i>	Match rpm files.		
	<i>c/cpp</i>	Match c/cpp files.		
	<i>css</i>	Match CSS files.		
	<i>com</i>	Match COM files.		

config dlp fp-doc-source

Create a DLP fingerprint database by allowing the FortiProxy to access a file server containing files from which to create fingerprints.

```
config dlp fp-doc-source
```

Description: Create a DLP fingerprint database by allowing the FortiProxy to access a file server containing files from which to create fingerprints.

```
edit <name>
    set server-type {option}
    set server {string}
    set period [none|daily|...]
    set vdom [mgmt|current]
    set scan-subdirectories [enable|disable]
    set scan-on-creation [enable|disable]
    set remove-deleted [enable|disable]
    set keep-modified [enable|disable]
    set username {string}
    set password {password}
    set file-path {string}
    set file-pattern {string}
    set sensitivity {string}
    set tod-hour {integer}
    set tod-min {integer}
    set weekday [sunday|monday|...]
    set date {integer}
next
end
```

config dlp fp-doc-source

Parameter	Description	Type	Size	Default
name	Name of the DLP fingerprint database.	string	Maximum length: 35	

Parameter	Description	Type	Size	Default										
server-type	Protocol used to communicate with the file server. Currently only Samba (SMB) servers are supported.	option	-	samba										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>samba</td><td>SAMBA server.</td></tr></table>				Option	Description	samba	SAMBA server.						
Option	Description													
samba	SAMBA server.													
server	IPv4 or IPv6 address of the server.	string	Maximum length: 35											
period	Frequency for which the FortiProxy checks the server for new or changed files.	option	-	none										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>none</td><td>Check the server when the FortiGate starts up.</td></tr><tr><td>daily</td><td>Check the server once a day.</td></tr><tr><td>weekly</td><td>Check the server once a week.</td></tr><tr><td>monthly</td><td>Check the server once a month.</td></tr></table>				Option	Description	none	Check the server when the FortiGate starts up.	daily	Check the server once a day.	weekly	Check the server once a week.	monthly	Check the server once a month.
Option	Description													
none	Check the server when the FortiGate starts up.													
daily	Check the server once a day.													
weekly	Check the server once a week.													
monthly	Check the server once a month.													
vdom	Select the VDOM that can communicate with the file server.	option	-	mgmt										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>mgmt</td><td>Communicate with the file server through the management VDOM.</td></tr><tr><td>current</td><td>Communicate with the file server through the VDOM containing this DLP fingerprint database configuration.</td></tr></table>				Option	Description	mgmt	Communicate with the file server through the management VDOM.	current	Communicate with the file server through the VDOM containing this DLP fingerprint database configuration.				
Option	Description													
mgmt	Communicate with the file server through the management VDOM.													
current	Communicate with the file server through the VDOM containing this DLP fingerprint database configuration.													
scan-subdirectories	Enable/disable scanning subdirectories to find files to create fingerprints from.	option	-	enable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Scan subdirectories.</td></tr><tr><td>disable</td><td>Do not scan subdirectories.</td></tr></table>				Option	Description	enable	Scan subdirectories.	disable	Do not scan subdirectories.				
Option	Description													
enable	Scan subdirectories.													
disable	Do not scan subdirectories.													
scan-on-creation	Enable to keep the fingerprint database up to date when a file is added or changed on the server.	option	-	enable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Keep the fingerprint database up to date when a file is added or changed on the server.</td></tr><tr><td>disable</td><td>Do not check for added or changed files on the server. Saves system resources.</td></tr></table>				Option	Description	enable	Keep the fingerprint database up to date when a file is added or changed on the server.	disable	Do not check for added or changed files on the server. Saves system resources.				
Option	Description													
enable	Keep the fingerprint database up to date when a file is added or changed on the server.													
disable	Do not check for added or changed files on the server. Saves system resources.													

Parameter	Description	Type	Size	Default
remove-deleted	Enable to keep the fingerprint database up to date when a file is deleted from the server.	option	-	enable
	Option	Description		
	enable	Keep the fingerprint database up to date when a file is deleted from the server.		
	disable	Do not check for deleted files on the server. Saves system resources.		
keep-modified	Enable so that when a file is changed on the server the FortiProxy keeps the old fingerprint and adds a new fingerprint to the database.	option	-	enable
	Option	Description		
	enable	Keep the old fingerprint and add a new fingerprint when a file is changed on the server.		
	disable	Replace the old fingerprint with the new fingerprint when a file is changed on the server.		
username	User name required to log into the file server.	string	Maximum length: 35	
password	Password required to log into the file server.	password	Not Specified	
file-path	Path on the server to the fingerprint files (max 119 characters).	string	Maximum length: 119	
file-pattern	Files matching this pattern on the server are fingerprinted. Optionally use the * and ? wildcards.	string	Maximum length: 35	*
sensitivity	Select a sensitivity or threat level for matches with this fingerprint database. Add sensitivities using sensitivity.	string	Maximum length: 35	
tod-hour	Hour of the day on which to scan the server (0 - 23, default = 1).	integer	Minimum value: 0 Maximum value: 23	1
tod-min	Minute of the hour on which to scan the server (0 - 59).	integer	Minimum value: 0 Maximum value: 59	0
weekday	Day of the week on which to scan the server.	option	-	sunday

Parameter	Description	Type	Size	Default																
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>sunday</i></td><td>Sunday</td></tr><tr><td><i>monday</i></td><td>Monday</td></tr><tr><td><i>tuesday</i></td><td>Tuesday</td></tr><tr><td><i>wednesday</i></td><td>Wednesday</td></tr><tr><td><i>thursday</i></td><td>Thursday</td></tr><tr><td><i>friday</i></td><td>Friday</td></tr><tr><td><i>saturday</i></td><td>Saturday</td></tr></table>	Option	Description	<i>sunday</i>	Sunday	<i>monday</i>	Monday	<i>tuesday</i>	Tuesday	<i>wednesday</i>	Wednesday	<i>thursday</i>	Thursday	<i>friday</i>	Friday	<i>saturday</i>	Saturday			
	Option	Description																		
	<i>sunday</i>	Sunday																		
	<i>monday</i>	Monday																		
	<i>tuesday</i>	Tuesday																		
	<i>wednesday</i>	Wednesday																		
	<i>thursday</i>	Thursday																		
	<i>friday</i>	Friday																		
<i>saturday</i>	Saturday																			
date	Day of the month on which to scan the server (1 - 31).	integer	Minimum value: 1 Maximum value: 31	1																

config dlp profile

Configure DLP profiles.

```

config dlp profile
  Description: Configure DLP profiles.
  edit <name>
    set comment {var-string}
    set feature-set [flow|proxy]
    set replacemsg-group {string}
    config rule
      Description: Set up DLP rules for this profile.
      edit <id>
        set name {string}
        set severity [info|low|...]
        set type [file|message]
        set proto {option1}, {option2}, ...
        set filter-by [sensor|mip|...]
        set file-size {integer}
        set sensitivity <name1>, <name2>, ...
        set match-percentage {integer}
        set file-type {integer}
        set sensor <name1>, <name2>, ...
        set label {string}
        set archive [disable|enable]
        set action [allow|log-only|...]
        set expiry {user}
      next
    end
  set dlp-log [enable|disable]
  set nac-quar-log [enable|disable]
  set full-archive-proto {option1}, {option2}, ...

```



```

        set summary-proto {option1}, {option2}, ...
    next
end

```

config dlp profile

Parameter	Description	Type	Size	Default
name	Name of the DLP profile.	string	Maximum length: 35	
comment	Comment.	var-string	Maximum length: 255	
feature-set	Flow/proxy feature set.	option	-	proxy
	Option	Description		
	<i>flow</i>	Flow feature set.		
	<i>proxy</i>	Proxy feature set.		
replacemsg-group	Replacement message group used by this DLP profile.	string	Maximum length: 35	
dlp-log	Enable/disable DLP logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable DLP logging.		
	<i>disable</i>	Disable DLP logging.		
nac-quar-log	Enable/disable NAC quarantine logging.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable NAC quarantine logging.		
	<i>disable</i>	Disable NAC quarantine logging.		
full-archive-proto	Protocols to always content archive.	option	-	
	Option	Description		
	<i>smtp</i>	SMTP.		
	<i>pop3</i>	POP3.		
	<i>imap</i>	IMAP.		
	<i>http-get</i>	HTTP GET.		
	<i>http-post</i>	HTTP POST.		

Parameter	Description	Type	Size	Default																						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>ftp</i></td><td>FTP.</td></tr><tr><td><i>nntp</i></td><td>NNTP.</td></tr><tr><td><i>mapi</i></td><td>MAPI.</td></tr><tr><td><i>ssh</i></td><td>SFTP and SCP.</td></tr><tr><td><i>cifs</i></td><td>CIFS.</td></tr></table>	Option	Description	<i>ftp</i>	FTP.	<i>nntp</i>	NNTP.	<i>mapi</i>	MAPI.	<i>ssh</i>	SFTP and SCP.	<i>cifs</i>	CIFS.													
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	<i>ftp</i>	FTP.																								
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	<i>mapi</i>	MAPI.																								
	<i>ssh</i>	SFTP and SCP.																								
<i>cifs</i>	CIFS.																									
summary-proto	Protocols to always log summary.	option	-																							
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>smtp</i></td><td>SMTP.</td></tr><tr><td><i>pop3</i></td><td>POP3.</td></tr><tr><td><i>imap</i></td><td>IMAP.</td></tr><tr><td><i>http-get</i></td><td>HTTP GET.</td></tr><tr><td><i>http-post</i></td><td>HTTP POST.</td></tr><tr><td><i>ftp</i></td><td>FTP.</td></tr><tr><td><i>nntp</i></td><td>NNTP.</td></tr><tr><td><i>mapi</i></td><td>MAPI.</td></tr><tr><td><i>ssh</i></td><td>SFTP and SCP.</td></tr><tr><td><i>cifs</i></td><td>CIFS.</td></tr></table>	Option	Description	<i>smtp</i>	SMTP.	<i>pop3</i>	POP3.	<i>imap</i>	IMAP.	<i>http-get</i>	HTTP GET.	<i>http-post</i>	HTTP POST.	<i>ftp</i>	FTP.	<i>nntp</i>	NNTP.	<i>mapi</i>	MAPI.	<i>ssh</i>	SFTP and SCP.	<i>cifs</i>	CIFS.			
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	<i>ssh</i>	SFTP and SCP.																								
	<i>cifs</i>	CIFS.																								

config rule

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
name	Filter name.	string	Maximum length: 35	
severity	Select the severity or threat level that matches this filter.	option	-	medium

Parameter	Description	Type	Size	Default																						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>info</i></td><td>Informational.</td></tr><tr><td><i>low</i></td><td>Low.</td></tr><tr><td><i>medium</i></td><td>Medium.</td></tr><tr><td><i>high</i></td><td>High.</td></tr><tr><td><i>critical</i></td><td>Critical.</td></tr></table>	Option	Description	<i>info</i>	Informational.	<i>low</i>	Low.	<i>medium</i>	Medium.	<i>high</i>	High.	<i>critical</i>	Critical.													
	Option	Description																								
	<i>info</i>	Informational.																								
	<i>low</i>	Low.																								
	<i>medium</i>	Medium.																								
	<i>high</i>	High.																								
	<i>critical</i>	Critical.																								
type	Select whether to check the content of messages (an email message) or files (downloaded files or email attachments).	option	-	file																						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>file</i></td><td>Check the contents of downloaded or attached files.</td></tr><tr><td><i>message</i></td><td>Check the contents of email messages, web pages, etc.</td></tr></table>	Option	Description	<i>file</i>	Check the contents of downloaded or attached files.	<i>message</i>	Check the contents of email messages, web pages, etc.																			
	Option	Description																								
	<i>file</i>	Check the contents of downloaded or attached files.																								
<i>message</i>	Check the contents of email messages, web pages, etc.																									
proto	Check messages or files over one or more of these protocols.	option	-																							
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>smtp</i></td><td>SMTP.</td></tr><tr><td><i>pop3</i></td><td>POP3.</td></tr><tr><td><i>imap</i></td><td>IMAP.</td></tr><tr><td><i>http-get</i></td><td>HTTP GET.</td></tr><tr><td><i>http-post</i></td><td>HTTP POST.</td></tr><tr><td><i>ftp</i></td><td>FTP.</td></tr><tr><td><i>nntp</i></td><td>NNTP.</td></tr><tr><td><i>mapi</i></td><td>MAPI.</td></tr><tr><td><i>ssh</i></td><td>SFTP and SCP.</td></tr><tr><td><i>cifs</i></td><td>CIFS.</td></tr></table>	Option	Description	<i>smtp</i>	SMTP.	<i>pop3</i>	POP3.	<i>imap</i>	IMAP.	<i>http-get</i>	HTTP GET.	<i>http-post</i>	HTTP POST.	<i>ftp</i>	FTP.	<i>nntp</i>	NNTP.	<i>mapi</i>	MAPI.	<i>ssh</i>	SFTP and SCP.	<i>cifs</i>	CIFS.			
	Option	Description																								
	<i>smtp</i>	SMTP.																								
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	<i>mapi</i>	MAPI.																								
	<i>ssh</i>	SFTP and SCP.																								
<i>cifs</i>	CIFS.																									
filter-by	Select the type of content to match.	option	-	none																						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>sensor</i></td><td>Use DLP sensors to match content.</td></tr><tr><td><i>mip</i></td><td>Use MIP label dictionary to match content.</td></tr></table>	Option	Description	<i>sensor</i>	Use DLP sensors to match content.	<i>mip</i>	Use MIP label dictionary to match content.																			
	Option	Description																								
	<i>sensor</i>	Use DLP sensors to match content.																								
<i>mip</i>	Use MIP label dictionary to match content.																									

Parameter	Description	Type	Size	Default								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>fingerprint</i></td><td>Match against a fingerprint sensitivity.</td></tr><tr><td><i>encrypted</i></td><td>Look for encrypted files.</td></tr><tr><td><i>none</i></td><td>No content scan.</td></tr></table>	Option	Description	<i>fingerprint</i>	Match against a fingerprint sensitivity.	<i>encrypted</i>	Look for encrypted files.	<i>none</i>	No content scan.			
	Option	Description										
	<i>fingerprint</i>	Match against a fingerprint sensitivity.										
	<i>encrypted</i>	Look for encrypted files.										
<i>none</i>	No content scan.											
file-size	Match files greater than or equal to this size (KB).	integer	Minimum value: 0 Maximum value: 4193280	0								
sensitivity <name>	Select a DLP file pattern sensitivity to match. Select a DLP sensitivity.	string	Maximum length: 35									
match-percentage	Percentage of fingerprints in the fingerprint databases designated with the selected sensitivity to match.	integer	Minimum value: 1 Maximum value: 100	10								
file-type	Select the number of a DLP file pattern table to match.	integer	Minimum value: 0 Maximum value: 4294967295	0								
sensor <name>	Select DLP sensors. Address name.	string	Maximum length: 35									
label	MIP label dictionary.	string	Maximum length: 35									
archive	Enable/disable DLP archiving.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>No DLP archiving.</td></tr><tr><td><i>enable</i></td><td>Enable full DLP archiving.</td></tr></table>	Option	Description	<i>disable</i>	No DLP archiving.	<i>enable</i>	Enable full DLP archiving.					
	Option	Description										
	<i>disable</i>	No DLP archiving.										
<i>enable</i>	Enable full DLP archiving.											
action	Action to take with content that this DLP profile matches.	option	-	allow								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>allow</i></td><td>Allow the content to pass through the FortiGate and do not create a log message.</td></tr><tr><td><i>log-only</i></td><td>Allow the content to pass through the FortiGate, but write a log message.</td></tr></table>	Option	Description	<i>allow</i>	Allow the content to pass through the FortiGate and do not create a log message.	<i>log-only</i>	Allow the content to pass through the FortiGate, but write a log message.					
	Option	Description										
	<i>allow</i>	Allow the content to pass through the FortiGate and do not create a log message.										
<i>log-only</i>	Allow the content to pass through the FortiGate, but write a log message.											

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>block</i>	Block the content and write a log message.		
	<i>quarantine-ip</i>	Quarantine all traffic from the IP address and write a log message.		
expiry	Quarantine duration in days, hours, minutes (format = dddhhmm).	user	Not Specified	5m

config dlp sensitivity

Create self-explanatory DLP sensitivity levels to be used when setting sensitivity under config fp-doc-source.

```
config dlp sensitivity
    Description: Create self-explanatory DLP sensitivity levels to be used when setting
    sensitivity under config fp-doc-source.
    edit <name>
        next
    end
```

config dlp sensitivity

Parameter	Description	Type	Size	Default
name	DLP Sensitivity Levels.	string	Maximum length: 35	

config dlp sensor

Configure sensors used by DLP blocking.

```
config dlp sensor
    Description: Configure sensors used by DLP blocking.
    edit <name>
        set match-type [match-all|match-any|...]
        set eval {string}
        set comment {var-string}
        config entries
            Description: DLP sensor entries.
            edit <id>
                set dictionary {string}
                set count {integer}
                set status [enable|disable]
            next
        end
    next
end
```

config dlp sensor

Parameter	Description	Type	Size	Default								
name	Name of table containing the sensor.	string	Maximum length: 35									
match-type	Logical relation between entries (default = match-any).	option	-	match-any								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>match-all</i></td><td>Match all entries.</td></tr><tr><td><i>match-any</i></td><td>Match any entries.</td></tr><tr><td><i>match-eval</i></td><td>Match an expression evaluation.</td></tr></table>				Option	Description	<i>match-all</i>	Match all entries.	<i>match-any</i>	Match any entries.	<i>match-eval</i>	Match an expression evaluation.
	Option	Description										
	<i>match-all</i>	Match all entries.										
	<i>match-any</i>	Match any entries.										
	<i>match-eval</i>	Match an expression evaluation.										
eval	Expression to evaluate.	string	Maximum length: 255									
comment	Optional comments.	var-string	Maximum length: 255									

config entries

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 1 Maximum value: 32	0
dictionary	Select a DLP dictionary or exact-data-match.	string	Maximum length: 35	
count	Count of dictionary matches to trigger sensor entry match (Dictionary might not be able to trigger more than once based on its 'repeat' option, 1 - 255, default = 1).	integer	Minimum value: 1 Maximum value: 255	1
status	Enable/disable this entry.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable this entry.		
	<i>disable</i>	Disable this entry.		

config dlp settings

Designate logical storage for DLP fingerprint database.

```

config dlp settings
    Description: Designate logical storage for DLP fingerprint database.
    set storage-device {string}
    set size {integer}
    set db-mode [stop-adding|remove-modified-then-oldest|...]
    set cache-mem-percent {integer}
    set chunk-size {integer}
end

```

config dlp settings

Parameter	Description	Type	Size	Default
storage-device	Storage device name.	string	Maximum length: 35	
size	Maximum total size of files within the storage (MB).	integer	Minimum value: 16 Maximum value: 4294967295	16
db-mode	Behavior when the maximum size is reached.	option	-	stop-adding
	Option	Description		
	stop-adding	Stop adding entries.		
	remove-modified-then-oldest	Remove modified chunks first, then oldest file entries.		
	remove-oldest	Remove the oldest files first.		
cache-mem-percent	Maximum percentage of available memory allocated to caching (1 - 15).	integer	Minimum value: 1 Maximum value: 15	2
chunk-size	Maximum fingerprint chunk size. Caution, changing this setting will flush the entire database.	integer	Minimum value: 100 Maximum value: 100000	2800

dnsfilter

This section includes syntax for the following commands:

- [config dnsfilter domain-filter on page 188](#)
- [config dnsfilter profile on page 189](#)

config dnsfilter domain-filter

Configure DNS domain filters.

```
config dnsfilter domain-filter
  Description: Configure DNS domain filters.
  edit <id>
    set name {string}
    set comment {var-string}
    config entries
      Description: DNS domain filter entries.
      edit <id>
        set domain {string}
        set type [simple|regex|...]
        set action [block|allow|...]
        set status [enable|disable]
      next
    end
  next
end
```

config dnsfilter domain-filter

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
name	Name of table.	string	Maximum length: 63	
comment	Optional comments.	var-string	Maximum length: 255	

config entries

Parameter	Description	Type	Size	Default								
id	Id.	integer	Minimum value: 0 Maximum value: 4294967295	0								
domain	Domain entries to be filtered.	string	Maximum length: 511									
type	DNS domain filter type.	option	-	simple								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>simple</i></td><td>Simple domain string.</td></tr><tr><td><i>regex</i></td><td>Regular expression domain string.</td></tr><tr><td><i>wildcard</i></td><td>Wildcard domain string.</td></tr></table>				Option	Description	<i>simple</i>	Simple domain string.	<i>regex</i>	Regular expression domain string.	<i>wildcard</i>	Wildcard domain string.
	Option	Description										
	<i>simple</i>	Simple domain string.										
	<i>regex</i>	Regular expression domain string.										
<i>wildcard</i>	Wildcard domain string.											
action	Action to take for domain filter matches.	option	-	block								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>block</i></td><td>Block DNS requests matching the domain filter.</td></tr><tr><td><i>allow</i></td><td>Allow DNS requests matching the domain filter without logging.</td></tr><tr><td><i>monitor</i></td><td>Allow DNS requests matching the domain filter with logging.</td></tr></table>				Option	Description	<i>block</i>	Block DNS requests matching the domain filter.	<i>allow</i>	Allow DNS requests matching the domain filter without logging.	<i>monitor</i>	Allow DNS requests matching the domain filter with logging.
	Option	Description										
	<i>block</i>	Block DNS requests matching the domain filter.										
	<i>allow</i>	Allow DNS requests matching the domain filter without logging.										
<i>monitor</i>	Allow DNS requests matching the domain filter with logging.											
status	Enable/disable this domain filter.	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable this domain filter.</td></tr><tr><td><i>disable</i></td><td>Disable this domain filter.</td></tr></table>				Option	Description	<i>enable</i>	Enable this domain filter.	<i>disable</i>	Disable this domain filter.		
	Option	Description										
	<i>enable</i>	Enable this domain filter.										
<i>disable</i>	Disable this domain filter.											

config dnsfilter profile

Configure DNS domain filter profile.

```
config dnsfilter profile
  Description: Configure DNS domain filter profile.
  edit <name>
    set comment {var-string}
    config domain-filter
      Description: Domain filter settings.
      set domain-filter-table {integer}
    end
  config ftgd-dns
    Description: FortiGuard DNS Filter settings.
```

```

        set options {option1}, {option2}, ...
    config filters
        Description: FortiGuard DNS domain filters.
        edit <id>
            set category {integer}
            set action [block|monitor]
            set log [enable|disable]
        next
    end
end
set log-all-domain [enable|disable]
set sdns-ftgd-err-log [enable|disable]
set sdns-domain-log [enable|disable]
set block-action [block|redirect|...]
set redirect-portal {ipv4-address}
set redirect-portal6 {ipv6-address}
set block-botnet [disable|enable]
set safe-search [disable|enable]
set youtube-restrict [strict|moderate|...]
set external-ip-blocklist <name1>, <name2>, ...
config dns-translation
    Description: DNS translation settings.
    edit <id>
        set addr-type [ipv4|ipv6]
        set src {ipv4-address}
        set dst {ipv4-address}
        set netmask {ipv4-netmask}
        set status [enable|disable]
        set src6 {ipv6-address}
        set dst6 {ipv6-address}
        set prefix {integer}
    next
end
set transparent-dns-database <name1>, <name2>, ...
set strip-ech [disable|enable]
next
end

```

config dnsfilter profile

Parameter	Description	Type	Size	Default
name	Profile name.	string	Maximum length: 35	
comment	Comment.	var-string	Maximum length: 255	
log-all-domain	Enable/disable logging of all domains visited (detailed DNS logging).	option	-	disable
		Option	Description	
		<i>enable</i>	Enable logging of all domains visited.	

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable logging of all domains visited.		
sdns-ftgd-err-log	Enable/disable FortiGuard SDNS rating error logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable FortiGuard SDNS rating error logging.		
	<i>disable</i>	Disable FortiGuard SDNS rating error logging.		
sdns-domain-log	Enable/disable domain filtering and botnet domain logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable domain filtering and botnet domain logging.		
	<i>disable</i>	Disable domain filtering and botnet domain logging.		
block-action	Action to take for blocked domains.	option	-	redirect
	Option	Description		
	<i>block</i>	Return NXDOMAIN for blocked domains.		
	<i>redirect</i>	Redirect blocked domains to SDNS portal.		
	<i>block-sevrfail</i>	Return SERVFAIL for blocked domains.		
redirect-portal	IPv4 address of the SDNS redirect portal.	ipv4-address	Not Specified	0.0.0.0
redirect-portal6	IPv6 address of the SDNS redirect portal.	ipv6-address	Not Specified	::
block-botnet	Enable/disable blocking botnet C&C DNS lookups.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable blocking botnet C&C DNS lookups.		
	<i>enable</i>	Enable blocking botnet C&C DNS lookups.		
safe-search	Enable/disable Google, Bing, YouTube, Qwant, DuckDuckGo safe search.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable Google, Bing, YouTube, Qwant, DuckDuckGo safe search.		
	<i>enable</i>	Enable Google, Bing, YouTube, Qwant, DuckDuckGo safe search.		

Parameter	Description	Type	Size	Default
youtube-restrict	Set safe search for YouTube restriction level.	option	-	strict
	Option		Description	
	<i>strict</i>		Enable strict safe search for YouTube.	
	<i>moderate</i>		Enable moderate safe search for YouTube.	
	<i>none</i>		Disable safe search for YouTube.	
external-ip-blocklist <name>	One or more external IP block lists. External domain block list name.	string	Maximum length: 79	
transparent-dns-database <name>	Transparent DNS database zones. DNS database zone name.	string	Maximum length: 79	
strip-ech	Enable/disable removal of the encrypted client hello service parameter from supporting DNS RRs.	option	-	enable
	Option		Description	
	<i>disable</i>		Disable removal of the encrypted client hello service parameter from supporting DNS RRs.	
	<i>enable</i>		Enable removal of the encrypted client hello service parameter from supporting DNS RRs.	

config domain-filter

Parameter	Description	Type	Size	Default
domain-filter-table	DNS domain filter table ID.	integer	Minimum value: 0 Maximum value: 4294967295	0

config ftgd-dns

Parameter	Description	Type	Size	Default
options	FortiGuard DNS filter options.	option	-	
	Option		Description	
	<i>error-allow</i>		Allow all domains when FortiGuard DNS servers fail.	
	<i>ftgd-disable</i>		Disable FortiGuard DNS domain rating.	

config filters

Parameter	Description	Type	Size	Default						
id	ID number.	integer	Minimum value: 0 Maximum value: 255	0						
category	Category number.	integer	Minimum value: 0 Maximum value: 255	0						
action	Action to take for DNS requests matching the category.	option	-	monitor						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>block</i></td><td>Block DNS requests matching the category.</td></tr><tr><td><i>monitor</i></td><td>Allow DNS requests matching the category and log the result.</td></tr></table>				Option	Description	<i>block</i>	Block DNS requests matching the category.	<i>monitor</i>	Allow DNS requests matching the category and log the result.
Option	Description									
<i>block</i>	Block DNS requests matching the category.									
<i>monitor</i>	Allow DNS requests matching the category and log the result.									
log	Enable/disable DNS filter logging for this DNS profile.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable DNS filter logging.</td></tr><tr><td><i>disable</i></td><td>Disable DNS filter logging.</td></tr></table>				Option	Description	<i>enable</i>	Enable DNS filter logging.	<i>disable</i>	Disable DNS filter logging.
Option	Description									
<i>enable</i>	Enable DNS filter logging.									
<i>disable</i>	Disable DNS filter logging.									

config dns-translation

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
addr-type	DNS translation type (IPv4 or IPv6).	option	-	ipv4
	OptionDescription			
	ipv4	IPv4 address type.		
	ipv6	IPv6 address type.		
src	IPv4 address or subnet on the internal network to compare with the resolved address in DNS query replies. If the resolved address matches, the resolved address is substituted with dst.	ipv4-address	Not Specified	0.0.0.0

Parameter	Description	Type	Size	Default						
dst	IPv4 address or subnet on the external network to substitute for the resolved address in DNS query replies. Can be single IP address or subnet on the external network, but number of addresses must equal number of mapped IP addresses in src.	ipv4-address	Not Specified	0.0.0.0						
netmask	If src and dst are subnets rather than single IP addresses, enter the netmask for both src and dst.	ipv4-netmask	Not Specified	255.255.255.255						
status	Enable/disable this DNS translation entry.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable this DNS translation.</td></tr><tr><td><i>disable</i></td><td>Disable this DNS translation.</td></tr></table>				Option	Description	<i>enable</i>	Enable this DNS translation.	<i>disable</i>	Disable this DNS translation.
Option	Description									
<i>enable</i>	Enable this DNS translation.									
<i>disable</i>	Disable this DNS translation.									
src6	IPv6 address or subnet on the internal network to compare with the resolved address in DNS query replies. If the resolved address matches, the resolved address is substituted with dst6.	ipv6-address	Not Specified	::						
dst6	IPv6 address or subnet on the external network to substitute for the resolved address in DNS query replies. Can be single IP address or subnet on the external network, but number of addresses must equal number of mapped IP addresses in src6.	ipv6-address	Not Specified	::						
prefix	If src6 and dst6 are subnets rather than single IP addresses, enter the prefix for both src6 and dst6 (1 - 128, default = 128).	integer	Minimum value: 1 Maximum value: 128	128						

emailfilter

This section includes syntax for the following commands:

- [config emailfilter block-allow-list on page 195](#)
- [config emailfilter bword on page 197](#)
- [config emailfilter dnsbl on page 199](#)
- [config emailfilter fortishield on page 200](#)
- [config emailfilter iptrust on page 201](#)
- [config emailfilter mheader on page 202](#)
- [config emailfilter options on page 204](#)
- [config emailfilter profile on page 204](#)

config emailfilter block-allow-list

Configure anti-spam block/allow list.

```
config emailfilter block-allow-list
  Description: Configure anti-spam block/allow list.
  edit <id>
    set name {string}
    set comment {var-string}
    config entries
      Description: Anti-spam block/allow entries.
      edit <id>
        set status [enable|disable]
        set type [ip|email-to|...]
        set action [reject|spam|...]
        set addr-type [ipv4|ipv6]
        set ip4-subnet {ipv4-classnet}
        set ip6-subnet {ipv6-network}
        set pattern-type [wildcard|regex]
        set pattern {string}
      next
    end
  next
end
```

config emailfilter block-allow-list

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
name	Name of table.	string	Maximum length: 63	
comment	Optional comments.	var-string	Maximum length: 255	

config entries

Parameter	Description	Type	Size	Default
status	Enable/disable status.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable status.		
	<i>disable</i>	Disable status.		
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
type	Entry type.	option	-	ip
	Option	Description		
	<i>ip</i>	By IP address.		
	<i>email-to</i>	By email recipient.		
	<i>email-from</i>	By email sender.		
	<i>subject</i>	By email subject.		
action	Reject, mark as spam or good email.	option	-	spam
	Option	Description		
	<i>reject</i>	Reject the connection.		
	<i>spam</i>	Mark as spam email.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>clear</i>	Mark as good email.		
addr-type	IP address type.	option	-	ipv4
	Option	Description		
	<i>ipv4</i>	IPv4 Address type.		
	<i>ipv6</i>	IPv6 Address type.		
ip4-subnet	IPv4 network address/subnet mask bits.	ipv4-classnet	Not Specified	0.0.0.0 0.0.0.0
ip6-subnet	IPv6 network address/subnet mask bits.	ipv6-network	Not Specified	::/128
pattern-type	Wildcard pattern or regular expression.	option	-	wildcard
	Option	Description		
	<i>wildcard</i>	Wildcard pattern.		
	<i>regex</i>	Perl regular expression.		
pattern	Pattern to match.	string	Maximum length: 127	

config emailfilter bword

Configure AntiSpam banned word list.

```

config emailfilter bword
    Description: Configure AntiSpam banned word list.
    edit <id>
        set name {string}
        set comment {var-string}
        config entries
            Description: Spam filter banned word.
            edit <id>
                set status [enable|disable]
                set pattern {string}
                set pattern-type [wildcard|regex]
                set action [spam|clear]
                set where [subject|body|...]
                set language [western|simch|...]
                set score {integer}
            next
        end
    next
end

```

config emailfilter bword

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
name	Name of table.	string	Maximum length: 63	
comment	Optional comments.	var-string	Maximum length: 255	

config entries

Parameter	Description	Type	Size	Default
status	Enable/disable status.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable status.		
	<i>disable</i>	Disable status.		
id	Banned word entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
pattern	Pattern for the banned word.	string	Maximum length: 127	
pattern-type	Wildcard pattern or regular expression.	option	-	wildcard
	Option	Description		
	<i>wildcard</i>	Wildcard pattern.		
	<i>regex</i>	Perl regular expression.		
action	Mark spam or good.	option	-	spam
	Option	Description		
	<i>spam</i>	Mark as spam email.		
	<i>clear</i>	Mark as good email.		

Parameter	Description	Type	Size	Default
where	Component of the email to be scanned.	option	-	all
	Option	Description		
	<i>subject</i>	Banned word in email subject.		
	<i>body</i>	Banned word in email body.		
	<i>all</i>	Banned word in both subject and body.		
language	Language for the banned word.	option	-	western
	Option	Description		
	<i>western</i>	Western.		
	<i>simch</i>	Simplified Chinese.		
	<i>trach</i>	Traditional Chinese.		
	<i>japanese</i>	Japanese.		
	<i>korean</i>	Korean.		
	<i>french</i>	French.		
	<i>thai</i>	Thai.		
	<i>spanish</i>	Spanish.		
score	Score value.	integer	Minimum value: 1 Maximum value: 99999	10

config emailfilter dnsbl

Configure AntiSpam DNSBL/ORBL.

```

config emailfilter dnsbl
    Description: Configure AntiSpam DNSBL/ORBL.
    edit <id>
        set name {string}
        set comment {var-string}
        config entries
            Description: Spam filter DNSBL and ORBL server.
            edit <id>
                set status [enable|disable]
                set server {string}
                set action [reject|spam]
            next
        next
    end
next
end

```

config emailfilter dnsbl

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
name	Name of table.	string	Maximum length: 63	
comment	Optional comments.	var-string	Maximum length: 255	

config entries

Parameter	Description	Type	Size	Default
status	Enable/disable status.	option	-	enable
	Option	Description		
	enable	Enable status.		
	disable	Disable status.		
id	DNSBL/ORBL entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
server	DNSBL or ORBL server name.	string	Maximum length: 127	
action	Reject connection or mark as spam email.	option	-	spam
	Option	Description		
	reject	Reject the connection.		
	spam	Mark as spam email.		

config emailfilter fortishield

Configure FortiGuard - AntiSpam.

```
config emailfilter fortishield
  Description: Configure FortiGuard - AntiSpam.
  set spam-submit-srv {string}
```

```

set spam-submit-force [enable|disable]
set spam-submit-txt2htm [enable|disable]
end

```

config emailfilter fortishield

Parameter	Description	Type	Size	Default
spam-submit-srv	Hostname of the spam submission server.	string	Maximum length: 63	www.nospammer.net
spam-submit-force	Enable/disable force insertion of a new mime entity for the submission text.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
spam-submit-txt2htm	Enable/disable conversion of text email to HTML email.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		

config emailfilter iptrust

Configure AntiSpam IP trust.

```

config emailfilter iptrust
    Description: Configure AntiSpam IP trust.
    edit <id>
        set name {string}
        set comment {var-string}
        config entries
            Description: Spam filter trusted IP addresses.
            edit <id>
                set status [enable|disable]
                set addr-type [ipv4|ipv6]
                set ip4-subnet {ipv4-classnet}
                set ip6-subnet {ipv6-network}
            next
        end
    next
end

```

config emailfilter iptrust

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
name	Name of table.	string	Maximum length: 63	
comment	Optional comments.	var-string	Maximum length: 255	

config entries

Parameter	Description	Type	Size	Default						
status	Enable/disable status.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable status.</td></tr><tr><td><i>disable</i></td><td>Disable status.</td></tr></table>	Option	Description	<i>enable</i>	Enable status.	<i>disable</i>	Disable status.			
	Option	Description								
	<i>enable</i>	Enable status.								
<i>disable</i>	Disable status.									
id	Trusted IP entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0						
addr-type	Type of address.	option	-	ipv4						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>ipv4</i></td><td>IPv4 Address type.</td></tr><tr><td><i>ipv6</i></td><td>IPv6 Address type.</td></tr></table>	Option	Description	<i>ipv4</i>	IPv4 Address type.	<i>ipv6</i>	IPv6 Address type.			
	Option	Description								
	<i>ipv4</i>	IPv4 Address type.								
<i>ipv6</i>	IPv6 Address type.									
ip4-subnet	IPv4 network address or network address/subnet mask bits.	ipv4-classnet	Not Specified	0.0.0.0 0.0.0.0						
ip6-subnet	IPv6 network address/subnet mask bits.	ipv6-network	Not Specified	::/128						

config emailfilter mheader

Configure AntiSpam MIME header.

```

config emailfilter mheader
  Description: Configure AntiSpam MIME header.
  edit <id>
    set name {string}
    set comment {var-string}
    config entries
      Description: Spam filter mime header content.
      edit <id>
        set status [enable|disable]
        set fieldname {string}
        set fieldbody {string}
        set pattern-type [wildcard|regexp]
        set action [spam|clear]
      next
    end
  next
end

```

config emailfilter mheader

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
name	Name of table.	string	Maximum length: 63	
comment	Optional comments.	var-string	Maximum length: 255	

config entries

Parameter	Description	Type	Size	Default						
status	Enable/disable status.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable status.</td></tr><tr><td><i>disable</i></td><td>Disable status.</td></tr></table>				Option	Description	<i>enable</i>	Enable status.	<i>disable</i>	Disable status.
	Option	Description								
	<i>enable</i>	Enable status.								
	<i>disable</i>	Disable status.								
id	Mime header entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0						

Parameter	Description	Type	Size	Default						
fieldname	Pattern for header field name.	string	Maximum length: 63							
fieldbody	Pattern for the header field body.	string	Maximum length: 127							
pattern-type	Wildcard pattern or regular expression.	option	-	wildcard						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>wildcard</td><td>Wildcard pattern.</td></tr><tr><td>regex</td><td>Perl regular expression.</td></tr></table>				Option	Description	wildcard	Wildcard pattern.	regex	Perl regular expression.
Option	Description									
wildcard	Wildcard pattern.									
regex	Perl regular expression.									
action	Mark spam or good.	option	-	spam						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>spam</td><td>Mark as spam email.</td></tr><tr><td>clear</td><td>Mark as good email.</td></tr></table>				Option	Description	spam	Mark as spam email.	clear	Mark as good email.
Option	Description									
spam	Mark as spam email.									
clear	Mark as good email.									

config emailfilter options

Configure AntiSpam options.

```
config emailfilter options
    Description: Configure AntiSpam options.
    set dns-timeout {integer}
end
```

config emailfilter options

Parameter	Description	Type	Size	Default
dns-timeout	DNS query time out (1 - 30 sec).	integer	Minimum value: 1 Maximum value: 30	7

config emailfilter profile

Configure Email Filter profiles.

```
config emailfilter profile
    Description: Configure Email Filter profiles.
    edit <name>
        set comment {var-string}
```



```

set replacemsg-group {string}
set spam-log [disable|enable]
set spam-log-fortiguard-response [disable|enable]
set spam-filtering [enable|disable]
set external [enable|disable]
set options {option1}, {option2}, ...
config imap
    Description: IMAP.
    set log-all [disable|enable]
    set action [pass|tag]
    set tag-type {option1}, {option2}, ...
    set tag-msg {string}
end
config pop3
    Description: POP3.
    set log-all [disable|enable]
    set action [pass|tag]
    set tag-type {option1}, {option2}, ...
    set tag-msg {string}
end
config smtp
    Description: SMTP.
    set log-all [disable|enable]
    set action [pass|tag|...]
    set tag-type {option1}, {option2}, ...
    set tag-msg {string}
    set hdrrip [disable|enable]
    set local-override [disable|enable]
end
config mapi
    Description: MAPI.
    set log-all [disable|enable]
    set action [pass|discard]
end
config msn-hotmail
    Description: MSN Hotmail.
    set log-all [disable|enable]
end
config yahoo-mail
    Description: Yahoo! Mail.
    set log-all [disable|enable]
end
config gmail
    Description: Gmail.
    set log-all [disable|enable]
end
config other-webmails
    Description: Other supported webmails.
    set log-all [disable|enable]
end
set spam-bword-threshold {integer}
set spam-bword-table {integer}
set spam-bal-table {integer}
set spam-mheader-table {integer}
set spam-rbl-table {integer}
set spam-iptrust-table {integer}

```

next
end

config emailfilter profile

Parameter	Description	Type	Size	Default						
name	Profile name.	string	Maximum length: 35							
comment	Comment.	var-string	Maximum length: 255							
replacemsg-group	Replacement message group.	string	Maximum length: 35							
spam-log	Enable/disable spam logging for email filtering.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable spam logging for email filtering.</td></tr><tr><td><i>enable</i></td><td>Enable spam logging for email filtering.</td></tr></table>	Option	Description	<i>disable</i>	Disable spam logging for email filtering.	<i>enable</i>	Enable spam logging for email filtering.			
Option	Description									
<i>disable</i>	Disable spam logging for email filtering.									
<i>enable</i>	Enable spam logging for email filtering.									
spam-log-fortiguard-response	Enable/disable logging FortiGuard spam response.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable logging FortiGuard spam response.</td></tr><tr><td><i>enable</i></td><td>Enable logging FortiGuard spam response.</td></tr></table>	Option	Description	<i>disable</i>	Disable logging FortiGuard spam response.	<i>enable</i>	Enable logging FortiGuard spam response.			
Option	Description									
<i>disable</i>	Disable logging FortiGuard spam response.									
<i>enable</i>	Enable logging FortiGuard spam response.									
spam-filtering	Enable/disable spam filtering.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									
external	Enable/disable external Email inspection.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									
options	Options.	option	-							

Parameter	Description	Type	Size	Default																								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>bannedword</i></td><td>Content block.</td></tr><tr><td><i>spambal</i></td><td>Block/allow list.</td></tr><tr><td><i>spamfsip</i></td><td>Email IP address FortiGuard AntiSpam block list check.</td></tr><tr><td><i>spamfssubmit</i></td><td>Add FortiGuard AntiSpam spam submission text.</td></tr><tr><td><i>spamfschksum</i></td><td>Email checksum FortiGuard AntiSpam check.</td></tr><tr><td><i>spamfsurl</i></td><td>Email content URL FortiGuard AntiSpam check.</td></tr><tr><td><i>spamhelodns</i></td><td>Email helo/ehlo domain DNS check.</td></tr><tr><td><i>spamraddrdns</i></td><td>Email return address DNS check.</td></tr><tr><td><i>spamrbl</i></td><td>Email DNSBL & ORBL check.</td></tr><tr><td><i>spamhdrcheck</i></td><td>Email mime header check.</td></tr><tr><td><i>spamfsphish</i></td><td>Email content phishing URL FortiGuard AntiSpam check.</td></tr></table>	Option	Description	<i>bannedword</i>	Content block.	<i>spambal</i>	Block/allow list.	<i>spamfsip</i>	Email IP address FortiGuard AntiSpam block list check.	<i>spamfssubmit</i>	Add FortiGuard AntiSpam spam submission text.	<i>spamfschksum</i>	Email checksum FortiGuard AntiSpam check.	<i>spamfsurl</i>	Email content URL FortiGuard AntiSpam check.	<i>spamhelodns</i>	Email helo/ehlo domain DNS check.	<i>spamraddrdns</i>	Email return address DNS check.	<i>spamrbl</i>	Email DNSBL & ORBL check.	<i>spamhdrcheck</i>	Email mime header check.	<i>spamfsphish</i>	Email content phishing URL FortiGuard AntiSpam check.			
	Option	Description																										
	<i>bannedword</i>	Content block.																										
	<i>spambal</i>	Block/allow list.																										
	<i>spamfsip</i>	Email IP address FortiGuard AntiSpam block list check.																										
	<i>spamfssubmit</i>	Add FortiGuard AntiSpam spam submission text.																										
	<i>spamfschksum</i>	Email checksum FortiGuard AntiSpam check.																										
	<i>spamfsurl</i>	Email content URL FortiGuard AntiSpam check.																										
	<i>spamhelodns</i>	Email helo/ehlo domain DNS check.																										
	<i>spamraddrdns</i>	Email return address DNS check.																										
	<i>spamrbl</i>	Email DNSBL & ORBL check.																										
	<i>spamhdrcheck</i>	Email mime header check.																										
<i>spamfsphish</i>	Email content phishing URL FortiGuard AntiSpam check.																											
spam-bword-threshold	Spam banned word threshold.	integer	Minimum value: 0 Maximum value: 2147483647	10																								
spam-bword-table	Anti-spam banned word table ID.	integer	Minimum value: 0 Maximum value: 4294967295	0																								
spam-bal-table	Anti-spam block/allow list table ID.	integer	Minimum value: 0 Maximum value: 4294967295	0																								
spam-mheader-table	Anti-spam MIME header table ID.	integer	Minimum value: 0 Maximum value: 4294967295	0																								
spam-rbl-table	Anti-spam DNSBL table ID.	integer	Minimum value: 0 Maximum value: 4294967295	0																								

Parameter	Description	Type	Size	Default
spam-iptrust-table	Anti-spam IP trust table ID.	integer	Minimum value: 0 Maximum value: 4294967295	0

config imap

Parameter	Description	Type	Size	Default								
log-all	Enable/disable logging of all email traffic.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable logging of all email traffic.</td></tr><tr><td><i>enable</i></td><td>Enable logging of all email traffic.</td></tr></table>	Option	Description	<i>disable</i>	Disable logging of all email traffic.	<i>enable</i>	Enable logging of all email traffic.					
Option	Description											
<i>disable</i>	Disable logging of all email traffic.											
<i>enable</i>	Enable logging of all email traffic.											
action	Action for spam email.	option	-	tag								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>pass</i></td><td>Allow spam email to pass through.</td></tr><tr><td><i>tag</i></td><td>Tag spam email with configured text in subject or header.</td></tr></table>	Option	Description	<i>pass</i>	Allow spam email to pass through.	<i>tag</i>	Tag spam email with configured text in subject or header.					
Option	Description											
<i>pass</i>	Allow spam email to pass through.											
<i>tag</i>	Tag spam email with configured text in subject or header.											
tag-type	Tag subject or header for spam email.	option	-	subject spaminfo								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>subject</i></td><td>Prepend text to spam email subject.</td></tr><tr><td><i>header</i></td><td>Append a user defined mime header to spam email.</td></tr><tr><td><i>spaminfo</i></td><td>Append spam info to spam email header.</td></tr></table>	Option	Description	<i>subject</i>	Prepend text to spam email subject.	<i>header</i>	Append a user defined mime header to spam email.	<i>spaminfo</i>	Append spam info to spam email header.			
Option	Description											
<i>subject</i>	Prepend text to spam email subject.											
<i>header</i>	Append a user defined mime header to spam email.											
<i>spaminfo</i>	Append spam info to spam email header.											
tag-msg	Subject text or header added to spam email.	string	Maximum length: 63	Spam								

config pop3

Parameter	Description	Type	Size	Default						
log-all	Enable/disable logging of all email traffic.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable logging of all email traffic.</td></tr><tr><td><i>enable</i></td><td>Enable logging of all email traffic.</td></tr></table>				Option	Description	<i>disable</i>	Disable logging of all email traffic.	<i>enable</i>	Enable logging of all email traffic.
Option	Description									
<i>disable</i>	Disable logging of all email traffic.									
<i>enable</i>	Enable logging of all email traffic.									

Parameter	Description	Type	Size	Default
action	Action for spam email.	option	-	tag
	Option	Description		
	<i>pass</i>	Allow spam email to pass through.		
	<i>tag</i>	Tag spam email with configured text in subject or header.		
tag-type	Tag subject or header for spam email.	option	-	subject spaminfo
	Option	Description		
	<i>subject</i>	Prepend text to spam email subject.		
	<i>header</i>	Append a user defined mime header to spam email.		
	<i>spaminfo</i>	Append spam info to spam email header.		
tag-msg	Subject text or header added to spam email.	string	Maximum length: 63	Spam

config smtp

Parameter	Description	Type	Size	Default
log-all	Enable/disable logging of all email traffic.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable logging of all email traffic.		
	<i>enable</i>	Enable logging of all email traffic.		
action	Action for spam email.	option	-	discard
	Option	Description		
	<i>pass</i>	Allow spam email to pass through.		
	<i>tag</i>	Tag spam email with configured text in subject or header.		
	<i>discard</i>	Discard (block) spam email.		
tag-type	Tag subject or header for spam email.	option	-	subject spaminfo
	Option	Description		
	<i>subject</i>	Prepend text to spam email subject.		
	<i>header</i>	Append a user defined mime header to spam email.		
	<i>spaminfo</i>	Append spam info to spam email header.		

Parameter	Description	Type	Size	Default						
tag-msg	Subject text or header added to spam email.	string	Maximum length: 63	Spam						
hdrip	Enable/disable SMTP email header IP checks for spamfsip, spamrbl, and spambal filters.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable SMTP email header IP checks for spamfsip, spamrbl, and spambal filters.</td></tr><tr><td><i>enable</i></td><td>Enable SMTP email header IP checks for spamfsip, spamrbl, and spambal filters.</td></tr></table>				Option	Description	<i>disable</i>	Disable SMTP email header IP checks for spamfsip, spamrbl, and spambal filters.	<i>enable</i>	Enable SMTP email header IP checks for spamfsip, spamrbl, and spambal filters.
	Option	Description								
	<i>disable</i>	Disable SMTP email header IP checks for spamfsip, spamrbl, and spambal filters.								
<i>enable</i>	Enable SMTP email header IP checks for spamfsip, spamrbl, and spambal filters.									
local-override	Enable/disable local filter to override SMTP remote check result.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable local filter to override SMTP remote check result.</td></tr><tr><td><i>enable</i></td><td>Enable local filter to override SMTP remote check result.</td></tr></table>				Option	Description	<i>disable</i>	Disable local filter to override SMTP remote check result.	<i>enable</i>	Enable local filter to override SMTP remote check result.
	Option	Description								
	<i>disable</i>	Disable local filter to override SMTP remote check result.								
<i>enable</i>	Enable local filter to override SMTP remote check result.									

config mapi

Parameter	Description	Type	Size	Default						
log-all	Enable/disable logging of all email traffic.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable logging of all email traffic.</td></tr><tr><td><i>enable</i></td><td>Enable logging of all email traffic.</td></tr></table>	Option	Description	<i>disable</i>	Disable logging of all email traffic.	<i>enable</i>	Enable logging of all email traffic.			
Option	Description									
<i>disable</i>	Disable logging of all email traffic.									
<i>enable</i>	Enable logging of all email traffic.									
action	Action for spam email.	option	-	pass						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>pass</i></td><td>Allow spam email to pass through.</td></tr><tr><td><i>discard</i></td><td>Discard (block) spam email.</td></tr></table>	Option	Description	<i>pass</i>	Allow spam email to pass through.	<i>discard</i>	Discard (block) spam email.			
Option	Description									
<i>pass</i>	Allow spam email to pass through.									
<i>discard</i>	Discard (block) spam email.									

config msn-hotmail

Parameter	Description	Type	Size	Default
log-all	Enable/disable logging of all email traffic.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable logging of all email traffic.		
	<i>enable</i>	Enable logging of all email traffic.		

config yahoo-mail

Parameter	Description	Type	Size	Default
log-all	Enable/disable logging of all email traffic.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable logging of all email traffic.		
	<i>enable</i>	Enable logging of all email traffic.		

config gmail

Parameter	Description	Type	Size	Default
log-all	Enable/disable logging of all email traffic.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable logging of all email traffic.		
	<i>enable</i>	Enable logging of all email traffic.		

config other-webmails

Parameter	Description	Type	Size	Default
log-all	Enable/disable logging of all email traffic.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable logging of all email traffic.		
	<i>enable</i>	Enable logging of all email traffic.		

endpoint-control

This section includes syntax for the following commands:

- [config endpoint-control fctems-override on page 216](#)
- [config endpoint-control fctems on page 212](#)
- [config endpoint-control settings on page 221](#)

config endpoint-control fctems

Configure FortiClient Enterprise Management Server (EMS) entries.

```
config endpoint-control fctems
    Description: Configure FortiClient Enterprise Management Server (EMS) entries.
    edit <ems-id>
        set status [enable|disable]
        set name {string}
        set dirty-reason [none|mismatched-ems-sn]
        set fortinetone-cloud-authentication [enable|disable]
        set cloud-authentication-access-key {string}
        set server {string}
        set https-port {integer}
        set serial-number {string}
        set tenant-id {string}
        set source-ip {ipv4-address-any}
        set pull-sysinfo [enable|disable]
        set pull-vulnerabilities [enable|disable]
        set pull-avatars [enable|disable]
        set pull-tags [enable|disable]
        set pull-malware-hash [enable|disable]
        set capabilities {option1}, {option2}, ...
        set call-timeout {integer}
        set out-of-sync-threshold {integer}
        set send-tags-to-all-vdoms [enable|disable]
        set websocket-override [enable|disable]
        set preserve-ssl-session [enable|disable]
        set interface-select-method [auto|specify]
        set interface {string}
        set trust-ca-cn [enable|disable]
        set verifying-ca {string}
    next
end
```


config endpoint-control fctems

Parameter	Description	Type	Size	Default						
ems-id	EMS ID in order (1 - 7).	integer	Minimum value: 1 Maximum value: 7	0						
status	Enable or disable this EMS configuration.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable EMS configuration and operation.</td></tr><tr><td><i>disable</i></td><td>Disable EMS configuration and operation.</td></tr></table>	Option	Description	<i>enable</i>	Enable EMS configuration and operation.	<i>disable</i>	Disable EMS configuration and operation.			
Option	Description									
<i>enable</i>	Enable EMS configuration and operation.									
<i>disable</i>	Disable EMS configuration and operation.									
name	FortiClient Enterprise Management Server (EMS) name.	string	Maximum length: 35							
dirty-reason	Dirty Reason for FortiClient EMS.	option	-	none						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>none</i></td><td>FortiClient EMS entry not dirty.</td></tr><tr><td><i>mismatched-ems-sn</i></td><td>FortiClient EMS entry dirty because EMS SN is mismatched with configured SN.</td></tr></table>	Option	Description	<i>none</i>	FortiClient EMS entry not dirty.	<i>mismatched-ems-sn</i>	FortiClient EMS entry dirty because EMS SN is mismatched with configured SN.			
Option	Description									
<i>none</i>	FortiClient EMS entry not dirty.									
<i>mismatched-ems-sn</i>	FortiClient EMS entry dirty because EMS SN is mismatched with configured SN.									
fortinetone-cloud-authentication	Enable/disable authentication of FortiClient EMS Cloud through FortiCloud account.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable authentication of FortiClient EMS Cloud through FortiCloud account.</td></tr><tr><td><i>disable</i></td><td>Disable authentication of FortiClient EMS Cloud through FortiCloud account.</td></tr></table>	Option	Description	<i>enable</i>	Enable authentication of FortiClient EMS Cloud through FortiCloud account.	<i>disable</i>	Disable authentication of FortiClient EMS Cloud through FortiCloud account.			
Option	Description									
<i>enable</i>	Enable authentication of FortiClient EMS Cloud through FortiCloud account.									
<i>disable</i>	Disable authentication of FortiClient EMS Cloud through FortiCloud account.									
cloud-authentication-access-key	FortiClient EMS Cloud multitenancy access key	string	Maximum length: 20							
server	FortiClient EMS FQDN or IPv4 address.	string	Maximum length: 255							
https-port	FortiClient EMS HTTPS access port number. (1 - 65535, default: 443).	integer	Minimum value: 1 Maximum value: 65535	443						

Parameter	Description	Type	Size	Default						
serial-number	EMS Serial Number.	string	Maximum length: 16							
tenant-id	EMS Tenant ID.	string	Maximum length: 32							
source-ip	REST API call source IP.	ipv4-address-any	Not Specified	0.0.0.0						
pull-sysinfo	Enable/disable pulling SysInfo from EMS.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable pulling FortiClient user SysInfo from EMS.</td></tr><tr><td><i>disable</i></td><td>Disable pulling FortiClient user SysInfo from EMS.</td></tr></table>	Option	Description	<i>enable</i>	Enable pulling FortiClient user SysInfo from EMS.	<i>disable</i>	Disable pulling FortiClient user SysInfo from EMS.			
Option	Description									
<i>enable</i>	Enable pulling FortiClient user SysInfo from EMS.									
<i>disable</i>	Disable pulling FortiClient user SysInfo from EMS.									
pull-vulnerabilities	Enable/disable pulling vulnerabilities from EMS.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable pulling client vulnerabilities from EMS.</td></tr><tr><td><i>disable</i></td><td>Disable pulling client vulnerabilities from EMS.</td></tr></table>	Option	Description	<i>enable</i>	Enable pulling client vulnerabilities from EMS.	<i>disable</i>	Disable pulling client vulnerabilities from EMS.			
Option	Description									
<i>enable</i>	Enable pulling client vulnerabilities from EMS.									
<i>disable</i>	Disable pulling client vulnerabilities from EMS.									
pull-avatars	Enable/disable pulling avatars from EMS.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable pulling FortiClient user avatars from EMS.</td></tr><tr><td><i>disable</i></td><td>Disable pulling FortiClient user avatars from EMS.</td></tr></table>	Option	Description	<i>enable</i>	Enable pulling FortiClient user avatars from EMS.	<i>disable</i>	Disable pulling FortiClient user avatars from EMS.			
Option	Description									
<i>enable</i>	Enable pulling FortiClient user avatars from EMS.									
<i>disable</i>	Disable pulling FortiClient user avatars from EMS.									
pull-tags	Enable/disable pulling FortiClient user tags from EMS.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable pulling FortiClient user tags from EMS.</td></tr><tr><td><i>disable</i></td><td>Disable pulling FortiClient user tags from EMS.</td></tr></table>	Option	Description	<i>enable</i>	Enable pulling FortiClient user tags from EMS.	<i>disable</i>	Disable pulling FortiClient user tags from EMS.			
Option	Description									
<i>enable</i>	Enable pulling FortiClient user tags from EMS.									
<i>disable</i>	Disable pulling FortiClient user tags from EMS.									
pull-malware-hash	Enable/disable pulling FortiClient malware hash from EMS.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable pulling FortiClient malware hash from EMS.</td></tr><tr><td><i>disable</i></td><td>Disable pulling FortiClient malware hash from EMS.</td></tr></table>	Option	Description	<i>enable</i>	Enable pulling FortiClient malware hash from EMS.	<i>disable</i>	Disable pulling FortiClient malware hash from EMS.			
Option	Description									
<i>enable</i>	Enable pulling FortiClient malware hash from EMS.									
<i>disable</i>	Disable pulling FortiClient malware hash from EMS.									

Parameter	Description	Type	Size	Default																								
capabilities	List of EMS capabilities.	option	-																									
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>fabric-auth</i></td><td>Allow this FortiProxy unit to load the authentication page provided by EMS to authenticate itself with EMS.</td></tr><tr><td><i>silent-approval</i></td><td>Allow silent approval of non-root or FortiProxy HA clusters on EMS in the Security Fabric.</td></tr><tr><td><i>websocket</i></td><td>Enable/disable websockets for this FortiProxy unit. Override behavior using websocket-override.</td></tr><tr><td><i>websocket-malware</i></td><td>Allow this FortiGate unit to request malware hash notifications over websocket.</td></tr><tr><td><i>push-ca-certs</i></td><td>Enable/disable syncing deep inspection certificates with EMS.</td></tr><tr><td><i>common-tags-api</i></td><td>Can receive tag information from New Common Tags API from EMS.</td></tr><tr><td><i>tenant-id</i></td><td>Allow this FortiGate to retrieve Tenant-ID from EMS.</td></tr><tr><td><i>client-avatars</i></td><td>Allow this FortiGate to retrieve avatars from EMS by fingerprint.</td></tr><tr><td><i>single-vdom-connector</i></td><td>Allow this FortiGate to create a vdom connector to EMS.</td></tr><tr><td><i>fgt-sysinfo-api</i></td><td>Allow this FortiGate to send additional info to EMS.</td></tr><tr><td><i>ztna-server-info</i></td><td>Allow this FortiGate to send vdom's ZTNA server information to EMS.</td></tr></table>	Option	Description	<i>fabric-auth</i>	Allow this FortiProxy unit to load the authentication page provided by EMS to authenticate itself with EMS.	<i>silent-approval</i>	Allow silent approval of non-root or FortiProxy HA clusters on EMS in the Security Fabric.	<i>websocket</i>	Enable/disable websockets for this FortiProxy unit. Override behavior using websocket-override.	<i>websocket-malware</i>	Allow this FortiGate unit to request malware hash notifications over websocket.	<i>push-ca-certs</i>	Enable/disable syncing deep inspection certificates with EMS.	<i>common-tags-api</i>	Can receive tag information from New Common Tags API from EMS.	<i>tenant-id</i>	Allow this FortiGate to retrieve Tenant-ID from EMS.	<i>client-avatars</i>	Allow this FortiGate to retrieve avatars from EMS by fingerprint.	<i>single-vdom-connector</i>	Allow this FortiGate to create a vdom connector to EMS.	<i>fgt-sysinfo-api</i>	Allow this FortiGate to send additional info to EMS.	<i>ztna-server-info</i>	Allow this FortiGate to send vdom's ZTNA server information to EMS.			
	Option	Description																										
	<i>fabric-auth</i>	Allow this FortiProxy unit to load the authentication page provided by EMS to authenticate itself with EMS.																										
	<i>silent-approval</i>	Allow silent approval of non-root or FortiProxy HA clusters on EMS in the Security Fabric.																										
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<i>ztna-server-info</i>	Allow this FortiGate to send vdom's ZTNA server information to EMS.																											
call-timeout	FortiClient EMS call timeout in seconds (1 - 180 seconds, default = 30).	integer	Minimum value: 1 Maximum value: 180	30																								
out-of-sync-threshold	Outdated resource threshold in seconds (10 - 3600, default = 180).	integer	Minimum value: 10 Maximum value: 3600	180																								
send-tags-to-all-vdoms	Relax restrictions on tags to send all EMS tags to all VDOMs	option	-	disable																								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable sending tags to all vdoms.</td></tr><tr><td><i>disable</i></td><td>Disable sending tags to all vdoms.</td></tr></table>	Option	Description	<i>enable</i>	Enable sending tags to all vdoms.	<i>disable</i>	Disable sending tags to all vdoms.																					
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websocket-override	Enable/disable override behavior for how this FortiProxy unit connects to EMS using a WebSocket connection.	option	-	disable																								

Parameter	Description	Type	Size	Default						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Do not override the WebSocket connection. Connect to WebSocket of this EMS server if it is capable (default).</td></tr><tr><td><i>disable</i></td><td>Override the WebSocket connection. Do not connect to WebSocket even if EMS is capable of a WebSocket connection.</td></tr></table>	Option	Description	<i>enable</i>	Do not override the WebSocket connection. Connect to WebSocket of this EMS server if it is capable (default).	<i>disable</i>	Override the WebSocket connection. Do not connect to WebSocket even if EMS is capable of a WebSocket connection.			
	Option	Description								
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<i>disable</i>	Override the WebSocket connection. Do not connect to WebSocket even if EMS is capable of a WebSocket connection.									
preserve-ssl-session	Enable/disable preservation of EMS SSL session connection. Warning, most users should not touch this setting.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Allow preservation of EMS SSL session connection.</td></tr><tr><td><i>disable</i></td><td>Don't allow preservation of EMS SSL session connection.</td></tr></table>	Option	Description	<i>enable</i>	Allow preservation of EMS SSL session connection.	<i>disable</i>	Don't allow preservation of EMS SSL session connection.			
	Option	Description								
	<i>enable</i>	Allow preservation of EMS SSL session connection.								
<i>disable</i>	Don't allow preservation of EMS SSL session connection.									
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>auto</i></td><td>Set outgoing interface automatically.</td></tr><tr><td><i>specify</i></td><td>Set outgoing interface manually.</td></tr></table>	Option	Description	<i>auto</i>	Set outgoing interface automatically.	<i>specify</i>	Set outgoing interface manually.			
	Option	Description								
	<i>auto</i>	Set outgoing interface automatically.								
<i>specify</i>	Set outgoing interface manually.									
interface	Specify outgoing interface to reach server.	string	Maximum length: 15							
trust-ca-cn	Enable/disable trust of the EMS certificate issuer(CA) and common name(CN) for certificate auto-renewal.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Trust EMS certificate CA & CN to automatically renew certificate.</td></tr><tr><td><i>disable</i></td><td>Do not trust EMS certificate CA & CN to automatically renew certificate.</td></tr></table>	Option	Description	<i>enable</i>	Trust EMS certificate CA & CN to automatically renew certificate.	<i>disable</i>	Do not trust EMS certificate CA & CN to automatically renew certificate.			
	Option	Description								
	<i>enable</i>	Trust EMS certificate CA & CN to automatically renew certificate.								
<i>disable</i>	Do not trust EMS certificate CA & CN to automatically renew certificate.									
verifying-ca	Lowest CA cert on Fortigate in verified EMS cert chain.	string	Maximum length: 79							

config endpoint-control fctems-override

Configure FortiClient Enterprise Management Server (EMS) entries.

```
config endpoint-control fctems-override
  Description: Configure FortiClient Enterprise Management Server (EMS) entries.
  edit <ems-id>
    set status [enable|disable]
    set name {string}
    set dirty-reason [none|mismatched-ems-sn]
```

```

set fortinetone-cloud-authentication [enable|disable]
set cloud-authentication-access-key {string}
set server {string}
set https-port {integer}
set serial-number {string}
set tenant-id {string}
set source-ip {ipv4-address-any}
set pull-sysinfo [enable|disable]
set pull-vulnerabilities [enable|disable]
set pull-avatars [enable|disable]
set pull-tags [enable|disable]
set pull-malware-hash [enable|disable]
set capabilities {option1}, {option2}, ...
set call-timeout {integer}
set out-of-sync-threshold {integer}
set send-tags-to-all-vdms [enable|disable]
set websocket-override [enable|disable]
set preserve-ssl-session [enable|disable]
set interface-select-method [auto|specify]
set interface {string}
set trust-ca-cn [enable|disable]
set verifying-ca {string}
next
end

```

config endpoint-control fctems-override

Parameter	Description	Type	Size	Default						
ems-id	EMS ID in order (1 - 7).	integer	Minimum value: 1 Maximum value: 7	0						
status	Enable or disable this EMS configuration.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable EMS configuration and operation.</td></tr><tr><td><i>disable</i></td><td>Disable EMS configuration and operation.</td></tr></table>				Option	Description	<i>enable</i>	Enable EMS configuration and operation.	<i>disable</i>	Disable EMS configuration and operation.
	Option	Description								
	<i>enable</i>	Enable EMS configuration and operation.								
<i>disable</i>	Disable EMS configuration and operation.									
name	FortiClient Enterprise Management Server (EMS) name.	string	Maximum length: 35							
dirty-reason	Dirty Reason for FortiClient EMS.	option	-	none						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>none</i></td><td>FortiClient EMS entry not dirty.</td></tr><tr><td><i>mismatched-ems-sn</i></td><td>FortiClient EMS entry dirty because EMS SN is mismatched with configured SN.</td></tr></table>				Option	Description	<i>none</i>	FortiClient EMS entry not dirty.	<i>mismatched-ems-sn</i>	FortiClient EMS entry dirty because EMS SN is mismatched with configured SN.
	Option	Description								
	<i>none</i>	FortiClient EMS entry not dirty.								
<i>mismatched-ems-sn</i>	FortiClient EMS entry dirty because EMS SN is mismatched with configured SN.									

Parameter	Description	Type	Size	Default						
fortinetone-cloud-authentication	Enable/disable authentication of FortiClient EMS Cloud through FortiCloud account.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable authentication of FortiClient EMS Cloud through FortiCloud account.</td></tr><tr><td><i>disable</i></td><td>Disable authentication of FortiClient EMS Cloud through FortiCloud account.</td></tr></table>	Option	Description	<i>enable</i>	Enable authentication of FortiClient EMS Cloud through FortiCloud account.	<i>disable</i>	Disable authentication of FortiClient EMS Cloud through FortiCloud account.			
Option	Description									
<i>enable</i>	Enable authentication of FortiClient EMS Cloud through FortiCloud account.									
<i>disable</i>	Disable authentication of FortiClient EMS Cloud through FortiCloud account.									
cloud-authentication-access-key	FortiClient EMS Cloud multitenancy access key	string	Maximum length: 20							
server	FortiClient EMS FQDN or IPv4 address.	string	Maximum length: 255							
https-port	FortiClient EMS HTTPS access port number. (1 - 65535, default: 443).	integer	Minimum value: 1 Maximum value: 65535	443						
serial-number	EMS Serial Number.	string	Maximum length: 16							
tenant-id	EMS Tenant ID.	string	Maximum length: 32							
source-ip	REST API call source IP.	ipv4-address-any	Not Specified	0.0.0.0						
pull-sysinfo	Enable/disable pulling SysInfo from EMS.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable pulling FortiClient user SysInfo from EMS.</td></tr><tr><td><i>disable</i></td><td>Disable pulling FortiClient user SysInfo from EMS.</td></tr></table>	Option	Description	<i>enable</i>	Enable pulling FortiClient user SysInfo from EMS.	<i>disable</i>	Disable pulling FortiClient user SysInfo from EMS.			
Option	Description									
<i>enable</i>	Enable pulling FortiClient user SysInfo from EMS.									
<i>disable</i>	Disable pulling FortiClient user SysInfo from EMS.									
pull-vulnerabilities	Enable/disable pulling vulnerabilities from EMS.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable pulling client vulnerabilities from EMS.</td></tr><tr><td><i>disable</i></td><td>Disable pulling client vulnerabilities from EMS.</td></tr></table>	Option	Description	<i>enable</i>	Enable pulling client vulnerabilities from EMS.	<i>disable</i>	Disable pulling client vulnerabilities from EMS.			
Option	Description									
<i>enable</i>	Enable pulling client vulnerabilities from EMS.									
<i>disable</i>	Disable pulling client vulnerabilities from EMS.									
pull-avatars	Enable/disable pulling avatars from EMS.	option	-	enable						

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable pulling FortiClient user avatars from EMS.		
	<i>disable</i>	Disable pulling FortiClient user avatars from EMS.		
pull-tags	Enable/disable pulling FortiClient user tags from EMS.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable pulling FortiClient user tags from EMS.		
	<i>disable</i>	Disable pulling FortiClient user tags from EMS.		
pull-malware-hash	Enable/disable pulling FortiClient malware hash from EMS.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable pulling FortiClient malware hash from EMS.		
	<i>disable</i>	Disable pulling FortiClient malware hash from EMS.		
capabilities	List of EMS capabilities.	option	-	
	Option	Description		
	<i>fabric-auth</i>	Allow this FortiProxy unit to load the authentication page provided by EMS to authenticate itself with EMS.		
	<i>silent-approval</i>	Allow silent approval of non-root or FortiProxy HA clusters on EMS in the Security Fabric.		
	<i>websocket</i>	Enable/disable websockets for this FortiProxy unit. Override behavior using websocket-override.		
	<i>websocket-malware</i>	Allow this FortiGate unit to request malware hash notifications over websocket.		
	<i>push-ca-certs</i>	Enable/disable syncing deep inspection certificates with EMS.		
	<i>common-tags-api</i>	Can receive tag information from New Common Tags API from EMS.		
	<i>tenant-id</i>	Allow this FortiGate to retrieve Tenant-ID from EMS.		
	<i>client-avatars</i>	Allow this FortiGate to retrieve avatars from EMS by fingerprint.		
	<i>single-vdom-connector</i>	Allow this FortiGate to create a vdom connector to EMS.		
	<i>fgt-sysinfo-api</i>	Allow this FortiGate to send additional info to EMS.		
	<i>ztna-server-info</i>	Allow this FortiGate to send vdom's ZTNA server information to EMS.		

Parameter	Description	Type	Size	Default						
call-timeout	FortiClient EMS call timeout in seconds (1 - 180 seconds, default = 30).	integer	Minimum value: 1 Maximum value: 180	30						
out-of-sync-threshold	Outdated resource threshold in seconds (10 - 3600, default = 180).	integer	Minimum value: 10 Maximum value: 3600	180						
send-tags-to-all-vdoms	Relax restrictions on tags to send all EMS tags to all VDOMs	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable sending tags to all vdoms.</td></tr><tr><td><i>disable</i></td><td>Disable sending tags to all vdoms.</td></tr></table>	Option	Description	<i>enable</i>	Enable sending tags to all vdoms.	<i>disable</i>	Disable sending tags to all vdoms.			
Option	Description									
<i>enable</i>	Enable sending tags to all vdoms.									
<i>disable</i>	Disable sending tags to all vdoms.									
websocket-override	Enable/disable override behavior for how this FortiProxy unit connects to EMS using a WebSocket connection.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Do not override the WebSocket connection. Connect to WebSocket of this EMS server if it is capable (default).</td></tr><tr><td><i>disable</i></td><td>Override the WebSocket connection. Do not connect to WebSocket even if EMS is capable of a WebSocket connection.</td></tr></table>	Option	Description	<i>enable</i>	Do not override the WebSocket connection. Connect to WebSocket of this EMS server if it is capable (default).	<i>disable</i>	Override the WebSocket connection. Do not connect to WebSocket even if EMS is capable of a WebSocket connection.			
Option	Description									
<i>enable</i>	Do not override the WebSocket connection. Connect to WebSocket of this EMS server if it is capable (default).									
<i>disable</i>	Override the WebSocket connection. Do not connect to WebSocket even if EMS is capable of a WebSocket connection.									
preserve-ssl-session	Enable/disable preservation of EMS SSL session connection. Warning, most users should not touch this setting.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Allow preservation of EMS SSL session connection.</td></tr><tr><td><i>disable</i></td><td>Don't allow preservation of EMS SSL session connection.</td></tr></table>	Option	Description	<i>enable</i>	Allow preservation of EMS SSL session connection.	<i>disable</i>	Don't allow preservation of EMS SSL session connection.			
Option	Description									
<i>enable</i>	Allow preservation of EMS SSL session connection.									
<i>disable</i>	Don't allow preservation of EMS SSL session connection.									
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>auto</i></td><td>Set outgoing interface automatically.</td></tr><tr><td><i>specify</i></td><td>Set outgoing interface manually.</td></tr></table>	Option	Description	<i>auto</i>	Set outgoing interface automatically.	<i>specify</i>	Set outgoing interface manually.			
Option	Description									
<i>auto</i>	Set outgoing interface automatically.									
<i>specify</i>	Set outgoing interface manually.									
interface	Specify outgoing interface to reach server.	string	Maximum length: 15							

Parameter	Description	Type	Size	Default
trust-ca-cn	Enable/disable trust of the EMS certificate issuer(CA) and common name(CN) for certificate auto-renewal.	option	-	enable
	Option	Description		
	enable	Trust EMS certificate CA & CN to automatically renew certificate.		
	disable	Do not trust EMS certificate CA & CN to automatically renew certificate.		
verifying-ca	Lowest CA cert on Fortigate in verified EMS cert chain.	string	Maximum length: 79	

config endpoint-control settings

Configure endpoint control settings.

```
config endpoint-control settings
    Description: Configure endpoint control settings.
    set override [enable|disable]
end
```

config endpoint-control settings

Parameter	Description	Type	Size	Default						
override	Override global EMS table for this VDOM.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable Overriding global EMS table.</td></tr><tr><td><i>disable</i></td><td>Disable Overriding global EMS table.</td></tr></table>				Option	Description	<i>enable</i>	Enable Overriding global EMS table.	<i>disable</i>	Disable Overriding global EMS table.
	Option	Description								
	<i>enable</i>	Enable Overriding global EMS table.								
<i>disable</i>	Disable Overriding global EMS table.									

file-filter

This section includes syntax for the following commands:

- [config file-filter profile on page 222](#)

config file-filter profile

Configure file-filter profiles.

```
config file-filter profile
  Description: Configure file-filter profiles.
  edit <name>
    set comment {var-string}
    set replacemsg-group {string}
    set log [disable|enable]
    set scan-archive-contents [disable|enable]
    config rules
      Description: File filter rules.
      edit <name>
        set comment {var-string}
        set protocol {option1}, {option2}, ...
        set action [log-only|block]
        set direction [incoming|outgoing|...]
        set password-protected [yes|any]
        set file-type <name1>, <name2>, ...
      next
    end
  next
end
```

config file-filter profile

Parameter	Description	Type	Size	Default
name	Profile name.	string	Maximum length: 35	
comment	Comment.	var-string	Maximum length: 255	
replacemsg-group	Replacement message group.	string	Maximum length: 35	
log	Enable/disable file-filter logging.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable logging.		
	<i>enable</i>	Enable logging.		
scan-archive-contents	Enable/disable archive contents scan.	option	-	enable
	Option	Description		
	<i>disable</i>	Disable scanning archive contents.		
	<i>enable</i>	Enable scanning archive contents.		

config rules

Parameter	Description	Type	Size	Default
name	File-filter rule name.	string	Maximum length: 35	
comment	Comment.	var-string	Maximum length: 255	
protocol	Protocols to apply rule to.	option	-	http ftp smtp imap pop3 mapi cifs ssh
	Option	Description		
	<i>http</i>	Filter on HTTP.		
	<i>ftp</i>	Filter on FTP.		
	<i>smtp</i>	Filter on SMTP.		
	<i>imap</i>	Filter on IMAP.		
	<i>pop3</i>	Filter on POP3.		
	<i>mapi</i>	Filter on MAPI. (Proxy mode only.)		
	<i>cifs</i>	Filter on CIFS.		
	<i>ssh</i>	Filter on SFTP and SCP. (Proxy mode only.)		
action	Action taken for matched file.	option	-	log-only
	Option	Description		
	<i>log-only</i>	Allow the content and write a log message.		

Parameter	Description	Type	Size	Default								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>block</i></td><td>Block the content and write a log message.</td></tr></table>	Option	Description	<i>block</i>	Block the content and write a log message.							
Option	Description											
<i>block</i>	Block the content and write a log message.											
direction	Traffic direction (HTTP, FTP, SSH, CIFS, and MAPI only).	option	-	any								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>incoming</i></td><td>Match files transmitted in the session's reply direction.</td></tr><tr><td><i>outgoing</i></td><td>Match files transmitted in the session's originating direction.</td></tr><tr><td><i>any</i></td><td>Match files transmitted in the session's originating and reply directions.</td></tr></table>	Option	Description	<i>incoming</i>	Match files transmitted in the session's reply direction.	<i>outgoing</i>	Match files transmitted in the session's originating direction.	<i>any</i>	Match files transmitted in the session's originating and reply directions.			
Option	Description											
<i>incoming</i>	Match files transmitted in the session's reply direction.											
<i>outgoing</i>	Match files transmitted in the session's originating direction.											
<i>any</i>	Match files transmitted in the session's originating and reply directions.											
password-protected	Match password-protected files.	option	-	any								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>yes</i></td><td>Match only password-protected files.</td></tr><tr><td><i>any</i></td><td>Match any file.</td></tr></table>	Option	Description	<i>yes</i>	Match only password-protected files.	<i>any</i>	Match any file.					
Option	Description											
<i>yes</i>	Match only password-protected files.											
<i>any</i>	Match any file.											
file-type <name>	Select file type. File type name.	string	Maximum length: 39									

firewall

This section includes syntax for the following commands:

- [config firewall access-proxy-ssh-client-cert on page 261](#)
- [config firewall access-proxy-virtual-host on page 263](#)
- [config firewall access-proxy on page 226](#)
- [config firewall access-proxy6 on page 260](#)
- [config firewall address on page 264](#)
- [config firewall address6-template on page 274](#)
- [config firewall address6 on page 270](#)
- [config firewall addrgrp on page 276](#)
- [config firewall addrgrp6 on page 278](#)
- [config firewall auth-portal on page 280](#)
- [config firewall central-snat-map on page 280](#)
- [config firewall city on page 282](#)
- [config firewall country on page 283](#)
- [config firewall decrypted-traffic-mirror on page 283](#)
- [config firewall global on page 284](#)
- [config firewall identity-based-route on page 285](#)
- [config firewall internet-service-addition on page 288](#)
- [config firewall internet-service-append on page 289](#)
- [config firewall internet-service-botnet on page 290](#)
- [config firewall internet-service-custom-group on page 293](#)
- [config firewall internet-service-custom on page 291](#)
- [config firewall internet-service-definition on page 293](#)
- [config firewall internet-service-extension on page 295](#)
- [config firewall internet-service-group on page 299](#)
- [config firewall internet-service-ipbl-reason on page 299](#)
- [config firewall internet-service-ipbl-vendor on page 300](#)
- [config firewall internet-service-list on page 300](#)
- [config firewall internet-service-name on page 301](#)
- [config firewall internet-service-owner on page 302](#)
- [config firewall internet-service-reputation on page 302](#)
- [config firewall internet-service-sld on page 303](#)
- [config firewall internet-service-subapp on page 303](#)
- [config firewall internet-service on page 286](#)
- [config firewall ippool on page 304](#)
- [config firewall ippool6 on page 305](#)
- [config firewall network-service-dynamic on page 306](#)

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- [config firewall on-demand-sniffer on page 306](#)
 - [config firewall policy on page 308](#)
 - [config firewall profile-group on page 321](#)
 - [config firewall profile-protocol-options on page 322](#)
 - [config firewall proxy-address on page 346](#)
 - [config firewall proxy-address6 on page 350](#)
 - [config firewall proxy-addgrp on page 355](#)
 - [config firewall proxy-addgrp6 on page 356](#)
 - [config firewall region on page 357](#)
 - [config firewall schedule group on page 358](#)
 - [config firewall schedule onetime on page 359](#)
 - [config firewall schedule recurring on page 360](#)
 - [config firewall service category on page 361](#)
 - [config firewall service custom on page 362](#)
 - [config firewall service group on page 365](#)
 - [config firewall shaper per-ip-shaper on page 366](#)
 - [config firewall shaper traffic-shaper on page 368](#)
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 - [config firewall shaping-profile on page 374](#)
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 - [config firewall ssh local-ca on page 379](#)
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config firewall access-proxy

Configure IPv4 access proxy.

```

config firewall access-proxy
    Description: Configure IPv4 access proxy.
    edit <name>
        set vip {string}
        set auth-portal [disable|enable]
        set auth-virtual-host {string}
        set log-blocked-traffic [enable|disable]
        set add-vhost-domain-to-dnsdb [enable|disable]
        set svr-pool-multiplex [enable|disable]
        set svr-pool-ttl {integer}
        set svr-pool-server-max-request {integer}
        set svr-pool-server-max-concurrent-request {integer}
        set decrypted-traffic-mirror {string}
    config api-gateway
        Description: Set IPv4 API Gateway.
        edit <id>
            set url-map {string}
            set service [http|https|...]
            set ldb-method [static|round-robin|...]
            set virtual-host {string}
            set url-map-type [sub-string|wildcard|...]
            set h2-support [enable|disable]
            set h3-support [enable|disable]
        config quic
            Description: QUIC setting.
            set max-idle-timeout {integer}
            set max-udp-payload-size {integer}
            set active-connection-id-limit {integer}
            set ack-delay-exponent {integer}
            set max-ack-delay {integer}
            set max-datagram-frame-size {integer}
            set active-migration [enable|disable]
            set grease-quic-bit [enable|disable]
        end
    config realservers
        Description: Select the real servers that this Access Proxy will
        distribute traffic to.
        edit <id>
            set addr-type [ip|fqdn]
            set address {string}
            set ip {ipv4-address-any}
            set domain {string}
            set port {integer}
            set mappedport {user}
            set status [active|standby|...]
            set type [tcp-forwarding|ssh]
            set external-auth [enable|disable]
            set tunnel-encryption [enable|disable]
            set weight {integer}
            set http-host {string}
            set health-check [disable|enable]
            set health-check-proto [ping|http|...]
            set holddown-interval [enable|disable]
            set translate-host [enable|disable]
            set ssh-client-cert {string}
            set ssh-host-key-validation [disable|enable]

```

```

        set ssh-host-key <name1>, <name2>, ...
        set verify-cert [enable|disable]
    next
end
set application <name1>, <name2>, ...
set persistence [none|http-cookie]
set http-cookie-domain-from-host [disable|enable]
set http-cookie-domain {string}
set http-cookie-path {string}
set http-cookie-generation {integer}
set http-cookie-age {integer}
set http-cookie-share [disable|same-ip]
set https-cookie-secure [disable|enable]
set saml-server {string}
set saml-redirect [disable|enable]
set ssl-dh-bits [768|1024|...]
set ssl-algorithm [high|medium|...]
config ssl-cipher-suites
    Description: SSL/TLS cipher suites to offer to a server, ordered by
priority.
    edit <priority>
        set cipher [TLS-AES-128-GCM-SHA256|TLS-AES-256-GCM-SHA384|...]
        set versions {option1}, {option2}, ...
    next
end
set ssl-min-version [tls-1.0|tls-1.1|...]
set ssl-max-version [tls-1.0|tls-1.1|...]
set ssl-renegotiation [enable|disable]
next
end
config api-gateway6
    Description: Set IPv6 API Gateway.
    edit <id>
        set url-map {string}
        set service [http|https|...]
        set ldb-method [static|round-robin|...]
        set virtual-host {string}
        set url-map-type [sub-string|wildcard|...]
        set h2-support [enable|disable]
        set h3-support [enable|disable]
        config quic
            Description: QUIC setting.
            set max-idle-timeout {integer}
            set max-udp-payload-size {integer}
            set active-connection-id-limit {integer}
            set ack-delay-exponent {integer}
            set max-ack-delay {integer}
            set max-datagram-frame-size {integer}
            set active-migration [enable|disable]
            set grease-quic-bit [enable|disable]
        end
    end
    config realservers
        Description: Select the real servers that this Access Proxy will
distribute traffic to.
        edit <id>
            set addr-type [ip|fqdn]

```



```

        set address {string}
        set ip {ipv6-address}
        set domain {string}
        set port {integer}
        set mappedport {user}
        set status [active|standby|...]
        set type [tcp-forwarding|ssh]
        set external-auth [enable|disable]
        set tunnel-encryption [enable|disable]
        set weight {integer}
        set http-host {string}
        set health-check [disable|enable]
        set health-check-proto [ping|http|...]
        set holddown-interval [enable|disable]
        set translate-host [enable|disable]
        set ssh-client-cert {string}
        set ssh-host-key-validation [disable|enable]
        set ssh-host-key <name1>, <name2>, ...
        set verify-cert [enable|disable]
    next
end
set application <name1>, <name2>, ...
set persistence [none|http-cookie]
set http-cookie-domain-from-host [disable|enable]
set http-cookie-domain {string}
set http-cookie-path {string}
set http-cookie-generation {integer}
set http-cookie-age {integer}
set http-cookie-share [disable|same-ip]
set https-cookie-secure [disable|enable]
set saml-server {string}
set saml-redirect [disable|enable]
set ssl-dh-bits [768|1024|...]
set ssl-algorithm [high|medium|...]
config ssl-cipher-suites
    Description: SSL/TLS cipher suites to offer to a server, ordered by
priority.
    edit <priority>
        set cipher [TLS-AES-128-GCM-SHA256|TLS-AES-256-GCM-SHA384|...]
        set versions {option1}, {option2}, ...
    next
end
set ssl-min-version [tls-1.0|tls-1.1|...]
set ssl-max-version [tls-1.0|tls-1.1|...]
set ssl-renegotiation [enable|disable]
next
end
next
end

```

config firewall access-proxy

Parameter	Description	Type	Size	Default						
name	Access Proxy name.	string	Maximum length: 79							
vip	Virtual IP name.	string	Maximum length: 79							
auth-portal	Enable/disable authentication portal.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable authentication portal.</td></tr><tr><td><i>enable</i></td><td>Enable authentication portal.</td></tr></table>	Option	Description	<i>disable</i>	Disable authentication portal.	<i>enable</i>	Enable authentication portal.			
Option	Description									
<i>disable</i>	Disable authentication portal.									
<i>enable</i>	Enable authentication portal.									
auth-virtual-host	Virtual host for authentication portal.	string	Maximum length: 79							
log-blocked-traffic	Enable/disable logging of blocked traffic.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Log all traffic denied by this access proxy.</td></tr><tr><td><i>disable</i></td><td>Do not log all traffic denied by this access proxy.</td></tr></table>	Option	Description	<i>enable</i>	Log all traffic denied by this access proxy.	<i>disable</i>	Do not log all traffic denied by this access proxy.			
Option	Description									
<i>enable</i>	Log all traffic denied by this access proxy.									
<i>disable</i>	Do not log all traffic denied by this access proxy.									
add-vhost-domain-to-dnsdb	Enable/disable adding vhost/domain to dnsdb for ztna dox tunnel.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>add dns entry for all vhosts used by access proxy.</td></tr><tr><td><i>disable</i></td><td>Do not add dns entry for all vhosts used by access proxy.</td></tr></table>	Option	Description	<i>enable</i>	add dns entry for all vhosts used by access proxy.	<i>disable</i>	Do not add dns entry for all vhosts used by access proxy.			
Option	Description									
<i>enable</i>	add dns entry for all vhosts used by access proxy.									
<i>disable</i>	Do not add dns entry for all vhosts used by access proxy.									
svr-pool-multiplex	Enable/disable server pool multiplexing. Share connected server in HTTP, HTTPS, and web-portal api-gateway.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable server pool multiplexing. Share connected server.</td></tr><tr><td><i>disable</i></td><td>Disable server pool multiplexing. Do not share connected server.</td></tr></table>	Option	Description	<i>enable</i>	Enable server pool multiplexing. Share connected server.	<i>disable</i>	Disable server pool multiplexing. Do not share connected server.			
Option	Description									
<i>enable</i>	Enable server pool multiplexing. Share connected server.									
<i>disable</i>	Disable server pool multiplexing. Do not share connected server.									

Parameter	Description	Type	Size	Default
svr-pool-ttl	Time-to-live in the server pool for idle connections to servers.	integer	Minimum value: 0 Maximum value: 2147483647	15
svr-pool-server-max-request	Maximum number of requests that servers in server pool handle before disconnecting (default = unlimited).	integer	Minimum value: 0 Maximum value: 2147483647	0
svr-pool-server-max-concurrent-request	Maximum number of concurrent requests that servers in server pool could handle (default = unlimited).	integer	Minimum value: 0 Maximum value: 2147483647	0
decrypted-traffic-mirror	Decrypted traffic mirror.	string	Maximum length: 35	

config api-gateway

Parameter	Description	Type	Size	Default
id	API Gateway ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
url-map	URL pattern to match.	string	Maximum length: 511	/
service	Service.	option	-	https
	OptionDescription			
	http	HTTP.		
	https	HTTPS.		
	tcp-forwarding	TCP-FORWARDING.		
	samlsp	SAML-SP.		
	saas	SAAS.		
ldb-method	Method used to distribute sessions to real servers.	option	-	static

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>static</i>	Distribute to server based on source IP.		
	<i>round-robin</i>	Distribute to server based round robin order.		
	<i>weighted</i>	Distribute to server based on weight.		
	<i>first-alive</i>	Distribute to the first server that is alive.		
	<i>http-host</i>	Distribute to server based on host field in HTTP header.		
virtual-host	Virtual host.	string	Maximum length: 79	
url-map-type	Type of url-map.	option	-	sub-string
	Option	Description		
	<i>sub-string</i>	Match the pattern if a string contains the sub-string.		
	<i>wildcard</i>	Match the pattern with wildcards.		
	<i>regex</i>	Match the pattern with a regular expression.		
h2-support	HTTP2 support, default=Enable.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable HTTP2 support.		
	<i>disable</i>	Disable HTTP2 support.		
h3-support	HTTP3/QUIC support, default=Disable.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable HTTP3/QUIC support.		
	<i>disable</i>	Disable HTTP3/QUIC support.		
application <name>	SaaS application controlled by this Access Proxy. SaaS application name.	string	Maximum length: 79	
persistence	Configure how to make sure that clients connect to the same server every time they make a request that is part of the same session.	option	-	none
	Option	Description		
	<i>none</i>	None.		
	<i>http-cookie</i>	HTTP cookie.		

Parameter	Description	Type	Size	Default
http-cookie-domain-from-host	Enable/disable use of HTTP cookie domain from host field in HTTP.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable use of HTTP cookie domain from host field in HTTP (use http-cookies-domain setting).		
	<i>enable</i>	Enable use of HTTP cookie domain from host field in HTTP.		
http-cookie-domain	Domain that HTTP cookie persistence should apply to.	string	Maximum length: 35	
http-cookie-path	Limit HTTP cookie persistence to the specified path.	string	Maximum length: 35	
http-cookie-generation	Generation of HTTP cookie to be accepted. Changing invalidates all existing cookies.	integer	Minimum value: 0 Maximum value: 4294967295	0
http-cookie-age	Time in minutes that client web browsers should keep a cookie. Default is 60 minutes. 0 = no time limit.	integer	Minimum value: 0 Maximum value: 525600	60
http-cookie-share	Control sharing of cookies across API Gateway. Use of same-ip means a cookie from one virtual server can be used by another. Disable stops cookie sharing.	option	-	same-ip
	Option	Description		
	<i>disable</i>	Only allow HTTP cookie to match this API Gateway.		
	<i>same-ip</i>	Allow HTTP cookie to match any API Gateway with same IP.		
https-cookie-secure	Enable/disable verification that inserted HTTPS cookies are secure.	option	-	disable
	Option	Description		
	<i>disable</i>	Do not mark cookie as secure, allow sharing between an HTTP and HTTPS connection.		
	<i>enable</i>	Mark inserted cookie as secure, cookie can only be used for HTTPS a connection.		
saml-server	SAML service provider configuration for VIP authentication.	string	Maximum length: 35	

Parameter	Description	Type	Size	Default														
saml-redirect	Enable/disable SAML redirection after successful authentication.	option	-	enable														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Do not support redirection after successful SAML authentication.</td></tr><tr><td><i>enable</i></td><td>Support redirection after successful SAML authentication.</td></tr></table>	Option	Description	<i>disable</i>	Do not support redirection after successful SAML authentication.	<i>enable</i>	Support redirection after successful SAML authentication.											
Option	Description																	
<i>disable</i>	Do not support redirection after successful SAML authentication.																	
<i>enable</i>	Support redirection after successful SAML authentication.																	
ssl-dh-bits	Number of bits to use in the Diffie-Hellman exchange for RSA encryption of SSL sessions.	option	-	2048														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>768</i></td><td>768-bit Diffie-Hellman prime.</td></tr><tr><td><i>1024</i></td><td>1024-bit Diffie-Hellman prime.</td></tr><tr><td><i>1536</i></td><td>1536-bit Diffie-Hellman prime.</td></tr><tr><td><i>2048</i></td><td>2048-bit Diffie-Hellman prime.</td></tr><tr><td><i>3072</i></td><td>3072-bit Diffie-Hellman prime.</td></tr><tr><td><i>4096</i></td><td>4096-bit Diffie-Hellman prime.</td></tr></table>	Option	Description	<i>768</i>	768-bit Diffie-Hellman prime.	<i>1024</i>	1024-bit Diffie-Hellman prime.	<i>1536</i>	1536-bit Diffie-Hellman prime.	<i>2048</i>	2048-bit Diffie-Hellman prime.	<i>3072</i>	3072-bit Diffie-Hellman prime.	<i>4096</i>	4096-bit Diffie-Hellman prime.			
Option	Description																	
<i>768</i>	768-bit Diffie-Hellman prime.																	
<i>1024</i>	1024-bit Diffie-Hellman prime.																	
<i>1536</i>	1536-bit Diffie-Hellman prime.																	
<i>2048</i>	2048-bit Diffie-Hellman prime.																	
<i>3072</i>	3072-bit Diffie-Hellman prime.																	
<i>4096</i>	4096-bit Diffie-Hellman prime.																	
ssl-algorithm	Permitted encryption algorithms for the server side of SSL full mode sessions according to encryption strength.	option	-	high														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>high</i></td><td>High encryption. Allow only AES and ChaCha.</td></tr><tr><td><i>medium</i></td><td>Medium encryption. Allow AES, ChaCha, 3DES, and RC4.</td></tr><tr><td><i>low</i></td><td>Low encryption. Allow AES, ChaCha, 3DES, RC4, and DES.</td></tr></table>	Option	Description	<i>high</i>	High encryption. Allow only AES and ChaCha.	<i>medium</i>	Medium encryption. Allow AES, ChaCha, 3DES, and RC4.	<i>low</i>	Low encryption. Allow AES, ChaCha, 3DES, RC4, and DES.									
Option	Description																	
<i>high</i>	High encryption. Allow only AES and ChaCha.																	
<i>medium</i>	Medium encryption. Allow AES, ChaCha, 3DES, and RC4.																	
<i>low</i>	Low encryption. Allow AES, ChaCha, 3DES, RC4, and DES.																	
ssl-min-version	Lowest SSL/TLS version acceptable from a server.	option	-	tls-1.1														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>tls-1.0</i></td><td>TLS 1.0.</td></tr><tr><td><i>tls-1.1</i></td><td>TLS 1.1.</td></tr><tr><td><i>tls-1.2</i></td><td>TLS 1.2.</td></tr><tr><td><i>tls-1.3</i></td><td>TLS 1.3.</td></tr></table>	Option	Description	<i>tls-1.0</i>	TLS 1.0.	<i>tls-1.1</i>	TLS 1.1.	<i>tls-1.2</i>	TLS 1.2.	<i>tls-1.3</i>	TLS 1.3.							
Option	Description																	
<i>tls-1.0</i>	TLS 1.0.																	
<i>tls-1.1</i>	TLS 1.1.																	
<i>tls-1.2</i>	TLS 1.2.																	
<i>tls-1.3</i>	TLS 1.3.																	
ssl-max-version	Highest SSL/TLS version acceptable from a server.	option	-	tls-1.3														

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>tls-1.0</i>	TLS 1.0.		
	<i>tls-1.1</i>	TLS 1.1.		
	<i>tls-1.2</i>	TLS 1.2.		
	<i>tls-1.3</i>	TLS 1.3.		
ssl-renegotiation	Enable/disable secure renegotiation to comply with RFC 5746.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable secure renegotiation.		
	<i>disable</i>	Disable secure renegotiation.		

config quic

Parameter	Description	Type	Size	Default
max-idle-timeout	Maximum idle timeout milliseconds (1 - 60000, default = 30000).	integer	Minimum value: 1 Maximum value: 60000	30000
max-udp-payload-size	Maximum UDP payload size in bytes (1200 - 1500, default = 1500).	integer	Minimum value: 1200 Maximum value: 1500	1500
active-connection-id-limit	Active connection ID limit (1 - 8, default = 2).	integer	Minimum value: 1 Maximum value: 8	2
ack-delay-exponent	ACK delay exponent (1 - 20, default = 3).	integer	Minimum value: 1 Maximum value: 20	3
max-ack-delay	Maximum ACK delay in milliseconds (1 - 16383, default = 25).	integer	Minimum value: 1 Maximum value: 16383	25

Parameter	Description	Type	Size	Default						
max-datagram-frame-size	Maximum datagram frame size in bytes (1 - 1500, default = 1500).	integer	Minimum value: 1 Maximum value: 1500	1500						
active-migration	Enable/disable active migration (default = disable).	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable active migration.</td></tr><tr><td><i>disable</i></td><td>Disable active migration.</td></tr></table>				Option	Description	<i>enable</i>	Enable active migration.	<i>disable</i>	Disable active migration.
Option	Description									
<i>enable</i>	Enable active migration.									
<i>disable</i>	Disable active migration.									
grease-quic-bit	Enable/disable grease QUIC bit (default = enable).	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable grease QUIC bit.</td></tr><tr><td><i>disable</i></td><td>Disable grease QUIC bit.</td></tr></table>				Option	Description	<i>enable</i>	Enable grease QUIC bit.	<i>disable</i>	Disable grease QUIC bit.
Option	Description									
<i>enable</i>	Enable grease QUIC bit.									
<i>disable</i>	Disable grease QUIC bit.									

config realservers

Parameter	Description	Type	Size	Default
id	Real server ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
addr-type	Type of address.	option	-	ip
	Option	Description		
	ip	Standard IPv4 address.		
	fqdn	Non-wildcard FQDN address object.		
address	Address or address group of the real server.	string	Maximum length: 79	
ip	IP address of the real server.	ipv4-address-any	Not Specified	0.0.0.0
domain	Wildcard domain name of the real server.	string	Maximum length: 255	

Parameter	Description	Type	Size	Default								
port	Port for communicating with the real server.	integer	Minimum value: 1 Maximum value: 65535	443								
mappedport	Port for communicating with the real server.	user	Not Specified									
status	Set the status of the real server to active so that it can accept traffic, or on standby or disabled so no traffic is sent.	option	-	active								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>active</td><td>Server status active.</td></tr><tr><td>standby</td><td>Server status standby.</td></tr><tr><td>disable</td><td>Server status disable.</td></tr></table>				Option	Description	active	Server status active.	standby	Server status standby.	disable	Server status disable.
Option	Description											
active	Server status active.											
standby	Server status standby.											
disable	Server status disable.											
type	TCP forwarding server type.	option	-	tcp-forwarding								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>tcp-forwarding</td><td>TCP forwarding.</td></tr><tr><td>ssh</td><td>SSH.</td></tr></table>				Option	Description	tcp-forwarding	TCP forwarding.	ssh	SSH.		
Option	Description											
tcp-forwarding	TCP forwarding.											
ssh	SSH.											
external-auth	Enable/disable use of external browser as user-agent for SAML user authentication.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable use of external browser as user-agent for SAML user authentication.</td></tr><tr><td>disable</td><td>Disable use of external browser as user-agent for SAML user authentication.</td></tr></table>				Option	Description	enable	Enable use of external browser as user-agent for SAML user authentication.	disable	Disable use of external browser as user-agent for SAML user authentication.		
Option	Description											
enable	Enable use of external browser as user-agent for SAML user authentication.											
disable	Disable use of external browser as user-agent for SAML user authentication.											
tunnel-encryption	Tunnel encryption.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable tcp forwarding tunnel encryption.</td></tr><tr><td>disable</td><td>Disable tcp forwarding tunnel encryption.</td></tr></table>				Option	Description	enable	Enable tcp forwarding tunnel encryption.	disable	Disable tcp forwarding tunnel encryption.		
Option	Description											
enable	Enable tcp forwarding tunnel encryption.											
disable	Disable tcp forwarding tunnel encryption.											
weight	Weight of the real server. If weighted load balancing is enabled, the server with the highest weight gets more connections.	integer	Minimum value: 1 Maximum value: 255	1								
http-host	HTTP server domain name in HTTP header.	string	Maximum length: 63									

Parameter	Description	Type	Size	Default								
health-check	Enable to check the responsiveness of the real server before forwarding traffic.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable per server health check.</td></tr><tr><td><i>enable</i></td><td>Enable per server health check.</td></tr></table>	Option	Description	<i>disable</i>	Disable per server health check.	<i>enable</i>	Enable per server health check.					
Option	Description											
<i>disable</i>	Disable per server health check.											
<i>enable</i>	Enable per server health check.											
health-check-proto	Protocol of the health check monitor to use when polling to determine server's connectivity status.	option	-	ping								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>ping</i></td><td>Use PING to test the link with the server.</td></tr><tr><td><i>http</i></td><td>Use HTTP-GET to test the link with the server.</td></tr><tr><td><i>tcp-connect</i></td><td>Use a full TCP connection to test the link with the server.</td></tr></table>	Option	Description	<i>ping</i>	Use PING to test the link with the server.	<i>http</i>	Use HTTP-GET to test the link with the server.	<i>tcp-connect</i>	Use a full TCP connection to test the link with the server.			
Option	Description											
<i>ping</i>	Use PING to test the link with the server.											
<i>http</i>	Use HTTP-GET to test the link with the server.											
<i>tcp-connect</i>	Use a full TCP connection to test the link with the server.											
holddown-interval	Enable/disable holddown timer. Server will be considered active and reachable once the holddown period has expired (30 seconds).	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable per server holddown.</td></tr><tr><td><i>disable</i></td><td>Disable per server holddown.</td></tr></table>	Option	Description	<i>enable</i>	Enable per server holddown.	<i>disable</i>	Disable per server holddown.					
Option	Description											
<i>enable</i>	Enable per server holddown.											
<i>disable</i>	Disable per server holddown.											
translate-host	Enable/disable translation of hostname/IP from virtual server to real server.	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable virtual hostname/IP translation.</td></tr><tr><td><i>disable</i></td><td>Disable virtual hostname/IP translation.</td></tr></table>	Option	Description	<i>enable</i>	Enable virtual hostname/IP translation.	<i>disable</i>	Disable virtual hostname/IP translation.					
Option	Description											
<i>enable</i>	Enable virtual hostname/IP translation.											
<i>disable</i>	Disable virtual hostname/IP translation.											
ssh-client-cert	Set access-proxy SSH client certificate profile.	string	Maximum length: 79									
ssh-host-key-validation	Enable/disable SSH real server host key validation.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable SSH real server host key validation.</td></tr><tr><td><i>enable</i></td><td>Enable SSH real server host key validation.</td></tr></table>	Option	Description	<i>disable</i>	Disable SSH real server host key validation.	<i>enable</i>	Enable SSH real server host key validation.					
Option	Description											
<i>disable</i>	Disable SSH real server host key validation.											
<i>enable</i>	Enable SSH real server host key validation.											
ssh-host-key <name>	One or more server host key. Server host key name.	string	Maximum length: 79									

Parameter	Description	Type	Size	Default
verify-cert	Enable/disable certificate verification of the real server.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable certificate verification.		
	<i>disable</i>	Disable certificate verification.		

config ssl-cipher-suites

Parameter	Description	Type	Size	Default
priority	SSL/TLS cipher suites priority.	integer	Minimum value: 0 Maximum value: 4294967295	0
cipher	Cipher suite name.	option	-	
	Option	Description		
	<i>TLS-AES-128-GCM-SHA256</i>	Cipher suite TLS-AES-128-GCM-SHA256.		
	<i>TLS-AES-256-GCM-SHA384</i>	Cipher suite TLS-AES-256-GCM-SHA384.		
	<i>TLS-CHACHA20-POLY1305-SHA256</i>	Cipher suite TLS-CHACHA20-POLY1305-SHA256.		
	<i>TLS-ECDHE-RSA-WITH-CHACHA20-POLY1305-SHA256</i>	Cipher suite TLS-ECDHE-RSA-WITH-CHACHA20-POLY1305-SHA256.		
	<i>TLS-ECDHE-ECDSA-WITH-CHACHA20-POLY1305-SHA256</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-CHACHA20-POLY1305-SHA256.		
	<i>TLS-DHE-RSA-WITH-CHACHA20-POLY1305-SHA256</i>	Cipher suite TLS-DHE-RSA-WITH-CHACHA20-POLY1305-SHA256.		

Parameter	Description	Type	Size	Default																										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>TLS-DHE-RSA-WITH-AES-128-CBC-SHA</i></td><td>Cipher suite TLS-DHE-RSA-WITH-AES-128-CBC-SHA.</td></tr><tr><td><i>TLS-DHE-RSA-WITH-AES-256-CBC-SHA</i></td><td>Cipher suite TLS-DHE-RSA-WITH-AES-256-CBC-SHA.</td></tr><tr><td><i>TLS-DHE-RSA-WITH-AES-128-CBC-SHA256</i></td><td>Cipher suite TLS-DHE-RSA-WITH-AES-128-CBC-SHA256.</td></tr><tr><td><i>TLS-DHE-RSA-WITH-AES-128-GCM-SHA256</i></td><td>Cipher suite TLS-DHE-RSA-WITH-AES-128-GCM-SHA256.</td></tr><tr><td><i>TLS-DHE-RSA-WITH-AES-256-CBC-SHA256</i></td><td>Cipher suite TLS-DHE-RSA-WITH-AES-256-CBC-SHA256.</td></tr><tr><td><i>TLS-DHE-RSA-WITH-AES-256-GCM-SHA384</i></td><td>Cipher suite TLS-DHE-RSA-WITH-AES-256-GCM-SHA384.</td></tr><tr><td><i>TLS-DHE-DSS-WITH-AES-128-CBC-SHA</i></td><td>Cipher suite TLS-DHE-DSS-WITH-AES-128-CBC-SHA.</td></tr><tr><td><i>TLS-DHE-DSS-WITH-AES-256-CBC-SHA</i></td><td>Cipher suite TLS-DHE-DSS-WITH-AES-256-CBC-SHA.</td></tr><tr><td><i>TLS-DHE-DSS-WITH-AES-128-CBC-SHA256</i></td><td>Cipher suite TLS-DHE-DSS-WITH-AES-128-CBC-SHA256.</td></tr><tr><td><i>TLS-DHE-DSS-WITH-AES-128-GCM-SHA256</i></td><td>Cipher suite TLS-DHE-DSS-WITH-AES-128-GCM-SHA256.</td></tr><tr><td><i>TLS-DHE-DSS-WITH-AES-256-CBC-SHA256</i></td><td>Cipher suite TLS-DHE-DSS-WITH-AES-256-CBC-SHA256.</td></tr><tr><td><i>TLS-DHE-DSS-WITH-AES-256-GCM-SHA384</i></td><td>Cipher suite TLS-DHE-DSS-WITH-AES-256-GCM-SHA384.</td></tr></table>	Option	Description	<i>TLS-DHE-RSA-WITH-AES-128-CBC-SHA</i>	Cipher suite TLS-DHE-RSA-WITH-AES-128-CBC-SHA.	<i>TLS-DHE-RSA-WITH-AES-256-CBC-SHA</i>	Cipher suite TLS-DHE-RSA-WITH-AES-256-CBC-SHA.	<i>TLS-DHE-RSA-WITH-AES-128-CBC-SHA256</i>	Cipher suite TLS-DHE-RSA-WITH-AES-128-CBC-SHA256.	<i>TLS-DHE-RSA-WITH-AES-128-GCM-SHA256</i>	Cipher suite TLS-DHE-RSA-WITH-AES-128-GCM-SHA256.	<i>TLS-DHE-RSA-WITH-AES-256-CBC-SHA256</i>	Cipher suite TLS-DHE-RSA-WITH-AES-256-CBC-SHA256.	<i>TLS-DHE-RSA-WITH-AES-256-GCM-SHA384</i>	Cipher suite TLS-DHE-RSA-WITH-AES-256-GCM-SHA384.	<i>TLS-DHE-DSS-WITH-AES-128-CBC-SHA</i>	Cipher suite TLS-DHE-DSS-WITH-AES-128-CBC-SHA.	<i>TLS-DHE-DSS-WITH-AES-256-CBC-SHA</i>	Cipher suite TLS-DHE-DSS-WITH-AES-256-CBC-SHA.	<i>TLS-DHE-DSS-WITH-AES-128-CBC-SHA256</i>	Cipher suite TLS-DHE-DSS-WITH-AES-128-CBC-SHA256.	<i>TLS-DHE-DSS-WITH-AES-128-GCM-SHA256</i>	Cipher suite TLS-DHE-DSS-WITH-AES-128-GCM-SHA256.	<i>TLS-DHE-DSS-WITH-AES-256-CBC-SHA256</i>	Cipher suite TLS-DHE-DSS-WITH-AES-256-CBC-SHA256.	<i>TLS-DHE-DSS-WITH-AES-256-GCM-SHA384</i>	Cipher suite TLS-DHE-DSS-WITH-AES-256-GCM-SHA384.			
Option	Description																													
<i>TLS-DHE-RSA-WITH-AES-128-CBC-SHA</i>	Cipher suite TLS-DHE-RSA-WITH-AES-128-CBC-SHA.																													
<i>TLS-DHE-RSA-WITH-AES-256-CBC-SHA</i>	Cipher suite TLS-DHE-RSA-WITH-AES-256-CBC-SHA.																													
<i>TLS-DHE-RSA-WITH-AES-128-CBC-SHA256</i>	Cipher suite TLS-DHE-RSA-WITH-AES-128-CBC-SHA256.																													
<i>TLS-DHE-RSA-WITH-AES-128-GCM-SHA256</i>	Cipher suite TLS-DHE-RSA-WITH-AES-128-GCM-SHA256.																													
<i>TLS-DHE-RSA-WITH-AES-256-CBC-SHA256</i>	Cipher suite TLS-DHE-RSA-WITH-AES-256-CBC-SHA256.																													
<i>TLS-DHE-RSA-WITH-AES-256-GCM-SHA384</i>	Cipher suite TLS-DHE-RSA-WITH-AES-256-GCM-SHA384.																													
<i>TLS-DHE-DSS-WITH-AES-128-CBC-SHA</i>	Cipher suite TLS-DHE-DSS-WITH-AES-128-CBC-SHA.																													
<i>TLS-DHE-DSS-WITH-AES-256-CBC-SHA</i>	Cipher suite TLS-DHE-DSS-WITH-AES-256-CBC-SHA.																													
<i>TLS-DHE-DSS-WITH-AES-128-CBC-SHA256</i>	Cipher suite TLS-DHE-DSS-WITH-AES-128-CBC-SHA256.																													
<i>TLS-DHE-DSS-WITH-AES-128-GCM-SHA256</i>	Cipher suite TLS-DHE-DSS-WITH-AES-128-GCM-SHA256.																													
<i>TLS-DHE-DSS-WITH-AES-256-CBC-SHA256</i>	Cipher suite TLS-DHE-DSS-WITH-AES-256-CBC-SHA256.																													
<i>TLS-DHE-DSS-WITH-AES-256-GCM-SHA384</i>	Cipher suite TLS-DHE-DSS-WITH-AES-256-GCM-SHA384.																													

Parameter	Description	Type	Size	Default																						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>TLS-ECDHE-RSA-WITH-AES-128-CBC-SHA</i></td><td>Cipher suite TLS-ECDHE-RSA-WITH-AES-128-CBC-SHA.</td></tr><tr><td><i>TLS-ECDHE-RSA-WITH-AES-128-CBC-SHA256</i></td><td>Cipher suite TLS-ECDHE-RSA-WITH-AES-128-CBC-SHA256.</td></tr><tr><td><i>TLS-ECDHE-RSA-WITH-AES-128-GCM-SHA256</i></td><td>Cipher suite TLS-ECDHE-RSA-WITH-AES-128-GCM-SHA256.</td></tr><tr><td><i>TLS-ECDHE-RSA-WITH-AES-256-CBC-SHA</i></td><td>Cipher suite TLS-ECDHE-RSA-WITH-AES-256-CBC-SHA.</td></tr><tr><td><i>TLS-ECDHE-RSA-WITH-AES-256-CBC-SHA384</i></td><td>Cipher suite TLS-ECDHE-RSA-WITH-AES-256-CBC-SHA384.</td></tr><tr><td><i>TLS-ECDHE-RSA-WITH-AES-256-GCM-SHA384</i></td><td>Cipher suite TLS-ECDHE-RSA-WITH-AES-256-GCM-SHA384.</td></tr><tr><td><i>TLS-ECDHE-ECDSA-WITH-AES-128-CBC-SHA</i></td><td>Cipher suite TLS-ECDHE-ECDSA-WITH-AES-128-CBC-SHA.</td></tr><tr><td><i>TLS-ECDHE-ECDSA-WITH-AES-128-CBC-SHA256</i></td><td>Cipher suite TLS-ECDHE-ECDSA-WITH-AES-128-CBC-SHA256.</td></tr><tr><td><i>TLS-ECDHE-ECDSA-WITH-AES-128-GCM-SHA256</i></td><td>Cipher suite TLS-ECDHE-ECDSA-WITH-AES-128-GCM-SHA256.</td></tr><tr><td><i>TLS-ECDHE-ECDSA-WITH-AES-256-CBC-SHA</i></td><td>Cipher suite TLS-ECDHE-ECDSA-WITH-AES-256-CBC-SHA.</td></tr></table>	Option	Description	<i>TLS-ECDHE-RSA-WITH-AES-128-CBC-SHA</i>	Cipher suite TLS-ECDHE-RSA-WITH-AES-128-CBC-SHA.	<i>TLS-ECDHE-RSA-WITH-AES-128-CBC-SHA256</i>	Cipher suite TLS-ECDHE-RSA-WITH-AES-128-CBC-SHA256.	<i>TLS-ECDHE-RSA-WITH-AES-128-GCM-SHA256</i>	Cipher suite TLS-ECDHE-RSA-WITH-AES-128-GCM-SHA256.	<i>TLS-ECDHE-RSA-WITH-AES-256-CBC-SHA</i>	Cipher suite TLS-ECDHE-RSA-WITH-AES-256-CBC-SHA.	<i>TLS-ECDHE-RSA-WITH-AES-256-CBC-SHA384</i>	Cipher suite TLS-ECDHE-RSA-WITH-AES-256-CBC-SHA384.	<i>TLS-ECDHE-RSA-WITH-AES-256-GCM-SHA384</i>	Cipher suite TLS-ECDHE-RSA-WITH-AES-256-GCM-SHA384.	<i>TLS-ECDHE-ECDSA-WITH-AES-128-CBC-SHA</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-128-CBC-SHA.	<i>TLS-ECDHE-ECDSA-WITH-AES-128-CBC-SHA256</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-128-CBC-SHA256.	<i>TLS-ECDHE-ECDSA-WITH-AES-128-GCM-SHA256</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-128-GCM-SHA256.	<i>TLS-ECDHE-ECDSA-WITH-AES-256-CBC-SHA</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-256-CBC-SHA.			
Option	Description																									
<i>TLS-ECDHE-RSA-WITH-AES-128-CBC-SHA</i>	Cipher suite TLS-ECDHE-RSA-WITH-AES-128-CBC-SHA.																									
<i>TLS-ECDHE-RSA-WITH-AES-128-CBC-SHA256</i>	Cipher suite TLS-ECDHE-RSA-WITH-AES-128-CBC-SHA256.																									
<i>TLS-ECDHE-RSA-WITH-AES-128-GCM-SHA256</i>	Cipher suite TLS-ECDHE-RSA-WITH-AES-128-GCM-SHA256.																									
<i>TLS-ECDHE-RSA-WITH-AES-256-CBC-SHA</i>	Cipher suite TLS-ECDHE-RSA-WITH-AES-256-CBC-SHA.																									
<i>TLS-ECDHE-RSA-WITH-AES-256-CBC-SHA384</i>	Cipher suite TLS-ECDHE-RSA-WITH-AES-256-CBC-SHA384.																									
<i>TLS-ECDHE-RSA-WITH-AES-256-GCM-SHA384</i>	Cipher suite TLS-ECDHE-RSA-WITH-AES-256-GCM-SHA384.																									
<i>TLS-ECDHE-ECDSA-WITH-AES-128-CBC-SHA</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-128-CBC-SHA.																									
<i>TLS-ECDHE-ECDSA-WITH-AES-128-CBC-SHA256</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-128-CBC-SHA256.																									
<i>TLS-ECDHE-ECDSA-WITH-AES-128-GCM-SHA256</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-128-GCM-SHA256.																									
<i>TLS-ECDHE-ECDSA-WITH-AES-256-CBC-SHA</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-256-CBC-SHA.																									

Parameter	Description	Type	Size	Default																										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>TLS-ECDHE-ECDSA-WITH-AES-256-CBC-SHA384</i></td><td>Cipher suite TLS-ECDHE-ECDSA-WITH-AES-256-CBC-SHA384.</td></tr><tr><td><i>TLS-ECDHE-ECDSA-WITH-AES-256-GCM-SHA384</i></td><td>Cipher suite TLS-ECDHE-ECDSA-WITH-AES-256-GCM-SHA384.</td></tr><tr><td><i>TLS-RSA-WITH-AES-128-CBC-SHA</i></td><td>Cipher suite TLS-RSA-WITH-AES-128-CBC-SHA.</td></tr><tr><td><i>TLS-RSA-WITH-AES-256-CBC-SHA</i></td><td>Cipher suite TLS-RSA-WITH-AES-256-CBC-SHA.</td></tr><tr><td><i>TLS-RSA-WITH-AES-128-CBC-SHA256</i></td><td>Cipher suite TLS-RSA-WITH-AES-128-CBC-SHA256.</td></tr><tr><td><i>TLS-RSA-WITH-AES-128-GCM-SHA256</i></td><td>Cipher suite TLS-RSA-WITH-AES-128-GCM-SHA256.</td></tr><tr><td><i>TLS-RSA-WITH-AES-256-CBC-SHA256</i></td><td>Cipher suite TLS-RSA-WITH-AES-256-CBC-SHA256.</td></tr><tr><td><i>TLS-RSA-WITH-AES-256-GCM-SHA384</i></td><td>Cipher suite TLS-RSA-WITH-AES-256-GCM-SHA384.</td></tr><tr><td><i>TLS-RSA-WITH-CAMELLIA-128-CBC-SHA</i></td><td>Cipher suite TLS-RSA-WITH-CAMELLIA-128-CBC-SHA.</td></tr><tr><td><i>TLS-RSA-WITH-CAMELLIA-256-CBC-SHA</i></td><td>Cipher suite TLS-RSA-WITH-CAMELLIA-256-CBC-SHA.</td></tr><tr><td><i>TLS-RSA-WITH-CAMELLIA-128-CBC-SHA256</i></td><td>Cipher suite TLS-RSA-WITH-CAMELLIA-128-CBC-SHA256.</td></tr><tr><td><i>TLS-RSA-WITH-CAMELLIA-256-CBC-SHA256</i></td><td>Cipher suite TLS-RSA-WITH-CAMELLIA-256-CBC-SHA256.</td></tr></table>	Option	Description	<i>TLS-ECDHE-ECDSA-WITH-AES-256-CBC-SHA384</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-256-CBC-SHA384.	<i>TLS-ECDHE-ECDSA-WITH-AES-256-GCM-SHA384</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-256-GCM-SHA384.	<i>TLS-RSA-WITH-AES-128-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-AES-128-CBC-SHA.	<i>TLS-RSA-WITH-AES-256-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-AES-256-CBC-SHA.	<i>TLS-RSA-WITH-AES-128-CBC-SHA256</i>	Cipher suite TLS-RSA-WITH-AES-128-CBC-SHA256.	<i>TLS-RSA-WITH-AES-128-GCM-SHA256</i>	Cipher suite TLS-RSA-WITH-AES-128-GCM-SHA256.	<i>TLS-RSA-WITH-AES-256-CBC-SHA256</i>	Cipher suite TLS-RSA-WITH-AES-256-CBC-SHA256.	<i>TLS-RSA-WITH-AES-256-GCM-SHA384</i>	Cipher suite TLS-RSA-WITH-AES-256-GCM-SHA384.	<i>TLS-RSA-WITH-CAMELLIA-128-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-CAMELLIA-128-CBC-SHA.	<i>TLS-RSA-WITH-CAMELLIA-256-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-CAMELLIA-256-CBC-SHA.	<i>TLS-RSA-WITH-CAMELLIA-128-CBC-SHA256</i>	Cipher suite TLS-RSA-WITH-CAMELLIA-128-CBC-SHA256.	<i>TLS-RSA-WITH-CAMELLIA-256-CBC-SHA256</i>	Cipher suite TLS-RSA-WITH-CAMELLIA-256-CBC-SHA256.			
Option	Description																													
<i>TLS-ECDHE-ECDSA-WITH-AES-256-CBC-SHA384</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-256-CBC-SHA384.																													
<i>TLS-ECDHE-ECDSA-WITH-AES-256-GCM-SHA384</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-256-GCM-SHA384.																													
<i>TLS-RSA-WITH-AES-128-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-AES-128-CBC-SHA.																													
<i>TLS-RSA-WITH-AES-256-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-AES-256-CBC-SHA.																													
<i>TLS-RSA-WITH-AES-128-CBC-SHA256</i>	Cipher suite TLS-RSA-WITH-AES-128-CBC-SHA256.																													
<i>TLS-RSA-WITH-AES-128-GCM-SHA256</i>	Cipher suite TLS-RSA-WITH-AES-128-GCM-SHA256.																													
<i>TLS-RSA-WITH-AES-256-CBC-SHA256</i>	Cipher suite TLS-RSA-WITH-AES-256-CBC-SHA256.																													
<i>TLS-RSA-WITH-AES-256-GCM-SHA384</i>	Cipher suite TLS-RSA-WITH-AES-256-GCM-SHA384.																													
<i>TLS-RSA-WITH-CAMELLIA-128-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-CAMELLIA-128-CBC-SHA.																													
<i>TLS-RSA-WITH-CAMELLIA-256-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-CAMELLIA-256-CBC-SHA.																													
<i>TLS-RSA-WITH-CAMELLIA-128-CBC-SHA256</i>	Cipher suite TLS-RSA-WITH-CAMELLIA-128-CBC-SHA256.																													
<i>TLS-RSA-WITH-CAMELLIA-256-CBC-SHA256</i>	Cipher suite TLS-RSA-WITH-CAMELLIA-256-CBC-SHA256.																													

Parameter	Description	Type	Size	Default																						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>TLS-DHE-RSA-WITH-3DES-EDE-CBC-SHA</i></td><td>Cipher suite TLS-DHE-RSA-WITH-3DES-EDE-CBC-SHA.</td></tr><tr><td><i>TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA</i></td><td>Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA.</td></tr><tr><td><i>TLS-DHE-DSS-WITH-CAMELLIA-128-CBC-SHA</i></td><td>Cipher suite TLS-DSS-RSA-WITH-CAMELLIA-128-CBC-SHA.</td></tr><tr><td><i>TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA</i></td><td>Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA.</td></tr><tr><td><i>TLS-DHE-DSS-WITH-CAMELLIA-256-CBC-SHA</i></td><td>Cipher suite TLS-DHE-DSS-WITH-CAMELLIA-256-CBC-SHA.</td></tr><tr><td><i>TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA256</i></td><td>Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA256.</td></tr><tr><td><i>TLS-DHE-DSS-WITH-CAMELLIA-128-CBC-SHA256</i></td><td>Cipher suite TLS-DHE-DSS-WITH-CAMELLIA-128-CBC-SHA256.</td></tr><tr><td><i>TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA256</i></td><td>Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA256.</td></tr><tr><td><i>TLS-DHE-DSS-WITH-CAMELLIA-256-CBC-SHA256</i></td><td>Cipher suite TLS-DHE-DSS-WITH-CAMELLIA-256-CBC-SHA256.</td></tr><tr><td><i>TLS-DHE-RSA-WITH-SEED-CBC-SHA</i></td><td>Cipher suite TLS-DHE-RSA-WITH-SEED-CBC-SHA.</td></tr></table>	Option	Description	<i>TLS-DHE-RSA-WITH-3DES-EDE-CBC-SHA</i>	Cipher suite TLS-DHE-RSA-WITH-3DES-EDE-CBC-SHA.	<i>TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA</i>	Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA.	<i>TLS-DHE-DSS-WITH-CAMELLIA-128-CBC-SHA</i>	Cipher suite TLS-DSS-RSA-WITH-CAMELLIA-128-CBC-SHA.	<i>TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA</i>	Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA.	<i>TLS-DHE-DSS-WITH-CAMELLIA-256-CBC-SHA</i>	Cipher suite TLS-DHE-DSS-WITH-CAMELLIA-256-CBC-SHA.	<i>TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA256</i>	Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA256.	<i>TLS-DHE-DSS-WITH-CAMELLIA-128-CBC-SHA256</i>	Cipher suite TLS-DHE-DSS-WITH-CAMELLIA-128-CBC-SHA256.	<i>TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA256</i>	Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA256.	<i>TLS-DHE-DSS-WITH-CAMELLIA-256-CBC-SHA256</i>	Cipher suite TLS-DHE-DSS-WITH-CAMELLIA-256-CBC-SHA256.	<i>TLS-DHE-RSA-WITH-SEED-CBC-SHA</i>	Cipher suite TLS-DHE-RSA-WITH-SEED-CBC-SHA.			
Option	Description																									
<i>TLS-DHE-RSA-WITH-3DES-EDE-CBC-SHA</i>	Cipher suite TLS-DHE-RSA-WITH-3DES-EDE-CBC-SHA.																									
<i>TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA</i>	Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA.																									
<i>TLS-DHE-DSS-WITH-CAMELLIA-128-CBC-SHA</i>	Cipher suite TLS-DSS-RSA-WITH-CAMELLIA-128-CBC-SHA.																									
<i>TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA</i>	Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA.																									
<i>TLS-DHE-DSS-WITH-CAMELLIA-256-CBC-SHA</i>	Cipher suite TLS-DHE-DSS-WITH-CAMELLIA-256-CBC-SHA.																									
<i>TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA256</i>	Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA256.																									
<i>TLS-DHE-DSS-WITH-CAMELLIA-128-CBC-SHA256</i>	Cipher suite TLS-DHE-DSS-WITH-CAMELLIA-128-CBC-SHA256.																									
<i>TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA256</i>	Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA256.																									
<i>TLS-DHE-DSS-WITH-CAMELLIA-256-CBC-SHA256</i>	Cipher suite TLS-DHE-DSS-WITH-CAMELLIA-256-CBC-SHA256.																									
<i>TLS-DHE-RSA-WITH-SEED-CBC-SHA</i>	Cipher suite TLS-DHE-RSA-WITH-SEED-CBC-SHA.																									

Parameter	Description	Type	Size	Default																								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>TLS-DHE-DSS-WITH-SEED-CBC-SHA</i></td><td>Cipher suite TLS-DHE-DSS-WITH-SEED-CBC-SHA.</td></tr><tr><td><i>TLS-DHE-RSA-WITH-ARIA-128-CBC-SHA256</i></td><td>Cipher suite TLS-DHE-RSA-WITH-ARIA-128-CBC-SHA256.</td></tr><tr><td><i>TLS-DHE-RSA-WITH-ARIA-256-CBC-SHA384</i></td><td>Cipher suite TLS-DHE-RSA-WITH-ARIA-256-CBC-SHA384.</td></tr><tr><td><i>TLS-DHE-DSS-WITH-ARIA-128-CBC-SHA256</i></td><td>Cipher suite TLS-DHE-DSS-WITH-ARIA-128-CBC-SHA256.</td></tr><tr><td><i>TLS-DHE-DSS-WITH-ARIA-256-CBC-SHA384</i></td><td>Cipher suite TLS-DHE-DSS-WITH-ARIA-256-CBC-SHA384.</td></tr><tr><td><i>TLS-RSA-WITH-SEED-CBC-SHA</i></td><td>Cipher suite TLS-RSA-WITH-SEED-CBC-SHA.</td></tr><tr><td><i>TLS-RSA-WITH-ARIA-128-CBC-SHA256</i></td><td>Cipher suite TLS-RSA-WITH-ARIA-128-CBC-SHA256.</td></tr><tr><td><i>TLS-RSA-WITH-ARIA-256-CBC-SHA384</i></td><td>Cipher suite TLS-RSA-WITH-ARIA-256-CBC-SHA384.</td></tr><tr><td><i>TLS-ECDHE-RSA-WITH-ARIA-128-CBC-SHA256</i></td><td>Cipher suite TLS-ECDHE-RSA-WITH-ARIA-128-CBC-SHA256.</td></tr><tr><td><i>TLS-ECDHE-RSA-WITH-ARIA-256-CBC-SHA384</i></td><td>Cipher suite TLS-ECDHE-RSA-WITH-ARIA-256-CBC-SHA384.</td></tr><tr><td><i>TLS-ECDHE-ECDSA-WITH-ARIA-128-CBC-SHA256</i></td><td>Cipher suite TLS-ECDHE-ECDSA-WITH-ARIA-128-CBC_SHA256.</td></tr></table>	Option	Description	<i>TLS-DHE-DSS-WITH-SEED-CBC-SHA</i>	Cipher suite TLS-DHE-DSS-WITH-SEED-CBC-SHA.	<i>TLS-DHE-RSA-WITH-ARIA-128-CBC-SHA256</i>	Cipher suite TLS-DHE-RSA-WITH-ARIA-128-CBC-SHA256.	<i>TLS-DHE-RSA-WITH-ARIA-256-CBC-SHA384</i>	Cipher suite TLS-DHE-RSA-WITH-ARIA-256-CBC-SHA384.	<i>TLS-DHE-DSS-WITH-ARIA-128-CBC-SHA256</i>	Cipher suite TLS-DHE-DSS-WITH-ARIA-128-CBC-SHA256.	<i>TLS-DHE-DSS-WITH-ARIA-256-CBC-SHA384</i>	Cipher suite TLS-DHE-DSS-WITH-ARIA-256-CBC-SHA384.	<i>TLS-RSA-WITH-SEED-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-SEED-CBC-SHA.	<i>TLS-RSA-WITH-ARIA-128-CBC-SHA256</i>	Cipher suite TLS-RSA-WITH-ARIA-128-CBC-SHA256.	<i>TLS-RSA-WITH-ARIA-256-CBC-SHA384</i>	Cipher suite TLS-RSA-WITH-ARIA-256-CBC-SHA384.	<i>TLS-ECDHE-RSA-WITH-ARIA-128-CBC-SHA256</i>	Cipher suite TLS-ECDHE-RSA-WITH-ARIA-128-CBC-SHA256.	<i>TLS-ECDHE-RSA-WITH-ARIA-256-CBC-SHA384</i>	Cipher suite TLS-ECDHE-RSA-WITH-ARIA-256-CBC-SHA384.	<i>TLS-ECDHE-ECDSA-WITH-ARIA-128-CBC-SHA256</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-ARIA-128-CBC_SHA256.			
Option	Description																											
<i>TLS-DHE-DSS-WITH-SEED-CBC-SHA</i>	Cipher suite TLS-DHE-DSS-WITH-SEED-CBC-SHA.																											
<i>TLS-DHE-RSA-WITH-ARIA-128-CBC-SHA256</i>	Cipher suite TLS-DHE-RSA-WITH-ARIA-128-CBC-SHA256.																											
<i>TLS-DHE-RSA-WITH-ARIA-256-CBC-SHA384</i>	Cipher suite TLS-DHE-RSA-WITH-ARIA-256-CBC-SHA384.																											
<i>TLS-DHE-DSS-WITH-ARIA-128-CBC-SHA256</i>	Cipher suite TLS-DHE-DSS-WITH-ARIA-128-CBC-SHA256.																											
<i>TLS-DHE-DSS-WITH-ARIA-256-CBC-SHA384</i>	Cipher suite TLS-DHE-DSS-WITH-ARIA-256-CBC-SHA384.																											
<i>TLS-RSA-WITH-SEED-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-SEED-CBC-SHA.																											
<i>TLS-RSA-WITH-ARIA-128-CBC-SHA256</i>	Cipher suite TLS-RSA-WITH-ARIA-128-CBC-SHA256.																											
<i>TLS-RSA-WITH-ARIA-256-CBC-SHA384</i>	Cipher suite TLS-RSA-WITH-ARIA-256-CBC-SHA384.																											
<i>TLS-ECDHE-RSA-WITH-ARIA-128-CBC-SHA256</i>	Cipher suite TLS-ECDHE-RSA-WITH-ARIA-128-CBC-SHA256.																											
<i>TLS-ECDHE-RSA-WITH-ARIA-256-CBC-SHA384</i>	Cipher suite TLS-ECDHE-RSA-WITH-ARIA-256-CBC-SHA384.																											
<i>TLS-ECDHE-ECDSA-WITH-ARIA-128-CBC-SHA256</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-ARIA-128-CBC_SHA256.																											

Parameter	Description	Type	Size	Default																							
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>TLS-ECDHE-ECDSA-WITH-ARIA-256-CBC-SHA384</i></td><td>Cipher suite TLS-ECDHE-ECDSA-WITH-ARIA-256-CBC_SHA384.</td></tr><tr><td><i>TLS-ECDHE-RSA-WITH-RC4-128-SHA</i></td><td>Cipher suite TLS-ECDHE-RSA-WITH-RC4-128-SHA.</td></tr><tr><td><i>TLS-ECDHE-RSA-WITH-3DES-EDE-CBC-SHA</i></td><td>Cipher suite TLS-ECDHE-RSA-WITH-3DES-EDE-CBC-SHA.</td></tr><tr><td><i>TLS-DHE-DSS-WITH-3DES-EDE-CBC-SHA</i></td><td>Cipher suite TLS-DHE-DSS-WITH-3DES-EDE-CBC-SHA.</td></tr><tr><td><i>TLS-RSA-WITH-3DES-EDE-CBC-SHA</i></td><td>Cipher suite TLS-RSA-WITH-3DES-EDE-CBC-SHA.</td></tr><tr><td><i>TLS-RSA-WITH-RC4-128-MD5</i></td><td>Cipher suite TLS-RSA-WITH-RC4-128-MD5.</td></tr><tr><td><i>TLS-RSA-WITH-RC4-128-SHA</i></td><td>Cipher suite TLS-RSA-WITH-RC4-128-SHA.</td></tr><tr><td><i>TLS-DHE-RSA-WITH-DES-CBC-SHA</i></td><td>Cipher suite TLS-DHE-RSA-WITH-DES-CBC-SHA.</td></tr><tr><td><i>TLS-DHE-DSS-WITH-DES-CBC-SHA</i></td><td>Cipher suite TLS-DHE-DSS-WITH-DES-CBC-SHA.</td></tr><tr><td><i>TLS-RSA-WITH-DES-CBC-SHA</i></td><td>Cipher suite TLS-RSA-WITH-DES-CBC-SHA.</td></tr></table>	Option	Description	<i>TLS-ECDHE-ECDSA-WITH-ARIA-256-CBC-SHA384</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-ARIA-256-CBC_SHA384.	<i>TLS-ECDHE-RSA-WITH-RC4-128-SHA</i>	Cipher suite TLS-ECDHE-RSA-WITH-RC4-128-SHA.	<i>TLS-ECDHE-RSA-WITH-3DES-EDE-CBC-SHA</i>	Cipher suite TLS-ECDHE-RSA-WITH-3DES-EDE-CBC-SHA.	<i>TLS-DHE-DSS-WITH-3DES-EDE-CBC-SHA</i>	Cipher suite TLS-DHE-DSS-WITH-3DES-EDE-CBC-SHA.	<i>TLS-RSA-WITH-3DES-EDE-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-3DES-EDE-CBC-SHA.	<i>TLS-RSA-WITH-RC4-128-MD5</i>	Cipher suite TLS-RSA-WITH-RC4-128-MD5.	<i>TLS-RSA-WITH-RC4-128-SHA</i>	Cipher suite TLS-RSA-WITH-RC4-128-SHA.	<i>TLS-DHE-RSA-WITH-DES-CBC-SHA</i>	Cipher suite TLS-DHE-RSA-WITH-DES-CBC-SHA.	<i>TLS-DHE-DSS-WITH-DES-CBC-SHA</i>	Cipher suite TLS-DHE-DSS-WITH-DES-CBC-SHA.	<i>TLS-RSA-WITH-DES-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-DES-CBC-SHA.				
	Option	Description																									
	<i>TLS-ECDHE-ECDSA-WITH-ARIA-256-CBC-SHA384</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-ARIA-256-CBC_SHA384.																									
	<i>TLS-ECDHE-RSA-WITH-RC4-128-SHA</i>	Cipher suite TLS-ECDHE-RSA-WITH-RC4-128-SHA.																									
	<i>TLS-ECDHE-RSA-WITH-3DES-EDE-CBC-SHA</i>	Cipher suite TLS-ECDHE-RSA-WITH-3DES-EDE-CBC-SHA.																									
	<i>TLS-DHE-DSS-WITH-3DES-EDE-CBC-SHA</i>	Cipher suite TLS-DHE-DSS-WITH-3DES-EDE-CBC-SHA.																									
	<i>TLS-RSA-WITH-3DES-EDE-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-3DES-EDE-CBC-SHA.																									
	<i>TLS-RSA-WITH-RC4-128-MD5</i>	Cipher suite TLS-RSA-WITH-RC4-128-MD5.																									
	<i>TLS-RSA-WITH-RC4-128-SHA</i>	Cipher suite TLS-RSA-WITH-RC4-128-SHA.																									
	<i>TLS-DHE-RSA-WITH-DES-CBC-SHA</i>	Cipher suite TLS-DHE-RSA-WITH-DES-CBC-SHA.																									
<i>TLS-DHE-DSS-WITH-DES-CBC-SHA</i>	Cipher suite TLS-DHE-DSS-WITH-DES-CBC-SHA.																										
<i>TLS-RSA-WITH-DES-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-DES-CBC-SHA.																										
versions	SSL/TLS versions that the cipher suite can be used with.	option	-	tls-1.0 tls-1.1 tls-1.2 tls-1.3																							
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>tls-1.0</i></td><td>TLS 1.0.</td></tr><tr><td><i>tls-1.1</i></td><td>TLS 1.1.</td></tr><tr><td><i>tls-1.2</i></td><td>TLS 1.2.</td></tr><tr><td><i>tls-1.3</i></td><td>TLS 1.3.</td></tr></table>	Option	Description	<i>tls-1.0</i>	TLS 1.0.	<i>tls-1.1</i>	TLS 1.1.	<i>tls-1.2</i>	TLS 1.2.	<i>tls-1.3</i>	TLS 1.3.																
	Option	Description																									
	<i>tls-1.0</i>	TLS 1.0.																									
	<i>tls-1.1</i>	TLS 1.1.																									
	<i>tls-1.2</i>	TLS 1.2.																									
<i>tls-1.3</i>	TLS 1.3.																										

config api-gateway6

Parameter	Description	Type	Size	Default
id	API Gateway ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
url-map	URL pattern to match.	string	Maximum length: 511	/
service	Service.	option	-	https
	OptionDescription			
	http	HTTP.		
	https	HTTPS.		
	tcp-forwarding	TCP-FORWARDING.		
	samlsp	SAML-SP.		
	saas	SAAS.		
ldb-method	Method used to distribute sessions to real servers.	option	-	static
	OptionDescription			
	static	Distribute to server based on source IP.		
	round-robin	Distribute to server based round robin order.		
	weighted	Distribute to server based on weight.		
	first-alive	Distribute to the first server that is alive.		
	http-host	Distribute to server based on host field in HTTP header.		
virtual-host	Virtual host.	string	Maximum length: 79	
url-map-type	Type of url-map.	option	-	sub-string
	OptionDescription			
	sub-string	Match the pattern if a string contains the sub-string.		
	wildcard	Match the pattern with wildcards.		
	regex	Match the pattern with a regular expression.		
h2-support	HTTP2 support, default=Enable.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable HTTP2 support.		
	<i>disable</i>	Disable HTTP2 support.		
h3-support	HTTP3/QUIC support, default=Disable.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable HTTP3/QUIC support.		
	<i>disable</i>	Disable HTTP3/QUIC support.		
application <name>	SaaS application controlled by this Access Proxy. SaaS application name.	string	Maximum length: 79	
persistence	Configure how to make sure that clients connect to the same server every time they make a request that is part of the same session.	option	-	none
	Option	Description		
	<i>none</i>	None.		
	<i>http-cookie</i>	HTTP cookie.		
http-cookie-domain-from-host	Enable/disable use of HTTP cookie domain from host field in HTTP.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable use of HTTP cookie domain from host field in HTTP (use http-cookies-domain setting).		
	<i>enable</i>	Enable use of HTTP cookie domain from host field in HTTP.		
http-cookie-domain	Domain that HTTP cookie persistence should apply to.	string	Maximum length: 35	
http-cookie-path	Limit HTTP cookie persistence to the specified path.	string	Maximum length: 35	
http-cookie-generation	Generation of HTTP cookie to be accepted. Changing invalidates all existing cookies.	integer	Minimum value: 0 Maximum value: 4294967295	0

Parameter	Description	Type	Size	Default
http-cookie-age	Time in minutes that client web browsers should keep a cookie. Default is 60 minutes. 0 = no time limit.	integer	Minimum value: 0 Maximum value: 525600	60
http-cookie-share	Control sharing of cookies across API Gateway. Use of same-ip means a cookie from one virtual server can be used by another. Disable stops cookie sharing.	option	-	same-ip
	Option	Description		
	<i>disable</i>	Only allow HTTP cookie to match this API Gateway.		
	<i>same-ip</i>	Allow HTTP cookie to match any API Gateway with same IP.		
https-cookie-secure	Enable/disable verification that inserted HTTPS cookies are secure.	option	-	disable
	Option	Description		
	<i>disable</i>	Do not mark cookie as secure, allow sharing between an HTTP and HTTPS connection.		
	<i>enable</i>	Mark inserted cookie as secure, cookie can only be used for HTTPS a connection.		
saml-server	SAML service provider configuration for VIP authentication.	string	Maximum length: 35	
saml-redirect	Enable/disable SAML redirection after successful authentication.	option	-	enable
	Option	Description		
	<i>disable</i>	Do not support redirection after successful SAML authentication.		
	<i>enable</i>	Support redirection after successful SAML authentication.		
ssl-dh-bits	Number of bits to use in the Diffie-Hellman exchange for RSA encryption of SSL sessions.	option	-	2048
	Option	Description		
	<i>768</i>	768-bit Diffie-Hellman prime.		
	<i>1024</i>	1024-bit Diffie-Hellman prime.		
	<i>1536</i>	1536-bit Diffie-Hellman prime.		
	<i>2048</i>	2048-bit Diffie-Hellman prime.		

Parameter	Description	Type	Size	Default										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>3072</td><td>3072-bit Diffie-Hellman prime.</td></tr><tr><td>4096</td><td>4096-bit Diffie-Hellman prime.</td></tr></table>	Option	Description	3072	3072-bit Diffie-Hellman prime.	4096	4096-bit Diffie-Hellman prime.							
	Option	Description												
	3072	3072-bit Diffie-Hellman prime.												
4096	4096-bit Diffie-Hellman prime.													
ssl-algorithm	Permitted encryption algorithms for the server side of SSL full mode sessions according to encryption strength.	option	-	high										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>high</td><td>High encryption. Allow only AES and ChaCha.</td></tr><tr><td>medium</td><td>Medium encryption. Allow AES, ChaCha, 3DES, and RC4.</td></tr><tr><td>low</td><td>Low encryption. Allow AES, ChaCha, 3DES, RC4, and DES.</td></tr></table>	Option	Description	high	High encryption. Allow only AES and ChaCha.	medium	Medium encryption. Allow AES, ChaCha, 3DES, and RC4.	low	Low encryption. Allow AES, ChaCha, 3DES, RC4, and DES.					
	Option	Description												
	high	High encryption. Allow only AES and ChaCha.												
	medium	Medium encryption. Allow AES, ChaCha, 3DES, and RC4.												
low	Low encryption. Allow AES, ChaCha, 3DES, RC4, and DES.													
ssl-min-version	Lowest SSL/TLS version acceptable from a server.	option	-	tls-1.1										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>tls-1.0</td><td>TLS 1.0.</td></tr><tr><td>tls-1.1</td><td>TLS 1.1.</td></tr><tr><td>tls-1.2</td><td>TLS 1.2.</td></tr><tr><td>tls-1.3</td><td>TLS 1.3.</td></tr></table>	Option	Description	tls-1.0	TLS 1.0.	tls-1.1	TLS 1.1.	tls-1.2	TLS 1.2.	tls-1.3	TLS 1.3.			
	Option	Description												
	tls-1.0	TLS 1.0.												
	tls-1.1	TLS 1.1.												
	tls-1.2	TLS 1.2.												
tls-1.3	TLS 1.3.													
ssl-max-version	Highest SSL/TLS version acceptable from a server.	option	-	tls-1.3										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>tls-1.0</td><td>TLS 1.0.</td></tr><tr><td>tls-1.1</td><td>TLS 1.1.</td></tr><tr><td>tls-1.2</td><td>TLS 1.2.</td></tr><tr><td>tls-1.3</td><td>TLS 1.3.</td></tr></table>	Option	Description	tls-1.0	TLS 1.0.	tls-1.1	TLS 1.1.	tls-1.2	TLS 1.2.	tls-1.3	TLS 1.3.			
	Option	Description												
	tls-1.0	TLS 1.0.												
	tls-1.1	TLS 1.1.												
	tls-1.2	TLS 1.2.												
tls-1.3	TLS 1.3.													
ssl-renegotiation	Enable/disable secure renegotiation to comply with RFC 5746.	option	-	enable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable secure renegotiation.</td></tr><tr><td>disable</td><td>Disable secure renegotiation.</td></tr></table>	Option	Description	enable	Enable secure renegotiation.	disable	Disable secure renegotiation.							
	Option	Description												
	enable	Enable secure renegotiation.												
disable	Disable secure renegotiation.													

config quic

Parameter	Description	Type	Size	Default						
max-idle-timeout	Maximum idle timeout milliseconds (1 - 60000, default = 30000).	integer	Minimum value: 1 Maximum value: 60000	30000						
max-udp-payload-size	Maximum UDP payload size in bytes (1200 - 1500, default = 1500).	integer	Minimum value: 1200 Maximum value: 1500	1500						
active-connection-id-limit	Active connection ID limit (1 - 8, default = 2).	integer	Minimum value: 1 Maximum value: 8	2						
ack-delay-exponent	ACK delay exponent (1 - 20, default = 3).	integer	Minimum value: 1 Maximum value: 20	3						
max-ack-delay	Maximum ACK delay in milliseconds (1 - 16383, default = 25).	integer	Minimum value: 1 Maximum value: 16383	25						
max-datagram-frame-size	Maximum datagram frame size in bytes (1 - 1500, default = 1500).	integer	Minimum value: 1 Maximum value: 1500	1500						
active-migration	Enable/disable active migration (default = disable).	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable active migration.</td></tr><tr><td><i>disable</i></td><td>Disable active migration.</td></tr></table>				Option	Description	<i>enable</i>	Enable active migration.	<i>disable</i>	Disable active migration.
Option	Description									
<i>enable</i>	Enable active migration.									
<i>disable</i>	Disable active migration.									
grease-quic-bit	Enable/disable grease QUIC bit (default = enable).	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable grease QUIC bit.</td></tr><tr><td><i>disable</i></td><td>Disable grease QUIC bit.</td></tr></table>				Option	Description	<i>enable</i>	Enable grease QUIC bit.	<i>disable</i>	Disable grease QUIC bit.
Option	Description									
<i>enable</i>	Enable grease QUIC bit.									
<i>disable</i>	Disable grease QUIC bit.									

config realservers

Parameter	Description	Type	Size	Default								
id	Real server ID.	integer	Minimum value: 0 Maximum value: 4294967295	0								
addr-type	Type of address.	option	-	ip								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>ip</i></td><td>Standard IPv4 address.</td></tr><tr><td><i>fqdn</i></td><td>Non-wildcard FQDN address object.</td></tr></table>	Option	Description	<i>ip</i>	Standard IPv4 address.	<i>fqdn</i>	Non-wildcard FQDN address object.					
Option	Description											
<i>ip</i>	Standard IPv4 address.											
<i>fqdn</i>	Non-wildcard FQDN address object.											
address	Address or address group of the real server.	string	Maximum length: 79									
ip	IPv6 address of the real server.	ipv6-address	Not Specified	::								
domain	Wildcard domain name of the real server.	string	Maximum length: 255									
port	Port for communicating with the real server.	integer	Minimum value: 1 Maximum value: 65535	443								
mappedport	Port for communicating with the real server.	user	Not Specified									
status	Set the status of the real server to active so that it can accept traffic, or on standby or disabled so no traffic is sent.	option	-	active								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>active</i></td><td>Server status active.</td></tr><tr><td><i>standby</i></td><td>Server status standby.</td></tr><tr><td><i>disable</i></td><td>Server status disable.</td></tr></table>	Option	Description	<i>active</i>	Server status active.	<i>standby</i>	Server status standby.	<i>disable</i>	Server status disable.			
Option	Description											
<i>active</i>	Server status active.											
<i>standby</i>	Server status standby.											
<i>disable</i>	Server status disable.											
type	TCP forwarding server type.	option	-	tcp-forwarding								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>tcp-forwarding</i></td><td>TCP forwarding.</td></tr><tr><td><i>ssh</i></td><td>SSH.</td></tr></table>	Option	Description	<i>tcp-forwarding</i>	TCP forwarding.	<i>ssh</i>	SSH.					
Option	Description											
<i>tcp-forwarding</i>	TCP forwarding.											
<i>ssh</i>	SSH.											

Parameter	Description	Type	Size	Default								
external-auth	Enable/disable use of external browser as user-agent for SAML user authentication.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable use of external browser as user-agent for SAML user authentication.</td></tr><tr><td><i>disable</i></td><td>Disable use of external browser as user-agent for SAML user authentication.</td></tr></table>	Option	Description	<i>enable</i>	Enable use of external browser as user-agent for SAML user authentication.	<i>disable</i>	Disable use of external browser as user-agent for SAML user authentication.					
Option	Description											
<i>enable</i>	Enable use of external browser as user-agent for SAML user authentication.											
<i>disable</i>	Disable use of external browser as user-agent for SAML user authentication.											
tunnel-encryption	Tunnel encryption.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable tcp forwarding tunnel encryption.</td></tr><tr><td><i>disable</i></td><td>Disable tcp forwarding tunnel encryption.</td></tr></table>	Option	Description	<i>enable</i>	Enable tcp forwarding tunnel encryption.	<i>disable</i>	Disable tcp forwarding tunnel encryption.					
Option	Description											
<i>enable</i>	Enable tcp forwarding tunnel encryption.											
<i>disable</i>	Disable tcp forwarding tunnel encryption.											
weight	Weight of the real server. If weighted load balancing is enabled, the server with the highest weight gets more connections.	integer	Minimum value: 1 Maximum value: 255	1								
http-host	HTTP server domain name in HTTP header.	string	Maximum length: 63									
health-check	Enable to check the responsiveness of the real server before forwarding traffic.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable per server health check.</td></tr><tr><td><i>enable</i></td><td>Enable per server health check.</td></tr></table>	Option	Description	<i>disable</i>	Disable per server health check.	<i>enable</i>	Enable per server health check.					
Option	Description											
<i>disable</i>	Disable per server health check.											
<i>enable</i>	Enable per server health check.											
health-check-proto	Protocol of the health check monitor to use when polling to determine server's connectivity status.	option	-	ping								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>ping</i></td><td>Use PING to test the link with the server.</td></tr><tr><td><i>http</i></td><td>Use HTTP-GET to test the link with the server.</td></tr><tr><td><i>tcp-connect</i></td><td>Use a full TCP connection to test the link with the server.</td></tr></table>	Option	Description	<i>ping</i>	Use PING to test the link with the server.	<i>http</i>	Use HTTP-GET to test the link with the server.	<i>tcp-connect</i>	Use a full TCP connection to test the link with the server.			
Option	Description											
<i>ping</i>	Use PING to test the link with the server.											
<i>http</i>	Use HTTP-GET to test the link with the server.											
<i>tcp-connect</i>	Use a full TCP connection to test the link with the server.											
holddown-interval	Enable/disable holddown timer. Server will be considered active and reachable once the holddown period has expired (30 seconds).	option	-	enable								

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable per server holddown.		
	<i>disable</i>	Disable per server holddown.		
translate-host	Enable/disable translation of hostname/IP from virtual server to real server.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable virtual hostname/IP translation.		
	<i>disable</i>	Disable virtual hostname/IP translation.		
ssh-client-cert	Set access-proxy SSH client certificate profile.	string	Maximum length: 79	
ssh-host-key-validation	Enable/disable SSH real server host key validation.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable SSH real server host key validation.		
	<i>enable</i>	Enable SSH real server host key validation.		
ssh-host-key <name>	One or more server host key. Server host key name.	string	Maximum length: 79	
verify-cert	Enable/disable certificate verification of the real server.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable certificate verification.		
	<i>disable</i>	Disable certificate verification.		

config ssl-cipher-suites

Parameter	Description	Type	Size	Default
priority	SSL/TLS cipher suites priority.	integer	Minimum value: 0 Maximum value: 4294967295	0
cipher	Cipher suite name.	option	-	

Parameter	Description	Type	Size	Default																								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>TLS-AES-128-GCM-SHA256</td><td>Cipher suite TLS-AES-128-GCM-SHA256.</td></tr><tr><td>TLS-AES-256-GCM-SHA384</td><td>Cipher suite TLS-AES-256-GCM-SHA384.</td></tr><tr><td>TLS-CHACHA20-POLY1305-SHA256</td><td>Cipher suite TLS-CHACHA20-POLY1305-SHA256.</td></tr><tr><td>TLS-ECDHE-RSA-WITH-CHACHA20-POLY1305-SHA256</td><td>Cipher suite TLS-ECDHE-RSA-WITH-CHACHA20-POLY1305-SHA256.</td></tr><tr><td>TLS-ECDHE-ECDSA-WITH-CHACHA20-POLY1305-SHA256</td><td>Cipher suite TLS-ECDHE-ECDSA-WITH-CHACHA20-POLY1305-SHA256.</td></tr><tr><td>TLS-DHE-RSA-WITH-CHACHA20-POLY1305-SHA256</td><td>Cipher suite TLS-DHE-RSA-WITH-CHACHA20-POLY1305-SHA256.</td></tr><tr><td>TLS-DHE-RSA-WITH-AES-128-CBC-SHA</td><td>Cipher suite TLS-DHE-RSA-WITH-AES-128-CBC-SHA.</td></tr><tr><td>TLS-DHE-RSA-WITH-AES-256-CBC-SHA</td><td>Cipher suite TLS-DHE-RSA-WITH-AES-256-CBC-SHA.</td></tr><tr><td>TLS-DHE-RSA-WITH-AES-128-CBC-SHA256</td><td>Cipher suite TLS-DHE-RSA-WITH-AES-128-CBC-SHA256.</td></tr><tr><td>TLS-DHE-RSA-WITH-AES-128-GCM-SHA256</td><td>Cipher suite TLS-DHE-RSA-WITH-AES-128-GCM-SHA256.</td></tr><tr><td>TLS-DHE-RSA-WITH-AES-256-CBC-SHA256</td><td>Cipher suite TLS-DHE-RSA-WITH-AES-256-CBC-SHA256.</td></tr></table>	Option	Description	TLS-AES-128-GCM-SHA256	Cipher suite TLS-AES-128-GCM-SHA256.	TLS-AES-256-GCM-SHA384	Cipher suite TLS-AES-256-GCM-SHA384.	TLS-CHACHA20-POLY1305-SHA256	Cipher suite TLS-CHACHA20-POLY1305-SHA256.	TLS-ECDHE-RSA-WITH-CHACHA20-POLY1305-SHA256	Cipher suite TLS-ECDHE-RSA-WITH-CHACHA20-POLY1305-SHA256.	TLS-ECDHE-ECDSA-WITH-CHACHA20-POLY1305-SHA256	Cipher suite TLS-ECDHE-ECDSA-WITH-CHACHA20-POLY1305-SHA256.	TLS-DHE-RSA-WITH-CHACHA20-POLY1305-SHA256	Cipher suite TLS-DHE-RSA-WITH-CHACHA20-POLY1305-SHA256.	TLS-DHE-RSA-WITH-AES-128-CBC-SHA	Cipher suite TLS-DHE-RSA-WITH-AES-128-CBC-SHA.	TLS-DHE-RSA-WITH-AES-256-CBC-SHA	Cipher suite TLS-DHE-RSA-WITH-AES-256-CBC-SHA.	TLS-DHE-RSA-WITH-AES-128-CBC-SHA256	Cipher suite TLS-DHE-RSA-WITH-AES-128-CBC-SHA256.	TLS-DHE-RSA-WITH-AES-128-GCM-SHA256	Cipher suite TLS-DHE-RSA-WITH-AES-128-GCM-SHA256.	TLS-DHE-RSA-WITH-AES-256-CBC-SHA256	Cipher suite TLS-DHE-RSA-WITH-AES-256-CBC-SHA256.			
Option	Description																											
TLS-AES-128-GCM-SHA256	Cipher suite TLS-AES-128-GCM-SHA256.																											
TLS-AES-256-GCM-SHA384	Cipher suite TLS-AES-256-GCM-SHA384.																											
TLS-CHACHA20-POLY1305-SHA256	Cipher suite TLS-CHACHA20-POLY1305-SHA256.																											
TLS-ECDHE-RSA-WITH-CHACHA20-POLY1305-SHA256	Cipher suite TLS-ECDHE-RSA-WITH-CHACHA20-POLY1305-SHA256.																											
TLS-ECDHE-ECDSA-WITH-CHACHA20-POLY1305-SHA256	Cipher suite TLS-ECDHE-ECDSA-WITH-CHACHA20-POLY1305-SHA256.																											
TLS-DHE-RSA-WITH-CHACHA20-POLY1305-SHA256	Cipher suite TLS-DHE-RSA-WITH-CHACHA20-POLY1305-SHA256.																											
TLS-DHE-RSA-WITH-AES-128-CBC-SHA	Cipher suite TLS-DHE-RSA-WITH-AES-128-CBC-SHA.																											
TLS-DHE-RSA-WITH-AES-256-CBC-SHA	Cipher suite TLS-DHE-RSA-WITH-AES-256-CBC-SHA.																											
TLS-DHE-RSA-WITH-AES-128-CBC-SHA256	Cipher suite TLS-DHE-RSA-WITH-AES-128-CBC-SHA256.																											
TLS-DHE-RSA-WITH-AES-128-GCM-SHA256	Cipher suite TLS-DHE-RSA-WITH-AES-128-GCM-SHA256.																											
TLS-DHE-RSA-WITH-AES-256-CBC-SHA256	Cipher suite TLS-DHE-RSA-WITH-AES-256-CBC-SHA256.																											

Parameter	Description	Type	Size	Default
	Option	Description		
	TLS-DHE-RSA-WITH-AES-256-GCM-SHA384	Cipher suite TLS-DHE-RSA-WITH-AES-256-GCM-SHA384.		
	TLS-DHE-DSS-WITH-AES-128-CBC-SHA	Cipher suite TLS-DHE-DSS-WITH-AES-128-CBC-SHA.		
	TLS-DHE-DSS-WITH-AES-256-CBC-SHA	Cipher suite TLS-DHE-DSS-WITH-AES-256-CBC-SHA.		
	TLS-DHE-DSS-WITH-AES-128-CBC-SHA256	Cipher suite TLS-DHE-DSS-WITH-AES-128-CBC-SHA256.		
	TLS-DHE-DSS-WITH-AES-128-GCM-SHA256	Cipher suite TLS-DHE-DSS-WITH-AES-128-GCM-SHA256.		
	TLS-DHE-DSS-WITH-AES-256-CBC-SHA256	Cipher suite TLS-DHE-DSS-WITH-AES-256-CBC-SHA256.		
	TLS-DHE-DSS-WITH-AES-256-GCM-SHA384	Cipher suite TLS-DHE-DSS-WITH-AES-256-GCM-SHA384.		
	TLS-ECDHE-RSA-WITH-AES-128-CBC-SHA	Cipher suite TLS-ECDHE-RSA-WITH-AES-128-CBC-SHA.		
	TLS-ECDHE-RSA-WITH-AES-128-CBC-SHA256	Cipher suite TLS-ECDHE-RSA-WITH-AES-128-CBC-SHA256.		
	TLS-ECDHE-RSA-WITH-AES-128-GCM-SHA256	Cipher suite TLS-ECDHE-RSA-WITH-AES-128-GCM-SHA256.		
	TLS-ECDHE-RSA-WITH-AES-256-CBC-SHA	Cipher suite TLS-ECDHE-RSA-WITH-AES-256-CBC-SHA.		

Parameter	Description	Type	Size	Default																						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>TLS-ECDHE-RSA-WITH-AES-256-CBC-SHA384</i></td><td>Cipher suite TLS-ECDHE-RSA-WITH-AES-256-CBC-SHA384.</td></tr><tr><td><i>TLS-ECDHE-RSA-WITH-AES-256-GCM-SHA384</i></td><td>Cipher suite TLS-ECDHE-RSA-WITH-AES-256-GCM-SHA384.</td></tr><tr><td><i>TLS-ECDHE-ECDSA-WITH-AES-128-CBC-SHA</i></td><td>Cipher suite TLS-ECDHE-ECDSA-WITH-AES-128-CBC-SHA.</td></tr><tr><td><i>TLS-ECDHE-ECDSA-WITH-AES-128-CBC-SHA256</i></td><td>Cipher suite TLS-ECDHE-ECDSA-WITH-AES-128-CBC-SHA256.</td></tr><tr><td><i>TLS-ECDHE-ECDSA-WITH-AES-128-GCM-SHA256</i></td><td>Cipher suite TLS-ECDHE-ECDSA-WITH-AES-128-GCM-SHA256.</td></tr><tr><td><i>TLS-ECDHE-ECDSA-WITH-AES-256-CBC-SHA</i></td><td>Cipher suite TLS-ECDHE-ECDSA-WITH-AES-256-CBC-SHA.</td></tr><tr><td><i>TLS-ECDHE-ECDSA-WITH-AES-256-CBC-SHA384</i></td><td>Cipher suite TLS-ECDHE-ECDSA-WITH-AES-256-CBC-SHA384.</td></tr><tr><td><i>TLS-ECDHE-ECDSA-WITH-AES-256-GCM-SHA384</i></td><td>Cipher suite TLS-ECDHE-ECDSA-WITH-AES-256-GCM-SHA384.</td></tr><tr><td><i>TLS-RSA-WITH-AES-128-CBC-SHA</i></td><td>Cipher suite TLS-RSA-WITH-AES-128-CBC-SHA.</td></tr><tr><td><i>TLS-RSA-WITH-AES-256-CBC-SHA</i></td><td>Cipher suite TLS-RSA-WITH-AES-256-CBC-SHA.</td></tr></table>	Option	Description	<i>TLS-ECDHE-RSA-WITH-AES-256-CBC-SHA384</i>	Cipher suite TLS-ECDHE-RSA-WITH-AES-256-CBC-SHA384.	<i>TLS-ECDHE-RSA-WITH-AES-256-GCM-SHA384</i>	Cipher suite TLS-ECDHE-RSA-WITH-AES-256-GCM-SHA384.	<i>TLS-ECDHE-ECDSA-WITH-AES-128-CBC-SHA</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-128-CBC-SHA.	<i>TLS-ECDHE-ECDSA-WITH-AES-128-CBC-SHA256</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-128-CBC-SHA256.	<i>TLS-ECDHE-ECDSA-WITH-AES-128-GCM-SHA256</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-128-GCM-SHA256.	<i>TLS-ECDHE-ECDSA-WITH-AES-256-CBC-SHA</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-256-CBC-SHA.	<i>TLS-ECDHE-ECDSA-WITH-AES-256-CBC-SHA384</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-256-CBC-SHA384.	<i>TLS-ECDHE-ECDSA-WITH-AES-256-GCM-SHA384</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-256-GCM-SHA384.	<i>TLS-RSA-WITH-AES-128-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-AES-128-CBC-SHA.	<i>TLS-RSA-WITH-AES-256-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-AES-256-CBC-SHA.			
Option	Description																									
<i>TLS-ECDHE-RSA-WITH-AES-256-CBC-SHA384</i>	Cipher suite TLS-ECDHE-RSA-WITH-AES-256-CBC-SHA384.																									
<i>TLS-ECDHE-RSA-WITH-AES-256-GCM-SHA384</i>	Cipher suite TLS-ECDHE-RSA-WITH-AES-256-GCM-SHA384.																									
<i>TLS-ECDHE-ECDSA-WITH-AES-128-CBC-SHA</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-128-CBC-SHA.																									
<i>TLS-ECDHE-ECDSA-WITH-AES-128-CBC-SHA256</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-128-CBC-SHA256.																									
<i>TLS-ECDHE-ECDSA-WITH-AES-128-GCM-SHA256</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-128-GCM-SHA256.																									
<i>TLS-ECDHE-ECDSA-WITH-AES-256-CBC-SHA</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-256-CBC-SHA.																									
<i>TLS-ECDHE-ECDSA-WITH-AES-256-CBC-SHA384</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-256-CBC-SHA384.																									
<i>TLS-ECDHE-ECDSA-WITH-AES-256-GCM-SHA384</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-256-GCM-SHA384.																									
<i>TLS-RSA-WITH-AES-128-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-AES-128-CBC-SHA.																									
<i>TLS-RSA-WITH-AES-256-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-AES-256-CBC-SHA.																									

Parameter	Description	Type	Size	Default																								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>TLS-RSA-WITH-AES-128-CBC-SHA256</i></td><td>Cipher suite TLS-RSA-WITH-AES-128-CBC-SHA256.</td></tr><tr><td><i>TLS-RSA-WITH-AES-128-GCM-SHA256</i></td><td>Cipher suite TLS-RSA-WITH-AES-128-GCM-SHA256.</td></tr><tr><td><i>TLS-RSA-WITH-AES-256-CBC-SHA256</i></td><td>Cipher suite TLS-RSA-WITH-AES-256-CBC-SHA256.</td></tr><tr><td><i>TLS-RSA-WITH-AES-256-GCM-SHA384</i></td><td>Cipher suite TLS-RSA-WITH-AES-256-GCM-SHA384.</td></tr><tr><td><i>TLS-RSA-WITH-CAMELLIA-128-CBC-SHA</i></td><td>Cipher suite TLS-RSA-WITH-CAMELLIA-128-CBC-SHA.</td></tr><tr><td><i>TLS-RSA-WITH-CAMELLIA-256-CBC-SHA</i></td><td>Cipher suite TLS-RSA-WITH-CAMELLIA-256-CBC-SHA.</td></tr><tr><td><i>TLS-RSA-WITH-CAMELLIA-128-CBC-SHA256</i></td><td>Cipher suite TLS-RSA-WITH-CAMELLIA-128-CBC-SHA256.</td></tr><tr><td><i>TLS-RSA-WITH-CAMELLIA-256-CBC-SHA256</i></td><td>Cipher suite TLS-RSA-WITH-CAMELLIA-256-CBC-SHA256.</td></tr><tr><td><i>TLS-DHE-RSA-WITH-3DES-EDE-CBC-SHA</i></td><td>Cipher suite TLS-DHE-RSA-WITH-3DES-EDE-CBC-SHA.</td></tr><tr><td><i>TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA</i></td><td>Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA.</td></tr><tr><td><i>TLS-DHE-DSS-WITH-CAMELLIA-128-CBC-SHA</i></td><td>Cipher suite TLS-DSS-RSA-WITH-CAMELLIA-128-CBC-SHA.</td></tr></table>	Option	Description	<i>TLS-RSA-WITH-AES-128-CBC-SHA256</i>	Cipher suite TLS-RSA-WITH-AES-128-CBC-SHA256.	<i>TLS-RSA-WITH-AES-128-GCM-SHA256</i>	Cipher suite TLS-RSA-WITH-AES-128-GCM-SHA256.	<i>TLS-RSA-WITH-AES-256-CBC-SHA256</i>	Cipher suite TLS-RSA-WITH-AES-256-CBC-SHA256.	<i>TLS-RSA-WITH-AES-256-GCM-SHA384</i>	Cipher suite TLS-RSA-WITH-AES-256-GCM-SHA384.	<i>TLS-RSA-WITH-CAMELLIA-128-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-CAMELLIA-128-CBC-SHA.	<i>TLS-RSA-WITH-CAMELLIA-256-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-CAMELLIA-256-CBC-SHA.	<i>TLS-RSA-WITH-CAMELLIA-128-CBC-SHA256</i>	Cipher suite TLS-RSA-WITH-CAMELLIA-128-CBC-SHA256.	<i>TLS-RSA-WITH-CAMELLIA-256-CBC-SHA256</i>	Cipher suite TLS-RSA-WITH-CAMELLIA-256-CBC-SHA256.	<i>TLS-DHE-RSA-WITH-3DES-EDE-CBC-SHA</i>	Cipher suite TLS-DHE-RSA-WITH-3DES-EDE-CBC-SHA.	<i>TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA</i>	Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA.	<i>TLS-DHE-DSS-WITH-CAMELLIA-128-CBC-SHA</i>	Cipher suite TLS-DSS-RSA-WITH-CAMELLIA-128-CBC-SHA.			
Option	Description																											
<i>TLS-RSA-WITH-AES-128-CBC-SHA256</i>	Cipher suite TLS-RSA-WITH-AES-128-CBC-SHA256.																											
<i>TLS-RSA-WITH-AES-128-GCM-SHA256</i>	Cipher suite TLS-RSA-WITH-AES-128-GCM-SHA256.																											
<i>TLS-RSA-WITH-AES-256-CBC-SHA256</i>	Cipher suite TLS-RSA-WITH-AES-256-CBC-SHA256.																											
<i>TLS-RSA-WITH-AES-256-GCM-SHA384</i>	Cipher suite TLS-RSA-WITH-AES-256-GCM-SHA384.																											
<i>TLS-RSA-WITH-CAMELLIA-128-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-CAMELLIA-128-CBC-SHA.																											
<i>TLS-RSA-WITH-CAMELLIA-256-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-CAMELLIA-256-CBC-SHA.																											
<i>TLS-RSA-WITH-CAMELLIA-128-CBC-SHA256</i>	Cipher suite TLS-RSA-WITH-CAMELLIA-128-CBC-SHA256.																											
<i>TLS-RSA-WITH-CAMELLIA-256-CBC-SHA256</i>	Cipher suite TLS-RSA-WITH-CAMELLIA-256-CBC-SHA256.																											
<i>TLS-DHE-RSA-WITH-3DES-EDE-CBC-SHA</i>	Cipher suite TLS-DHE-RSA-WITH-3DES-EDE-CBC-SHA.																											
<i>TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA</i>	Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA.																											
<i>TLS-DHE-DSS-WITH-CAMELLIA-128-CBC-SHA</i>	Cipher suite TLS-DSS-RSA-WITH-CAMELLIA-128-CBC-SHA.																											

Parameter	Description	Type	Size	Default
	Option	Description		
	TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA	Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA.		
	TLS-DHE-DSS-WITH-CAMELLIA-256-CBC-SHA	Cipher suite TLS-DHE-DSS-WITH-CAMELLIA-256-CBC-SHA.		
	TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA256	Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA256.		
	TLS-DHE-DSS-WITH-CAMELLIA-128-CBC-SHA256	Cipher suite TLS-DHE-DSS-WITH-CAMELLIA-128-CBC-SHA256.		
	TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA256	Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA256.		
	TLS-DHE-DSS-WITH-CAMELLIA-256-CBC-SHA256	Cipher suite TLS-DHE-DSS-WITH-CAMELLIA-256-CBC-SHA256.		
	TLS-DHE-RSA-WITH-SEED-CBC-SHA	Cipher suite TLS-DHE-RSA-WITH-SEED-CBC-SHA.		
	TLS-DHE-DSS-WITH-SEED-CBC-SHA	Cipher suite TLS-DHE-DSS-WITH-SEED-CBC-SHA.		
	TLS-DHE-RSA-WITH-ARIA-128-CBC-SHA256	Cipher suite TLS-DHE-RSA-WITH-ARIA-128-CBC-SHA256.		
TLS-DHE-RSA-WITH-ARIA-256-CBC-SHA384	Cipher suite TLS-DHE-RSA-WITH-ARIA-256-CBC-SHA384.			

Parameter	Description	Type	Size	Default																								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>TLS-DHE-DSS-WITH-ARIA-128-CBC-SHA256</i></td><td>Cipher suite TLS-DHE-DSS-WITH-ARIA-128-CBC-SHA256.</td></tr><tr><td><i>TLS-DHE-DSS-WITH-ARIA-256-CBC-SHA384</i></td><td>Cipher suite TLS-DHE-DSS-WITH-ARIA-256-CBC-SHA384.</td></tr><tr><td><i>TLS-RSA-WITH-SEED-CBC-SHA</i></td><td>Cipher suite TLS-RSA-WITH-SEED-CBC-SHA.</td></tr><tr><td><i>TLS-RSA-WITH-ARIA-128-CBC-SHA256</i></td><td>Cipher suite TLS-RSA-WITH-ARIA-128-CBC-SHA256.</td></tr><tr><td><i>TLS-RSA-WITH-ARIA-256-CBC-SHA384</i></td><td>Cipher suite TLS-RSA-WITH-ARIA-256-CBC-SHA384.</td></tr><tr><td><i>TLS-ECDHE-RSA-WITH-ARIA-128-CBC-SHA256</i></td><td>Cipher suite TLS-ECDHE-RSA-WITH-ARIA-128-CBC-SHA256.</td></tr><tr><td><i>TLS-ECDHE-RSA-WITH-ARIA-256-CBC-SHA384</i></td><td>Cipher suite TLS-ECDHE-RSA-WITH-ARIA-256-CBC-SHA384.</td></tr><tr><td><i>TLS-ECDHE-ECDSA-WITH-ARIA-128-CBC-SHA256</i></td><td>Cipher suite TLS-ECDHE-ECDSA-WITH-ARIA-128-CBC_SHA256.</td></tr><tr><td><i>TLS-ECDHE-ECDSA-WITH-ARIA-256-CBC-SHA384</i></td><td>Cipher suite TLS-ECDHE-ECDSA-WITH-ARIA-256-CBC_SHA384.</td></tr><tr><td><i>TLS-ECDHE-RSA-WITH-RC4-128-SHA</i></td><td>Cipher suite TLS-ECDHE-RSA-WITH-RC4-128-SHA.</td></tr><tr><td><i>TLS-ECDHE-RSA-WITH-3DES-EDE-CBC-SHA</i></td><td>Cipher suite TLS-ECDHE-RSA-WITH-3DES-EDE-CBC-SHA.</td></tr></table>	Option	Description	<i>TLS-DHE-DSS-WITH-ARIA-128-CBC-SHA256</i>	Cipher suite TLS-DHE-DSS-WITH-ARIA-128-CBC-SHA256.	<i>TLS-DHE-DSS-WITH-ARIA-256-CBC-SHA384</i>	Cipher suite TLS-DHE-DSS-WITH-ARIA-256-CBC-SHA384.	<i>TLS-RSA-WITH-SEED-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-SEED-CBC-SHA.	<i>TLS-RSA-WITH-ARIA-128-CBC-SHA256</i>	Cipher suite TLS-RSA-WITH-ARIA-128-CBC-SHA256.	<i>TLS-RSA-WITH-ARIA-256-CBC-SHA384</i>	Cipher suite TLS-RSA-WITH-ARIA-256-CBC-SHA384.	<i>TLS-ECDHE-RSA-WITH-ARIA-128-CBC-SHA256</i>	Cipher suite TLS-ECDHE-RSA-WITH-ARIA-128-CBC-SHA256.	<i>TLS-ECDHE-RSA-WITH-ARIA-256-CBC-SHA384</i>	Cipher suite TLS-ECDHE-RSA-WITH-ARIA-256-CBC-SHA384.	<i>TLS-ECDHE-ECDSA-WITH-ARIA-128-CBC-SHA256</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-ARIA-128-CBC_SHA256.	<i>TLS-ECDHE-ECDSA-WITH-ARIA-256-CBC-SHA384</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-ARIA-256-CBC_SHA384.	<i>TLS-ECDHE-RSA-WITH-RC4-128-SHA</i>	Cipher suite TLS-ECDHE-RSA-WITH-RC4-128-SHA.	<i>TLS-ECDHE-RSA-WITH-3DES-EDE-CBC-SHA</i>	Cipher suite TLS-ECDHE-RSA-WITH-3DES-EDE-CBC-SHA.			
Option	Description																											
<i>TLS-DHE-DSS-WITH-ARIA-128-CBC-SHA256</i>	Cipher suite TLS-DHE-DSS-WITH-ARIA-128-CBC-SHA256.																											
<i>TLS-DHE-DSS-WITH-ARIA-256-CBC-SHA384</i>	Cipher suite TLS-DHE-DSS-WITH-ARIA-256-CBC-SHA384.																											
<i>TLS-RSA-WITH-SEED-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-SEED-CBC-SHA.																											
<i>TLS-RSA-WITH-ARIA-128-CBC-SHA256</i>	Cipher suite TLS-RSA-WITH-ARIA-128-CBC-SHA256.																											
<i>TLS-RSA-WITH-ARIA-256-CBC-SHA384</i>	Cipher suite TLS-RSA-WITH-ARIA-256-CBC-SHA384.																											
<i>TLS-ECDHE-RSA-WITH-ARIA-128-CBC-SHA256</i>	Cipher suite TLS-ECDHE-RSA-WITH-ARIA-128-CBC-SHA256.																											
<i>TLS-ECDHE-RSA-WITH-ARIA-256-CBC-SHA384</i>	Cipher suite TLS-ECDHE-RSA-WITH-ARIA-256-CBC-SHA384.																											
<i>TLS-ECDHE-ECDSA-WITH-ARIA-128-CBC-SHA256</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-ARIA-128-CBC_SHA256.																											
<i>TLS-ECDHE-ECDSA-WITH-ARIA-256-CBC-SHA384</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-ARIA-256-CBC_SHA384.																											
<i>TLS-ECDHE-RSA-WITH-RC4-128-SHA</i>	Cipher suite TLS-ECDHE-RSA-WITH-RC4-128-SHA.																											
<i>TLS-ECDHE-RSA-WITH-3DES-EDE-CBC-SHA</i>	Cipher suite TLS-ECDHE-RSA-WITH-3DES-EDE-CBC-SHA.																											

Parameter	Description	Type	Size	Default																
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>TLS-DHE-DSS-WITH-3DES-EDE-CBC-SHA</i></td><td>Cipher suite TLS-DHE-DSS-WITH-3DES-EDE-CBC-SHA.</td></tr><tr><td><i>TLS-RSA-WITH-3DES-EDE-CBC-SHA</i></td><td>Cipher suite TLS-RSA-WITH-3DES-EDE-CBC-SHA.</td></tr><tr><td><i>TLS-RSA-WITH-RC4-128-MD5</i></td><td>Cipher suite TLS-RSA-WITH-RC4-128-MD5.</td></tr><tr><td><i>TLS-RSA-WITH-RC4-128-SHA</i></td><td>Cipher suite TLS-RSA-WITH-RC4-128-SHA.</td></tr><tr><td><i>TLS-DHE-RSA-WITH-DES-CBC-SHA</i></td><td>Cipher suite TLS-DHE-RSA-WITH-DES-CBC-SHA.</td></tr><tr><td><i>TLS-DHE-DSS-WITH-DES-CBC-SHA</i></td><td>Cipher suite TLS-DHE-DSS-WITH-DES-CBC-SHA.</td></tr><tr><td><i>TLS-RSA-WITH-DES-CBC-SHA</i></td><td>Cipher suite TLS-RSA-WITH-DES-CBC-SHA.</td></tr></table>	Option	Description	<i>TLS-DHE-DSS-WITH-3DES-EDE-CBC-SHA</i>	Cipher suite TLS-DHE-DSS-WITH-3DES-EDE-CBC-SHA.	<i>TLS-RSA-WITH-3DES-EDE-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-3DES-EDE-CBC-SHA.	<i>TLS-RSA-WITH-RC4-128-MD5</i>	Cipher suite TLS-RSA-WITH-RC4-128-MD5.	<i>TLS-RSA-WITH-RC4-128-SHA</i>	Cipher suite TLS-RSA-WITH-RC4-128-SHA.	<i>TLS-DHE-RSA-WITH-DES-CBC-SHA</i>	Cipher suite TLS-DHE-RSA-WITH-DES-CBC-SHA.	<i>TLS-DHE-DSS-WITH-DES-CBC-SHA</i>	Cipher suite TLS-DHE-DSS-WITH-DES-CBC-SHA.	<i>TLS-RSA-WITH-DES-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-DES-CBC-SHA.			
	Option	Description																		
	<i>TLS-DHE-DSS-WITH-3DES-EDE-CBC-SHA</i>	Cipher suite TLS-DHE-DSS-WITH-3DES-EDE-CBC-SHA.																		
	<i>TLS-RSA-WITH-3DES-EDE-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-3DES-EDE-CBC-SHA.																		
	<i>TLS-RSA-WITH-RC4-128-MD5</i>	Cipher suite TLS-RSA-WITH-RC4-128-MD5.																		
	<i>TLS-RSA-WITH-RC4-128-SHA</i>	Cipher suite TLS-RSA-WITH-RC4-128-SHA.																		
	<i>TLS-DHE-RSA-WITH-DES-CBC-SHA</i>	Cipher suite TLS-DHE-RSA-WITH-DES-CBC-SHA.																		
	<i>TLS-DHE-DSS-WITH-DES-CBC-SHA</i>	Cipher suite TLS-DHE-DSS-WITH-DES-CBC-SHA.																		
<i>TLS-RSA-WITH-DES-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-DES-CBC-SHA.																			
versions	SSL/TLS versions that the cipher suite can be used with.	option	-	tls-1.0 tls-1.1 tls-1.2 tls-1.3																
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>tls-1.0</i></td><td>TLS 1.0.</td></tr><tr><td><i>tls-1.1</i></td><td>TLS 1.1.</td></tr><tr><td><i>tls-1.2</i></td><td>TLS 1.2.</td></tr><tr><td><i>tls-1.3</i></td><td>TLS 1.3.</td></tr></table>	Option	Description	<i>tls-1.0</i>	TLS 1.0.	<i>tls-1.1</i>	TLS 1.1.	<i>tls-1.2</i>	TLS 1.2.	<i>tls-1.3</i>	TLS 1.3.									
	Option	Description																		
	<i>tls-1.0</i>	TLS 1.0.																		
	<i>tls-1.1</i>	TLS 1.1.																		
	<i>tls-1.2</i>	TLS 1.2.																		
<i>tls-1.3</i>	TLS 1.3.																			

config firewall access-proxy6

Configure IPv6 access proxy.

```
config firewall access-proxy6
    Description: Configure IPv6 access proxy.
    edit <name>
        set vip {string}
    next
end
```


config firewall access-proxy6

Parameter	Description	Type	Size	Default
name	Access Proxy name.	string	Maximum length: 79	
vip	Virtual IP name.	string	Maximum length: 79	

config firewall access-proxy-ssh-client-cert

Configure Access Proxy SSH client certificate.

```
config firewall access-proxy-ssh-client-cert
  Description: Configure Access Proxy SSH client certificate.
  edit <name>
    set source-address [enable|disable]
    set permit-x11-forwarding [enable|disable]
    set permit-agent-forwarding [enable|disable]
    set permit-port-forwarding [enable|disable]
    set permit-pty [enable|disable]
    set permit-user-rc [enable|disable]
    config cert-extension
      Description: Configure certificate extension for user certificate.
      edit <name>
        set critical [no|yes]
        set type [fixed|user]
        set data {string}
      next
    end
    set auth-ca {string}
  next
end
```

config firewall access-proxy-ssh-client-cert

Parameter	Description	Type	Size	Default
name	SSH client certificate name.	string	Maximum length: 79	
source-address	Enable/disable appending source-address certificate critical option. This option ensure certificate only accepted from FortiGate source address.	option	-	disable
	Option	Description		
	enable	Enable setting.		
	disable	Disable setting.		

Parameter	Description	Type	Size	Default						
permit-x11-forwarding	Enable/disable appending permit-x11-forwarding certificate extension.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									
permit-agent-forwarding	Enable/disable appending permit-agent-forwarding certificate extension.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									
permit-port-forwarding	Enable/disable appending permit-port-forwarding certificate extension.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									
permit-pty	Enable/disable appending permit-pty certificate extension.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									
permit-user-rc	Enable/disable appending permit-user-rc certificate extension.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									
auth-ca	Name of the SSH server public key authentication CA.	string	Maximum length: 79							

config cert-extension

Parameter	Description	Type	Size	Default
name	Name of certificate extension.	string	Maximum length: 127	
critical	Critical option.	option	-	no
	Option	Description		
	<i>no</i>	Certificate extension, server ignores the unsupported certificate extension.		
	<i>yes</i>	Critical option, server refuses to authorize if it cannot recognize the critical option.		
type	Type of certificate extension.	option	-	fixed
	Option	Description		
	<i>fixed</i>	Fixed certificate extension entry.		
	<i>user</i>	Certificate extension entry filled with authenticated username.		
data	Data of certificate extension.	string	Maximum length: 127	

config firewall access-proxy-virtual-host

Configure Access Proxy virtual hosts.

```
config firewall access-proxy-virtual-host
  Description: Configure Access Proxy virtual hosts.
  edit <name>
    set ssl-certificate <name1>, <name2>, ...
    set host {string}
    set host-type [sub-string|wildcard]
    set replacemsg-group {string}
    set empty-cert-action [accept|block|...]
    set user-agent-detect [disable|enable]
    set client-cert [disable|enable]
  next
end
```

config firewall access-proxy-virtual-host

Parameter	Description	Type	Size	Default
name	Virtual host name.	string	Maximum length: 79	

Parameter	Description	Type	Size	Default								
ssl-certificate <name>	SSL certificates for this host. Certificate list.	string	Maximum length: 79									
host	The host name.	string	Maximum length: 79									
host-type	Type of host pattern.	option	-	sub-string								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>sub-string</i></td><td>Match the pattern if a string contains the sub-string.</td></tr><tr><td><i>wildcard</i></td><td>Match the pattern with wildcards.</td></tr></table>	Option	Description	<i>sub-string</i>	Match the pattern if a string contains the sub-string.	<i>wildcard</i>	Match the pattern with wildcards.					
Option	Description											
<i>sub-string</i>	Match the pattern if a string contains the sub-string.											
<i>wildcard</i>	Match the pattern with wildcards.											
replacemsg-group	Access-proxy-virtual-host replacement message override group.	string	Maximum length: 35									
empty-cert-action	Action for an empty client certificate.	option	-	block								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>accept</i></td><td>Accept the SSL handshake if the client certificate is empty.</td></tr><tr><td><i>block</i></td><td>Block the SSL handshake if the client certificate is empty.</td></tr><tr><td><i>accept-unmanageable</i></td><td>Accept the SSL handshake only if the end-point is unmanageable.</td></tr></table>	Option	Description	<i>accept</i>	Accept the SSL handshake if the client certificate is empty.	<i>block</i>	Block the SSL handshake if the client certificate is empty.	<i>accept-unmanageable</i>	Accept the SSL handshake only if the end-point is unmanageable.			
Option	Description											
<i>accept</i>	Accept the SSL handshake if the client certificate is empty.											
<i>block</i>	Block the SSL handshake if the client certificate is empty.											
<i>accept-unmanageable</i>	Accept the SSL handshake only if the end-point is unmanageable.											
user-agent-detect	Enable/disable detecting device type by HTTP user-agent if no client certificate is provided.	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable detecting unknown devices by HTTP user-agent if no client certificate is provided.</td></tr><tr><td><i>enable</i></td><td>Enable detecting unknown devices by HTTP user-agent if no client certificate is provided.</td></tr></table>	Option	Description	<i>disable</i>	Disable detecting unknown devices by HTTP user-agent if no client certificate is provided.	<i>enable</i>	Enable detecting unknown devices by HTTP user-agent if no client certificate is provided.					
Option	Description											
<i>disable</i>	Disable detecting unknown devices by HTTP user-agent if no client certificate is provided.											
<i>enable</i>	Enable detecting unknown devices by HTTP user-agent if no client certificate is provided.											
client-cert	Enable/disable requesting client certificate.	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable client certificate request.</td></tr><tr><td><i>enable</i></td><td>Enable client certificate request.</td></tr></table>	Option	Description	<i>disable</i>	Disable client certificate request.	<i>enable</i>	Enable client certificate request.					
Option	Description											
<i>disable</i>	Disable client certificate request.											
<i>enable</i>	Enable client certificate request.											

config firewall address

Configure IPv4 addresses.

```

config firewall address
    Description: Configure IPv4 addresses.
    edit <name>
        set uuid {uuid}
        set subnet {ipv4-classnet-any}
        set type [ipmask|iprange|...]
        set route-tag {integer}
        set sub-type [sdn|clearpass-spt|...]
        set clearpass-spt [unknown|healthy|...]
        set start-ip {ipv4-address-any}
        set end-ip {ipv4-address-any}
        set fqdn {string}
        set country {string}
        set wildcard-fqdn {string}
        set pattern-start {integer}
        set pattern-end {integer}
        set cache-ttl {integer}
        set wildcard {ipv4-classnet-any}
        set sdn {string}
        set fsso-group <name1>, <name2>, ...
        set interface {string}
        set tenant {string}
        set organization {string}
        set epq-name {string}
        set subnet-name {string}
        set sdn-tag {string}
        set policy-group {string}
        set obj-tag {string}
        set obj-type [ip|mac]
        set tag-detection-level {string}
        set tag-type {string}
        set hw-vendor {string}
        set hw-model {string}
        set os {string}
        set sw-version {string}
        set comment {var-string}
        set associated-interface {string}
        set color {integer}
        set filter {var-string}
        set sdn-addr-type [private|public|...]
        set node-ip-only [enable|disable]
        set obj-id {var-string}
    config list
        Description: IP address list.
        edit <ip>
            next
        end
    config tagging
        Description: Config object tagging.
        edit <name>
            set category {string}
            set tags <name1>, <name2>, ...
        next
    end
    set allow-routing [enable|disable]
    set fabric-object [enable|disable]

```

next
end

config firewall address

Parameter	Description	Type	Size	Default
name	Address name.	string	Maximum length: 79	
uuid	Universally Unique Identifier (UUID; automatically assigned but can be manually reset).	uuid	Not Specified	00000000-0000-0000-0000-000000000000
subnet	IP address and subnet mask of address.	ipv4-classnet-any	Not Specified	0.0.0.0 0.0.0.0
type	Type of address.	option	-	ipmask
	OptionDescription			
	ipmask	Standard IPv4 address with subnet mask.		
	iprange	Range of IPv4 addresses between two specified addresses (inclusive).		
	fqdn	Fully Qualified Domain Name address.		
	fqdn-group	Fully Qualified Domain Name Group address.		
	geography	IP addresses from a specified country.		
	wildcard	Standard IPv4 using a wildcard subnet mask.		
	dynamic	Dynamic address object.		
	interface-subnet	IP and subnet of interface.		
route-tag	route-tag address.	integer	Minimum value: 1 Maximum value: 4294967295	0
sub-type	Sub-type of address.	option	-	sdn
	OptionDescription			
	sdn	SDN address.		
	clearpass-spt	ClearPass SPT (System Posture Token) address.		
	fsso	FSSO address.		
	ems-tag	FortiClient EMS tag.		

Parameter	Description	Type	Size	Default														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>fortivoice-tag</i></td><td>FortiVoice tag.</td></tr><tr><td><i>fortinac-tag</i></td><td>FortiNAC tag.</td></tr><tr><td><i>fortipolicy-tag</i></td><td>FortiPolicy tag.</td></tr><tr><td><i>swc-tag</i></td><td>Switch Controller NAC policy tag.</td></tr><tr><td><i>device-identification</i></td><td>Device address.</td></tr></table>	Option	Description	<i>fortivoice-tag</i>	FortiVoice tag.	<i>fortinac-tag</i>	FortiNAC tag.	<i>fortipolicy-tag</i>	FortiPolicy tag.	<i>swc-tag</i>	Switch Controller NAC policy tag.	<i>device-identification</i>	Device address.					
	Option	Description																
	<i>fortivoice-tag</i>	FortiVoice tag.																
	<i>fortinac-tag</i>	FortiNAC tag.																
	<i>fortipolicy-tag</i>	FortiPolicy tag.																
	<i>swc-tag</i>	Switch Controller NAC policy tag.																
	<i>device-identification</i>	Device address.																
clearpass-spt	SPT (System Posture Token) value.	option	-	unknown														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>unknown</i></td><td>UNKNOWN.</td></tr><tr><td><i>healthy</i></td><td>HEALTHY.</td></tr><tr><td><i>quarantine</i></td><td>QUARANTINE.</td></tr><tr><td><i>checkup</i></td><td>CHECKUP.</td></tr><tr><td><i>transient</i></td><td>TRANSIENT.</td></tr><tr><td><i>infected</i></td><td>INFECTED.</td></tr></table>	Option	Description	<i>unknown</i>	UNKNOWN.	<i>healthy</i>	HEALTHY.	<i>quarantine</i>	QUARANTINE.	<i>checkup</i>	CHECKUP.	<i>transient</i>	TRANSIENT.	<i>infected</i>	INFECTED.			
	Option	Description																
	<i>unknown</i>	UNKNOWN.																
	<i>healthy</i>	HEALTHY.																
	<i>quarantine</i>	QUARANTINE.																
	<i>checkup</i>	CHECKUP.																
	<i>transient</i>	TRANSIENT.																
<i>infected</i>	INFECTED.																	
start-ip	First IP address (inclusive) in the range for the address.	ipv4-address-any	Not Specified	0.0.0.0														
end-ip	Final IP address (inclusive) in the range for the address.	ipv4-address-any	Not Specified	0.0.0.0														
fqdn	Fully Qualified Domain Name address.	string	Maximum length: 255															
country	IP addresses associated to a specific country.	string	Maximum length: 2															
wildcard-fqdn	Fully Qualified Domain Name with wildcard characters.	string	Maximum length: 255															
pattern-start	Starting number of pattern for fqdn-group.	integer	Minimum value: 0 Maximum value: 65535	0														

Parameter	Description	Type	Size	Default
pattern-end	Ending number of pattern for fqdn-group.	integer	Minimum value: 0 Maximum value: 65535	0
cache-ttl	Defines the minimal TTL of individual IP addresses in FQDN cache measured in seconds.	integer	Minimum value: 0 Maximum value: 86400	0
wildcard	IP address and wildcard netmask.	ipv4-classnet-any	Not Specified	0.0.0.0 0.0.0.0
sdn	SDN.	string	Maximum length: 35	
fsso-group <name>	FSSO group(s). FSSO group name.	string	Maximum length: 511	
interface	Name of interface whose IP address is to be used.	string	Maximum length: 35	
tenant	Tenant.	string	Maximum length: 35	
organization	Organization domain name (Syntax: organization/domain).	string	Maximum length: 35	
epg-name	Endpoint group name.	string	Maximum length: 255	
subnet-name	Subnet name.	string	Maximum length: 255	
sdn-tag	SDN Tag.	string	Maximum length: 15	
policy-group	Policy group name.	string	Maximum length: 15	
obj-tag	Tag of dynamic address object.	string	Maximum length: 255	
obj-type	Object type.	option	-	ip
		Option	Description	
		<i>ip</i>	IP address.	
		<i>mac</i>	MAC address	

Parameter	Description	Type	Size	Default
tag-detection-level	Tag detection level of dynamic address object.	string	Maximum length: 15	
tag-type	Tag type of dynamic address object.	string	Maximum length: 63	
hw-vendor	Dynamic address matching hardware vendor.	string	Maximum length: 35	
hw-model	Dynamic address matching hardware model.	string	Maximum length: 35	
os	Dynamic address matching operating system.	string	Maximum length: 35	
sw-version	Dynamic address matching software version.	string	Maximum length: 35	
comment	Comment.	var-string	Maximum length: 255	
associated-interface	Network interface associated with address.	string	Maximum length: 35	
color	Color of icon on the GUI.	integer	Minimum value: 0 Maximum value: 32	0
filter	Match criteria filter.	var-string	Maximum length: 2047	
sdn-addr-type	Type of addresses to collect.	option	-	private
	OptionDescription			
	private	Collect private addresses only.		
	public	Collect public addresses only.		
	all	Collect both public and private addresses.		
node-ip-only	Enable/disable collection of node addresses only in Kubernetes.	option	-	disable
	OptionDescription			
	enable	Enable collection of node addresses only in Kubernetes.		
	disable	Disable collection of node addresses only in Kubernetes.		
obj-id	Object ID for NSX.	var-string	Maximum length: 255	

Parameter	Description	Type	Size	Default
allow-routing	Enable/disable use of this address in the static route configuration.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable use of this address in the static route configuration.		
	<i>disable</i>	Disable use of this address in the static route configuration.		
fabric-object	Security Fabric global object setting.	option	-	disable
	Option	Description		
	<i>enable</i>	Object is set as a security fabric-wide global object.		
	<i>disable</i>	Object is local to this security fabric member.		

config list

Parameter	Description	Type	Size	Default
ip	IP.	string	Maximum length: 35	

config tagging

Parameter	Description	Type	Size	Default
name	Tagging entry name.	string	Maximum length: 63	
category	Tag category.	string	Maximum length: 63	
tags <name>	Tags. Tag name.	string	Maximum length: 79	

config firewall address6

Configure IPv6 firewall addresses.

```
config firewall address6
    Description: Configure IPv6 firewall addresses.
    edit <name>
        set uuid {uuid}
        set type [ipprefix|iprange|...]
        set route-tag {integer}
        set sdn {string}
        set ipv6 {ipv6-network}
```

```

set start-ip {ipv6-address}
set end-ip {ipv6-address}
set fqdn {string}
set country {string}
set cache-ttl {integer}
set color {integer}
set obj-id {var-string}
config list
    Description: IP address list.
    edit <ip>
    next
end
config tagging
    Description: Config object tagging.
    edit <name>
        set category {string}
        set tags <name1>, <name2>, ...
    next
end
set comment {var-string}
set template {string}
config subnet-segment
    Description: IPv6 subnet segments.
    edit <name>
        set type [any|specific]
        set value {string}
    next
end
set host-type [any|specific]
set host {ipv6-address}
set tenant {string}
set epg-name {string}
set sdn-tag {string}
set filter {var-string}
set sdn-addr-type [private|public|...]
set fabric-object [enable|disable]
next
end

```

config firewall address6

Parameter	Description	Type	Size	Default
name	Address name.	string	Maximum length: 79	
uuid	Universally Unique Identifier (UUID; automatically assigned but can be manually reset).	uuid	Not Specified	00000000-0000-0000-0000-000000000000
type	Type of IPv6 address object (default = ipprefix).	option	-	ipprefix

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>ipprefix</i>	Uses the IP prefix to define a range of IPv6 addresses.		
	<i>iprange</i>	Range of IPv6 addresses between two specified addresses (inclusive).		
	<i>fqdn</i>	Fully qualified domain name.		
	<i>geography</i>	IPv6 addresses from a specified country.		
	<i>dynamic</i>	Dynamic address object for SDN.		
	<i>template</i>	Template.		
	<i>route-tag</i>	route-tag addresses.		
route-tag	route-tag address.	integer	Minimum value: 1 Maximum value: 4294967295	0
sdn	SDN.	string	Maximum length: 35	
ip6	IPv6 address prefix (format: xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx/xxx).	ipv6-network	Not Specified	::/0
start-ip	First IP address (inclusive) in the range for the address (format: xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx).	ipv6-address	Not Specified	::
end-ip	Final IP address (inclusive) in the range for the address (format: xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx).	ipv6-address	Not Specified	::
fqdn	Fully qualified domain name.	string	Maximum length: 255	
country	IPv6 addresses associated to a specific country.	string	Maximum length: 2	
cache-ttl	Minimal TTL of individual IPv6 addresses in FQDN cache.	integer	Minimum value: 0 Maximum value: 86400	0
color	Integer value to determine the color of the icon in the GUI (range 1 to 32, default = 0, which sets the value to 1).	integer	Minimum value: 0 Maximum value: 32	0

Parameter	Description	Type	Size	Default
obj-id	Object ID for NSX.	var-string	Maximum length: 255	
comment	Comment.	var-string	Maximum length: 255	
template	IPv6 address template.	string	Maximum length: 63	
host-type	Host type.	option	-	any
	Option	Description		
	<i>any</i>	Wildcard.		
	<i>specific</i>	Specific host address.		
host	Host Address.	ipv6-address	Not Specified	::
tenant	Tenant.	string	Maximum length: 35	
epg-name	Endpoint group name.	string	Maximum length: 255	
sdn-tag	SDN Tag.	string	Maximum length: 15	
filter	Match criteria filter.	var-string	Maximum length: 2047	
sdn-addr-type	Type of addresses to collect.	option	-	private
	Option	Description		
	<i>private</i>	Collect private addresses only.		
	<i>public</i>	Collect public addresses only.		
	<i>all</i>	Collect both public and private addresses.		
fabric-object	Security Fabric global object setting.	option	-	disable
	Option	Description		
	<i>enable</i>	Object is set as a security fabric-wide global object.		
	<i>disable</i>	Object is local to this security fabric member.		

config list

Parameter	Description	Type	Size	Default
ip	IP.	string	Maximum length: 89	

config tagging

Parameter	Description	Type	Size	Default
name	Tagging entry name.	string	Maximum length: 63	
category	Tag category.	string	Maximum length: 63	
tags <name>	Tags. Tag name.	string	Maximum length: 79	

config subnet-segment

Parameter	Description	Type	Size	Default
name	Name.	string	Maximum length: 63	
type	Subnet segment type.	option	-	any
	Option	Description		
	<i>any</i>	Wildcard.		
	<i>specific</i>	Specific subnet segment address.		
value	Subnet segment value.	string	Maximum length: 35	

config firewall address6-template

Configure IPv6 address templates.

```
config firewall address6-template
  Description: Configure IPv6 address templates.
  edit <name>
    set ip6 {ipv6-network}
    set subnet-segment-count {integer}
    config subnet-segment
      Description: IPv6 subnet segments.
      edit <id>
        set name {string}
```

```

        set bits {integer}
        set exclusive [enable|disable]
        config values
            Description: Subnet segment values.
            edit <name>
                set value {string}
            next
        end
    next
end
set fabric-object [enable|disable]
next
end

```

config firewall address6-template

Parameter	Description	Type	Size	Default
name	IPv6 address template name.	string	Maximum length: 63	
ip6	IPv6 address prefix.	ipv6-network	Not Specified	::/0
subnet-segment-count	Number of IPv6 subnet segments.	integer	Minimum value: 1 Maximum value: 6	0
fabric-object	Security Fabric global object setting.	option	-	disable
	Option	Description		
	enable	Object is set as a security fabric-wide global object.		
	disable	Object is local to this security fabric member.		

config subnet-segment

Parameter	Description	Type	Size	Default
id	Subnet segment ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
name	Subnet segment name.	string	Maximum length: 63	

Parameter	Description	Type	Size	Default						
bits	Number of bits.	integer	Minimum value: 1 Maximum value: 16	0						
exclusive	Enable/disable exclusive value.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable exclusive value.</td></tr><tr><td><i>disable</i></td><td>Disable exclusive value.</td></tr></table>				Option	Description	<i>enable</i>	Enable exclusive value.	<i>disable</i>	Disable exclusive value.
Option	Description									
<i>enable</i>	Enable exclusive value.									
<i>disable</i>	Disable exclusive value.									

config values

Parameter	Description	Type	Size	Default
name	Subnet segment value name.	string	Maximum length: 63	
value	Subnet segment value.	string	Maximum length: 35	

config firewall addrgrp

Configure IPv4 address groups.

```

config firewall addrgrp
    Description: Configure IPv4 address groups.
    edit <name>
        set type [default|folder]
        set category [default|ztna-ems-tag|...]
        set uuid {uuid}
        set allow-routing [enable|disable]
        set member <name1>, <name2>, ...
        set comment {var-string}
        set exclude [enable|disable]
        set exclude-member <name1>, <name2>, ...
        set color {integer}
        config tagging
            Description: Config object tagging.
            edit <name>
                set category {string}
                set tags <name1>, <name2>, ...
            next
        end
        set fabric-object [enable|disable]
    next
end

```


config firewall addrgrp

Parameter	Description	Type	Size	Default
name	Address group name.	string	Maximum length: 79	
type	Address group type.	option	-	default
	Option Description			
	default	Default address group type (address may belong to multiple groups).		
	folder	Address folder group (members may not belong to any other group).		
category	Address group category.	option	-	default
	Option Description			
	default	Default address group category (cannot be used as ztna-ems-tag in policy).		
	ztna-ems-tag	Members must be ztna-ems-tag group or ems-tag address, can be used as ztna-ems-tag in policy.		
	ztna-geo-tag	Members must be ztna-geo-tag group or geographic address, can be used as ztna-geo-tag in policy.		
uuid	Universally Unique Identifier (UUID; automatically assigned but can be manually reset).	uuid	Not Specified	00000000-0000-0000-0000-000000000000
allow-routing	Enable/disable use of this group in the static route configuration.	option	-	disable
	Option Description			
	enable	Enable use of this group in the static route configuration.		
	disable	Disable use of this group in the static route configuration.		
member <name>	Address objects contained within the group. Address name.	string	Maximum length: 79	
comment	Comment.	var-string	Maximum length: 255	
exclude	Enable/disable address exclusion.	option	-	disable
	Option Description			
	enable	Enable address exclusion.		
	disable	Disable address exclusion.		

Parameter	Description	Type	Size	Default						
exclude-member <name>	Address exclusion member. Address name.	string	Maximum length: 79							
color	Color of icon on the GUI.	integer	Minimum value: 0 Maximum value: 32	0						
fabric-object	Security Fabric global object setting.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Object is set as a security fabric-wide global object.</td></tr><tr><td>disable</td><td>Object is local to this security fabric member.</td></tr></table>				Option	Description	enable	Object is set as a security fabric-wide global object.	disable	Object is local to this security fabric member.
Option	Description									
enable	Object is set as a security fabric-wide global object.									
disable	Object is local to this security fabric member.									

config tagging

Parameter	Description	Type	Size	Default
name	Tagging entry name.	string	Maximum length: 63	
category	Tag category.	string	Maximum length: 63	
tags <name>	Tags. Tag name.	string	Maximum length: 79	

config firewall addrgrp6

Configure IPv6 address groups.

```

config firewall addrgrp6
    Description: Configure IPv6 address groups.
    edit <name>
        set uuid {uuid}
        set color {integer}
        set comment {var-string}
        set member <name1>, <name2>, ...
        set exclude [enable|disable]
        set exclude-member <name1>, <name2>, ...
        config tagging
            Description: Config object tagging.
            edit <name>
                set category {string}
                set tags <name1>, <name2>, ...
            next
        next
    end

```

```

        set fabric-object [enable|disable]
    next
end

```

config firewall addrgrp6

Parameter	Description	Type	Size	Default
name	IPv6 address group name.	string	Maximum length: 79	
uuid	Universally Unique Identifier (UUID; automatically assigned but can be manually reset).	uuid	Not Specified	00000000-0000-0000-0000-000000000000
color	Integer value to determine the color of the icon in the GUI (1 - 32, default = 0, which sets the value to 1).	integer	Minimum value: 0 Maximum value: 32	0
comment	Comment.	var-string	Maximum length: 255	
member <name>	Address objects contained within the group. Address6/addrgrp6 name.	string	Maximum length: 79	
exclude	Enable/disable address6 exclusion.	option	-	disable
	Option Description			
	<i>enable</i>	Enable address6 exclusion.		
	<i>disable</i>	Disable address6 exclusion.		
exclude-member <name>	Address6 exclusion member. Address6 name.	string	Maximum length: 79	
fabric-object	Security Fabric global object setting.	option	-	disable
	Option Description			
	<i>enable</i>	Object is set as a security fabric-wide global object.		
	<i>disable</i>	Object is local to this security fabric member.		

config tagging

Parameter	Description	Type	Size	Default
name	Tagging entry name.	string	Maximum length: 63	

Parameter	Description	Type	Size	Default
category	Tag category.	string	Maximum length: 63	
tags <name>	Tags. Tag name.	string	Maximum length: 79	

config firewall auth-portal

Configure firewall authentication portals.

```
config firewall auth-portal
    Description: Configure firewall authentication portals.
    set groups <name1>, <name2>, ...
    set portal-addr {string}
    set portal-addr6 {string}
    set identity-based-route {string}
    set proxy-auth [enable|disable]
end
```

config firewall auth-portal

Parameter	Description	Type	Size	Default
groups <name>	Firewall user groups permitted to authenticate through this portal. Separate group names with spaces. Group name.	string	Maximum length: 79	
portal-addr	Address (or FQDN) of the authentication portal.	string	Maximum length: 63	
portal-addr6	IPv6 address (or FQDN) of authentication portal.	string	Maximum length: 63	
identity-based-route	Name of the identity-based route that applies to this portal.	string	Maximum length: 35	
proxy-auth	Enable/disable authentication by proxy daemon (default = disable).	option	-	disable
		Option	Description	
		<i>enable</i>	Users are authenticated by proxy daemon.	
		<i>disable</i>	Users are not authenticated by proxy daemon.	

config firewall central-snat-map

Configure central SNAT policies.

```

config firewall central-snat-map
  Description: Configure central SNAT policies.
  edit <policyid>
    set status [enable|disable]
    set action [bypass|masquerade|...]
    set ipv6 [enable|disable]
    set srcintf {string}
    set dstintf {string}
    set src-addr <name1>, <name2>, ...
    set src-addr6 <name1>, <name2>, ...
    set dst-addr <name1>, <name2>, ...
    set dst-addr6 <name1>, <name2>, ...
    set nat-ippool <name1>, <name2>, ...
    set nat-ippool6 <name1>, <name2>, ...
  next
end

```

config firewall central-snat-map

Parameter	Description	Type	Size	Default								
policyid	Policy ID.	integer	Minimum value: 0 Maximum value: 4294967295	0								
status	Enable/disable the active status of this policy.	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable this policy.</td></tr><tr><td>disable</td><td>Disable this policy.</td></tr></table>				Option	Description	enable	Enable this policy.	disable	Disable this policy.		
	Option	Description										
	enable	Enable this policy.										
disable	Disable this policy.											
action	central SNAT action.	option	-	masquerade								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>bypass</td><td>Bypass and do not perform NAT.</td></tr><tr><td>masquerade</td><td>NAT using the primary IP of destination interface.</td></tr><tr><td>ippool</td><td>NAT using ip pool.</td></tr></table>				Option	Description	bypass	Bypass and do not perform NAT.	masquerade	NAT using the primary IP of destination interface.	ippool	NAT using ip pool.
	Option	Description										
	bypass	Bypass and do not perform NAT.										
	masquerade	NAT using the primary IP of destination interface.										
ippool	NAT using ip pool.											
ipv6	Enable/disable IPv6.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable ipv6.</td></tr><tr><td>disable</td><td>Disable ipv6.</td></tr></table>				Option	Description	enable	Enable ipv6.	disable	Disable ipv6.		
	Option	Description										
	enable	Enable ipv6.										
disable	Disable ipv6.											

Parameter	Description	Type	Size	Default
srcintf	Source interface name from available interfaces.	string	Maximum length: 35	
dstintf	Destination interface name from available interfaces.	string	Maximum length: 35	
src-addr <name>	IPv4 Original address. Address name.	string	Maximum length: 79	
src-addr6 <name>	IPv6 Original address. Address name.	string	Maximum length: 79	
dst-addr <name>	IPv4 Destination address. Address name.	string	Maximum length: 79	
dst-addr6 <name>	IPv6 Destination address. Address name.	string	Maximum length: 79	
nat-ippool <name>	Name of the IP pools to be used to translate addresses from available IP Pools. IP pool name.	string	Maximum length: 79	
nat-ippool6 <name>	IPv6 pools to be used for source NAT. IPv6 pool name.	string	Maximum length: 79	

config firewall city

Define city table.

```
config firewall city
    Description: Define city table.
    edit <id>
        set name {string}
    next
end
```

config firewall city

Parameter	Description	Type	Size	Default
id	City ID.	integer	Minimum value: 0 Maximum value: 65535	0
name	City name.	string	Maximum length: 63	

config firewall country

Define country table.

```
config firewall country
  Description: Define country table.
  edit <id>
    set name {string}
    set region <id1>, <id2>, ...
  next
end
```

config firewall country

Parameter	Description	Type	Size	Default
id	Country ID.	integer	Minimum value: 0 Maximum value: 65535	0
name	Country name.	string	Maximum length: 63	
region <id>	Region ID list. Region ID.	integer	Minimum value: 0 Maximum value: 65535	

config firewall decrypted-traffic-mirror

Configure decrypted traffic mirror.

```
config firewall decrypted-traffic-mirror
  Description: Configure decrypted traffic mirror.
  edit <name>
    set dstmac {mac-address}
    set traffic-type {option1}, {option2}, ...
    set traffic-source [client|server|...]
    set interface <name1>, <name2>, ...
  next
end
```

config firewall decrypted-traffic-mirror

Parameter	Description	Type	Size	Default
name	Name.	string	Maximum length: 35	
dstmac	Set destination MAC address for mirrored traffic.	mac-address	Not Specified	ff:ff:ff:ff:ff:ff
traffic-type	Types of decrypted traffic to be mirrored.	option	-	ssl
	Option	Description		
	ssl	Mirror decrypted SSL traffic.		
	ssh	Mirror decrypted SSH traffic.		
traffic-source	Source of decrypted traffic to be mirrored.	option	-	client
	Option	Description		
	client	Mirror client side decrypted traffic.		
	server	Mirror server side decrypted traffic.		
	both	Mirror both client and server side decrypted traffic.		
interface <name>	Decrypted traffic mirror interface. Decrypted traffic mirror interface.	string	Maximum length: 79	

config firewall global

Global firewall settings.

```
config firewall global
    Description: Global firewall settings.
    set banned-ip-persistency [disabled|permanent-only|...]
end
```

config firewall global

Parameter	Description	Type	Size	Default				
banned-ip-persistency	Persistency of banned IPs across power cycling.	option	-	disabled				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disabled</i></td><td>No entries are kept across power cycling.</td></tr></table>				Option	Description	<i>disabled</i>	No entries are kept across power cycling.
Option	Description							
<i>disabled</i>	No entries are kept across power cycling.							

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>permanent-only</i>	Only permanent IP bans are kept across power cycling.		
	<i>all</i>	All IP bans are kept across power cycling.		

config firewall identity-based-route

Configure identity based routing.

```
config firewall identity-based-route
    Description: Configure identity based routing.
    edit <name>
        set comments {string}
        config rule
            Description: Rule.
            edit <id>
                set gateway {ipv4-address}
                set device {string}
                set groups <name1>, <name2>, ...
            next
        end
    next
end
```

config firewall identity-based-route

Parameter	Description	Type	Size	Default
name	Name.	string	Maximum length: 35	
comments	Comments.	string	Maximum length: 127	

config rule

Parameter	Description	Type	Size	Default
id	Rule ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
gateway	IPv4 address of the gateway (Format: xxx.xxx.xxx.xxx, Default: 0.0.0.0).	ipv4-address	Not Specified	0.0.0.0

Parameter	Description	Type	Size	Default
device	Outgoing interface for the rule.	string	Maximum length: 35	
groups <name>	Select one or more group(s) from available groups that are allowed to use this route. Separate group names with a space. Group name.	string	Maximum length: 79	

config firewall internet-service

Show Internet Service application.

```
config firewall internet-service
    Description: Show Internet Service application.
    edit <id>
        set name {string}
        set icon-id {integer}
        set direction [src|dst|...]
        set database [isdb|irdb]
        set ip-range-number {integer}
        set extra-ip-range-number {integer}
        set ip-number {integer}
        set ip6-range-number {integer}
        set extra-ip6-range-number {integer}
        set singularity {integer}
        set obsolete {integer}
    next
end
```

config firewall internet-service

Parameter	Description	Type	Size	Default
id	Internet Service ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
name	Internet Service name.	string	Maximum length: 63	
icon-id	Icon ID of Internet Service.	integer	Minimum value: 0 Maximum value: 4294967295	0

Parameter	Description	Type	Size	Default								
direction	How this service may be used in a firewall policy (source, destination or both).	option	-	both								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>src</td><td>As source in the firewall policy.</td></tr><tr><td>dst</td><td>As destination in the firewall policy.</td></tr><tr><td>both</td><td>Both directions in the firewall policy.</td></tr></table>				Option	Description	src	As source in the firewall policy.	dst	As destination in the firewall policy.	both	Both directions in the firewall policy.
	Option	Description										
	src	As source in the firewall policy.										
	dst	As destination in the firewall policy.										
both	Both directions in the firewall policy.											
database	Database name this Internet Service belongs to.	option	-	isdb								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>isdb</td><td>Internet Service Database.</td></tr><tr><td>irdb</td><td>Internet RRR Database.</td></tr></table>				Option	Description	isdb	Internet Service Database.	irdb	Internet RRR Database.		
	Option	Description										
	isdb	Internet Service Database.										
irdb	Internet RRR Database.											
ip-range-number	Number of IPv4 ranges.	integer	Minimum value: 0 Maximum value: 4294967295	0								
extra-ip-range-number	Extra number of IPv4 ranges.	integer	Minimum value: 0 Maximum value: 4294967295	0								
ip-number	Total number of IPv4 addresses.	integer	Minimum value: 0 Maximum value: 4294967295	0								
ip6-range-number	Number of IPv6 ranges.	integer	Minimum value: 0 Maximum value: 4294967295	0								
extra-ip6-range-number	Extra number of IPv6 ranges.	integer	Minimum value: 0 Maximum value: 4294967295	0								

Parameter	Description	Type	Size	Default
singularity	Singular level of the Internet Service.	integer	Minimum value: 0 Maximum value: 65535	0
obsolete	Indicates whether the Internet Service can be used.	integer	Minimum value: 0 Maximum value: 255	0

config firewall internet-service-addition

Configure Internet Services Addition.

```

config firewall internet-service-addition
    Description: Configure Internet Services Addition.
    edit <id>
        set comment {var-string}
        config entry
            Description: Entries added to the Internet Service addition database.
            edit <id>
                set addr-mode [ipv4|ipv6]
                set protocol {integer}
                config port-range
                    Description: Port ranges in the custom entry.
                    edit <id>
                        set start-port {integer}
                        set end-port {integer}
                    next
                next
            end
        next
    end
end

```

config firewall internet-service-addition

Parameter	Description	Type	Size	Default
id	Internet Service ID in the Internet Service database.	integer	Minimum value: 0 Maximum value: 4294967295	0
comment	Comment.	var-string	Maximum length: 255	

config entry

Parameter	Description	Type	Size	Default						
id	Entry ID(1-255).	integer	Minimum value: 0 Maximum value: 255	0						
addr-mode	Address mode (IPv4 or IPv6).	option	-	ipv4						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>ipv4</td><td>IPv4 mode.</td></tr><tr><td>ipv6</td><td>IPv6 mode.</td></tr></table>				Option	Description	ipv4	IPv4 mode.	ipv6	IPv6 mode.
	Option	Description								
	ipv4	IPv4 mode.								
ipv6	IPv6 mode.									
protocol	Integer value for the protocol type as defined by IANA (only TCP is supported).	integer	Minimum value: 6 Maximum value: 6	6						

config port-range

Parameter	Description	Type	Size	Default
id	Custom entry port range ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
start-port	Integer value for starting TCP/UDP/SCTP destination port in range (0 to 65535).	integer	Minimum value: 0 Maximum value: 65535	1
end-port	Integer value for ending TCP/UDP/SCTP destination port in range (0 to 65535).	integer	Minimum value: 0 Maximum value: 65535	65535

config firewall internet-service-append

Configure additional port mappings for Internet Services.

```
config firewall internet-service-append
  Description: Configure additional port mappings for Internet Services.
  set addr-mode [ipv4|ipv6|...]
  set match-port {integer}
  set append-port {integer}
end
```

config firewall internet-service-append

Parameter	Description	Type	Size	Default
addr-mode	Address mode (IPv4 or IPv6).	option	-	ipv4
	Option	Description		
	<i>ipv4</i>	IPv4 mode.		
	<i>ipv6</i>	IPv6 mode.		
	<i>both</i>	Both IPv4 and IPv6 mode.		
match-port	Matching TCP/UDP/SCTP destination port (0 to 65535, 0 means any port).	integer	Minimum value: 0 Maximum value: 65535	0
append-port	Appending TCP/UDP/SCTP destination port (1 to 65535).	integer	Minimum value: 0 Maximum value: 65535	0

config firewall internet-service-botnet

Show Internet Service botnet.

```
config firewall internet-service-botnet
    Description: Show Internet Service botnet.
    edit <id>
        set name {string}
    next
end
```

config firewall internet-service-botnet

Parameter	Description	Type	Size	Default
id	Internet Service Botnet ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
name	Internet Service Botnet name.	string	Maximum length: 63	

config firewall internet-service-custom

Configure custom Internet Services.

```
config firewall internet-service-custom
  Description: Configure custom Internet Services.
  edit <name>
    set reputation {integer}
    set comment {var-string}
    config entry
      Description: Entries added to the Internet Service database and custom database.
      edit <id>
        set addr-mode [ipv4|ipv6]
        set protocol {integer}
        config port-range
          Description: Port ranges in the custom entry.
          edit <id>
            set start-port {integer}
            set end-port {integer}
          next
        end
        set dst <name1>, <name2>, ...
        set dst6 <name1>, <name2>, ...
      next
    end
  next
end
```

config firewall internet-service-custom

Parameter	Description	Type	Size	Default
name	Internet Service name.	string	Maximum length: 63	
reputation	Reputation level of the custom Internet Service.	integer	Minimum value: 0 Maximum value: 4294967295	3
comment	Comment.	var-string	Maximum length: 255	

config entry

Parameter	Description	Type	Size	Default
id	Entry ID(1-255).	integer	Minimum value: 0 Maximum value: 255	0
addr-mode	Address mode (IPv4 or IPv6).	option	-	ipv4
	Option		Description	
	<i>ipv4</i>		IPv4 mode.	
	<i>ipv6</i>		IPv6 mode.	
protocol	Integer value for the protocol type as defined by IANA (only TCP is supported).	integer	Minimum value: 6 Maximum value: 6	6
dst <name>	Destination address or address group name. Select the destination address or address group object from available options.	string	Maximum length: 79	
dst6 <name>	Destination address6 or address6 group name. Select the destination address6 or address group object from available options.	string	Maximum length: 79	

config port-range

Parameter	Description	Type	Size	Default
id	Custom entry port range ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
start-port	Integer value for starting TCP/UDP/SCTP destination port in range (0 to 65535).	integer	Minimum value: 0 Maximum value: 65535	1
end-port	Integer value for ending TCP/UDP/SCTP destination port in range (0 to 65535).	integer	Minimum value: 0 Maximum value: 65535	65535

config firewall internet-service-custom-group

Configure custom Internet Service group.

```
config firewall internet-service-custom-group
  Description: Configure custom Internet Service group.
  edit <name>
    set comment {var-string}
    set member <name1>, <name2>, ...
  next
end
```

config firewall internet-service-custom-group

Parameter	Description	Type	Size	Default
name	Custom Internet Service group name.	string	Maximum length: 63	
comment	Comment.	var-string	Maximum length: 255	
member <name>	Custom Internet Service group members. Group member name.	string	Maximum length: 79	

config firewall internet-service-definition

Configure Internet Service definition.

```
config firewall internet-service-definition
  Description: Configure Internet Service definition.
  edit <id>
    config entry
      Description: Protocol and port information in an Internet Service entry.
      edit <seq-num>
        set category-id {integer}
        set name {string}
        set protocol {integer}
        config port-range
          Description: Port ranges in the definition entry.
          edit <id>
            set start-port {integer}
            set end-port {integer}
          next
        end
      next
    end
  next
end
```

config firewall internet-service-definition

Parameter	Description	Type	Size	Default
id	Internet Service application list ID.	integer	Minimum value: 0 Maximum value: 4294967295	0

config entry

Parameter	Description	Type	Size	Default
seq-num	Entry sequence number.	integer	Minimum value: 0 Maximum value: 4294967295	0
category-id	Internet Service category ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
name	Internet Service name.	string	Maximum length: 63	
protocol	Integer value for the protocol type as defined by IANA (0 - 255).	integer	Minimum value: 0 Maximum value: 255	0

config port-range

Parameter	Description	Type	Size	Default
id	Custom entry port range ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
start-port	Starting TCP/UDP/SCTP destination port (1 to 65535).	integer	Minimum value: 1 Maximum value: 65535	1

Parameter	Description	Type	Size	Default
end-port	Ending TCP/UDP/SCTP destination port (1 to 65535).	integer	Minimum value: 1 Maximum value: 65535	65535

config firewall internet-service-extension

Configure Internet Services Extension.

```
config firewall internet-service-extension
    Description: Configure Internet Services Extension.
    edit <id>
        set comment {var-string}
        config entry
            Description: Entries added to the Internet Service extension database.
            edit <id>
                set addr-mode [ipv4|ipv6]
                set protocol {integer}
                config port-range
                    Description: Port ranges in the custom entry.
                    edit <id>
                        set start-port {integer}
                        set end-port {integer}
                    next
                end
                set dst <name1>, <name2>, ...
                set dst6 <name1>, <name2>, ...
            next
        end
    config disable-entry
        Description: Disable entries in the Internet Service database.
        edit <id>
            set addr-mode [ipv4|ipv6]
            set protocol {integer}
            config port-range
                Description: Port ranges in the disable entry.
                edit <id>
                    set start-port {integer}
                    set end-port {integer}
                next
            end
            config ip-range
                Description: IPv4 ranges in the disable entry.
                edit <id>
                    set start-ip {ipv4-address-any}
                    set end-ip {ipv4-address-any}
                next
            end
            config ip6-range
                Description: IPv6 ranges in the disable entry.
                edit <id>
```

```

        set start-ip6 {ipv6-address}
        set end-ip6 {ipv6-address}
    next
end
next
end
next
end

```

config firewall internet-service-extension

Parameter	Description	Type	Size	Default
id	Internet Service ID in the Internet Service database.	integer	Minimum value: 0 Maximum value: 4294967295	0
comment	Comment.	var-string	Maximum length: 255	

config entry

Parameter	Description	Type	Size	Default
id	Entry ID(1-255).	integer	Minimum value: 0 Maximum value: 255	0
addr-mode	Address mode (IPv4 or IPv6).	option	-	ipv4
	Option	Description		
	ipv4	IPv4 mode.		
	ipv6	IPv6 mode.		
protocol	Integer value for the protocol type as defined by IANA (only TCP is supported).	integer	Minimum value: 6 Maximum value: 6	6
dst <name>	Destination address or address group name. Select the destination address or address group object from available options.	string	Maximum length: 79	
dst6 <name>	Destination address6 or address6 group name. Select the destination address6 or address group object from available options.	string	Maximum length: 79	

config port-range

Parameter	Description	Type	Size	Default
id	Custom entry port range ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
start-port	Integer value for starting TCP/UDP/SCTP destination port in range (0 to 65535).	integer	Minimum value: 0 Maximum value: 65535	1
end-port	Integer value for ending TCP/UDP/SCTP destination port in range (0 to 65535).	integer	Minimum value: 0 Maximum value: 65535	65535

config disable-entry

Parameter	Description	Type	Size	Default
id	Disable entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
addr-mode	Address mode (IPv4 or IPv6).	option	-	ipv4
	Option Description			
	ipv4	IPv4 mode.		
	ipv6	IPv6 mode.		
protocol	Integer value for the protocol type as defined by IANA (0 - 255).	integer	Minimum value: 0 Maximum value: 255	0

config port-range

Parameter	Description	Type	Size	Default
id	Custom entry port range ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
start-port	Starting TCP/UDP/SCTP destination port (0 to 65535).	integer	Minimum value: 0 Maximum value: 65535	1
end-port	Ending TCP/UDP/SCTP destination port (0 to 65535).	integer	Minimum value: 0 Maximum value: 65535	65535

config ip-range

Parameter	Description	Type	Size	Default
id	Disable entry range ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
start-ip	Start IPv4 address.	ipv4-address-any	Not Specified	0.0.0.0
end-ip	End IPv4 address.	ipv4-address-any	Not Specified	0.0.0.0

config ip6-range

Parameter	Description	Type	Size	Default
id	Disable entry range ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
start-ip6	Start IPv6 address.	ipv6-address	Not Specified	::
end-ip6	End IPv6 address.	ipv6-address	Not Specified	::

config firewall internet-service-group

Configure group of Internet Service.

```
config firewall internet-service-group
  Description: Configure group of Internet Service.
  edit <name>
    set comment {var-string}
    set direction [source|destination|...]
    set member <name1>, <name2>, ...
  next
end
```

config firewall internet-service-group

Parameter	Description	Type	Size	Default
name	Internet Service group name.	string	Maximum length: 63	
comment	Comment.	var-string	Maximum length: 255	
direction	How this service may be used (source, destination or both).	option	-	both
		Option	Description	
		<i>source</i>	As source when applied.	
		<i>destination</i>	As destination when applied.	
		<i>both</i>	Both directions when applied.	
member <name>	Internet Service group member. Internet Service name.	string	Maximum length: 79	

config firewall internet-service-ipbl-reason

IP block list reason.

```
config firewall internet-service-ipbl-reason
  Description: IP block list reason.
  edit <id>
    set name {string}
  next
end
```

config firewall internet-service-ipbl-reason

Parameter	Description	Type	Size	Default
id	IP block list reason ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
name	IP block list reason name.	string	Maximum length: 63	

config firewall internet-service-ipbl-vendor

IP block list vendor.

```
config firewall internet-service-ipbl-vendor
  Description: IP block list vendor.
  edit <id>
    set name {string}
  next
end
```

config firewall internet-service-ipbl-vendor

Parameter	Description	Type	Size	Default
id	IP block list vendor ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
name	IP block list vendor name.	string	Maximum length: 63	

config firewall internet-service-list

Internet Service list.

```
config firewall internet-service-list
  Description: Internet Service list.
  edit <id>
    set name {string}
  next
end
```


config firewall internet-service-list

Parameter	Description	Type	Size	Default
id	Internet Service category ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
name	Internet Service category name.	string	Maximum length: 63	

config firewall internet-service-name

Define internet service names.

```
config firewall internet-service-name
  Description: Define internet service names.
  edit <name>
    set type [default|location]
    set internet-service-id {integer}
    set country-id {integer}
    set region-id {integer}
    set city-id {integer}
  next
end
```

config firewall internet-service-name

Parameter	Description	Type	Size	Default
name	Internet Service name.	string	Maximum length: 63	
type	Internet Service name type.	option	-	default
	Option	Description		
	<i>default</i>	Automatically generated Internet Service.		
	<i>location</i>	Geography location based Internet Service.		
internet-service-id	Internet Service ID.	integer	Minimum value: 0 Maximum value: 4294967295	0

Parameter	Description	Type	Size	Default
country-id	Country or Area ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
region-id	Region ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
city-id	City ID.	integer	Minimum value: 0 Maximum value: 4294967295	0

config firewall internet-service-owner

Internet Service owner.

```
config firewall internet-service-owner
    Description: Internet Service owner.
    edit <id>
        set name {string}
    next
end
```

config firewall internet-service-owner

Parameter	Description	Type	Size	Default
id	Internet Service owner ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
name	Internet Service owner name.	string	Maximum length: 63	

config firewall internet-service-reputation

Show Internet Service reputation.

```

config firewall internet-service-reputation
    Description: Show Internet Service reputation.
    edit <id>
        set description {string}
    next
end

```

config firewall internet-service-reputation

Parameter	Description	Type	Size	Default
id	Internet Service Reputation ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
description	Description.	string	Maximum length: 127	

config firewall internet-service-sld

Internet Service Second Level Domain.

```

config firewall internet-service-sld
    Description: Internet Service Second Level Domain.
    edit <id>
        set name {string}
    next
end

```

config firewall internet-service-sld

Parameter	Description	Type	Size	Default
id	Second Level Domain ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
name	Second Level Domain name.	string	Maximum length: 63	

config firewall internet-service-subapp

Show Internet Service sub app ID.

```

config firewall internet-service-subapp
    Description: Show Internet Service sub app ID.
    edit <id>
        set sub-app <id1>, <id2>, ...
    next
end

```

config firewall internet-service-subapp

Parameter	Description	Type	Size	Default
id	Internet Service main ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
sub-app <id>	Subapp number list. Subapp ID.	integer	Minimum value: 0 Maximum value: 4294967295	

config firewall ippool

Configure IPv4 IP pools.

```

config firewall ippool
    Description: Configure IPv4 IP pools.
    edit <name>
        set startip {ipv4-address-any}
        set endip {ipv4-address-any}
        set comments {var-string}
    next
end

```

config firewall ippool

Parameter	Description	Type	Size	Default
name	IP pool name.	string	Maximum length: 79	
startip	First IPv4 address (inclusive) in the range for the address pool (format xxx.xxx.xxx.xxx, Default: 0.0.0.0).	ipv4-address-any	Not Specified	0.0.0.0

Parameter	Description	Type	Size	Default
endip	Final IPv4 address (inclusive) in the range for the address pool (format xxx.xxx.xxx.xxx, Default: 0.0.0.0).	ipv4-address-any	Not Specified	0.0.0.0
comments	Comment.	var-string	Maximum length: 255	

config firewall ippool6

Configure IPv6 IP pools.

```
config firewall ippool6
    Description: Configure IPv6 IP pools.
    edit <name>
        set startip {ipv6-address}
        set endip {ipv6-address}
        set comments {var-string}
        set nat46 [disable|enable]
        set add-nat46-route [disable|enable]
    next
end
```

config firewall ippool6

Parameter	Description	Type	Size	Default
name	IPv6 IP pool name.	string	Maximum length: 79	
startip	First IPv6 address (inclusive) in the range for the address pool (format = xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx, default = ::).	ipv6-address	Not Specified	::
endip	Final IPv6 address (inclusive) in the range for the address pool (format = xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx, default = ::).	ipv6-address	Not Specified	::
comments	Comment.	var-string	Maximum length: 255	
nat46	Enable/disable NAT46.	option	-	disable
		Option	Description	
		<i>disable</i>	Disable NAT46.	
		<i>enable</i>	Enable NAT46.	

Parameter	Description	Type	Size	Default
add-nat46-route	Enable/disable adding NAT46 route.	option	-	enable
	Option	Description		
	<i>disable</i>	Disable adding NAT46 route.		
	<i>enable</i>	Enable adding NAT46 route.		

config firewall network-service-dynamic

Configure Dynamic Network Services.

```
config firewall network-service-dynamic
    Description: Configure Dynamic Network Services.
    edit <name>
        set sdn {string}
        set comment {var-string}
        set filter {var-string}
    next
end
```

config firewall network-service-dynamic

Parameter	Description	Type	Size	Default
name	Dynamic Network Service name.	string	Maximum length: 63	
sdn	SDN connector name.	string	Maximum length: 35	
comment	Comment.	var-string	Maximum length: 255	
filter	Match criteria filter.	var-string	Maximum length: 2047	

config firewall on-demand-sniffer

Configure on-demand packet sniffer.

```
config firewall on-demand-sniffer
    Description: Configure on-demand packet sniffer.
    edit <name>
        set interface <name1>, <name2>, ...
        set max-packet-count {integer}
        set hosts <host1>, <host2>, ...
    end
```

```

    set hostnames <hostname1>, <hostname2>, ...
    set snapshot-length {integer}
    set ports <port1>, <port2>, ...
    set protocols <protocol1>, <protocol2>, ...
    set non-ip-packet [enable|disable]
    set advanced-filter {var-string}
next
end

```

config firewall on-demand-sniffer

Parameter	Description	Type	Size	Default
name	On-demand packet sniffer name.	string	Maximum length: 35	
interface <name>	Interface names that on-demand packet sniffer will take place. Interface name.	string	Maximum length: 79	
max-packet-count	Maximum number of packets to capture per on-demand packet sniffer.	integer	Minimum value: 1 Maximum value: 20000	0
hosts <host>	IPv4 or IPv6 hosts to filter in this traffic sniffer. IPv4 or IPv6 host.	string	Maximum length: 255	
hostnames <hostname>	Hostnames to filter in this traffic sniffer. Hostname.	string	Maximum length: 255	
snapshot-length	Maximum number of bytes to capture per packet.	integer	Minimum value: 1 Maximum value: 262144	1600
ports <port>	Ports to filter for in this traffic sniffer. Port to filter in this traffic sniffer.	integer	Minimum value: 1 Maximum value: 65536	
protocols <protocol>	Protocols to filter in this traffic sniffer. Integer value for the protocol type as defined by IANA (0 - 255).	integer	Minimum value: 0 Maximum value: 255	
non-ip-packet	Include non-IP packets.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable non-IP packets to be included capture.		
	<i>disable</i>	Disable non-IP packets to be included in capture.		
advanced-filter	Advanced freeform filter that will be used over existing filter settings if set. Can only be used by super admin.	var-string	Maximum length: 255	

config firewall policy

Configure firewall policies.

```
config firewall policy
  Description: Configure firewall policies.
  edit <policyid>
    set type [explicit-web|transparent|...]
    set status [enable|disable]
    set name {string}
    set uuid {uuid}
    set force-proxy [enable|disable]
    set implicit-proxy-detection [enable|disable]
    set dynamic-bypass [enable|disable]
    set srcintf <name1>, <name2>, ...
    set dstintf <name1>, <name2>, ...
    set ztna-device-ownership [enable|disable]
    set srcaddr <name1>, <name2>, ...
    set dstaddr <name1>, <name2>, ...
    set srcaddr6 <name1>, <name2>, ...
    set dstaddr6 <name1>, <name2>, ...
    set action [accept|deny|...]
    set schedule {string}
    set policy-expiry [enable|disable]
    set policy-expiry-date {datetime}
    set service <name1>, <name2>, ...
    set explicit-web-proxy <name1>, <name2>, ...
    set transparent [enable|disable]
    set access-proxy <name1>, <name2>, ...
    set ztna-proxy <name1>, <name2>, ...
    set ztna-ems-tag <name1>, <name2>, ...
    set ztna-ems-tag-secondary <name1>, <name2>, ...
    set ztna-tags-match-logic [or|and]
    set device-ownership [enable|disable]
    set pass-through [enable|disable]
    set url-category <id1>, <id2>, ...
    set url-risk <name1>, <name2>, ...
    set internet-service [enable|disable]
    set internet-service-name <name1>, <name2>, ...
    set internet-service-group <name1>, <name2>, ...
    set internet-service-custom <name1>, <name2>, ...
    set internet-service6 [enable|disable]
    set internet-service6-name <name1>, <name2>, ...
```

```
set internet-service6-group <name1>, <name2>, ...
set internet-service6-custom <name1>, <name2>, ...
set internet-service6-custom-group <name1>, <name2>, ...
set internet-service-custom-group <name1>, <name2>, ...
set utm-status [enable|disable]
set ztna-policy-redirect [enable|disable]
set webproxy-profile {string}
set logtraffic [all|utm|...]
set logtraffic-start [enable|disable]
set log-http-transaction [disable|enable]
set extended-log [enable|disable]
set wanopt [enable|disable]
set wanopt-detection [active|passive|...]
set wanopt-passive-opt [default|transparent|...]
set wanopt-profile {string}
set wanopt-peer {string}
set webcache [enable|disable]
set webcache-https [disable|enable]
set reverse-cache [disable|enable]
set http-tunnel-auth [enable|disable]
set ssh-policy-check [enable|disable]
set webproxy-forward-server {string}
set isolator-server {string}
set poolname <name1>, <name2>, ...
set groups <name1>, <name2>, ...
set users <name1>, <name2>, ...
set disclaimer [disable|domain|...]
set comments {var-string}
set redirect-url {var-string}
set custom-log-fields <field-id1>, <field-id2>, ...
set replacemsg-override-group {string}
set srcaddr-negate [enable|disable]
set dstaddr-negate [enable|disable]
set service-negate [enable|disable]
set internet-service-negate [enable|disable]
set internet-service6-negate [enable|disable]
set application <id1>, <id2>, ...
set app-category <id1>, <id2>, ...
set app-group <name1>, <name2>, ...
set https-sub-category [enable|disable]
set decrypted-traffic-mirror {string}
set max-session-per-user {integer}
set profile-type [single|group]
set profile-group {string}
set profile-protocol-options {string}
set ssl-ssh-profile {string}
set av-profile {string}
set ia-profile {string}
set webfilter-profile {string}
set dnsfilter-profile {string}
set emailfilter-profile {string}
set dlp-profile {string}
set file-filter-profile {string}
set ips-sensor {string}
set application-list {string}
set icap-profile {string}
```

```

set cifs-profile {string}
set videofilter-profile {string}
set isolator-profile {string}
set redirect-profile {string}
set ssh-filter-profile {string}
set casb-profile {string}
set detect-https-in-http-request [enable|disable]
set service-connector {string}
next
end

```

config firewall policy

Parameter	Description	Type	Size	Default																		
policyid	Policy ID.	integer	Minimum value: 0 Maximum value: 4294967294	0																		
type	Type of policy.	option	-	transparent																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>explicit-web</i></td><td>Explicit Web Proxy policy</td></tr><tr><td><i>transparent</i></td><td>Transparent firewall policy</td></tr><tr><td><i>explicit-ftp</i></td><td>Explicit FTP Proxy policy</td></tr><tr><td><i>ssh-tunnel</i></td><td>SSH Tunnel policy</td></tr><tr><td><i>ssh</i></td><td>SSH policy</td></tr><tr><td><i>access-proxy</i></td><td>Access Proxy</td></tr><tr><td><i>ztna-proxy</i></td><td>ZTNA Proxy</td></tr><tr><td><i>wanopt</i></td><td>WANopt Tunnel</td></tr></table>	Option	Description	<i>explicit-web</i>	Explicit Web Proxy policy	<i>transparent</i>	Transparent firewall policy	<i>explicit-ftp</i>	Explicit FTP Proxy policy	<i>ssh-tunnel</i>	SSH Tunnel policy	<i>ssh</i>	SSH policy	<i>access-proxy</i>	Access Proxy	<i>ztna-proxy</i>	ZTNA Proxy	<i>wanopt</i>	WANopt Tunnel			
	Option	Description																				
	<i>explicit-web</i>	Explicit Web Proxy policy																				
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	<i>explicit-ftp</i>	Explicit FTP Proxy policy																				
	<i>ssh-tunnel</i>	SSH Tunnel policy																				
	<i>ssh</i>	SSH policy																				
	<i>access-proxy</i>	Access Proxy																				
	<i>ztna-proxy</i>	ZTNA Proxy																				
<i>wanopt</i>	WANopt Tunnel																					
status	Enable or disable this policy.	option	-	enable																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.															
	Option	Description																				
	<i>enable</i>	Enable setting.																				
<i>disable</i>	Disable setting.																					
name	Policy name.	string	Maximum length: 35																			
uuid	Universally Unique Identifier (UUID; automatically assigned but can be manually reset).	uuid	Not Specified	00000000-0000-0000-0000-000000000000																		

Parameter	Description	Type	Size	Default
force-proxy	Force proxy.	option	-	disable
	Option	Description		
	enable	Force all TCP transparent traffic to proxy.		
	disable	Do not force TCP transparent traffic to proxy.		
implicit-proxy-detection	Implicit proxy detection.	option	-	disable
	Option	Description		
	enable	Enable implicit proxy detection.		
	disable	Disable implicit proxy detection.		
dynamic-bypass	Dynamic bypass.	option	-	disable
	Option	Description		
	enable	Enable dynamic bypass to all HTTP traffic in this policy.		
	disable	Disable dynamic bypass to all HTTP traffic in this policy.		
srcintf <name>	Incoming (ingress) interface. Interface name.	string	Maximum length: 79	
dstintf <name>	Outgoing (egress) interface. Interface name.	string	Maximum length: 79	
ztna-device-ownership	Enable/disable zero trust device ownership.	option	-	disable
	Option	Description		
	enable	Enable ZTNA device ownership check.		
	disable	Disable ZTNA device ownership check.		
srcaddr <name>	Source address and address group names. Address name.	string	Maximum length: 79	
dstaddr <name>	Destination address and address group names. Address name.	string	Maximum length: 79	
srcaddr6 <name>	IPv6 source address (web proxy and ftp proxy only). Address name.	string	Maximum length: 79	
dstaddr6 <name>	IPv6 destination address (web proxy and ftp proxy only).	string	Maximum length: 79	

Parameter	Description	Type	Size	Default										
	Address name.													
action	Policy action (allow/deny).	option	-	deny										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>accept</i></td><td>Allows session that match the firewall policy.</td></tr><tr><td><i>deny</i></td><td>Blocks sessions that match the firewall policy.</td></tr><tr><td><i>redirect</i></td><td>Redirect sessions that match the firewall policy to a url.</td></tr><tr><td><i>isolate</i></td><td>Isolate sessions that match the firewall policy with isolator.</td></tr></table>				Option	Description	<i>accept</i>	Allows session that match the firewall policy.	<i>deny</i>	Blocks sessions that match the firewall policy.	<i>redirect</i>	Redirect sessions that match the firewall policy to a url.	<i>isolate</i>	Isolate sessions that match the firewall policy with isolator.
	Option	Description												
	<i>accept</i>	Allows session that match the firewall policy.												
	<i>deny</i>	Blocks sessions that match the firewall policy.												
	<i>redirect</i>	Redirect sessions that match the firewall policy to a url.												
<i>isolate</i>	Isolate sessions that match the firewall policy with isolator.													
schedule	Schedule name.	string	Maximum length: 35											
policy-expiry	Enable/disable policy expiry.	option	-	disable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable policy expiry.</td></tr><tr><td><i>disable</i></td><td>Disable polcy expiry.</td></tr></table>				Option	Description	<i>enable</i>	Enable policy expiry.	<i>disable</i>	Disable polcy expiry.				
	Option	Description												
	<i>enable</i>	Enable policy expiry.												
<i>disable</i>	Disable polcy expiry.													
policy-expiry-date	Policy expiry date (YYYY-MM-DD HH:MM:SS).	datetime	Not Specified	0000-00-00 00:00:00										
service <name>	Service and service group names. Service and service group names.	string	Maximum length: 79											
explicit-web-proxy <name>	Explicit web proxy. Explicit Web proxy name.	string	Maximum length: 79											
transparent	set webproxy to use original client address.	option	-	disable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable using original client address for webproxy.</td></tr><tr><td><i>disable</i></td><td>Disable using original client address for webproxy.</td></tr></table>				Option	Description	<i>enable</i>	Enable using original client address for webproxy.	<i>disable</i>	Disable using original client address for webproxy.				
	Option	Description												
	<i>enable</i>	Enable using original client address for webproxy.												
<i>disable</i>	Disable using original client address for webproxy.													
access-proxy <name>	Access Proxy. Access Proxy name.	string	Maximum length: 79											
ztna-proxy <name>	ZTNA Traffic Forward Proxy. ZTNA Traffic Forward Proxy name.	string	Maximum length: 79											
ztna-ems-tag <name>	Source ztna-ems-tag names. Address name.	string	Maximum length: 79											
ztna-ems-tag-secondary <name>	Source ztna-ems-tag-secondary names. Address name.	string	Maximum length: 79											

Parameter	Description	Type	Size	Default						
ztna-tags-match-logic	ZTNA tag matching logic.	option	-	or						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>or</i></td><td>Match ZTNA tags using a logical OR operator.</td></tr><tr><td><i>and</i></td><td>Match ZTNA tags using a logical AND operator.</td></tr></table>	Option	Description	<i>or</i>	Match ZTNA tags using a logical OR operator.	<i>and</i>	Match ZTNA tags using a logical AND operator.			
	Option	Description								
	<i>or</i>	Match ZTNA tags using a logical OR operator.								
<i>and</i>	Match ZTNA tags using a logical AND operator.									
device-ownership	When enabled, the ownership enforcement will be done at policy level.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable device ownership.</td></tr><tr><td><i>disable</i></td><td>Disable device ownership.</td></tr></table>	Option	Description	<i>enable</i>	Enable device ownership.	<i>disable</i>	Disable device ownership.			
	Option	Description								
	<i>enable</i>	Enable device ownership.								
<i>disable</i>	Disable device ownership.									
pass-through	Enable/disable policy matching pass through	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable policy matching pass through.</td></tr><tr><td><i>disable</i></td><td>Disable policy matching pass through.</td></tr></table>	Option	Description	<i>enable</i>	Enable policy matching pass through.	<i>disable</i>	Disable policy matching pass through.			
	Option	Description								
	<i>enable</i>	Enable policy matching pass through.								
<i>disable</i>	Disable policy matching pass through.									
url-category <id>	URL category ID list. URL category ID.	integer	Minimum value: 0 Maximum value: 4294967295							
url-risk <name>	URL risk level name. Risk level name.	string	Maximum length: 79							
internet-service	Enable/disable use of Internet Services for this policy. If enabled, destination address and service are not used.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable use of Internet Services in policy.</td></tr><tr><td><i>disable</i></td><td>Disable use of Internet Services in policy.</td></tr></table>	Option	Description	<i>enable</i>	Enable use of Internet Services in policy.	<i>disable</i>	Disable use of Internet Services in policy.			
	Option	Description								
	<i>enable</i>	Enable use of Internet Services in policy.								
<i>disable</i>	Disable use of Internet Services in policy.									
internet-service-name <name>	Internet Service name. Internet Service name.	string	Maximum length: 79							
internet-service-group <name>	Internet Service group name. Internet Service group name.	string	Maximum length: 79							

Parameter	Description	Type	Size	Default						
internet-service-custom<name>	Custom Internet Service Name. Custom Internet Service name.	string	Maximum length: 79							
internet-service6	Enable/disable use of IPv6 Internet Services for this policy. If enabled, destination address and service are not used.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable use of IPv6 Internet Services in policy.</td></tr><tr><td>disable</td><td>Disable use of IPv6 Internet Services in policy.</td></tr></table>	Option	Description	enable	Enable use of IPv6 Internet Services in policy.	disable	Disable use of IPv6 Internet Services in policy.			
Option	Description									
enable	Enable use of IPv6 Internet Services in policy.									
disable	Disable use of IPv6 Internet Services in policy.									
internet-service6-name<name>	IPv6 Internet Service name. IPv6 Internet Service name.	string	Maximum length: 79							
internet-service6-group<name>	Internet Service group name. Internet Service group name.	string	Maximum length: 79							
internet-service6-custom<name>	Custom IPv6 Internet Service name. Custom Internet Service name.	string	Maximum length: 79							
internet-service6-custom-group<name>	Custom Internet Service6 group name. Custom Internet Service6 group name.	string	Maximum length: 79							
internet-service-custom-group<name>	Custom Internet Service group name. Custom Internet Service group name.	string	Maximum length: 79							
utm-status	Enable to add one or more security profiles (AV, IPS, etc.) to the firewall policy.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable setting.</td></tr><tr><td>disable</td><td>Disable setting.</td></tr></table>	Option	Description	enable	Enable setting.	disable	Disable setting.			
Option	Description									
enable	Enable setting.									
disable	Disable setting.									
ztna-policy-redirect	Redirect ZTNA traffic to matching Access-Proxy proxy-policy.	option	-	disable						

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable ZTNA proxy-policy redirect.		
	<i>disable</i>	Disable ZTNA proxy-policy redirect.		
webproxy-profile	Web proxy profile using when none matched policy.	string	Maximum length: 63	
logtraffic	Enable or disable logging. Log all sessions or security profile sessions.	option	-	utm
	Option	Description		
	<i>all</i>	Log all sessions accepted or denied by this policy.		
	<i>utm</i>	Log traffic that has a security profile applied to it.		
	<i>disable</i>	Disable all logging for this policy.		
logtraffic-start	Record logs when a session starts and ends.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
log-http-transaction	Enable/disable http transaction log.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable HTTP transaction log.		
	<i>enable</i>	Enable HTTP transaction log.		
extended-log	Enable/disable extended log for http transaction.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
wanopt	Enable/disable WAN optimization.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		

Parameter	Description	Type	Size	Default								
wanopt-detection	WAN optimization auto-detection mode.	option	-	active								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>active</td><td>Active WAN optimization peer auto-detection.</td></tr><tr><td>passive</td><td>Passive WAN optimization peer auto-detection.</td></tr><tr><td>off</td><td>Turn off WAN optimization peer auto-detection.</td></tr></table>	Option	Description	active	Active WAN optimization peer auto-detection.	passive	Passive WAN optimization peer auto-detection.	off	Turn off WAN optimization peer auto-detection.			
Option	Description											
active	Active WAN optimization peer auto-detection.											
passive	Passive WAN optimization peer auto-detection.											
off	Turn off WAN optimization peer auto-detection.											
wanopt-passive-opt	WAN optimization passive mode options. This option decides what IP address will be used to connect server.	option	-	default								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>default</td><td>Allow client side WAN opt peer to decide.</td></tr><tr><td>transparent</td><td>Use address of client to connect to server.</td></tr><tr><td>non-transparent</td><td>Use local FortiProxy address to connect to server.</td></tr></table>	Option	Description	default	Allow client side WAN opt peer to decide.	transparent	Use address of client to connect to server.	non-transparent	Use local FortiProxy address to connect to server.			
Option	Description											
default	Allow client side WAN opt peer to decide.											
transparent	Use address of client to connect to server.											
non-transparent	Use local FortiProxy address to connect to server.											
wanopt-profile	WAN optimization profile.	string	Maximum length: 35									
wanopt-peer	WAN optimization peer.	string	Maximum length: 35									
webcache	Enable/disable web cache.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable setting.</td></tr><tr><td>disable</td><td>Disable setting.</td></tr></table>	Option	Description	enable	Enable setting.	disable	Disable setting.					
Option	Description											
enable	Enable setting.											
disable	Disable setting.											
webcache-https	Enable/disable web cache for HTTPS.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>Disable web cache for HTTPS.</td></tr><tr><td>enable</td><td>Enable web cache for HTTPS.</td></tr></table>	Option	Description	disable	Disable web cache for HTTPS.	enable	Enable web cache for HTTPS.					
Option	Description											
disable	Disable web cache for HTTPS.											
enable	Enable web cache for HTTPS.											
reverse-cache	Enable/disable reverse cache servers.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>Disable reverse cache.</td></tr><tr><td>enable</td><td>Enable reverse cache servers.</td></tr></table>	Option	Description	disable	Disable reverse cache.	enable	Enable reverse cache servers.					
Option	Description											
disable	Disable reverse cache.											
enable	Enable reverse cache servers.											

Parameter	Description	Type	Size	Default
http-tunnel-auth	Enable/disable HTTP tunnel authentication.	option	-	disable
	Option Description			
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
ssh-policy-check	Enable/disable SSH policy check.	option	-	disable
	Option Description			
	<i>enable</i>	Enable SSH policy check.		
	<i>disable</i>	Disable SSH policy check.		
webproxy-forward-server	Webproxy forward server name.	string	Maximum length: 63	
isolator-server	isolator server name.	string	Maximum length: 63	
poolname <name>	Name of IP pool object. IP pool name.	string	Maximum length: 79	
groups <name>	Names of user groups that can authenticate with this policy. Group name.	string	Maximum length: 79	
users <name>	Names of individual users that can authenticate with this policy. Names of individual users that can authenticate with this policy.	string	Maximum length: 79	
disclaimer	Web proxy disclaimer setting: by domain, policy, or user.	option	-	disable
	Option Description			
	<i>disable</i>	Disable disclaimer.		
	<i>domain</i>	Display disclaimer for domain		
	<i>policy</i>	Display disclaimer for policy		
	<i>user</i>	Display disclaimer for current user		
comments	Comment.	var-string	Maximum length: 1023	
redirect-url	Redirect URL for further web proxy processing.	var-string	Maximum length: 1023	

Parameter	Description	Type	Size	Default						
custom-log-fields <field-id>	Custom fields to append to log messages for this policy. Custom log field.	string	Maximum length: 35							
replacemsg-override-group	Override the default replacement message group for this policy.	string	Maximum length: 35							
srcaddr-negate	When enabled srcaddr specifies what the source address must NOT be.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable source address negate.</td></tr><tr><td><i>disable</i></td><td>Disable source address negate.</td></tr></table>	Option	Description	<i>enable</i>	Enable source address negate.	<i>disable</i>	Disable source address negate.			
Option	Description									
<i>enable</i>	Enable source address negate.									
<i>disable</i>	Disable source address negate.									
dstaddr-negate	When enabled dstaddr specifies what the destination address must NOT be.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable destination address negate.</td></tr><tr><td><i>disable</i></td><td>Disable destination address negate.</td></tr></table>	Option	Description	<i>enable</i>	Enable destination address negate.	<i>disable</i>	Disable destination address negate.			
Option	Description									
<i>enable</i>	Enable destination address negate.									
<i>disable</i>	Disable destination address negate.									
service-negate	When enabled service specifies what the service must NOT be.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable negated service match.</td></tr><tr><td><i>disable</i></td><td>Disable negated service match.</td></tr></table>	Option	Description	<i>enable</i>	Enable negated service match.	<i>disable</i>	Disable negated service match.			
Option	Description									
<i>enable</i>	Enable negated service match.									
<i>disable</i>	Disable negated service match.									
internet-service-negate	When enabled internet-service specifies what the service must NOT be.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable negated Internet Service match.</td></tr><tr><td><i>disable</i></td><td>Disable negated Internet Service match.</td></tr></table>	Option	Description	<i>enable</i>	Enable negated Internet Service match.	<i>disable</i>	Disable negated Internet Service match.			
Option	Description									
<i>enable</i>	Enable negated Internet Service match.									
<i>disable</i>	Disable negated Internet Service match.									
internet-service6-negate	When enabled internet-service6 specifies what the service must not be.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable negated IPv6 Internet Service match.</td></tr><tr><td><i>disable</i></td><td>Disable negated IPv6 Internet Service match.</td></tr></table>	Option	Description	<i>enable</i>	Enable negated IPv6 Internet Service match.	<i>disable</i>	Disable negated IPv6 Internet Service match.			
Option	Description									
<i>enable</i>	Enable negated IPv6 Internet Service match.									
<i>disable</i>	Disable negated IPv6 Internet Service match.									

Parameter	Description	Type	Size	Default						
application <id>	Application ID list. Application IDs.	integer	Minimum value: 0 Maximum value: 4294967295							
app-category <id>	Application category ID list. Category IDs.	integer	Minimum value: 0 Maximum value: 4294967295							
app-group <name>	One or more application group names. Application group name.	string	Maximum length: 79							
https-sub-category	Enable/disable HTTPS sub-category policy matching.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable HTTPS sub-category policy matching.</td></tr><tr><td>disable</td><td>Disable HTTPS sub-category policy matching.</td></tr></table>				Option	Description	enable	Enable HTTPS sub-category policy matching.	disable	Disable HTTPS sub-category policy matching.
Option	Description									
enable	Enable HTTPS sub-category policy matching.									
disable	Disable HTTPS sub-category policy matching.									
decrypted-traffic-mirror	Decrypted traffic mirror.	string	Maximum length: 35							
max-session-per-user	Max UTM sessions per user.	integer	Minimum value: 0 Maximum value: 4294967295	0						
profile-type	Determine whether the firewall policy allows security profile groups or single profiles only.	option	-	single						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>single</td><td>Do not allow security profile groups.</td></tr><tr><td>group</td><td>Allow security profile groups.</td></tr></table>				Option	Description	single	Do not allow security profile groups.	group	Allow security profile groups.
Option	Description									
single	Do not allow security profile groups.									
group	Allow security profile groups.									
profile-group	Name of profile group.	string	Maximum length: 35							
profile-protocol-options	Name of an existing Protocol options profile.	string	Maximum length: 35	default						
ssl-ssh-profile	Name of an existing SSL SSH profile.	string	Maximum length: 35	no-inspection						

Parameter	Description	Type	Size	Default
av-profile	Name of an existing Antivirus profile.	string	Maximum length: 35	
ia-profile	Image analyzer profile.	string	Maximum length: 35	
webfilter-profile	Name of an existing Web filter profile.	string	Maximum length: 35	
dnsfilter-profile	Name of an existing DNS filter profile.	string	Maximum length: 35	
emailfilter-profile	Name of an existing email filter profile.	string	Maximum length: 35	
dlp-profile	Name of an existing DLP profile.	string	Maximum length: 35	
file-filter-profile	Name of an existing file-filter profile.	string	Maximum length: 35	
ips-sensor	Name of an existing IPS sensor.	string	Maximum length: 35	
application-list	Name of an existing Application list.	string	Maximum length: 35	
icap-profile	Name of an existing ICAP profile.	string	Maximum length: 35	
cifs-profile	Name of an existing CIFS profile.	string	Maximum length: 35	
videofilter-profile	Name of an existing VideoFilter profile.	string	Maximum length: 35	
isolator-profile	Name of an existing isolator profile.	string	Maximum length: 35	
redirect-profile	Name of an existing URL Redirect profile.	string	Maximum length: 35	
ssh-filter-profile	Name of an existing SSH filter profile.	string	Maximum length: 35	
casb-profile	Name of an existing CASB profile.	string	Maximum length: 35	
detect-https-in-http-request	Enable/disable detection of HTTPS in HTTP request.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable detection of HTTPS in HTTP request.		
	<i>disable</i>	Disable detection of HTTPS in HTTP request.		
service-connector	Service Connector.	string	Maximum length: 79	

config firewall profile-group

Configure profile groups.

```
config firewall profile-group
  Description: Configure profile groups.
  edit <name>
    set profile-protocol-options {string}
    set ssl-ssh-profile {string}
    set av-profile {string}
    set ia-profile {string}
    set webfilter-profile {string}
    set dnsfilter-profile {string}
    set emailfilter-profile {string}
    set dlp-profile {string}
    set file-filter-profile {string}
    set ips-sensor {string}
    set application-list {string}
    set icap-profile {string}
    set cifs-profile {string}
    set videofilter-profile {string}
    set isolator-profile {string}
    set redirect-profile {string}
    set ssh-filter-profile {string}
    set casb-profile {string}
  next
end
```

config firewall profile-group

Parameter	Description	Type	Size	Default
name	Profile group name.	string	Maximum length: 35	
profile-protocol-options	Name of an existing Protocol options profile.	string	Maximum length: 35	default

Parameter	Description	Type	Size	Default
ssl-ssh-profile	Name of an existing SSL SSH profile.	string	Maximum length: 35	certificate-inspection
av-profile	Name of an existing Antivirus profile.	string	Maximum length: 35	
ia-profile	Image analyzer profile.	string	Maximum length: 35	
webfilter-profile	Name of an existing Web filter profile.	string	Maximum length: 35	
dnsfilter-profile	Name of an existing DNS filter profile.	string	Maximum length: 35	
emailfilter-profile	Name of an existing email filter profile.	string	Maximum length: 35	
dlp-profile	Name of an existing DLP profile.	string	Maximum length: 35	
file-filter-profile	Name of an existing file-filter profile.	string	Maximum length: 35	
ips-sensor	Name of an existing IPS sensor.	string	Maximum length: 35	
application-list	Name of an existing Application list.	string	Maximum length: 35	
icap-profile	Name of an existing ICAP profile.	string	Maximum length: 35	
cifs-profile	Name of an existing CIFS profile.	string	Maximum length: 35	
videofilter-profile	Name of an existing VideoFilter profile.	string	Maximum length: 35	
isolator-profile	Name of an existing isolator profile.	string	Maximum length: 35	
redirect-profile	Name of an existing URL Redirect profile.	string	Maximum length: 35	
ssh-filter-profile	Name of an existing SSH filter profile.	string	Maximum length: 35	
casb-profile	Name of an existing CASB profile.	string	Maximum length: 35	

config firewall profile-protocol-options

Configure protocol options.

```

config firewall profile-protocol-options
  Description: Configure protocol options.
  edit <name>
    set comment {var-string}
    set replacemsg-group {string}
    set oversize-log [disable|enable]
    set switching-protocols-log [disable|enable]
  config proxy-redirect
    Description: Configure proxy redirection protocol options.
    set ports {integer}
    set status [enable|disable]
  end
config http
  Description: Configure HTTP protocol options.
  set ports {integer}
  set status [enable|disable]
  set options {option1}, {option2}, ...
  set comfort-interval {integer}
  set comfort-amount {integer}
  set range-block [disable|enable]
  set strip-x-forwarded-for [disable|enable]
  set post-lang {option1}, {option2}, ...
  set streaming-content-bypass [enable|disable]
  set dns-protection [enable|disable]
  set switching-protocols [bypass|block]
  set unknown-http-version [reject|tunnel|...]
  set tunnel-non-http [enable|disable]
  set h2c [enable|disable]
  set unknown-content-encoding [block|inspect|...]
  set oversize-limit {integer}
  set uncompressed-oversize-limit {integer}
  set uncompressed-nest-limit {integer}
  set stream-based-uncompressed-limit {integer}
  set scan-bzip2 [enable|disable]
  set verify-dns-for-policy-matching [enable|disable]
  set block-page-status-code {integer}
  set retry-count {integer}
  set domain-fronting [allow|block|...]
  set tcp-window-type [auto-tuning|system|...]
  set tcp-window-minimum {integer}
  set tcp-window-maximum {integer}
  set tcp-window-size {integer}
  set ssl-offloaded [no|yes]
  set address-ip-rating [enable|disable]
  set encrypted-file [pass|inspect|...]
  set encrypted-file-log [enable|disable]
end
config ftp
  Description: Configure FTP protocol options.
  set ports {integer}
  set status [enable|disable]
  set options {option1}, {option2}, ...
  set comfort-interval {integer}
  set comfort-amount {integer}
  set oversize-limit {integer}
  set uncompressed-oversize-limit {integer}

```

```

        set uncompressed-nest-limit {integer}
        set stream-based-uncompressed-limit {integer}
        set scan-bzip2 [enable|disable]
        set tcp-window-type [auto-tuning|system|...]
        set tcp-window-minimum {integer}
        set tcp-window-maximum {integer}
        set tcp-window-size {integer}
        set ssl-offloaded [no|yes]
        set explicit-ftp-tls [enable|disable]
    end
    config imap
        Description: Configure IMAP protocol options.
        set ports {integer}
        set status [enable|disable]
        set options {option1}, {option2}, ...
        set oversize-limit {integer}
        set uncompressed-oversize-limit {integer}
        set uncompressed-nest-limit {integer}
        set scan-bzip2 [enable|disable]
        set ssl-offloaded [no|yes]
        set address-ip-rating [enable|disable]
    end
    config mapi
        Description: Configure MAPI protocol options.
        set ports {integer}
        set status [enable|disable]
        set options {option1}, {option2}, ...
        set oversize-limit {integer}
        set uncompressed-oversize-limit {integer}
        set uncompressed-nest-limit {integer}
        set scan-bzip2 [enable|disable]
    end
    config pop3
        Description: Configure POP3 protocol options.
        set ports {integer}
        set status [enable|disable]
        set options {option1}, {option2}, ...
        set oversize-limit {integer}
        set uncompressed-oversize-limit {integer}
        set uncompressed-nest-limit {integer}
        set scan-bzip2 [enable|disable]
        set ssl-offloaded [no|yes]
    end
    config smtp
        Description: Configure SMTP protocol options.
        set ports {integer}
        set status [enable|disable]
        set options {option1}, {option2}, ...
        set oversize-limit {integer}
        set uncompressed-oversize-limit {integer}
        set uncompressed-nest-limit {integer}
        set scan-bzip2 [enable|disable]
        set server-busy [enable|disable]
        set ssl-offloaded [no|yes]
    end
    config nntp

```



```

        Description: Configure NNTP protocol options.
        set ports {integer}
        set status [enable|disable]
        set options {option1}, {option2}, ...
        set oversize-limit {integer}
        set uncompressed-oversize-limit {integer}
        set uncompressed-nest-limit {integer}
        set scan-bzip2 [enable|disable]
    end
    config ssh
        Description: Configure SFTP and SCP protocol options.
        set options {option1}, {option2}, ...
        set comfort-interval {integer}
        set comfort-amount {integer}
        set oversize-limit {integer}
        set uncompressed-oversize-limit {integer}
        set uncompressed-nest-limit {integer}
        set stream-based-uncompressed-limit {integer}
        set scan-bzip2 [enable|disable]
        set tcp-window-type [auto-tuning|system|...]
        set tcp-window-minimum {integer}
        set tcp-window-maximum {integer}
        set tcp-window-size {integer}
        set ssl-offloaded [no|yes]
    end
    config dns
        Description: Configure DNS protocol options.
        set ports {integer}
        set status [enable|disable]
    end
    config cifs
        Description: Configure CIFS protocol options.
        set ports {integer}
        set status [enable|disable]
        set options {option1}, {option2}, ...
        set oversize-limit {integer}
        set uncompressed-oversize-limit {integer}
        set uncompressed-nest-limit {integer}
        set scan-bzip2 [enable|disable]
        set tcp-window-type [auto-tuning|system|...]
        set tcp-window-minimum {integer}
        set tcp-window-maximum {integer}
        set tcp-window-size {integer}
        set server-credential-type [none|credential-replication|...]
        set domain-controller {string}
        config server-keytab
            Description: Server keytab.
            edit <principal>
                set keytab {string}
            next
        end
    end
    config mail-signature
        Description: Configure Mail signature.
        set status [disable|enable]
        set signature {string}

```

```

end
set rpc-over-http [enable|disable]
next
end

```

config firewall profile-protocol-options

Parameter	Description	Type	Size	Default						
name	Name.	string	Maximum length: 35							
comment	Optional comments.	var-string	Maximum length: 255							
replacemsg-group	Name of the replacement message group to be used.	string	Maximum length: 35							
oversize-log	Enable/disable logging for antivirus oversize file blocking.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable logging for antivirus oversize file blocking.</td></tr><tr><td><i>enable</i></td><td>Enable logging for antivirus oversize file blocking.</td></tr></table>				Option	Description	<i>disable</i>	Disable logging for antivirus oversize file blocking.	<i>enable</i>	Enable logging for antivirus oversize file blocking.
Option	Description									
<i>disable</i>	Disable logging for antivirus oversize file blocking.									
<i>enable</i>	Enable logging for antivirus oversize file blocking.									
switching-protocols-log	Enable/disable logging for HTTP/HTTPS switching protocols.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable logging for HTTP/HTTPS switching protocols.</td></tr><tr><td><i>enable</i></td><td>Enable logging for HTTP/HTTPS switching protocols.</td></tr></table>				Option	Description	<i>disable</i>	Disable logging for HTTP/HTTPS switching protocols.	<i>enable</i>	Enable logging for HTTP/HTTPS switching protocols.
Option	Description									
<i>disable</i>	Disable logging for HTTP/HTTPS switching protocols.									
<i>enable</i>	Enable logging for HTTP/HTTPS switching protocols.									
rpc-over-http	Enable/disable inspection of RPC over HTTP.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable inspection of RPC over HTTP.</td></tr><tr><td><i>disable</i></td><td>Disable inspection of RPC over HTTP.</td></tr></table>				Option	Description	<i>enable</i>	Enable inspection of RPC over HTTP.	<i>disable</i>	Disable inspection of RPC over HTTP.
Option	Description									
<i>enable</i>	Enable inspection of RPC over HTTP.									
<i>disable</i>	Disable inspection of RPC over HTTP.									

config proxy-redirect

Parameter	Description	Type	Size	Default
ports	Ports to inspect all for content (1 - 65535).	integer	Minimum value: 1 Maximum value: 65535	

Parameter	Description	Type	Size	Default
status	Enable/disable the active status of scanning for this protocol.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		

config http

Parameter	Description	Type	Size	Default
ports	Ports to scan for content (1 - 65535, default = 80).	integer	Minimum value: 1 Maximum value: 65535	
status	Enable/disable the active status of scanning for this protocol.	option	-	enable
	Option	Description		
	enable	Enable setting.		
	disable	Disable setting.		
options	One or more options that can be applied to the session.	option	-	
	Option	Description		
	clientcomfort	Prevent client timeout.		
	servercomfort	Prevent server timeout.		
	oversize	Block oversized file.		
	chunkedbypass	Bypass chunked transfer encoded sites.		
comfort-interval	Interval between successive transmissions of data for client comforting (seconds).	integer	Minimum value: 1 Maximum value: 900	10
comfort-amount	Number of bytes to send in each transmission for client comforting (bytes).	integer	Minimum value: 1 Maximum value: 65535	1
range-block	Enable/disable blocking of partial downloads.	option	-	disable

Parameter	Description	Type	Size	Default																																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable range header blocking (allow partial file downloads)</td></tr><tr><td><i>enable</i></td><td>Enable range header blocking (treat all partial file downloads as full file download)</td></tr></table>	Option	Description	<i>disable</i>	Disable range header blocking (allow partial file downloads)	<i>enable</i>	Enable range header blocking (treat all partial file downloads as full file download)																																	
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<i>enable</i>	Enable range header blocking (treat all partial file downloads as full file download)																																							
strip-x-forwarded-for	Enable/disable stripping of HTTP X-Forwarded-For header.	option	-	disable																																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable changing of HTTP X-Forwarded-For header.</td></tr><tr><td><i>enable</i></td><td>Enable replacement of X-Forwarded-For value with 1.1.1.1.</td></tr></table>	Option	Description	<i>disable</i>	Disable changing of HTTP X-Forwarded-For header.	<i>enable</i>	Enable replacement of X-Forwarded-For value with 1.1.1.1.																																	
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<i>enable</i>	Enable replacement of X-Forwarded-For value with 1.1.1.1.																																							
post-lang	ID codes for character sets to be used to convert to UTF-8 for banned words and DLP on HTTP posts (maximum of 5 character sets).	option	-																																					
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>jisx0201</i></td><td>Japanese Industrial Standard 0201.</td></tr><tr><td><i>jisx0208</i></td><td>Japanese Industrial Standard 0208.</td></tr><tr><td><i>jisx0212</i></td><td>Japanese Industrial Standard 0212.</td></tr><tr><td><i>gb2312</i></td><td>Guojia Biaozhun 2312 (simplified Chinese).</td></tr><tr><td><i>ksc5601-ex</i></td><td>Wansung Korean standard 5601.</td></tr><tr><td><i>euc-jp</i></td><td>Extended Unicode Japanese.</td></tr><tr><td><i>sjis</i></td><td>Shift Japanese Industrial Standard.</td></tr><tr><td><i>iso2022-jp</i></td><td>ISO 2022 Japanese.</td></tr><tr><td><i>iso2022-jp-1</i></td><td>ISO 2022-1 Japanese.</td></tr><tr><td><i>iso2022-jp-2</i></td><td>ISO 2022-2 Japanese.</td></tr><tr><td><i>euc-cn</i></td><td>Extended Unicode Chinese.</td></tr><tr><td><i>ces-gbk</i></td><td>Extended GB2312 (simplified Chinese).</td></tr><tr><td><i>hz</i></td><td>Hanzi simplified Chinese.</td></tr><tr><td><i>ces-big5</i></td><td>Big-5 traditional Chinese.</td></tr><tr><td><i>euc-kr</i></td><td>Extended Unicode Korean.</td></tr><tr><td><i>iso2022-jp-3</i></td><td>ISO 2022-3 Japanese.</td></tr><tr><td><i>iso8859-1</i></td><td>ISO 8859 Part 1 (Western European).</td></tr></table>	Option	Description	<i>jisx0201</i>	Japanese Industrial Standard 0201.	<i>jisx0208</i>	Japanese Industrial Standard 0208.	<i>jisx0212</i>	Japanese Industrial Standard 0212.	<i>gb2312</i>	Guojia Biaozhun 2312 (simplified Chinese).	<i>ksc5601-ex</i>	Wansung Korean standard 5601.	<i>euc-jp</i>	Extended Unicode Japanese.	<i>sjis</i>	Shift Japanese Industrial Standard.	<i>iso2022-jp</i>	ISO 2022 Japanese.	<i>iso2022-jp-1</i>	ISO 2022-1 Japanese.	<i>iso2022-jp-2</i>	ISO 2022-2 Japanese.	<i>euc-cn</i>	Extended Unicode Chinese.	<i>ces-gbk</i>	Extended GB2312 (simplified Chinese).	<i>hz</i>	Hanzi simplified Chinese.	<i>ces-big5</i>	Big-5 traditional Chinese.	<i>euc-kr</i>	Extended Unicode Korean.	<i>iso2022-jp-3</i>	ISO 2022-3 Japanese.	<i>iso8859-1</i>	ISO 8859 Part 1 (Western European).			
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Parameter	Description	Type	Size	Default										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>tis620</i></td><td>Thai Industrial Standard 620.</td></tr><tr><td><i>cp874</i></td><td>Code Page 874 (Thai).</td></tr><tr><td><i>cp1252</i></td><td>Code Page 1252 (Western European Latin).</td></tr><tr><td><i>cp1251</i></td><td>Code Page 1251 (Cyrillic).</td></tr></table>	Option	Description	<i>tis620</i>	Thai Industrial Standard 620.	<i>cp874</i>	Code Page 874 (Thai).	<i>cp1252</i>	Code Page 1252 (Western European Latin).	<i>cp1251</i>	Code Page 1251 (Cyrillic).			
	Option	Description												
	<i>tis620</i>	Thai Industrial Standard 620.												
	<i>cp874</i>	Code Page 874 (Thai).												
	<i>cp1252</i>	Code Page 1252 (Western European Latin).												
<i>cp1251</i>	Code Page 1251 (Cyrillic).													
streaming-content-bypass	Enable/disable bypassing of streaming content from buffering.	option	-	enable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable bypassing of streaming content from buffering</td></tr><tr><td><i>disable</i></td><td>Disable bypassing of streaming content from buffering</td></tr></table>	Option	Description	<i>enable</i>	Enable bypassing of streaming content from buffering	<i>disable</i>	Disable bypassing of streaming content from buffering							
	Option	Description												
	<i>enable</i>	Enable bypassing of streaming content from buffering												
<i>disable</i>	Disable bypassing of streaming content from buffering													
dns-protection	Enable/disable DNS protection for HTTP/HTTPS traffic.	option	-	disable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.							
	Option	Description												
	<i>enable</i>	Enable setting.												
<i>disable</i>	Disable setting.													
switching-protocols	Bypass from scanning, or block a connection that attempts to switch protocol.	option	-	bypass										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>bypass</i></td><td>Bypass connections when switching protocols.</td></tr><tr><td><i>block</i></td><td>Block connections when switching protocols.</td></tr></table>	Option	Description	<i>bypass</i>	Bypass connections when switching protocols.	<i>block</i>	Block connections when switching protocols.							
	Option	Description												
	<i>bypass</i>	Bypass connections when switching protocols.												
<i>block</i>	Block connections when switching protocols.													
unknown-http-version	How to handle HTTP sessions that do not comply with HTTP 0.9, 1.0, or 1.1.	option	-	reject										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>reject</i></td><td>Reject or tear down HTTP sessions that do not use HTTP 0.9, 1.0, or 1.1.</td></tr><tr><td><i>tunnel</i></td><td>Pass HTTP traffic that does not use HTTP 0.9, 1.0, or 1.1 without applying HTTP protocol optimization, byte-caching, or web caching. TCP protocol optimization is applied.</td></tr><tr><td><i>best-effort</i></td><td>Assume all HTTP sessions comply with HTTP 0.9, 1.0, or 1.1. If a session uses a different HTTP version, it may not parse correctly and the connection may be lost.</td></tr></table>	Option	Description	<i>reject</i>	Reject or tear down HTTP sessions that do not use HTTP 0.9, 1.0, or 1.1.	<i>tunnel</i>	Pass HTTP traffic that does not use HTTP 0.9, 1.0, or 1.1 without applying HTTP protocol optimization, byte-caching, or web caching. TCP protocol optimization is applied.	<i>best-effort</i>	Assume all HTTP sessions comply with HTTP 0.9, 1.0, or 1.1. If a session uses a different HTTP version, it may not parse correctly and the connection may be lost.					
	Option	Description												
	<i>reject</i>	Reject or tear down HTTP sessions that do not use HTTP 0.9, 1.0, or 1.1.												
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<i>best-effort</i>	Assume all HTTP sessions comply with HTTP 0.9, 1.0, or 1.1. If a session uses a different HTTP version, it may not parse correctly and the connection may be lost.													

Parameter	Description	Type	Size	Default								
tunnel-non-http	Configure how to process non-HTTP traffic when a profile configured for HTTP traffic accepts a non-HTTP session. Can occur if an application sends non-HTTP traffic using an HTTP destination port.	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Pass non-HTTP sessions through the tunnel without applying protocol optimization, byte-caching, or web caching. TCP protocol optimization is applied.</td></tr><tr><td><i>disable</i></td><td>Drop or tear down non-HTTP sessions accepted by the profile.</td></tr></table>	Option	Description	<i>enable</i>	Pass non-HTTP sessions through the tunnel without applying protocol optimization, byte-caching, or web caching. TCP protocol optimization is applied.	<i>disable</i>	Drop or tear down non-HTTP sessions accepted by the profile.					
Option	Description											
<i>enable</i>	Pass non-HTTP sessions through the tunnel without applying protocol optimization, byte-caching, or web caching. TCP protocol optimization is applied.											
<i>disable</i>	Drop or tear down non-HTTP sessions accepted by the profile.											
h2c	Enable/disable h2c HTTP connection upgrade.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Allow h2c HTTP connection upgrades. h2c tunnels do not support content scan.</td></tr><tr><td><i>disable</i></td><td>Do not allow h2c HTTP connection upgrades.</td></tr></table>	Option	Description	<i>enable</i>	Allow h2c HTTP connection upgrades. h2c tunnels do not support content scan.	<i>disable</i>	Do not allow h2c HTTP connection upgrades.					
Option	Description											
<i>enable</i>	Allow h2c HTTP connection upgrades. h2c tunnels do not support content scan.											
<i>disable</i>	Do not allow h2c HTTP connection upgrades.											
unknown-content-encoding	Configure the action the FortiGate unit will take on unknown content-encoding.	option	-	block								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>block</i></td><td>Block HTTP session when unknown content-encoding is detected.</td></tr><tr><td><i>inspect</i></td><td>Scan HTTP traffic as plain-text when unknown content-encoding is detected.</td></tr><tr><td><i>bypass</i></td><td>Bypass scan when unknown content-encoding is detected.</td></tr></table>	Option	Description	<i>block</i>	Block HTTP session when unknown content-encoding is detected.	<i>inspect</i>	Scan HTTP traffic as plain-text when unknown content-encoding is detected.	<i>bypass</i>	Bypass scan when unknown content-encoding is detected.			
Option	Description											
<i>block</i>	Block HTTP session when unknown content-encoding is detected.											
<i>inspect</i>	Scan HTTP traffic as plain-text when unknown content-encoding is detected.											
<i>bypass</i>	Bypass scan when unknown content-encoding is detected.											
oversize-limit	Maximum in-memory file size that can be scanned (MB).	integer	Minimum value: 1 Maximum value: 4095	10								
uncompressed-oversize-limit	Maximum in-memory uncompressed file size that can be scanned (MB).	integer	Minimum value: 1 Maximum value: 4095	10								
uncompressed-nest-limit	Maximum nested levels of compression that can be uncompressed and scanned (2 - 100, default = 12).	integer	Minimum value: 2 Maximum value: 100	12								

Parameter	Description	Type	Size	Default								
stream-based-uncompressed-limit	Maximum stream-based uncompressed data size that will be scanned in megabytes. Stream-based uncompression used only under certain conditions (unlimited = 0, default = 0).	integer	Minimum value: 0 Maximum value: 4294967295	0								
scan-bzip2	Enable/disable scanning of BZip2 compressed files.	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>				Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.		
	Option	Description										
	<i>enable</i>	Enable setting.										
<i>disable</i>	Disable setting.											
verify-dns-for-policy-matching	Enable/disable verify DNS for policy matching.	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>				Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.		
	Option	Description										
	<i>enable</i>	Enable setting.										
<i>disable</i>	Disable setting.											
block-page-status-code	Code number returned for blocked HTTP pages (non-FortiGuard only) (100 - 599, default = 403).	integer	Minimum value: 100 Maximum value: 599	403								
retry-count	Number of attempts to retry HTTP connection (0 - 100, default = 0).	integer	Minimum value: 0 Maximum value: 100	0								
domain-fronting	Configure HTTP domain fronting (default = block).	option	-	block								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>allow</i></td><td>Allow domain fronting.</td></tr><tr><td><i>block</i></td><td>Block and log domain fronting.</td></tr><tr><td><i>monitor</i></td><td>Allow and log domain fronting.</td></tr></table>				Option	Description	<i>allow</i>	Allow domain fronting.	<i>block</i>	Block and log domain fronting.	<i>monitor</i>	Allow and log domain fronting.
	Option	Description										
	<i>allow</i>	Allow domain fronting.										
	<i>block</i>	Block and log domain fronting.										
<i>monitor</i>	Allow and log domain fronting.											
tcp-window-type	TCP window type to use for this protocol.	option	-	auto-tuning								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>auto-tuning</i></td><td>Allow system to auto-tune TCP window size (default).</td></tr><tr><td><i>system</i></td><td>Use system default TCP window size for this protocol.</td></tr></table>				Option	Description	<i>auto-tuning</i>	Allow system to auto-tune TCP window size (default).	<i>system</i>	Use system default TCP window size for this protocol.		
	Option	Description										
	<i>auto-tuning</i>	Allow system to auto-tune TCP window size (default).										
<i>system</i>	Use system default TCP window size for this protocol.											

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>static</i>	Manually specify TCP window size.		
	<i>dynamic</i>	Vary TCP window size based on available memory and within limits of tcp-window-minimum and tcp-window-maximum.		
tcp-window-minimum	Minimum dynamic TCP window size.	integer	Minimum value: 65536 Maximum value: 1048576	131072
tcp-window-maximum	Maximum dynamic TCP window size.	integer	Minimum value: 1048576 Maximum value: 16777216	8388608
tcp-window-size	Set TCP static window size.	integer	Minimum value: 65536 Maximum value: 16777216	262144
ssl-offloaded	SSL decryption and encryption performed by an external device.	option	-	no
	Option	Description		
	<i>no</i>	SSL decryption and encryption performed by FortiProxy when deep-inspection is enabled.		
	<i>yes</i>	SSL decryption and encryption performed by an external device.		
address-ip-rating	Enable/disable IP based URL rating.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
encrypted-file	Encrypted file action (default = pass).	option	-	pass
	Option	Description		
	<i>pass</i>	Pass encrypted files without content scan.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>inspect</i>	Request password to decrypt and scan encrypted file. Files failed to decrypt will be blocked.		
	<i>block</i>	Block encrypted files.		
encrypted-file-log	Enable/disable Log encrypted file.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		

config ftp

Parameter	Description	Type	Size	Default
ports	Ports to scan for content (1 - 65535, default = 21).	integer	Minimum value: 1 Maximum value: 65535	
status	Enable/disable the active status of scanning for this protocol.	option	-	enable
	Option	Description		
	enable	Enable setting.		
	disable	Disable setting.		
options	One or more options that can be applied to the session.	option	-	
	Option	Description		
	clientcomfort	Prevent client timeout.		
	oversize	Block oversized file.		
	splice	Enable splice mode.		
	bypass-rest-command	Bypass REST command.		
	bypass-mode-command	Bypass MODE command.		

Parameter	Description	Type	Size	Default										
comfort-interval	Interval between successive transmissions of data for client comforting (seconds).	integer	Minimum value: 1 Maximum value: 900	10										
comfort-amount	Number of bytes to send in each transmission for client comforting (bytes).	integer	Minimum value: 1 Maximum value: 65535	1										
oversize-limit	Maximum in-memory file size that can be scanned (MB).	integer	Minimum value: 1 Maximum value: 4095	10										
uncompressed-oversize-limit	Maximum in-memory uncompressed file size that can be scanned (MB).	integer	Minimum value: 1 Maximum value: 4095	10										
uncompressed-nest-limit	Maximum nested levels of compression that can be uncompressed and scanned (2 - 100, default = 12).	integer	Minimum value: 2 Maximum value: 100	12										
stream-based-uncompressed-limit	Maximum stream-based uncompressed data size that will be scanned in megabytes. Stream-based uncompression used only under certain conditions (unlimited = 0, default = 0).	integer	Minimum value: 0 Maximum value: 4294967295	0										
scan-bzip2	Enable/disable scanning of BZip2 compressed files.	option	-	enable										
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Option	Description													
<i>enable</i>	Enable setting.													
<i>disable</i>	Disable setting.													
tcp-window-type	TCP window type to use for this protocol.	option	-	auto-tuning										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>auto-tuning</i></td><td>Allow system to auto-tune TCP window size (default).</td></tr><tr><td><i>system</i></td><td>Use system default TCP window size for this protocol.</td></tr><tr><td><i>static</i></td><td>Manually specify TCP window size.</td></tr><tr><td><i>dynamic</i></td><td>Vary TCP window size based on available memory and within limits of tcp-window-minimum and tcp-window-maximum.</td></tr></table>				Option	Description	<i>auto-tuning</i>	Allow system to auto-tune TCP window size (default).	<i>system</i>	Use system default TCP window size for this protocol.	<i>static</i>	Manually specify TCP window size.	<i>dynamic</i>	Vary TCP window size based on available memory and within limits of tcp-window-minimum and tcp-window-maximum.
Option	Description													
<i>auto-tuning</i>	Allow system to auto-tune TCP window size (default).													
<i>system</i>	Use system default TCP window size for this protocol.													
<i>static</i>	Manually specify TCP window size.													
<i>dynamic</i>	Vary TCP window size based on available memory and within limits of tcp-window-minimum and tcp-window-maximum.													

Parameter	Description	Type	Size	Default						
tcp-window-minimum	Minimum dynamic TCP window size.	integer	Minimum value: 65536 Maximum value: 1048576	131072						
tcp-window-maximum	Maximum dynamic TCP window size.	integer	Minimum value: 1048576 Maximum value: 16777216	8388608						
tcp-window-size	Set TCP static window size.	integer	Minimum value: 65536 Maximum value: 16777216	262144						
ssl-offloaded	SSL decryption and encryption performed by an external device.	option	-	no						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>no</td><td>SSL decryption and encryption performed by FortiProxy when deep-inspection is enabled.</td></tr><tr><td>yes</td><td>SSL decryption and encryption performed by an external device.</td></tr></table>				Option	Description	no	SSL decryption and encryption performed by FortiProxy when deep-inspection is enabled.	yes	SSL decryption and encryption performed by an external device.
	Option	Description								
	no	SSL decryption and encryption performed by FortiProxy when deep-inspection is enabled.								
yes	SSL decryption and encryption performed by an external device.									
explicit-ftp-tls	Enable/disable deep inspection of FTP control session over STARTTLS.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable setting.</td></tr><tr><td>disable</td><td>Disable setting.</td></tr></table>				Option	Description	enable	Enable setting.	disable	Disable setting.
	Option	Description								
	enable	Enable setting.								
disable	Disable setting.									

config imap

Parameter	Description	Type	Size	Default
ports	Ports to scan for content (1 - 65535, default = 143).	integer	Minimum value: 1 Maximum value: 65535	
status	Enable/disable the active status of scanning for this protocol.	option	-	enable

Parameter	Description	Type	Size	Default						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
	Option	Description								
	<i>enable</i>	Enable setting.								
<i>disable</i>	Disable setting.									
options	One or more options that can be applied to the session.	option	-							
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>fragmail</i></td><td>Pass fragmented email.</td></tr><tr><td><i>oversize</i></td><td>Block oversized email.</td></tr></table>	Option	Description	<i>fragmail</i>	Pass fragmented email.	<i>oversize</i>	Block oversized email.			
	Option	Description								
	<i>fragmail</i>	Pass fragmented email.								
<i>oversize</i>	Block oversized email.									
oversize-limit	Maximum in-memory file size that can be scanned (MB).	integer	Minimum value: 1 Maximum value: 4095	10						
uncompressed-oversize-limit	Maximum in-memory uncompressed file size that can be scanned (MB).	integer	Minimum value: 1 Maximum value: 4095	10						
uncompressed-nest-limit	Maximum nested levels of compression that can be uncompressed and scanned (2 - 100, default = 12).	integer	Minimum value: 2 Maximum value: 100	12						
scan-bzip2	Enable/disable scanning of BZip2 compressed files.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
	Option	Description								
	<i>enable</i>	Enable setting.								
<i>disable</i>	Disable setting.									
ssl-offloaded	SSL decryption and encryption performed by an external device.	option	-	no						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>no</i></td><td>SSL decryption and encryption performed by FortiProxy when deep-inspection is enabled.</td></tr><tr><td><i>yes</i></td><td>SSL decryption and encryption performed by an external device.</td></tr></table>	Option	Description	<i>no</i>	SSL decryption and encryption performed by FortiProxy when deep-inspection is enabled.	<i>yes</i>	SSL decryption and encryption performed by an external device.			
	Option	Description								
	<i>no</i>	SSL decryption and encryption performed by FortiProxy when deep-inspection is enabled.								
<i>yes</i>	SSL decryption and encryption performed by an external device.									
address-ip-rating	Enable/disable IP based URL rating.	option	-	enable						

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		

config mapi

Parameter	Description	Type	Size	Default
ports	Ports to scan for content (1 - 65535, default = 135).	integer	Minimum value: 1 Maximum value: 65535	
status	Enable/disable the active status of scanning for this protocol.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
options	One or more options that can be applied to the session.	option	-	
	Option	Description		
	<i>fragmail</i>	Pass fragmented email.		
	<i>oversize</i>	Block oversized email.		
oversize-limit	Maximum in-memory file size that can be scanned (MB).	integer	Minimum value: 1 Maximum value: 4095	10
uncompressed-oversize-limit	Maximum in-memory uncompressed file size that can be scanned (MB).	integer	Minimum value: 1 Maximum value: 4095	10
uncompressed-nest-limit	Maximum nested levels of compression that can be uncompressed and scanned (2 - 100, default = 12).	integer	Minimum value: 2 Maximum value: 100	12
scan-bzip2	Enable/disable scanning of BZip2 compressed files.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		

config pop3

Parameter	Description	Type	Size	Default
ports	Ports to scan for content (1 - 65535, default = 110).	integer	Minimum value: 1 Maximum value: 65535	
status	Enable/disable the active status of scanning for this protocol.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
options	One or more options that can be applied to the session.	option	-	
	Option	Description		
	<i>fragmail</i>	Pass fragmented email.		
	<i>oversize</i>	Block oversized email.		
oversize-limit	Maximum in-memory file size that can be scanned (MB).	integer	Minimum value: 1 Maximum value: 4095	10
uncompressed-oversize-limit	Maximum in-memory uncompressed file size that can be scanned (MB).	integer	Minimum value: 1 Maximum value: 4095	10
uncompressed-nest-limit	Maximum nested levels of compression that can be uncompressed and scanned (2 - 100, default = 12).	integer	Minimum value: 2 Maximum value: 100	12
scan-bzip2	Enable/disable scanning of BZip2 compressed files.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
ssl-offloaded	SSL decryption and encryption performed by an external device.	option	-	no
	Option	Description		
	<i>no</i>	SSL decryption and encryption performed by FortiProxy when deep-inspection is enabled.		
	<i>yes</i>	SSL decryption and encryption performed by an external device.		

config smtp

Parameter	Description	Type	Size	Default								
ports	Ports to scan for content (1 - 65535, default = 25).	integer	Minimum value: 1 Maximum value: 65535									
status	Enable/disable the active status of scanning for this protocol.	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>				Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.		
Option	Description											
<i>enable</i>	Enable setting.											
<i>disable</i>	Disable setting.											
options	One or more options that can be applied to the session.	option	-									
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>fragmail</i></td><td>Pass fragmented email.</td></tr><tr><td><i>oversize</i></td><td>Block oversized email.</td></tr><tr><td><i>splice</i></td><td>Enable splice mode.</td></tr></table>				Option	Description	<i>fragmail</i>	Pass fragmented email.	<i>oversize</i>	Block oversized email.	<i>splice</i>	Enable splice mode.
Option	Description											
<i>fragmail</i>	Pass fragmented email.											
<i>oversize</i>	Block oversized email.											
<i>splice</i>	Enable splice mode.											
oversize-limit	Maximum in-memory file size that can be scanned (MB).	integer	Minimum value: 1 Maximum value: 4095	10								

Parameter	Description	Type	Size	Default						
uncompressed-oversize-limit	Maximum in-memory uncompressed file size that can be scanned (MB).	integer	Minimum value: 1 Maximum value: 4095	10						
uncompressed-nest-limit	Maximum nested levels of compression that can be uncompressed and scanned (2 - 100, default = 12).	integer	Minimum value: 2 Maximum value: 100	12						
scan-bzip2	Enable/disable scanning of BZip2 compressed files.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									
server-busy	Enable/disable SMTP server busy when server not available.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									
ssl-offloaded	SSL decryption and encryption performed by an external device.	option	-	no						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>no</i></td><td>SSL decryption and encryption performed by FortiProxy when deep-inspection is enabled.</td></tr><tr><td><i>yes</i></td><td>SSL decryption and encryption performed by an external device.</td></tr></table>	Option	Description	<i>no</i>	SSL decryption and encryption performed by FortiProxy when deep-inspection is enabled.	<i>yes</i>	SSL decryption and encryption performed by an external device.			
Option	Description									
<i>no</i>	SSL decryption and encryption performed by FortiProxy when deep-inspection is enabled.									
<i>yes</i>	SSL decryption and encryption performed by an external device.									

config nntp

Parameter	Description	Type	Size	Default
ports	Ports to scan for content (1 - 65535, default = 119).	integer	Minimum value: 1 Maximum value: 65535	
status	Enable/disable the active status of scanning for this protocol.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
options	One or more options that can be applied to the session.	option	-	
	Option	Description		
	<i>oversize</i>	Block oversized file.		
	<i>splice</i>	Enable splice mode.		
oversize-limit	Maximum in-memory file size that can be scanned (MB).	integer	Minimum value: 1 Maximum value: 4095	10
uncompressed-oversize-limit	Maximum in-memory uncompressed file size that can be scanned (MB).	integer	Minimum value: 1 Maximum value: 4095	10
uncompressed-nest-limit	Maximum nested levels of compression that can be uncompressed and scanned (2 - 100, default = 12).	integer	Minimum value: 2 Maximum value: 100	12
scan-bzip2	Enable/disable scanning of BZip2 compressed files.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		

config ssh

Parameter	Description	Type	Size	Default
options	One or more options that can be applied to the session.	option	-	
	Option	Description		
	<i>oversize</i>	Block oversized file.		
	<i>clientcomfort</i>	Prevent client timeout.		
	<i>servercomfort</i>	Prevent server timeout.		

Parameter	Description	Type	Size	Default										
comfort-interval	Interval between successive transmissions of data for client comforting (seconds).	integer	Minimum value: 1 Maximum value: 900	10										
comfort-amount	Number of bytes to send in each transmission for client comforting (bytes).	integer	Minimum value: 1 Maximum value: 65535	1										
oversize-limit	Maximum in-memory file size that can be scanned (MB).	integer	Minimum value: 1 Maximum value: 4095	10										
uncompressed-oversize-limit	Maximum in-memory uncompressed file size that can be scanned (MB).	integer	Minimum value: 1 Maximum value: 4095	10										
uncompressed-nest-limit	Maximum nested levels of compression that can be uncompressed and scanned (2 - 100, default = 12).	integer	Minimum value: 2 Maximum value: 100	12										
stream-based-uncompressed-limit	Maximum stream-based uncompressed data size that will be scanned in megabytes. Stream-based uncompression used only under certain conditions (unlimited = 0, default = 0).	integer	Minimum value: 0 Maximum value: 4294967295	0										
scan-bzip2	Enable/disable scanning of BZip2 compressed files.	option	-	enable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable setting.</td></tr><tr><td>disable</td><td>Disable setting.</td></tr></table>				Option	Description	enable	Enable setting.	disable	Disable setting.				
Option	Description													
enable	Enable setting.													
disable	Disable setting.													
tcp-window-type	TCP window type to use for this protocol.	option	-	auto-tuning										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>auto-tuning</td><td>Allow system to auto-tune TCP window size (default).</td></tr><tr><td>system</td><td>Use system default TCP window size for this protocol.</td></tr><tr><td>static</td><td>Manually specify TCP window size.</td></tr><tr><td>dynamic</td><td>Vary TCP window size based on available memory and within limits of tcp-window-minimum and tcp-window-maximum.</td></tr></table>				Option	Description	auto-tuning	Allow system to auto-tune TCP window size (default).	system	Use system default TCP window size for this protocol.	static	Manually specify TCP window size.	dynamic	Vary TCP window size based on available memory and within limits of tcp-window-minimum and tcp-window-maximum.
Option	Description													
auto-tuning	Allow system to auto-tune TCP window size (default).													
system	Use system default TCP window size for this protocol.													
static	Manually specify TCP window size.													
dynamic	Vary TCP window size based on available memory and within limits of tcp-window-minimum and tcp-window-maximum.													

Parameter	Description	Type	Size	Default						
tcp-window-minimum	Minimum dynamic TCP window size.	integer	Minimum value: 65536 Maximum value: 1048576	131072						
tcp-window-maximum	Maximum dynamic TCP window size.	integer	Minimum value: 1048576 Maximum value: 16777216	8388608						
tcp-window-size	Set TCP static window size.	integer	Minimum value: 65536 Maximum value: 16777216	262144						
ssl-offloaded	SSL decryption and encryption performed by an external device.	option	-	no						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>no</td><td>SSL decryption and encryption performed by FortiProxy when deep-inspection is enabled.</td></tr><tr><td>yes</td><td>SSL decryption and encryption performed by an external device.</td></tr></table>				Option	Description	no	SSL decryption and encryption performed by FortiProxy when deep-inspection is enabled.	yes	SSL decryption and encryption performed by an external device.
Option	Description									
no	SSL decryption and encryption performed by FortiProxy when deep-inspection is enabled.									
yes	SSL decryption and encryption performed by an external device.									

config dns

Parameter	Description	Type	Size	Default
ports	Ports to scan for content (1 - 65535, default = 53).	integer	Minimum value: 1 Maximum value: 65535	
status	Enable/disable the active status of scanning for this protocol.	option	-	enable
	Option	Description		
	enable	Enable setting.		
	disable	Disable setting.		

config cifs

Parameter	Description	Type	Size	Default
ports	Ports to scan for content (1 - 65535, default = 445).	integer	Minimum value: 1 Maximum value: 65535	
status	Enable/disable the active status of scanning for this protocol.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
options	One or more options that can be applied to the session.	option	-	
	Option	Description		
	<i>oversize</i>	Block oversized file.		
oversize-limit	Maximum in-memory file size that can be scanned (MB).	integer	Minimum value: 1 Maximum value: 4095	10
uncompressed-oversize-limit	Maximum in-memory uncompressed file size that can be scanned (MB).	integer	Minimum value: 1 Maximum value: 4095	10
uncompressed-nest-limit	Maximum nested levels of compression that can be uncompressed and scanned (2 - 100, default = 12).	integer	Minimum value: 2 Maximum value: 100	12
scan-bzip2	Enable/disable scanning of BZip2 compressed files.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
tcp-window-type	TCP window type to use for this protocol.	option	-	auto-tuning
	Option	Description		
	<i>auto-tuning</i>	Allow system to auto-tune TCP window size (default).		

Parameter	Description	Type	Size	Default								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>system</i></td><td>Use system default TCP window size for this protocol.</td></tr><tr><td><i>static</i></td><td>Manually specify TCP window size.</td></tr><tr><td><i>dynamic</i></td><td>Vary TCP window size based on available memory and within limits of tcp-window-minimum and tcp-window-maximum.</td></tr></table>	Option	Description	<i>system</i>	Use system default TCP window size for this protocol.	<i>static</i>	Manually specify TCP window size.	<i>dynamic</i>	Vary TCP window size based on available memory and within limits of tcp-window-minimum and tcp-window-maximum.			
	Option	Description										
	<i>system</i>	Use system default TCP window size for this protocol.										
	<i>static</i>	Manually specify TCP window size.										
<i>dynamic</i>	Vary TCP window size based on available memory and within limits of tcp-window-minimum and tcp-window-maximum.											
tcp-window-minimum	Minimum dynamic TCP window size.	integer	Minimum value: 65536 Maximum value: 1048576	131072								
tcp-window-maximum	Maximum dynamic TCP window size.	integer	Minimum value: 1048576 Maximum value: 16777216	8388608								
tcp-window-size	Set TCP static window size.	integer	Minimum value: 65536 Maximum value: 16777216	262144								
server-credential-type	CIFS server credential type.	option	-	none								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>none</i></td><td>Credential derivation not set.</td></tr><tr><td><i>credential-replication</i></td><td>Credential derived using Replication account on Domain Controller.</td></tr><tr><td><i>credential-keytab</i></td><td>Credential derived using server keytab.</td></tr></table>	Option	Description	<i>none</i>	Credential derivation not set.	<i>credential-replication</i>	Credential derived using Replication account on Domain Controller.	<i>credential-keytab</i>	Credential derived using server keytab.			
	Option	Description										
	<i>none</i>	Credential derivation not set.										
	<i>credential-replication</i>	Credential derived using Replication account on Domain Controller.										
<i>credential-keytab</i>	Credential derived using server keytab.											
domain-controller	Domain for which to decrypt CIFS traffic.	string	Maximum length: 63									

config server-keytab

Parameter	Description	Type	Size	Default
principal	Service principal. For example, host/cifsserver.example.com@example.com.	string	Maximum length: 511	

Parameter	Description	Type	Size	Default
keytab	Base64 encoded keytab file containing credential of the server.	string	Maximum length: 8191	

config mail-signature

Parameter	Description	Type	Size	Default						
status	Enable/disable adding an email signature to SMTP email messages as they pass through the FortiProxy.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable mail signature.</td></tr><tr><td><i>enable</i></td><td>Enable mail signature.</td></tr></table>				Option	Description	<i>disable</i>	Disable mail signature.	<i>enable</i>	Enable mail signature.
	Option	Description								
	<i>disable</i>	Disable mail signature.								
<i>enable</i>	Enable mail signature.									
signature	Email signature to be added to outgoing email (if the signature contains spaces, enclose with quotation marks).	string	Maximum length: 1023							

config firewall proxy-address

Configure web proxy address.

```
config firewall proxy-address
  Description: Configure web proxy address.
  edit <name>
    set uuid {uuid}
    set type [host-regex|url|...]
    set host {string}
    set host-regex {string}
    set path {string}
    set query {string}
    set referrer [enable|disable]
    set post-arg [enable|disable]
    set category <id1>, <id2>, ...
    set url-list {string}
    set method {option1}, {option2}, ...
    set ua {option1}, {option2}, ...
    set ua-min-ver {string}
    set ua-max-ver {string}
    set header-name {string}
    set header {string}
    set case-sensitivity [disable|enable]
    config header-group
      Description: HTTP header group.
      edit <id>
        set header-name {string}
        set header {string}
        set case-sensitivity [disable|enable]
```

```

        next
    end
    set color {integer}
    config tagging
        Description: Config object tagging.
        edit <name>
            set category {string}
            set tags <name1>, <name2>, ...
        next
    end
    set comment {var-string}
    set application <name1>, <name2>, ...
next
end

```

config firewall proxy-address

Parameter	Description	Type	Size	Default
name	Address name.	string	Maximum length: 79	
uuid	Universally Unique Identifier (UUID; automatically assigned but can be manually reset).	uuid	Not Specified	00000000-0000-0000-0000-000000000000
type	Proxy address type.	option	-	url
	Option	Description		
	<i>host-regex</i>	Host regular expression.		
	<i>url</i>	HTTP URL.		
	<i>category</i>	FortiGuard URL category.		
	<i>url-list</i>	HTTP URL list from external resource or Web filter URL list.		
	<i>method</i>	HTTP request method.		
	<i>ua</i>	HTTP request user agent.		
	<i>header</i>	HTTP request header.		
	<i>src-advanced</i>	HTTP advanced source criteria.		
	<i>dst-advanced</i>	HTTP advanced destination criteria.		
<i>saas</i>	SaaS application.			
host	Address object for the host.	string	Maximum length: 79	
host-regex	Host name as a regular expression.	string	Maximum length: 255	

Parameter	Description	Type	Size	Default																		
path	URL path as a regular expression.	string	Maximum length: 255																			
query	Match the query part of the URL as a regular expression.	string	Maximum length: 255																			
referrer	Enable/disable use of referrer field in the HTTP header to match the address.	option	-	disable																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.															
Option	Description																					
<i>enable</i>	Enable setting.																					
<i>disable</i>	Disable setting.																					
post-arg	Enable/disable use of body in the HTTP POST to match the query.	option	-	disable																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.															
Option	Description																					
<i>enable</i>	Enable setting.																					
<i>disable</i>	Disable setting.																					
category <id>	FortiGuard category ID. FortiGuard category ID.	integer	Minimum value: 0 Maximum value: 4294967295																			
url-list	External or Web filter URL list.	string	Maximum length: 35																			
method	HTTP request methods to be used.	option	-																			
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>get</i></td><td>GET method.</td></tr><tr><td><i>post</i></td><td>POST method.</td></tr><tr><td><i>put</i></td><td>PUT method.</td></tr><tr><td><i>head</i></td><td>HEAD method.</td></tr><tr><td><i>connect</i></td><td>CONNECT method.</td></tr><tr><td><i>trace</i></td><td>TRACE method.</td></tr><tr><td><i>options</i></td><td>OPTIONS method.</td></tr><tr><td><i>delete</i></td><td>DELETE method.</td></tr></table>	Option	Description	<i>get</i>	GET method.	<i>post</i>	POST method.	<i>put</i>	PUT method.	<i>head</i>	HEAD method.	<i>connect</i>	CONNECT method.	<i>trace</i>	TRACE method.	<i>options</i>	OPTIONS method.	<i>delete</i>	DELETE method.			
Option	Description																					
<i>get</i>	GET method.																					
<i>post</i>	POST method.																					
<i>put</i>	PUT method.																					
<i>head</i>	HEAD method.																					
<i>connect</i>	CONNECT method.																					
<i>trace</i>	TRACE method.																					
<i>options</i>	OPTIONS method.																					
<i>delete</i>	DELETE method.																					
ua	Names of browsers to be used as user agent.	option	-																			

Parameter	Description	Type	Size	Default																
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>chrome</i></td><td>Google Chrome.</td></tr><tr><td><i>ms</i></td><td>Microsoft Internet Explorer or EDGE.</td></tr><tr><td><i>firefox</i></td><td>Mozilla Firefox.</td></tr><tr><td><i>safari</i></td><td>Apple Safari.</td></tr><tr><td><i>ie</i></td><td>Microsoft Internet Explorer.</td></tr><tr><td><i>edge</i></td><td>Microsoft Edge.</td></tr><tr><td><i>other</i></td><td>Other browsers.</td></tr></table>	Option	Description	<i>chrome</i>	Google Chrome.	<i>ms</i>	Microsoft Internet Explorer or EDGE.	<i>firefox</i>	Mozilla Firefox.	<i>safari</i>	Apple Safari.	<i>ie</i>	Microsoft Internet Explorer.	<i>edge</i>	Microsoft Edge.	<i>other</i>	Other browsers.			
	Option	Description																		
	<i>chrome</i>	Google Chrome.																		
	<i>ms</i>	Microsoft Internet Explorer or EDGE.																		
	<i>firefox</i>	Mozilla Firefox.																		
	<i>safari</i>	Apple Safari.																		
	<i>ie</i>	Microsoft Internet Explorer.																		
	<i>edge</i>	Microsoft Edge.																		
<i>other</i>	Other browsers.																			
ua-min-ver	Minimum version of the user agent specified in dotted notation. For example, use 90.0.1 with the ua field set to "chrome" to require Google Chrome's minimum version must be 90.0.1.	string	Maximum length: 63																	
ua-max-ver	Maximum version of the user agent specified in dotted notation. For example, use 120 with the ua field set to "chrome" to require Google Chrome's maximum version must be 120.	string	Maximum length: 63																	
header-name	Name of HTTP header.	string	Maximum length: 79																	
header	HTTP header name as a regular expression.	string	Maximum length: 255																	
case-sensitivity	Enable to make the pattern case sensitive.	option	-	disable																
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Case insensitive in pattern.</td></tr><tr><td><i>enable</i></td><td>Case sensitive in pattern.</td></tr></table>	Option	Description	<i>disable</i>	Case insensitive in pattern.	<i>enable</i>	Case sensitive in pattern.													
	Option	Description																		
	<i>disable</i>	Case insensitive in pattern.																		
<i>enable</i>	Case sensitive in pattern.																			
color	Integer value to determine the color of the icon in the GUI (1 - 32, default = 0, which sets value to 1).	integer	Minimum value: 0 Maximum value: 32	0																
comment	Optional comments.	var-string	Maximum length: 255																	
application <name>	SaaS application. SaaS application name.	string	Maximum length: 79																	

config header-group

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
header-name	HTTP header.	string	Maximum length: 79	
header	HTTP header regular expression.	string	Maximum length: 255	
case-sensitivity	Case sensitivity in pattern.	option	-	disable
		Option	Description	
		<i>disable</i>	Case insensitive in pattern.	
		<i>enable</i>	Case sensitive in pattern.	

config tagging

Parameter	Description	Type	Size	Default
name	Tagging entry name.	string	Maximum length: 63	
category	Tag category.	string	Maximum length: 63	
tags <name>	Tags. Tag name.	string	Maximum length: 79	

config firewall proxy-address6

Configure web proxy address6.

```
config firewall proxy-address6
  Description: Configure web proxy address6.
  edit <name>
    set uuid {uuid}
    set type [host-regex|url|...]
    set host {string}
    set host-regex {string}
    set path {string}
    set query {string}
    set referrer [enable|disable]
```

```

set post-arg [enable|disable]
set category <id1>, <id2>, ...
set url-list {string}
set method {option1}, {option2}, ...
set ua {option1}, {option2}, ...
set ua-min-ver {string}
set ua-max-ver {string}
set header-name {string}
set header {string}
set case-sensitivity [disable|enable]
config header-group
    Description: HTTP header group.
    edit <id>
        set header-name {string}
        set header {string}
        set case-sensitivity [disable|enable]
    next
end
set color {integer}
config tagging
    Description: Config object tagging.
    edit <name>
        set category {string}
        set tags <name1>, <name2>, ...
    next
end
set comment {var-string}
set application <name1>, <name2>, ...
next
end

```

config firewall proxy-address6

Parameter	Description	Type	Size	Default										
name	Address6 name.	string	Maximum length: 79											
uuid	Universally Unique Identifier (UUID; automatically assigned but can be manually reset).	uuid	Not Specified	00000000-0000-0000-0000-000000000000										
type	Proxy address6 type.	option	-	url										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>host-regex</i></td><td>Host regular expression.</td></tr><tr><td><i>url</i></td><td>HTTP URL.</td></tr><tr><td><i>category</i></td><td>FortiGuard URL category.</td></tr><tr><td><i>url-list</i></td><td>HTTP URL list from external resource or Web filter URL list.</td></tr></table>				Option	Description	<i>host-regex</i>	Host regular expression.	<i>url</i>	HTTP URL.	<i>category</i>	FortiGuard URL category.	<i>url-list</i>	HTTP URL list from external resource or Web filter URL list.
Option	Description													
<i>host-regex</i>	Host regular expression.													
<i>url</i>	HTTP URL.													
<i>category</i>	FortiGuard URL category.													
<i>url-list</i>	HTTP URL list from external resource or Web filter URL list.													

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>method</i>	HTTP request method.		
	<i>ua</i>	HTTP request user agent.		
	<i>header</i>	HTTP request header.		
	<i>src-advanced</i>	HTTP advanced source criteria.		
	<i>dst-advanced</i>	HTTP advanced destination criteria.		
	<i>saas</i>	SaaS application.		
host	Address6 object for the host.	string	Maximum length: 79	
host-regex	Host name as a regular expression.	string	Maximum length: 255	
path	URL path as a regular expression.	string	Maximum length: 255	
query	Match the query part of the URL as a regular expression.	string	Maximum length: 255	
referrer	Enable/disable use of referrer field in the HTTP header to match the address.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
post-arg	Enable/disable use of body in the HTTP POST to match the query.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
category <id>	FortiGuard category ID. FortiGuard category ID.	integer	Minimum value: 0 Maximum value: 4294967295	
url-list	External or Web filter URL list.	string	Maximum length: 35	
method	HTTP request methods to be used.	option	-	

Parameter	Description	Type	Size	Default																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>get</i></td><td>GET method.</td></tr><tr><td><i>post</i></td><td>POST method.</td></tr><tr><td><i>put</i></td><td>PUT method.</td></tr><tr><td><i>head</i></td><td>HEAD method.</td></tr><tr><td><i>connect</i></td><td>CONNECT method.</td></tr><tr><td><i>trace</i></td><td>TRACE method.</td></tr><tr><td><i>options</i></td><td>OPTIONS method.</td></tr><tr><td><i>delete</i></td><td>DELETE method.</td></tr></table>	Option	Description	<i>get</i>	GET method.	<i>post</i>	POST method.	<i>put</i>	PUT method.	<i>head</i>	HEAD method.	<i>connect</i>	CONNECT method.	<i>trace</i>	TRACE method.	<i>options</i>	OPTIONS method.	<i>delete</i>	DELETE method.			
	Option	Description																				
	<i>get</i>	GET method.																				
	<i>post</i>	POST method.																				
	<i>put</i>	PUT method.																				
	<i>head</i>	HEAD method.																				
	<i>connect</i>	CONNECT method.																				
	<i>trace</i>	TRACE method.																				
	<i>options</i>	OPTIONS method.																				
<i>delete</i>	DELETE method.																					
ua	Names of browsers to be used as user agent.	option	-																			
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>chrome</i></td><td>Google Chrome.</td></tr><tr><td><i>ms</i></td><td>Microsoft Internet Explorer or EDGE.</td></tr><tr><td><i>firefox</i></td><td>Mozilla Firefox.</td></tr><tr><td><i>safari</i></td><td>Apple Safari.</td></tr><tr><td><i>ie</i></td><td>Microsoft Internet Explorer.</td></tr><tr><td><i>edge</i></td><td>Microsoft Edge.</td></tr><tr><td><i>other</i></td><td>Other browsers.</td></tr></table>	Option	Description	<i>chrome</i>	Google Chrome.	<i>ms</i>	Microsoft Internet Explorer or EDGE.	<i>firefox</i>	Mozilla Firefox.	<i>safari</i>	Apple Safari.	<i>ie</i>	Microsoft Internet Explorer.	<i>edge</i>	Microsoft Edge.	<i>other</i>	Other browsers.					
	Option	Description																				
	<i>chrome</i>	Google Chrome.																				
	<i>ms</i>	Microsoft Internet Explorer or EDGE.																				
	<i>firefox</i>	Mozilla Firefox.																				
	<i>safari</i>	Apple Safari.																				
	<i>ie</i>	Microsoft Internet Explorer.																				
	<i>edge</i>	Microsoft Edge.																				
<i>other</i>	Other browsers.																					
ua-min-ver	Minimum version of the user agent specified in dotted notation. For example, use 90.0.1 with the ua field set to "chrome" to require Google Chrome's minimum version must be 90.0.1.	string	Maximum length: 63																			
ua-max-ver	Maximum version of the user agent specified in dotted notation. For example, use 120 with the ua field set to "chrome" to require Google Chrome's maximum version must be 120.	string	Maximum length: 63																			
header-name	Name of HTTP header.	string	Maximum length: 79																			
header	HTTP header name as a regular expression.	string	Maximum length: 255																			
case-sensitivity	Enable to make the pattern case sensitive.	option	-	disable																		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Case insensitive in pattern.		
	<i>enable</i>	Case sensitive in pattern.		
color	Integer value to determine the color of the icon in the GUI (1 - 32, default = 0, which sets value to 1).	integer	Minimum value: 0 Maximum value: 32	0
comment	Optional comments.	var-string	Maximum length: 255	
application <name>	SaaS application. SaaS application name.	string	Maximum length: 79	

config header-group

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
header-name	HTTP header.	string	Maximum length: 79	
header	HTTP header regular expression.	string	Maximum length: 255	
case-sensitivity	Case sensitivity in pattern.	option	-	disable
	Option	Description		
	disable	Case insensitive in pattern.		
	enable	Case sensitive in pattern.		

config tagging

Parameter	Description	Type	Size	Default
name	Tagging entry name.	string	Maximum length: 63	

Parameter	Description	Type	Size	Default
category	Tag category.	string	Maximum length: 63	
tags <name>	Tags. Tag name.	string	Maximum length: 79	

config firewall proxy-addrgrp

Configure web proxy address group.

```
config firewall proxy-addrgrp
    Description: Configure web proxy address group.
    edit <name>
        set type [src|dst]
        set uuid {uuid}
        set member <name1>, <name2>, ...
        set color {integer}
        config tagging
            Description: Config object tagging.
            edit <name>
                set category {string}
                set tags <name1>, <name2>, ...
            next
        end
        set comment {var-string}
    next
end
```

config firewall proxy-addrgrp

Parameter	Description	Type	Size	Default
name	Address group name.	string	Maximum length: 79	
type	Source or destination address group type.	option	-	src
	Option	Description		
	src	Source group.		
	dst	Destination group.		
uuid	Universally Unique Identifier (UUID; automatically assigned but can be manually reset).	uuid	Not Specified	00000000-0000-0000-0000-000000000000
member <name>	Members of address group. Address name.	string	Maximum length: 79	

Parameter	Description	Type	Size	Default
color	Integer value to determine the color of the icon in the GUI (1 - 32, default = 0, which sets value to 1).	integer	Minimum value: 0 Maximum value: 32	0
comment	Optional comments.	var-string	Maximum length: 255	

config tagging

Parameter	Description	Type	Size	Default
name	Tagging entry name.	string	Maximum length: 63	
category	Tag category.	string	Maximum length: 63	
tags <name>	Tags. Tag name.	string	Maximum length: 79	

config firewall proxy-addrgrp6

Configure web proxy address group6.

```
config firewall proxy-addrgrp6
  Description: Configure web proxy address group6.
  edit <name>
    set type [src|dst]
    set uuid {uuid}
    set member <name1>, <name2>, ...
    set color {integer}
    config tagging
      Description: Config object tagging.
      edit <name>
        set category {string}
        set tags <name1>, <name2>, ...
      next
    end
    set comment {var-string}
  next
end
```


config firewall proxy-addrgrp6

Parameter	Description	Type	Size	Default
name	Address group6.	string	Maximum length: 79	
type	Source or destination address group6 type.	option	-	src
	Option	Description		
	src	Source group.		
	dst	Destination group.		
uuid	Universally Unique Identifier (UUID; automatically assigned but can be manually reset).	uuid	Not Specified	00000000-0000-0000-0000-000000000000
member <name>	Members of address group6. Address name.	string	Maximum length: 79	
color	Integer value to determine the color of the icon in the GUI (1 - 32, default = 0, which sets value to 1).	integer	Minimum value: 0 Maximum value: 32	0
comment	Optional comments.	var-string	Maximum length: 255	

config tagging

Parameter	Description	Type	Size	Default
name	Tagging entry name.	string	Maximum length: 63	
category	Tag category.	string	Maximum length: 63	
tags <name>	Tags. Tag name.	string	Maximum length: 79	

config firewall region

Define region table.

```
config firewall region
  Description: Define region table.
  edit <id>
    set name {string}
    set city <id1>, <id2>, ...
```

```
next
end
```

config firewall region

Parameter	Description	Type	Size	Default
id	Region ID.	integer	Minimum value: 0 Maximum value: 65535	0
name	Region name.	string	Maximum length: 63	
city <id>	City ID list. City ID.	integer	Minimum value: 0 Maximum value: 65535	

config firewall schedule group

Schedule group configuration.

```
config firewall schedule group
  Description: Schedule group configuration.
  edit <name>
    set member <name1>, <name2>, ...
    set color {integer}
    set fabric-object [enable|disable]
  next
end
```

config firewall schedule group

Parameter	Description	Type	Size	Default
name	Schedule group name.	string	Maximum length: 31	
member <name>	Schedules added to the schedule group. Schedule name.	string	Maximum length: 79	

Parameter	Description	Type	Size	Default
color	Color of icon on the GUI.	integer	Minimum value: 0 Maximum value: 32	0
fabric-object	Security Fabric global object setting.	option	-	disable
	Option	Description		
	<i>enable</i>	Object is set as a security fabric-wide global object.		
	<i>disable</i>	Object is local to this security fabric member.		

config firewall schedule onetime

Onetime schedule configuration.

```
config firewall schedule onetime
    Description: Onetime schedule configuration.
    edit <name>
        set start {user}
        set start-utc {user}
        set end {user}
        set end-utc {user}
        set color {integer}
        set expiration-days {integer}
        set fabric-object [enable|disable]
    next
end
```

config firewall schedule onetime

Parameter	Description	Type	Size	Default
name	Onetime schedule name.	string	Maximum length: 31	
start	Schedule start date and time, format hh:mm yyyy/mm/dd.	user	Not Specified	
start-utc	Schedule start date and time, in epoch format.	user	Not Specified	
end	Schedule end date and time, format hh:mm yyyy/mm/dd.	user	Not Specified	
end-utc	Schedule end date and time, in epoch format.	user	Not Specified	

Parameter	Description	Type	Size	Default
color	Color of icon on the GUI.	integer	Minimum value: 0 Maximum value: 32	0
expiration-days	Write an event log message this many days before the schedule expires.	integer	Minimum value: 0 Maximum value: 100	3
fabric-object	Security Fabric global object setting.	option	-	disable
	Option	Description		
	<i>enable</i>	Object is set as a security fabric-wide global object.		
	<i>disable</i>	Object is local to this security fabric member.		

config firewall schedule recurring

Recurring schedule configuration.

```
config firewall schedule recurring
    Description: Recurring schedule configuration.
    edit <name>
        set start {user}
        set end {user}
        set day {option1}, {option2}, ...
        set color {integer}
        set fabric-object [enable|disable]
    next
end
```

config firewall schedule recurring

Parameter	Description	Type	Size	Default
name	Recurring schedule name.	string	Maximum length: 31	
start	Time of day to start the schedule, format hh:mm.	user	Not Specified	
end	Time of day to end the schedule, format hh:mm.	user	Not Specified	
day	One or more days of the week on which the schedule is valid. Separate the names of the days with a space.	option	-	none

Parameter	Description	Type	Size	Default																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>sunday</i></td><td>Sunday.</td></tr><tr><td><i>monday</i></td><td>Monday.</td></tr><tr><td><i>tuesday</i></td><td>Tuesday.</td></tr><tr><td><i>wednesday</i></td><td>Wednesday.</td></tr><tr><td><i>thursday</i></td><td>Thursday.</td></tr><tr><td><i>friday</i></td><td>Friday.</td></tr><tr><td><i>saturday</i></td><td>Saturday.</td></tr><tr><td><i>none</i></td><td>None.</td></tr></table>	Option	Description	<i>sunday</i>	Sunday.	<i>monday</i>	Monday.	<i>tuesday</i>	Tuesday.	<i>wednesday</i>	Wednesday.	<i>thursday</i>	Thursday.	<i>friday</i>	Friday.	<i>saturday</i>	Saturday.	<i>none</i>	None.			
	Option	Description																				
	<i>sunday</i>	Sunday.																				
	<i>monday</i>	Monday.																				
	<i>tuesday</i>	Tuesday.																				
	<i>wednesday</i>	Wednesday.																				
	<i>thursday</i>	Thursday.																				
	<i>friday</i>	Friday.																				
	<i>saturday</i>	Saturday.																				
<i>none</i>	None.																					
color	Color of icon on the GUI.	integer	Minimum value: 0 Maximum value: 32	0																		
fabric-object	Security Fabric global object setting.	option	-	disable																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Object is set as a security fabric-wide global object.</td></tr><tr><td><i>disable</i></td><td>Object is local to this security fabric member.</td></tr></table>	Option	Description	<i>enable</i>	Object is set as a security fabric-wide global object.	<i>disable</i>	Object is local to this security fabric member.															
	Option	Description																				
	<i>enable</i>	Object is set as a security fabric-wide global object.																				
<i>disable</i>	Object is local to this security fabric member.																					

config firewall service category

Configure service categories.

```
config firewall service category
    Description: Configure service categories.
    edit <name>
        set comment {var-string}
        set fabric-object [enable|disable]
    next
end
```

config firewall service category

Parameter	Description	Type	Size	Default
name	Service category name.	string	Maximum length: 63	

Parameter	Description	Type	Size	Default						
comment	Comment.	var-string	Maximum length: 255							
fabric-object	Security Fabric global object setting.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Object is set as a security fabric-wide global object.</td></tr><tr><td><i>disable</i></td><td>Object is local to this security fabric member.</td></tr></table>				Option	Description	<i>enable</i>	Object is set as a security fabric-wide global object.	<i>disable</i>	Object is local to this security fabric member.
Option	Description									
<i>enable</i>	Object is set as a security fabric-wide global object.									
<i>disable</i>	Object is local to this security fabric member.									

config firewall service custom

Configure custom services.

```
config firewall service custom
  Description: Configure custom services.
  edit <name>
    set proxy [enable|disable]
    set category {string}
    set protocol [TCP/UDP/SCTP/ICMP|...]
    set iprange {user}
    set fqdn {string}
    set protocol-number {integer}
    set icmptype {integer}
    set icmpcode {integer}
    set tcp-portrange {user}
    set udp-portrange {user}
    set sctp-portrange {user}
    set tcp-halfclose-timer {integer}
    set tcp-halfopen-timer {integer}
    set tcp-timewait-timer {integer}
    set tcp-rst-timer {integer}
    set udp-idle-timer {integer}
    set session-ttl {user}
    set check-reset-range [disable|strict|...]
    set comment {var-string}
    set color {integer}
    set app-service-type [disable|app-id|...]
    set app-category <id1>, <id2>, ...
    set application <id1>, <id2>, ...
    set fabric-object [enable|disable]
  next
end
```

config firewall service custom

Parameter	Description	Type	Size	Default																						
name	Custom service name.	string	Maximum length: 79																							
proxy	Enable/disable web proxy service.	option	-	disable																						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>				Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.																
	Option	Description																								
	<i>enable</i>	Enable setting.																								
<i>disable</i>	Disable setting.																									
category	Service category.	string	Maximum length: 63																							
protocol	Protocol type based on IANA numbers.	option	-	TCP/UDP/SCTP																						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>TCP/UDP/SCTP</i></td><td>TCP, UDP and SCTP.</td></tr><tr><td><i>ICMP</i></td><td>ICMP.</td></tr><tr><td><i>ICMP6</i></td><td>ICMP6.</td></tr><tr><td><i>IP</i></td><td>IP.</td></tr><tr><td><i>HTTP</i></td><td>HTTP - for web proxy.</td></tr><tr><td><i>FTP</i></td><td>FTP - for web proxy.</td></tr><tr><td><i>CONNECT</i></td><td>Connect - for web proxy.</td></tr><tr><td><i>SOCKS-TCP</i></td><td>Socks TCP - for web proxy.</td></tr><tr><td><i>SOCKS-UDP</i></td><td>Socks UDP - for web proxy.</td></tr><tr><td><i>ALL</i></td><td>All - for web proxy.</td></tr></table>				Option	Description	<i>TCP/UDP/SCTP</i>	TCP, UDP and SCTP.	<i>ICMP</i>	ICMP.	<i>ICMP6</i>	ICMP6.	<i>IP</i>	IP.	<i>HTTP</i>	HTTP - for web proxy.	<i>FTP</i>	FTP - for web proxy.	<i>CONNECT</i>	Connect - for web proxy.	<i>SOCKS-TCP</i>	Socks TCP - for web proxy.	<i>SOCKS-UDP</i>	Socks UDP - for web proxy.	<i>ALL</i>	All - for web proxy.
	Option	Description																								
	<i>TCP/UDP/SCTP</i>	TCP, UDP and SCTP.																								
	<i>ICMP</i>	ICMP.																								
	<i>ICMP6</i>	ICMP6.																								
	<i>IP</i>	IP.																								
	<i>HTTP</i>	HTTP - for web proxy.																								
	<i>FTP</i>	FTP - for web proxy.																								
	<i>CONNECT</i>	Connect - for web proxy.																								
	<i>SOCKS-TCP</i>	Socks TCP - for web proxy.																								
	<i>SOCKS-UDP</i>	Socks UDP - for web proxy.																								
<i>ALL</i>	All - for web proxy.																									
iprange	Start and end of the IP range associated with service.	user	Not Specified																							
fqdn	Fully qualified domain name.	string	Maximum length: 255																							
protocol-number	IP protocol number.	integer	Minimum value: 0 Maximum value: 254	0																						

Parameter	Description	Type	Size	Default
icmptype	ICMP type.	integer	Minimum value: 0 Maximum value: 4294967295	
icmpcode	ICMP code.	integer	Minimum value: 0 Maximum value: 255	
tcp-portrange	Multiple TCP port ranges.	user	Not Specified	
udp-portrange	Multiple UDP port ranges.	user	Not Specified	
sctp-portrange	Multiple SCTP port ranges.	user	Not Specified	
tcp-halfclose-timer	Wait time to close a TCP session waiting for an unanswered FIN packet (1 - 86400 sec, 0 = default).	integer	Minimum value: 0 Maximum value: 86400	0
tcp-halfopen-timer	Wait time to close a TCP session waiting for an unanswered open session packet (1 - 86400 sec, 0 = default).	integer	Minimum value: 0 Maximum value: 86400	0
tcp-timewait-timer	Set the length of the TCP TIME-WAIT state in seconds (1 - 300 sec, 0 = default).	integer	Minimum value: 0 Maximum value: 300	0
tcp-rst-timer	Set the length of the TCP CLOSE state in seconds (5 - 300 sec, 0 = default).	integer	Minimum value: 5 Maximum value: 300	0
udp-idle-timer	Number of seconds before an idle UDP connection times out (0 - 86400 sec, 0 = default).	integer	Minimum value: 0 Maximum value: 86400	0
session-ttl	Session TTL (300 - 2764800, 0 = default).	user	Not Specified	
check-reset-range	Configure the type of ICMP error message verification.	option	-	default
		Option	Description	
		<i>disable</i>	Disable RST range check.	

Parameter	Description	Type	Size	Default
	Option Description			
	<i>strict</i>	Check RST range strictly.		
	<i>default</i>	Using system default setting.		
comment	Comment.	var-string	Maximum length: 255	
color	Color of icon on the GUI.	integer	Minimum value: 0 Maximum value: 32	0
app-service-type	Application service type.	option	-	disable
	Option Description			
	<i>disable</i>	Disable application type.		
	<i>app-id</i>	Application ID.		
	<i>app-category</i>	Applicatin category.		
app-category <id>	Application category ID. Application category id.	integer	Minimum value: 0 Maximum value: 4294967295	
application <id>	Application ID. Application id.	integer	Minimum value: 0 Maximum value: 4294967295	
fabric-object	Security Fabric global object setting.	option	-	disable
	Option Description			
	<i>enable</i>	Object is set as a security fabric-wide global object.		
	<i>disable</i>	Object is local to this security fabric member.		

config firewall service group

Configure service groups.

```
config firewall service group
    Description: Configure service groups.
    edit <name>
```

```

        set proxy [enable|disable]
        set member <name1>, <name2>, ...
        set comment {var-string}
        set color {integer}
        set fabric-object [enable|disable]
    next
end

```

config firewall service group

Parameter	Description	Type	Size	Default						
name	Service group name.	string	Maximum length: 79							
proxy	Enable/disable web proxy service group.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>				Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.
	Option	Description								
	<i>enable</i>	Enable setting.								
<i>disable</i>	Disable setting.									
member <name>	Service objects contained within the group. Service or service group name.	string	Maximum length: 79							
comment	Comment.	var-string	Maximum length: 255							
color	Color of icon on the GUI.	integer	Minimum value: 0 Maximum value: 32	0						
fabric-object	Security Fabric global object setting.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Object is set as a security fabric-wide global object.</td></tr><tr><td><i>disable</i></td><td>Object is local to this security fabric member.</td></tr></table>				Option	Description	<i>enable</i>	Object is set as a security fabric-wide global object.	<i>disable</i>	Object is local to this security fabric member.
	Option	Description								
	<i>enable</i>	Object is set as a security fabric-wide global object.								
<i>disable</i>	Object is local to this security fabric member.									

config firewall shaper per-ip-shaper

Configure per-IP traffic shaper.

```

config firewall shaper per-ip-shaper
    Description: Configure per-IP traffic shaper.
    edit <name>
        set max-bandwidth {integer}
        set bandwidth-unit [kbps|mbps|...]
        set max-concurrent-session {integer}
        set max-concurrent-tcp-session {integer}
    end
end

```

```

set max-concurrent-udp-session {integer}
set diffserv-forward [enable|disable]
set diffserv-reverse [enable|disable]
set diffservcode-forward {user}
set diffservcode-rev {user}
next
end

```

config firewall shaper per-ip-shaper

Parameter	Description	Type	Size	Default								
name	Traffic shaper name.	string	Maximum length: 35									
max-bandwidth	Upper bandwidth limit enforced by this shaper (0 - 80000000). 0 means no limit. Units depend on the bandwidth-unit setting.	integer	Minimum value: 0 Maximum value: 80000000	0								
bandwidth-unit	Unit of measurement for maximum bandwidth for this shaper (Kbps, Mbps or Gbps).	option	-	kbps								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>kbps</i></td><td>Kilobits per second.</td></tr><tr><td><i>mbps</i></td><td>Megabits per second.</td></tr><tr><td><i>gbps</i></td><td>Gigabits per second.</td></tr></table>				Option	Description	<i>kbps</i>	Kilobits per second.	<i>mbps</i>	Megabits per second.	<i>gbps</i>	Gigabits per second.
Option	Description											
<i>kbps</i>	Kilobits per second.											
<i>mbps</i>	Megabits per second.											
<i>gbps</i>	Gigabits per second.											
max-concurrent-session	Maximum number of concurrent sessions allowed by this shaper (0 - 2097000). 0 means no limit.	integer	Minimum value: 0 Maximum value: 2097000	0								
max-concurrent-tcp-session	Maximum number of concurrent TCP sessions allowed by this shaper (0 - 2097000). 0 means no limit.	integer	Minimum value: 0 Maximum value: 2097000	0								
max-concurrent-udp-session	Maximum number of concurrent UDP sessions allowed by this shaper (0 - 2097000). 0 means no limit.	integer	Minimum value: 0 Maximum value: 2097000	0								
diffserv-forward	Enable/disable changing the Forward (original) DiffServ setting applied to traffic accepted by this shaper.	option	-	disable								

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable setting forward (original) traffic DiffServ.		
	<i>disable</i>	Disable setting forward (original) traffic DiffServ.		
diffserv-reverse	Enable/disable changing the Reverse (reply) DiffServ setting applied to traffic accepted by this shaper.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting reverse (reply) traffic DiffServ.		
	<i>disable</i>	Disable setting reverse (reply) traffic DiffServ.		
diffservcode-forward	Forward (original) DiffServ setting to be applied to traffic accepted by this shaper.	user	Not Specified	
diffservcode-rev	Reverse (reply) DiffServ setting to be applied to traffic accepted by this shaper.	user	Not Specified	

config firewall shaper traffic-shaper

Configure shared traffic shaper.

```
config firewall shaper traffic-shaper
  Description: Configure shared traffic shaper.
  edit <name>
    set guaranteed-bandwidth {integer}
    set maximum-bandwidth {integer}
    set bandwidth-unit [kbps|mbps|...]
    set priority [low|medium|...]
    set per-policy [disable|enable]
    set diffserv [enable|disable]
    set diffservcode {user}
    set dscp-marking-method [multi-stage|static]
    set exceed-bandwidth {integer}
    set exceed-dscp {user}
    set maximum-dscp {user}
    set overhead {integer}
  next
end
```

config firewall shaper traffic-shaper

Parameter	Description	Type	Size	Default
name	Traffic shaper name.	string	Maximum length: 35	

Parameter	Description	Type	Size	Default								
guaranteed-bandwidth	Amount of bandwidth guaranteed for this shaper (0 - 800000000). Units depend on the bandwidth-unit setting.	integer	Minimum value: 0 Maximum value: 800000000	0								
maximum-bandwidth	Upper bandwidth limit enforced by this shaper (0 - 800000000). 0 means no limit. Units depend on the bandwidth-unit setting.	integer	Minimum value: 0 Maximum value: 800000000	0								
bandwidth-unit	Unit of measurement for guaranteed and maximum bandwidth for this shaper (Kbps, Mbps or Gbps).	option	-	kbps								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>kbps</i></td><td>Kilobits per second.</td></tr><tr><td><i>mbps</i></td><td>Megabits per second.</td></tr><tr><td><i>gbps</i></td><td>Gigabits per second.</td></tr></table>	Option	Description	<i>kbps</i>	Kilobits per second.	<i>mbps</i>	Megabits per second.	<i>gbps</i>	Gigabits per second.			
Option	Description											
<i>kbps</i>	Kilobits per second.											
<i>mbps</i>	Megabits per second.											
<i>gbps</i>	Gigabits per second.											
priority	Higher priority traffic is more likely to be forwarded without delays and without compromising the guaranteed bandwidth.	option	-	high								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>low</i></td><td>Low priority.</td></tr><tr><td><i>medium</i></td><td>Medium priority.</td></tr><tr><td><i>high</i></td><td>High priority.</td></tr></table>	Option	Description	<i>low</i>	Low priority.	<i>medium</i>	Medium priority.	<i>high</i>	High priority.			
Option	Description											
<i>low</i>	Low priority.											
<i>medium</i>	Medium priority.											
<i>high</i>	High priority.											
per-policy	Enable/disable applying a separate shaper for each policy. For example, if enabled the guaranteed bandwidth is applied separately for each policy.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>All referring policies share one traffic shaper.</td></tr><tr><td><i>enable</i></td><td>Each referring policy has its own traffic shaper.</td></tr></table>	Option	Description	<i>disable</i>	All referring policies share one traffic shaper.	<i>enable</i>	Each referring policy has its own traffic shaper.					
Option	Description											
<i>disable</i>	All referring policies share one traffic shaper.											
<i>enable</i>	Each referring policy has its own traffic shaper.											
diffserv	Enable/disable changing the DiffServ setting applied to traffic accepted by this shaper.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting traffic DiffServ.</td></tr><tr><td><i>disable</i></td><td>Disable setting traffic DiffServ.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting traffic DiffServ.	<i>disable</i>	Disable setting traffic DiffServ.					
Option	Description											
<i>enable</i>	Enable setting traffic DiffServ.											
<i>disable</i>	Disable setting traffic DiffServ.											

Parameter	Description	Type	Size	Default						
diffservcode	DiffServ setting to be applied to traffic accepted by this shaper.	user	Not Specified							
dscp-marking-method	Select DSCP marking method.	option	-	static						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>multi-stage</i></td><td>Multistage marking.</td></tr><tr><td><i>static</i></td><td>Static marking.</td></tr></table>	Option	Description	<i>multi-stage</i>	Multistage marking.	<i>static</i>	Static marking.			
Option	Description									
<i>multi-stage</i>	Multistage marking.									
<i>static</i>	Static marking.									
exceed-bandwidth	Exceed bandwidth used for DSCP/VLAN CoS multi-stage marking. Units depend on the bandwidth-unit setting.	integer	Minimum value: 0 Maximum value: 80000000	0						
exceed-dscp	DSCP mark for traffic in guaranteed-bandwidth and exceed-bandwidth.	user	Not Specified							
maximum-dscp	DSCP mark for traffic in exceed-bandwidth and maximum-bandwidth.	user	Not Specified							
overhead	Per-packet size overhead used in rate computations.	integer	Minimum value: 0 Maximum value: 100	0						

config firewall shaping-policy

Configure shaping policies.

```
config firewall shaping-policy
    Description: Configure shaping policies.
    edit <id>
        set uuid {uuid}
        set name {string}
        set comment {var-string}
        set status [enable|disable]
        set ip-version [4|6]
        set service-type [service|internet-service]
        set srcaddr <name1>, <name2>, ...
        set dstaddr <name1>, <name2>, ...
        set srcaddr6 <name1>, <name2>, ...
        set dstaddr6 <name1>, <name2>, ...
        set service <name1>, <name2>, ...
        set internet-service-name <name1>, <name2>, ...
        set internet-service-group <name1>, <name2>, ...
        set internet-service-custom <name1>, <name2>, ...
        set internet-service-custom-group <name1>, <name2>, ...
        set schedule {string}
```

```

set users <name1>, <name2>, ...
set groups <name1>, <name2>, ...
set application <id1>, <id2>, ...
set app-category <id1>, <id2>, ...
set app-group <name1>, <name2>, ...
set dstintf <name1>, <name2>, ...
set traffic-shaper {string}
set traffic-shaper-reverse {string}
set per-ip-shaper {string}
set class-id {integer}
set class-id-reverse {integer}
set diffserv-forward [enable|disable]
set diffservcode-forward {user}
set diffserv-reverse [enable|disable]
set diffservcode-rev {user}
next
end

```

config firewall shaping-policy

Parameter	Description	Type	Size	Default						
id	Shaping policy ID.	integer	Minimum value: 0 Maximum value: 4294967295	0						
uuid	Universally Unique Identifier (UUID; automatically assigned but can be manually reset).	uuid	Not Specified	00000000-0000-0000-0000-000000000000						
name	Shaping policy name.	string	Maximum length: 35							
comment	Comments.	var-string	Maximum length: 255							
status	Enable/disable traffic shaping policy.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable traffic shaping policy.</td></tr><tr><td><i>disable</i></td><td>Disable traffic shaping policy.</td></tr></table>				Option	Description	<i>enable</i>	Enable traffic shaping policy.	<i>disable</i>	Disable traffic shaping policy.
Option	Description									
<i>enable</i>	Enable traffic shaping policy.									
<i>disable</i>	Disable traffic shaping policy.									
ip-version	IP version.	option	-	4						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>4</td><td>Use IPv4 addressing for Configuration Method.</td></tr><tr><td>6</td><td>Use IPv6 addressing for Configuration Method.</td></tr></table>				Option	Description	4	Use IPv4 addressing for Configuration Method.	6	Use IPv6 addressing for Configuration Method.
Option	Description									
4	Use IPv4 addressing for Configuration Method.									
6	Use IPv6 addressing for Configuration Method.									

Parameter	Description	Type	Size	Default						
service-type	Select service-type: service / internet-service.	option	-	service						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>service</td><td>Firewall services.</td></tr><tr><td>internet-service</td><td>Internet-services.</td></tr></table>				Option	Description	service	Firewall services.	internet-service	Internet-services.
	Option	Description								
	service	Firewall services.								
internet-service	Internet-services.									
srcaddr <name>	Source address. Address name.	string	Maximum length: 79							
dstaddr <name>	Destination address. Address name.	string	Maximum length: 79							
srcaddr6 <name>	IPv6 source address. Address name.	string	Maximum length: 79							
dstaddr6 <name>	IPv6 destination address. Address name.	string	Maximum length: 79							
service <name>	Service name. Service name.	string	Maximum length: 79							
internet- service-name <name>	Internet Service ID. Internet Service name.	string	Maximum length: 79							
internet- service-group <name>	Internet Service group name. Internet Service group name.	string	Maximum length: 79							
internet- service-custom <name>	Custom Internet Service name. Custom Internet Service name.	string	Maximum length: 79							
internet- service- custom-group <name>	Custom Internet Service group name. Custom Internet Service group name.	string	Maximum length: 79							
schedule	Schedule name.	string	Maximum length: 35	always						
users <name>	User name. User name.	string	Maximum length: 79							
groups <name>	User authentication groups. Group name.	string	Maximum length: 79							

Parameter	Description	Type	Size	Default						
application <id>	IDs of one or more applications that this shaper applies application control traffic shaping to. Application IDs.	integer	Minimum value: 0 Maximum value: 4294967295							
app-category <id>	IDs of one or more application categories that this shaper applies application control traffic shaping to. Category IDs.	integer	Minimum value: 0 Maximum value: 4294967295							
app-group <name>	One or more application group names. Application group name.	string	Maximum length: 79							
dstintf <name>	Destination interface list. Interface name.	string	Maximum length: 79							
traffic-shaper	Forward traffic shaper.	string	Maximum length: 35							
traffic-shaper-reverse	Reverse traffic shaper.	string	Maximum length: 35							
per-ip-shaper	Per IP shaper.	string	Maximum length: 35							
class-id	Forward class id.	integer	Minimum value: 2 Maximum value: 31	0						
class-id-reverse	Reverse class id.	integer	Minimum value: 2 Maximum value: 31	0						
diffserv-forward	Enable/disable forward (original) traffic DiffServ.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable setting.</td></tr><tr><td>disable</td><td>Disable setting.</td></tr></table>				Option	Description	enable	Enable setting.	disable	Disable setting.
Option	Description									
enable	Enable setting.									
disable	Disable setting.									
diffservcode-forward	Forward (original) traffic DiffServ code point value.	user	Not Specified							
diffserv-reverse	Enable/disable reverse (reply) traffic DiffServ.	option	-	disable						

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
diffservcode-rev	Reverse (reply) traffic DiffServ code point value.	user	Not Specified	

config firewall shaping-profile

Configure shaping profiles.

```
config firewall shaping-profile
  Description: Configure shaping profiles.
  edit <profile-name>
    set comment {var-string}
    set default-class {integer}
    config classes
      Description: Define shaping classes of this shaping profile
      edit <name>
        set class-id {integer}
        set priority [top|critical|...]
        set guaranteed-bandwidth {integer}
        set maximum-bandwidth {integer}
      next
    end
    set npu-offloading [disable|enable]
  next
end
```

config firewall shaping-profile

Parameter	Description	Type	Size	Default
profile-name	Shaping profile name.	string	Maximum length: 35	
comment	Comment.	var-string	Maximum length: 1023	
default-class	Default class ID to handle unclassified packets.	integer	Minimum value: 2 Maximum value: 32	2
npu-offloading	Enable/disable NPU offloading.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable shaper offloading.		
	<i>enable</i>	Enable shaper offloading.		

config classes

Parameter	Description	Type	Size	Default
name	Class Name.	string	Maximum length: 35	
class-id	Class ID.	integer	Minimum value: 2 Maximum value: 32	0
priority	Priority.	option	-	top
	Option	Description		
	<i>top</i>	Top priority.		
	<i>critical</i>	Critical priority.		
	<i>high</i>	High priority.		
	<i>medium</i>	Medium priority.		
	<i>low</i>	Low priority.		
guaranteed-bandwidth	Guaranteed bandwidth in percentage.	integer	Minimum value: 0 Maximum value: 100	0
maximum-bandwidth	Maximum bandwidth in percentage.	integer	Minimum value: 1 Maximum value: 100	1

config firewall sniffer

Configure sniffer.

```
config firewall sniffer
  Description: Configure sniffer.
  edit <id>
    set uuid {uuid}
    set status [enable|disable]
```

```

        set logtraffic [all|utm|...]
        set non-ip [enable|disable]
        set interface {string}
        set host {string}
        set port {string}
        set protocol {string}
        set vlan {string}
    next
end

```

config firewall sniffer

Parameter	Description	Type	Size	Default								
id	Sniffer ID (0 - 9999).	integer	Minimum value: 0 Maximum value: 9999	0								
uuid	Universally Unique Identifier (UUID; automatically assigned but can be manually reset).	uuid	Not Specified	00000000-0000-0000-0000-000000000000								
status	Enable/disable the active status of the sniffer.	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable sniffer status.</td></tr><tr><td><i>disable</i></td><td>Disable sniffer status.</td></tr></table>				Option	Description	<i>enable</i>	Enable sniffer status.	<i>disable</i>	Disable sniffer status.		
Option	Description											
<i>enable</i>	Enable sniffer status.											
<i>disable</i>	Disable sniffer status.											
logtraffic	Either log all sessions, only sessions that have a security profile applied, or disable all logging for this policy.	option	-	utm								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>all</i></td><td>Log all sessions accepted or denied by this policy.</td></tr><tr><td><i>utm</i></td><td>Log traffic that has a security profile applied to it.</td></tr><tr><td><i>disable</i></td><td>Disable all logging for this policy.</td></tr></table>				Option	Description	<i>all</i>	Log all sessions accepted or denied by this policy.	<i>utm</i>	Log traffic that has a security profile applied to it.	<i>disable</i>	Disable all logging for this policy.
Option	Description											
<i>all</i>	Log all sessions accepted or denied by this policy.											
<i>utm</i>	Log traffic that has a security profile applied to it.											
<i>disable</i>	Disable all logging for this policy.											
non-ip	Enable/disable sniffing non-IP packets.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable sniffer for non-IP packets.</td></tr><tr><td><i>disable</i></td><td>Disable sniffer for non-IP packets.</td></tr></table>				Option	Description	<i>enable</i>	Enable sniffer for non-IP packets.	<i>disable</i>	Disable sniffer for non-IP packets.		
Option	Description											
<i>enable</i>	Enable sniffer for non-IP packets.											
<i>disable</i>	Disable sniffer for non-IP packets.											
interface	Interface name that traffic sniffing will take place on.	string	Maximum length: 35									

Parameter	Description	Type	Size	Default
host	Hosts to filter for in sniffer traffic (Format examples: 1.1.1.1, 2.2.2.0/24, 3.3.3.3/255.255.255.0, 4.4.4.0-4.4.4.240).	string	Maximum length: 63	
port	Ports to sniff (Format examples: 10, :20, 30:40, 50-, 100-200).	string	Maximum length: 63	
protocol	Integer value for the protocol type as defined by IANA (0 - 255).	string	Maximum length: 63	
vlan	List of VLANs to sniff.	string	Maximum length: 63	

config firewall ssh host-key

SSH proxy host public keys.

```
config firewall ssh host-key
    Description: SSH proxy host public keys.
    edit <name>
        set status [trusted|revoked]
        set type [RSA|DSA|...]
        set nid [256|384|...]
        set usage [transparent-proxy|access-proxy]
        set ip {ipv4-address-any}
        set port {integer}
        set hostname {string}
        set public-key {var-string}
    next
end
```

config firewall ssh host-key

Parameter	Description	Type	Size	Default						
name	SSH public key name.	string	Maximum length: 35							
status	Set the trust status of the public key.	option	-	trusted						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>trusted</i></td><td>The public key is trusted.</td></tr><tr><td><i>revoked</i></td><td>The public key is revoked.</td></tr></table>				Option	Description	<i>trusted</i>	The public key is trusted.	<i>revoked</i>	The public key is revoked.
	Option	Description								
	<i>trusted</i>	The public key is trusted.								
<i>revoked</i>	The public key is revoked.									
type	Set the type of the public key.	option	-	RSA						

Parameter	Description	Type	Size	Default																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>RSA</i></td><td>The type of the public key is RSA.</td></tr><tr><td><i>DSA</i></td><td>The type of the public key is DSA.</td></tr><tr><td><i>ECDSA</i></td><td>The type of the public key is ECDSA.</td></tr><tr><td><i>ED25519</i></td><td>The type of the public key is ED25519.</td></tr><tr><td><i>RSA-CA</i></td><td>The type of the public key is from RSA CA.</td></tr><tr><td><i>DSA-CA</i></td><td>The type of the public key is from DSA CA.</td></tr><tr><td><i>ECDSA-CA</i></td><td>The type of the public key is from ECDSA CA.</td></tr><tr><td><i>ED25519-CA</i></td><td>The type of the public key is from ED25519 CA.</td></tr></table>	Option	Description	<i>RSA</i>	The type of the public key is RSA.	<i>DSA</i>	The type of the public key is DSA.	<i>ECDSA</i>	The type of the public key is ECDSA.	<i>ED25519</i>	The type of the public key is ED25519.	<i>RSA-CA</i>	The type of the public key is from RSA CA.	<i>DSA-CA</i>	The type of the public key is from DSA CA.	<i>ECDSA-CA</i>	The type of the public key is from ECDSA CA.	<i>ED25519-CA</i>	The type of the public key is from ED25519 CA.			
	Option	Description																				
	<i>RSA</i>	The type of the public key is RSA.																				
	<i>DSA</i>	The type of the public key is DSA.																				
	<i>ECDSA</i>	The type of the public key is ECDSA.																				
	<i>ED25519</i>	The type of the public key is ED25519.																				
	<i>RSA-CA</i>	The type of the public key is from RSA CA.																				
	<i>DSA-CA</i>	The type of the public key is from DSA CA.																				
	<i>ECDSA-CA</i>	The type of the public key is from ECDSA CA.																				
<i>ED25519-CA</i>	The type of the public key is from ED25519 CA.																					
nid	Set the nid of the ECDSA key.	option	-	256																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>256</i></td><td>The NID is ecdsa-sha2-nistp256.</td></tr><tr><td><i>384</i></td><td>The NID is ecdsa-sha2-nistp384.</td></tr><tr><td><i>521</i></td><td>The NID is ecdsa-sha2-nistp521.</td></tr></table>	Option	Description	<i>256</i>	The NID is ecdsa-sha2-nistp256.	<i>384</i>	The NID is ecdsa-sha2-nistp384.	<i>521</i>	The NID is ecdsa-sha2-nistp521.													
	Option	Description																				
	<i>256</i>	The NID is ecdsa-sha2-nistp256.																				
	<i>384</i>	The NID is ecdsa-sha2-nistp384.																				
<i>521</i>	The NID is ecdsa-sha2-nistp521.																					
usage	Usage for this public key.	option	-	transparent-proxy																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>transparent-proxy</i></td><td>Transparent proxy uses this public key to validate server.</td></tr><tr><td><i>access-proxy</i></td><td>Access proxy uses this public key to validate server.</td></tr></table>	Option	Description	<i>transparent-proxy</i>	Transparent proxy uses this public key to validate server.	<i>access-proxy</i>	Access proxy uses this public key to validate server.															
	Option	Description																				
	<i>transparent-proxy</i>	Transparent proxy uses this public key to validate server.																				
<i>access-proxy</i>	Access proxy uses this public key to validate server.																					
ip	IP address of the SSH server.	ipv4-address-any	Not Specified	0.0.0.0																		
port	Port of the SSH server.	integer	Minimum value: 0 Maximum value: 4294967295	22																		
hostname	Hostname of the SSH server to match SSH certificate principals.	string	Maximum length: 255																			
public-key	SSH public key.	var-string	Maximum length: 32768																			

config firewall ssh local-ca

SSH proxy local CA.

```
config firewall ssh local-ca
  Description: SSH proxy local CA.
  edit <name>
    set password {password}
    set private-key {user}
    set public-key {user}
    set source [built-in|user]
  next
end
```

config firewall ssh local-ca

Parameter	Description	Type	Size	Default
name	SSH proxy local CA name.	string	Maximum length: 35	
password	Password for SSH private key.	password	Not Specified	
private-key	SSH proxy private key, encrypted with a password.	user	Not Specified	
public-key	SSH proxy public key.	user	Not Specified	
source	SSH proxy local CA source type.	option	-	user
		Option	Description	
		<i>built-in</i>	Built-in SSH proxy local keys.	
		<i>user</i>	User imported SSH proxy local keys.	

config firewall ssh local-key

SSH proxy local keys.

```
config firewall ssh local-key
  Description: SSH proxy local keys.
  edit <name>
    set password {password}
    set private-key {user}
    set public-key {user}
    set source [built-in|user]
  next
end
```

config firewall ssh local-key

Parameter	Description	Type	Size	Default
name	SSH proxy local key name.	string	Maximum length: 35	
password	Password for SSH private key.	password	Not Specified	
private-key	SSH proxy private key, encrypted with a password.	user	Not Specified	
public-key	SSH proxy public key.	user	Not Specified	
source	SSH proxy local key source type.	option	-	user
		Option	Description	
		<i>built-in</i>	Built-in SSH proxy local keys.	
		<i>user</i>	User imported SSH proxy local keys.	

config firewall ssh setting

SSH proxy settings.

```
config firewall ssh setting
  Description: SSH proxy settings.
  set caname {string}
  set untrusted-caname {string}
  set hostkey-rsa2048 {string}
  set hostkey-dsa1024 {string}
  set hostkey-ecdsa256 {string}
  set hostkey-ecdsa384 {string}
  set hostkey-ecdsa521 {string}
  set hostkey-ed25519 {string}
  set host-trusted-checking [enable|disable]
end
```

config firewall ssh setting

Parameter	Description	Type	Size	Default
caname	CA certificate used by SSH Inspection.	string	Maximum length: 35	
untrusted-caname	Untrusted CA certificate used by SSH Inspection.	string	Maximum length: 35	

Parameter	Description	Type	Size	Default						
hostkey-rsa2048	RSA certificate used by SSH proxy.	string	Maximum length: 35							
hostkey-dsa1024	DSA certificate used by SSH proxy.	string	Maximum length: 35							
hostkey-ecdsa256	ECDSA nid256 certificate used by SSH proxy.	string	Maximum length: 35							
hostkey-ecdsa384	ECDSA nid384 certificate used by SSH proxy.	string	Maximum length: 35							
hostkey-ecdsa521	ECDSA nid384 certificate used by SSH proxy.	string	Maximum length: 35							
hostkey-ed25519	ED25519 hostkey used by SSH proxy.	string	Maximum length: 35							
host-trusted-checking	Enable/disable host trusted checking.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable host key trusted checking.</td></tr><tr><td><i>disable</i></td><td>Disable host key trusted checking.</td></tr></table>				Option	Description	<i>enable</i>	Enable host key trusted checking.	<i>disable</i>	Disable host key trusted checking.
Option	Description									
<i>enable</i>	Enable host key trusted checking.									
<i>disable</i>	Disable host key trusted checking.									

config firewall ssl default-certificate

SSL default certificate.

```
config firewall ssl default-certificate
    Description: SSL default certificate.
    set default-ca {string}
    set default-untrusted-ca {string}
    set default-server-cert {string}
end
```

config firewall ssl default-certificate

Parameter	Description	Type	Size	Default
default-ca	Default CA certificate used by SSL inspection.	string	Maximum length: 35	Fortinet_CA_SSL
default-untrusted-ca	Default CA certificate used by SSL inspection.	string	Maximum length: 35	Fortinet_CA_Untrusted
default-server-cert	Default server certificate used by SSL inspection.	string	Maximum length: 35	Fortinet_Factory

config firewall ssl keyring-list

SSL keyring list.

```
config firewall ssl keyring-list
    Description: SSL keyring list.
    edit <name>
        set uuid {uuid}
    next
end
```

config firewall ssl keyring-list

Parameter	Description	Type	Size	Default
name	Keyring list name.	string	Maximum length: 35	
uuid	Universally Unique Identifier (UUID; automatically assigned but can be manually reset).	uuid	Not Specified	00000000-0000-0000-0000-000000000000

config firewall ssl setting

SSL proxy settings.

```
config firewall ssl setting
    Description: SSL proxy settings.
    set proxy-connect-timeout {integer}
    set ssl-dh-bits [768|1024|...]
    set ssl-send-empty-frags [enable|disable]
    set no-matching-cipher-action [bypass|drop]
    set cert-manager-cache-timeout {integer}
    set resigned-short-lived-certificate [enable|disable]
    set cert-cache-capacity {integer}
    set cert-cache-timeout {integer}
    set session-cache-capacity {integer}
    set session-cache-timeout {integer}
    set abbreviate-handshake [enable|disable]
end
```

config firewall ssl setting

Parameter	Description	Type	Size	Default
proxy-connect-timeout	Time limit to make an internal connection to the appropriate proxy process (1 - 60 sec, default = 30).	integer	Minimum value: 1 Maximum value: 60	30

Parameter	Description	Type	Size	Default
ssl-dh-bits	Bit-size of Diffie-Hellman (DH) prime used in DHE-RSA negotiation (default = 2048).	option	-	2048
	Option	Description		
	768	768-bit Diffie-Hellman prime.		
	1024	1024-bit Diffie-Hellman prime.		
	1536	1536-bit Diffie-Hellman prime.		
	2048	2048-bit Diffie-Hellman prime.		
ssl-send-empty-frags	Enable/disable sending empty fragments to avoid attack on CBC IV (for SSL 3.0 and TLS 1.0 only).	option	-	enable
	Option	Description		
	enable	Send empty fragments.		
	disable	Do not send empty fragments.		
no-matching-cipher-action	Bypass or drop the connection when no matching cipher is found.	option	-	bypass
	Option	Description		
	bypass	Bypass connection.		
	drop	Drop connection.		
cert-manager-cache-timeout	Time limit for cert manager to keep FortiGate re-signed server certificate (24 - 720 hours, default = 72).	integer	Minimum value: 24 Maximum value: 720	72
resigned-short-lived-certificate	Enable/disable short lived certificate.	option	-	enable
	Option	Description		
	enable	Disable short-lived certificate: resigned certificate will have the same validation period as the origin server certificate.		
	disable	Enable short-lived certificate: resigned certificate will remain valid untill either the origin server certificate expires or cache timeouts.		
cert-cache-capacity	Maximum capacity of the host certificate cache (0 - 500, default = 200).	integer	Minimum value: 0 Maximum value: 500	200

Parameter	Description	Type	Size	Default
cert-cache-timeout	Time limit to keep certificate cache (1 - 120 min, default = 10).	integer	Minimum value: 1 Maximum value: 120	10
session-cache-capacity	Capacity of the SSL session cache (--Obsolete--) (1 - 1000, default = 500).	integer	Minimum value: 0 Maximum value: 1000	500
session-cache-timeout	Time limit to keep SSL session state (1 - 60 min, default = 20).	integer	Minimum value: 1 Maximum value: 60	20
abbreviate-handshake	Enable/disable use of SSL abbreviated handshake.	option	-	enable

Option	Description
<i>enable</i>	Enable use of SSL abbreviated handshake.
<i>disable</i>	Disable use of SSL abbreviated handshake.

config firewall ssl-server

Configure SSL servers.

```
config firewall ssl-server
    Description: Configure SSL servers.
    edit <name>
        set ip {ipv4-address-any}
        set port {integer}
        set ssl-mode [half|full]
        set add-header-x-forwarded-proto [enable|disable]
        set mapped-port {integer}
        set ssl-cert <name1>, <name2>, ...
        set ssl-dh-bits [768|1024|...]
        set ssl-algorithm [high|medium|...]
        set ssl-client-renegotiation [allow|deny|...]
        set ssl-min-version [tls-1.0|tls-1.1|...]
        set ssl-max-version [tls-1.0|tls-1.1|...]
        set ssl-send-empty-frags [enable|disable]
        set url-rewrite [enable|disable]
    next
end
```

config firewall ssl-server

Parameter	Description	Type	Size	Default
name	Server name.	string	Maximum length: 35	
ip	IPv4 address of the SSL server.	ipv4-address-any	Not Specified	0.0.0.0
port	Server service port (1 - 65535, default = 443).	integer	Minimum value: 1 Maximum value: 65535	443
ssl-mode	SSL/TLS mode for encryption and decryption of traffic.	option	-	full
	Option	Description		
	<i>half</i>	Client to FortiProxy SSL.		
	<i>full</i>	Client to FortiProxy and FortiProxy to Server SSL.		
add-header-x-forwarded-proto	Enable/disable adding an X-Forwarded-Proto header to forwarded requests.	option	-	enable
	Option	Description		
	<i>enable</i>	Add X-Forwarded-Proto header.		
	<i>disable</i>	Do not add X-Forwarded-Proto header.		
mapped-port	Mapped server service port (1 - 65535, default = 80).	integer	Minimum value: 1 Maximum value: 65535	80
ssl-cert <name>	List of certificate names to use for SSL connections to this server. (default = "Fortinet_SSL"). Certificate list.	string	Maximum length: 79	
ssl-dh-bits	Bit-size of Diffie-Hellman (DH) prime used in DHE-RSA negotiation (default = 2048).	option	-	2048
	Option	Description		
	<i>768</i>	768-bit Diffie-Hellman prime.		
	<i>1024</i>	1024-bit Diffie-Hellman prime.		

Parameter	Description	Type	Size	Default										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>1536</td><td>1536-bit Diffie-Hellman prime.</td></tr><tr><td>2048</td><td>2048-bit Diffie-Hellman prime.</td></tr></table>	Option	Description	1536	1536-bit Diffie-Hellman prime.	2048	2048-bit Diffie-Hellman prime.							
	Option	Description												
	1536	1536-bit Diffie-Hellman prime.												
2048	2048-bit Diffie-Hellman prime.													
ssl-algorithm	Relative strength of encryption algorithms accepted in negotiation.	option	-	high										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>high</td><td>High encryption. Allow only AES and ChaCha</td></tr><tr><td>medium</td><td>Medium encryption. Allow AES, ChaCha, 3DES, and RC4.</td></tr><tr><td>low</td><td>Low encryption. Allow AES, ChaCha, 3DES, RC4, and DES.</td></tr></table>	Option	Description	high	High encryption. Allow only AES and ChaCha	medium	Medium encryption. Allow AES, ChaCha, 3DES, and RC4.	low	Low encryption. Allow AES, ChaCha, 3DES, RC4, and DES.					
	Option	Description												
	high	High encryption. Allow only AES and ChaCha												
	medium	Medium encryption. Allow AES, ChaCha, 3DES, and RC4.												
low	Low encryption. Allow AES, ChaCha, 3DES, RC4, and DES.													
ssl-client-renegotiation	Allow or block client renegotiation by server.	option	-	allow										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>allow</td><td>Allow a SSL client to renegotiate.</td></tr><tr><td>deny</td><td>Abort any SSL connection that attempts to renegotiate.</td></tr><tr><td>secure</td><td>Reject any SSL connection that does not offer a RFC 5746 Secure Renegotiation Indication.</td></tr></table>	Option	Description	allow	Allow a SSL client to renegotiate.	deny	Abort any SSL connection that attempts to renegotiate.	secure	Reject any SSL connection that does not offer a RFC 5746 Secure Renegotiation Indication.					
	Option	Description												
	allow	Allow a SSL client to renegotiate.												
	deny	Abort any SSL connection that attempts to renegotiate.												
secure	Reject any SSL connection that does not offer a RFC 5746 Secure Renegotiation Indication.													
ssl-min-version	Lowest SSL/TLS version to negotiate.	option	-	tls-1.1										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>tls-1.0</td><td>TLS 1.0.</td></tr><tr><td>tls-1.1</td><td>TLS 1.1.</td></tr><tr><td>tls-1.2</td><td>TLS 1.2.</td></tr><tr><td>tls-1.3</td><td>TLS 1.3.</td></tr></table>	Option	Description	tls-1.0	TLS 1.0.	tls-1.1	TLS 1.1.	tls-1.2	TLS 1.2.	tls-1.3	TLS 1.3.			
	Option	Description												
	tls-1.0	TLS 1.0.												
	tls-1.1	TLS 1.1.												
	tls-1.2	TLS 1.2.												
tls-1.3	TLS 1.3.													
ssl-max-version	Highest SSL/TLS version to negotiate.	option	-	tls-1.3										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>tls-1.0</td><td>TLS 1.0.</td></tr><tr><td>tls-1.1</td><td>TLS 1.1.</td></tr><tr><td>tls-1.2</td><td>TLS 1.2.</td></tr><tr><td>tls-1.3</td><td>TLS 1.3.</td></tr></table>	Option	Description	tls-1.0	TLS 1.0.	tls-1.1	TLS 1.1.	tls-1.2	TLS 1.2.	tls-1.3	TLS 1.3.			
	Option	Description												
	tls-1.0	TLS 1.0.												
	tls-1.1	TLS 1.1.												
	tls-1.2	TLS 1.2.												
tls-1.3	TLS 1.3.													

Parameter	Description	Type	Size	Default
ssl-send-empty-frags	Enable/disable sending empty fragments to avoid attack on CBC IV.	option	-	enable
	Option	Description		
	<i>enable</i>	Send empty fragments.		
	<i>disable</i>	Do not send empty fragments.		
url-rewrite	Enable/disable rewriting the URL.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		

config firewall ssl-ssh-profile

Configure SSL/SSH protocol options.

```
config firewall ssl-ssh-profile
  Description: Configure SSL/SSH protocol options.
  edit <name>
    set comment {var-string}
    config ssl
      Description: Configure SSL options.
      set inspect-all [disable|certificate-inspection|...]
      set client-certificate [bypass|inspect|...]
      set unsupported-ssl-version [allow|block]
      set unsupported-ssl-cipher [allow|block]
      set unsupported-ssl-negotiation [allow|block]
      set expired-server-cert [allow|block|...]
      set revoked-server-cert [allow|block|...]
      set untrusted-server-cert [allow|block|...]
      set cert-validation-timeout [allow|block|...]
      set cert-validation-failure [allow|block|...]
      set sni-server-cert-check [enable|strict|...]
      set cert-probe-failure [allow|block]
      set encrypted-client-hello [allow|block]
      set min-allowed-ssl-version [ssl-3.0|tls-1.0|...]
    end
    config https
      Description: Configure HTTPS options.
      set ports {integer}
      set status [disable|certificate-inspection|...]
      set quic [inspect|bypass|...]
      set proxy-after-tcp-handshake [enable|disable]
      set client-certificate [bypass|inspect|...]
      set unsupported-ssl-version [allow|block]
      set unsupported-ssl-cipher [allow|block]
      set unsupported-ssl-negotiation [allow|block]
```

```

    set expired-server-cert [allow|block|...]
    set revoked-server-cert [allow|block|...]
    set untrusted-server-cert [allow|block|...]
    set cert-validation-timeout [allow|block|...]
    set cert-validation-failure [allow|block|...]
    set sni-server-cert-check [enable|strict|...]
    set cert-probe-failure [allow|block]
    set encrypted-client-hello [allow|block]
    set min-allowed-ssl-version [ssl-3.0|tls-1.0|...]
end
config ftps
    Description: Configure FTPS options.
    set ports {integer}
    set status [disable|deep-inspection]
    set client-certificate [bypass|inspect|...]
    set unsupported-ssl-version [allow|block]
    set unsupported-ssl-cipher [allow|block]
    set unsupported-ssl-negotiation [allow|block]
    set expired-server-cert [allow|block|...]
    set revoked-server-cert [allow|block|...]
    set untrusted-server-cert [allow|block|...]
    set cert-validation-timeout [allow|block|...]
    set cert-validation-failure [allow|block|...]
    set sni-server-cert-check [enable|strict|...]
    set min-allowed-ssl-version [ssl-3.0|tls-1.0|...]
end
config imaps
    Description: Configure IMAPS options.
    set ports {integer}
    set status [disable|deep-inspection]
    set proxy-after-tcp-handshake [enable|disable]
    set client-certificate [bypass|inspect|...]
    set unsupported-ssl-version [allow|block]
    set unsupported-ssl-cipher [allow|block]
    set unsupported-ssl-negotiation [allow|block]
    set expired-server-cert [allow|block|...]
    set revoked-server-cert [allow|block|...]
    set untrusted-server-cert [allow|block|...]
    set cert-validation-timeout [allow|block|...]
    set cert-validation-failure [allow|block|...]
    set sni-server-cert-check [enable|strict|...]
end
config pop3s
    Description: Configure POP3S options.
    set ports {integer}
    set status [disable|deep-inspection]
    set proxy-after-tcp-handshake [enable|disable]
    set client-certificate [bypass|inspect|...]
    set unsupported-ssl-version [allow|block]
    set unsupported-ssl-cipher [allow|block]
    set unsupported-ssl-negotiation [allow|block]
    set expired-server-cert [allow|block|...]
    set revoked-server-cert [allow|block|...]
    set untrusted-server-cert [allow|block|...]
    set cert-validation-timeout [allow|block|...]
    set cert-validation-failure [allow|block|...]

```



```

        set sni-server-cert-check [enable|strict|...]
    end
    config smtps
        Description: Configure SMTPS options.
        set ports {integer}
        set status [disable|deep-inspection]
        set proxy-after-tcp-handshake [enable|disable]
        set client-certificate [bypass|inspect|...]
        set unsupported-ssl-version [allow|block]
        set unsupported-ssl-cipher [allow|block]
        set unsupported-ssl-negotiation [allow|block]
        set expired-server-cert [allow|block|...]
        set revoked-server-cert [allow|block|...]
        set untrusted-server-cert [allow|block|...]
        set cert-validation-timeout [allow|block|...]
        set cert-validation-failure [allow|block|...]
        set sni-server-cert-check [enable|strict|...]
    end
    config ssh
        Description: Configure SSH options.
        set ports {integer}
        set status [disable|deep-inspection]
        set inspect-all [disable|deep-inspection]
        set proxy-after-tcp-handshake [enable|disable]
        set unsupported-version [bypass|block]
        set ssh-tun-policy-check [disable|enable]
        set ssh-algorithm [compatible|high-encryption]
    end
    config dot
        Description: Configure DNS over TLS options.
        set status [disable|deep-inspection]
        set quic [inspect|bypass|...]
        set proxy-after-tcp-handshake [enable|disable]
        set client-certificate [bypass|inspect|...]
        set unsupported-ssl-version [allow|block]
        set unsupported-ssl-cipher [allow|block]
        set unsupported-ssl-negotiation [allow|block]
        set expired-server-cert [allow|block|...]
        set revoked-server-cert [allow|block|...]
        set untrusted-server-cert [allow|block|...]
        set cert-validation-timeout [allow|block|...]
        set cert-validation-failure [allow|block|...]
        set sni-server-cert-check [enable|strict|...]
    end
    config ssl-client-certificate
        Description: Configure SSL client certificate setting.
        set status [do-not-offer|keyring-list|...]
        set keyring-list {string}
        set caname {string}
        set cert {string}
    end
    config ssl-exempt
        Description: Servers to exempt from SSL inspection.
        edit <id>
            set type [fortiguard-category|address|...]
            set fortiguard-category {integer}

```

```

        set address {string}
        set address6 {string}
        set wildcard-fqdn {string}
        set regex {string}
        set finger-print-category [unknown|firefox|...]
    next
end
config ech-outer-sni
    Description: ClientHelloOuter SNIs to be blocked.
    edit <name>
        set sni {string}
    next
end
set allowlist [enable|disable]
set block-blocklisted-certificates [disable|enable]
set server-cert-mode [re-sign|replace]
set use-ssl-server [disable|enable]
set caname {string}
set untrusted-caname {string}
set server-cert <name1>, <name2>, ...
config ssl-server
    Description: SSL server settings used for client certificate request.
    edit <id>
        set ip {ipv4-address-any}
        set https-client-certificate [bypass|inspect|...]
        set smtps-client-certificate [bypass|inspect|...]
        set pop3s-client-certificate [bypass|inspect|...]
        set imaps-client-certificate [bypass|inspect|...]
        set ftps-client-certificate [bypass|inspect|...]
        set ssl-other-client-certificate [bypass|inspect|...]
    next
end
set ssl-exemption-ip-rating [enable|disable]
set ssl-exemption-log [disable|enable]
set ssl-anomaly-log [disable|enable]
set ssl-negotiation-log [disable|enable]
set ssl-server-cert-log [disable|enable]
set ssl-handshake-log [disable|enable]
set rpc-over-https [enable|disable]
set mapi-over-https [enable|disable]
set supported-alpn [http1-1|http2|...]
next
end

```

config firewall ssl-ssh-profile

Parameter	Description	Type	Size	Default
name	Name.	string	Maximum length: 35	
comment	Optional comments.	var-string	Maximum length: 255	

Parameter	Description	Type	Size	Default						
allowlist	Enable/disable exempting servers by FortiGuard allowlist.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									
block-blocklisted-certificates	Enable/disable blocking SSL-based botnet communication by FortiGuard certificate blocklist.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable FortiGuard certificate blocklist.</td></tr><tr><td><i>enable</i></td><td>Enable FortiGuard certificate blocklist.</td></tr></table>	Option	Description	<i>disable</i>	Disable FortiGuard certificate blocklist.	<i>enable</i>	Enable FortiGuard certificate blocklist.			
Option	Description									
<i>disable</i>	Disable FortiGuard certificate blocklist.									
<i>enable</i>	Enable FortiGuard certificate blocklist.									
server-cert-mode	Re-sign or replace the server's certificate.	option	-	re-sign						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>re-sign</i></td><td>Multiple clients connecting to multiple servers.</td></tr><tr><td><i>replace</i></td><td>Protect an SSL server.</td></tr></table>	Option	Description	<i>re-sign</i>	Multiple clients connecting to multiple servers.	<i>replace</i>	Protect an SSL server.			
Option	Description									
<i>re-sign</i>	Multiple clients connecting to multiple servers.									
<i>replace</i>	Protect an SSL server.									
use-ssl-server	Enable/disable the use of SSL server table for SSL offloading.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Don't use SSL server configuration.</td></tr><tr><td><i>enable</i></td><td>Use SSL server configuration.</td></tr></table>	Option	Description	<i>disable</i>	Don't use SSL server configuration.	<i>enable</i>	Use SSL server configuration.			
Option	Description									
<i>disable</i>	Don't use SSL server configuration.									
<i>enable</i>	Use SSL server configuration.									
caname	CA certificate used by SSL Inspection.	string	Maximum length: 35	default-ca						
untrusted-caname	Untrusted CA certificate used by SSL Inspection.	string	Maximum length: 35	default-untrusted-ca						
server-cert <name>	Certificate used by SSL Inspection to replace server certificate. Certificate list.	string	Maximum length: 79							
ssl-exemption-ip-rating	Enable/disable IP based URL rating.	option	-	enable						

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable IP based URL rating.		
	<i>disable</i>	Disable IP based URL rating.		
ssl-exemption-log	Enable/disable logging of SSL exemptions.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable logging of SSL exemptions.		
	<i>enable</i>	Enable logging of SSL exemptions.		
ssl-anomaly-log	Enable/disable logging of SSL anomalies.	option	-	enable
	Option	Description		
	<i>disable</i>	Disable logging of SSL anomalies.		
	<i>enable</i>	Enable logging of SSL anomalies.		
ssl-negotiation-log	Enable/disable logging of SSL negotiation events.	option	-	enable
	Option	Description		
	<i>disable</i>	Disable logging of SSL negotiation events.		
	<i>enable</i>	Enable logging of SSL negotiation events.		
ssl-server-cert-log	Enable/disable logging of server certificate information.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable logging of server certificate information.		
	<i>enable</i>	Enable logging of server certificate information.		
ssl-handshake-log	Enable/disable logging of TLS handshakes.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable logging of TLS handshakes.		
	<i>enable</i>	Enable logging of TLS handshakes.		

Parameter	Description	Type	Size	Default										
rpc-over-https	Enable/disable inspection of RPC over HTTPS.	option	-	disable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable inspection of RPC over HTTPS.</td></tr><tr><td><i>disable</i></td><td>Disable inspection of RPC over HTTPS.</td></tr></table>	Option	Description	<i>enable</i>	Enable inspection of RPC over HTTPS.	<i>disable</i>	Disable inspection of RPC over HTTPS.							
Option	Description													
<i>enable</i>	Enable inspection of RPC over HTTPS.													
<i>disable</i>	Disable inspection of RPC over HTTPS.													
mapi-over-https	Enable/disable inspection of MAPI over HTTPS.	option	-	disable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable inspection of MAPI over HTTPS.</td></tr><tr><td><i>disable</i></td><td>Disable inspection of MAPI over HTTPS.</td></tr></table>	Option	Description	<i>enable</i>	Enable inspection of MAPI over HTTPS.	<i>disable</i>	Disable inspection of MAPI over HTTPS.							
Option	Description													
<i>enable</i>	Enable inspection of MAPI over HTTPS.													
<i>disable</i>	Disable inspection of MAPI over HTTPS.													
supported-alpn	Configure ALPN option.	option	-	all										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>http1-1</i></td><td>Enable all ALPN including HTTP1.1 except HTTP2 and SPDY.</td></tr><tr><td><i>http2</i></td><td>Enable all ALPN including HTTP2 except HTTP1.1 and SPDY.</td></tr><tr><td><i>all</i></td><td>Allow all ALPN extensions except SPDY.</td></tr><tr><td><i>none</i></td><td>Do not use ALPN.</td></tr></table>	Option	Description	<i>http1-1</i>	Enable all ALPN including HTTP1.1 except HTTP2 and SPDY.	<i>http2</i>	Enable all ALPN including HTTP2 except HTTP1.1 and SPDY.	<i>all</i>	Allow all ALPN extensions except SPDY.	<i>none</i>	Do not use ALPN.			
Option	Description													
<i>http1-1</i>	Enable all ALPN including HTTP1.1 except HTTP2 and SPDY.													
<i>http2</i>	Enable all ALPN including HTTP2 except HTTP1.1 and SPDY.													
<i>all</i>	Allow all ALPN extensions except SPDY.													
<i>none</i>	Do not use ALPN.													

config ssl

Parameter	Description	Type	Size	Default								
inspect-all	Level of SSL inspection.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable.</td></tr><tr><td><i>certificate-inspection</i></td><td>Inspect SSL handshake only.</td></tr><tr><td><i>deep-inspection</i></td><td>Full SSL inspection.</td></tr></table>	Option	Description	<i>disable</i>	Disable.	<i>certificate-inspection</i>	Inspect SSL handshake only.	<i>deep-inspection</i>	Full SSL inspection.			
Option	Description											
<i>disable</i>	Disable.											
<i>certificate-inspection</i>	Inspect SSL handshake only.											
<i>deep-inspection</i>	Full SSL inspection.											
client-certificate	Action based on received client certificate.	option	-	bypass								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>bypass</i></td><td>Bypass the session.</td></tr><tr><td><i>inspect</i></td><td>Inspect the session.</td></tr></table>	Option	Description	<i>bypass</i>	Bypass the session.	<i>inspect</i>	Inspect the session.					
Option	Description											
<i>bypass</i>	Bypass the session.											
<i>inspect</i>	Inspect the session.											

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>block</i>	Block the session.		
	<i>bypass-on-cert-req</i>	Bypass on certificate request.		
unsupported-ssl-version	Action based on the SSL version used being unsupported.	option	-	block
	Option	Description		
	<i>allow</i>	Bypass the session when the version is not supported.		
	<i>block</i>	Block the session when the version is not supported.		
unsupported-ssl-cipher	Action based on the SSL cipher used being unsupported.	option	-	allow
	Option	Description		
	<i>allow</i>	Bypass the session when the cipher is not supported.		
	<i>block</i>	Block the session when the cipher is not supported.		
unsupported-ssl-negotiation	Action based on the SSL negotiation used being unsupported.	option	-	allow
	Option	Description		
	<i>allow</i>	Bypass the session when the negotiation is not supported.		
	<i>block</i>	Block the session when the negotiation is not supported.		
expired-server-cert	Action based on server certificate is expired.	option	-	block
	Option	Description		
	<i>allow</i>	Allow the server certificate.		
	<i>block</i>	Block the session.		
	<i>ignore</i>	Re-sign the server certificate as trusted.		
revoked-server-cert	Action based on server certificate is revoked.	option	-	block
	Option	Description		
	<i>allow</i>	Allow the server certificate.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>block</i>	Block the session.		
	<i>ignore</i>	Re-sign the server certificate as trusted.		
untrusted-server-cert	Action based on server certificate is not issued by a trusted CA.	option	-	allow
	Option	Description		
	<i>allow</i>	Allow the server certificate.		
	<i>block</i>	Block the session.		
	<i>ignore</i>	Re-sign the server certificate as trusted.		
cert-validation-timeout	Action based on certificate validation timeout.	option	-	allow
	Option	Description		
	<i>allow</i>	Allow the server certificate.		
	<i>block</i>	Block the session.		
	<i>ignore</i>	Re-sign the server certificate as trusted.		
cert-validation-failure	Action based on certificate validation failure.	option	-	block
	Option	Description		
	<i>allow</i>	Allow the server certificate.		
	<i>block</i>	Block the session.		
	<i>ignore</i>	Re-sign the server certificate as trusted.		
sni-server-cert-check	Check the SNI in the client hello message with the CN or SAN fields in the returned server certificate.	option	-	enable
	Option	Description		
	<i>enable</i>	Check the SNI in the client hello message with the CN or SAN fields in the returned server certificate. If mismatched, use the CN in the server certificate to do URL filtering.		
	<i>strict</i>	Check the SNI in the client hello message with the CN or SAN fields in the returned server certificate. If mismatched, close the connection.		
	<i>disable</i>	Do not check the SNI in the client hello message with the CN or SAN fields in the returned server certificate.		

Parameter	Description	Type	Size	Default												
cert-probe-failure	Action based on certificate probe failure.	option	-	block												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>allow</i></td><td>Bypass the session when unable to retrieve server's certificate for inspection.</td></tr><tr><td><i>block</i></td><td>Block the session when unable to retrieve server's certificate for inspection.</td></tr></table>	Option	Description	<i>allow</i>	Bypass the session when unable to retrieve server's certificate for inspection.	<i>block</i>	Block the session when unable to retrieve server's certificate for inspection.									
Option	Description															
<i>allow</i>	Bypass the session when unable to retrieve server's certificate for inspection.															
<i>block</i>	Block the session when unable to retrieve server's certificate for inspection.															
encrypted-client-hello	Block/allow session based on existence of encrypted-client-hello.	option	-	block												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>allow</i></td><td>Pass the session when encrypted-client-hello exists.</td></tr><tr><td><i>block</i></td><td>Block the session when encrypted-client-hello exists.</td></tr></table>	Option	Description	<i>allow</i>	Pass the session when encrypted-client-hello exists.	<i>block</i>	Block the session when encrypted-client-hello exists.									
Option	Description															
<i>allow</i>	Pass the session when encrypted-client-hello exists.															
<i>block</i>	Block the session when encrypted-client-hello exists.															
min-allowed-ssl-version	Minimum SSL version to be allowed.	option	-	tls-1.1												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>ssl-3.0</i></td><td>SSL 3.0.</td></tr><tr><td><i>tls-1.0</i></td><td>TLS 1.0.</td></tr><tr><td><i>tls-1.1</i></td><td>TLS 1.1.</td></tr><tr><td><i>tls-1.2</i></td><td>TLS 1.2.</td></tr><tr><td><i>tls-1.3</i></td><td>TLS 1.3.</td></tr></table>	Option	Description	<i>ssl-3.0</i>	SSL 3.0.	<i>tls-1.0</i>	TLS 1.0.	<i>tls-1.1</i>	TLS 1.1.	<i>tls-1.2</i>	TLS 1.2.	<i>tls-1.3</i>	TLS 1.3.			
Option	Description															
<i>ssl-3.0</i>	SSL 3.0.															
<i>tls-1.0</i>	TLS 1.0.															
<i>tls-1.1</i>	TLS 1.1.															
<i>tls-1.2</i>	TLS 1.2.															
<i>tls-1.3</i>	TLS 1.3.															

config https

Parameter	Description	Type	Size	Default				
ports	Ports to use for scanning (1 - 65535, default = 443).	integer	Minimum value: 1 Maximum value: 65535					
status	Configure protocol inspection status.	option	-	deep-inspection				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable.</td></tr></table>				Option	Description	<i>disable</i>	Disable.
Option	Description							
<i>disable</i>	Disable.							

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>certificate-inspection</i>	Inspect SSL handshake only.		
	<i>deep-inspection</i>	Full SSL inspection.		
quic	QUIC inspection status (default = inspect).	option	-	inspect
	Option	Description		
	<i>inspect</i>	Inspect QUIC traffic.		
	<i>bypass</i>	Bypass QUIC traffic.		
	<i>block</i>	Block QUIC traffic.		
proxy-after-tcp-handshake	Proxy traffic after the TCP 3-way handshake has been established (not before).	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
client-certificate	Action based on received client certificate.	option	-	bypass
	Option	Description		
	<i>bypass</i>	Bypass the session.		
	<i>inspect</i>	Inspect the session.		
	<i>block</i>	Block the session.		
	<i>bypass-on-cert-req</i>	Bypass on certificate request.		
unsupported-ssl-version	Action based on the SSL version used being unsupported.	option	-	block
	Option	Description		
	<i>allow</i>	Bypass the session when the version is not supported.		
	<i>block</i>	Block the session when the version is not supported.		
unsupported-ssl-cipher	Action based on the SSL cipher used being unsupported.	option	-	allow

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>allow</i>	Bypass the session when the cipher is not supported.		
	<i>block</i>	Block the session when the cipher is not supported.		
unsupported-ssl-negotiation	Action based on the SSL negotiation used being unsupported.	option	-	allow
	Option	Description		
	<i>allow</i>	Bypass the session when the negotiation is not supported.		
	<i>block</i>	Block the session when the negotiation is not supported.		
expired-server-cert	Action based on server certificate is expired.	option	-	block
	Option	Description		
	<i>allow</i>	Allow the server certificate.		
	<i>block</i>	Block the session.		
	<i>ignore</i>	Re-sign the server certificate as trusted.		
revoked-server-cert	Action based on server certificate is revoked.	option	-	block
	Option	Description		
	<i>allow</i>	Allow the server certificate.		
	<i>block</i>	Block the session.		
	<i>ignore</i>	Re-sign the server certificate as trusted.		
untrusted-server-cert	Action based on server certificate is not issued by a trusted CA.	option	-	allow
	Option	Description		
	<i>allow</i>	Allow the server certificate.		
	<i>block</i>	Block the session.		
	<i>ignore</i>	Re-sign the server certificate as trusted.		
cert-validation-timeout	Action based on certificate validation timeout.	option	-	allow

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>allow</i>	Allow the server certificate.		
	<i>block</i>	Block the session.		
	<i>ignore</i>	Re-sign the server certificate as trusted.		
cert-validation-failure	Action based on certificate validation failure.	option	-	block
	Option	Description		
	<i>allow</i>	Allow the server certificate.		
	<i>block</i>	Block the session.		
	<i>ignore</i>	Re-sign the server certificate as trusted.		
sni-server-cert-check	Check the SNI in the client hello message with the CN or SAN fields in the returned server certificate.	option	-	enable
	Option	Description		
	<i>enable</i>	Check the SNI in the client hello message with the CN or SAN fields in the returned server certificate. If mismatched, use the CN in the server certificate to do URL filtering.		
	<i>strict</i>	Check the SNI in the client hello message with the CN or SAN fields in the returned server certificate. If mismatched, close the connection.		
	<i>disable</i>	Do not check the SNI in the client hello message with the CN or SAN fields in the returned server certificate.		
cert-probe-failure	Action based on certificate probe failure.	option	-	block
	Option	Description		
	<i>allow</i>	Bypass the session when unable to retrieve server's certificate for inspection.		
	<i>block</i>	Block the session when unable to retrieve server's certificate for inspection.		
encrypted-client-hello	Block/allow session based on existence of encrypted-client-hello.	option	-	block
	Option	Description		
	<i>allow</i>	Pass the session when encrypted-client-hello exists.		
	<i>block</i>	Block the session when encrypted-client-hello exists.		

Parameter	Description	Type	Size	Default
min-allowed-ssl-version	Minimum SSL version to be allowed.	option	-	tls-1.1
	Option	Description		
	<i>ssl-3.0</i>	SSL 3.0.		
	<i>tls-1.0</i>	TLS 1.0.		
	<i>tls-1.1</i>	TLS 1.1.		
	<i>tls-1.2</i>	TLS 1.2.		
	<i>tls-1.3</i>	TLS 1.3.		

config ftps

Parameter	Description	Type	Size	Default
ports	Ports to use for scanning (1 - 65535, default = 443).	integer	Minimum value: 1 Maximum value: 65535	
status	Configure protocol inspection status.	option	-	deep-inspection
	Option	Description		
	<i>disable</i>	Disable.		
	<i>deep-inspection</i>	Full SSL inspection.		
client-certificate	Action based on received client certificate.	option	-	bypass
	Option	Description		
	<i>bypass</i>	Bypass the session.		
	<i>inspect</i>	Inspect the session.		
	<i>block</i>	Block the session.		
	<i>bypass-on-cert-req</i>	Bypass on certificate request.		
unsupported-ssl-version	Action based on the SSL version used being unsupported.	option	-	block

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>allow</i>	Bypass the session when the version is not supported.		
	<i>block</i>	Block the session when the version is not supported.		
unsupported-ssl-cipher	Action based on the SSL cipher used being unsupported.	option	-	allow
	Option	Description		
	<i>allow</i>	Bypass the session when the cipher is not supported.		
	<i>block</i>	Block the session when the cipher is not supported.		
unsupported-ssl-negotiation	Action based on the SSL negotiation used being unsupported.	option	-	allow
	Option	Description		
	<i>allow</i>	Bypass the session when the negotiation is not supported.		
	<i>block</i>	Block the session when the negotiation is not supported.		
expired-server-cert	Action based on server certificate is expired.	option	-	block
	Option	Description		
	<i>allow</i>	Allow the server certificate.		
	<i>block</i>	Block the session.		
	<i>ignore</i>	Re-sign the server certificate as trusted.		
revoked-server-cert	Action based on server certificate is revoked.	option	-	block
	Option	Description		
	<i>allow</i>	Allow the server certificate.		
	<i>block</i>	Block the session.		
	<i>ignore</i>	Re-sign the server certificate as trusted.		
untrusted-server-cert	Action based on server certificate is not issued by a trusted CA.	option	-	allow
	Option	Description		
	<i>allow</i>	Allow the server certificate.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>block</i>	Block the session.		
	<i>ignore</i>	Re-sign the server certificate as trusted.		
cert-validation-timeout	Action based on certificate validation timeout.	option	-	allow
	Option	Description		
	<i>allow</i>	Allow the server certificate.		
	<i>block</i>	Block the session.		
	<i>ignore</i>	Re-sign the server certificate as trusted.		
cert-validation-failure	Action based on certificate validation failure.	option	-	block
	Option	Description		
	<i>allow</i>	Allow the server certificate.		
	<i>block</i>	Block the session.		
	<i>ignore</i>	Re-sign the server certificate as trusted.		
sni-server-cert-check	Check the SNI in the client hello message with the CN or SAN fields in the returned server certificate.	option	-	enable
	Option	Description		
	<i>enable</i>	Check the SNI in the client hello message with the CN or SAN fields in the returned server certificate. If mismatched, use the CN in the server certificate to do URL filtering.		
	<i>strict</i>	Check the SNI in the client hello message with the CN or SAN fields in the returned server certificate. If mismatched, close the connection.		
	<i>disable</i>	Do not check the SNI in the client hello message with the CN or SAN fields in the returned server certificate.		
min-allowed-ssl-version	Minimum SSL version to be allowed.	option	-	tls-1.1
	Option	Description		
	<i>ssl-3.0</i>	SSL 3.0.		
	<i>tls-1.0</i>	TLS 1.0.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>tls-1.1</i>	TLS 1.1.		
	<i>tls-1.2</i>	TLS 1.2.		
	<i>tls-1.3</i>	TLS 1.3.		

config imaps

Parameter	Description	Type	Size	Default
ports	Ports to use for scanning (1 - 65535, default = 443).	integer	Minimum value: 1 Maximum value: 65535	
status	Configure protocol inspection status.	option	-	deep-inspection
	Option	Description		
	<i>disable</i>	Disable.		
	<i>deep-inspection</i>	Full SSL inspection.		
proxy-after-tcp-handshake	Proxy traffic after the TCP 3-way handshake has been established (not before).	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
client-certificate	Action based on received client certificate.	option	-	inspect
	Option	Description		
	<i>bypass</i>	Bypass the session.		
	<i>inspect</i>	Inspect the session.		
	<i>block</i>	Block the session.		
	<i>bypass-on-cert-req</i>	Bypass on certificate request.		
unsupported-ssl-version	Action based on the SSL version used being unsupported.	option	-	block

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>allow</i>	Bypass the session when the version is not supported.		
	<i>block</i>	Block the session when the version is not supported.		
unsupported-ssl-cipher	Action based on the SSL cipher used being unsupported.	option	-	allow
	Option	Description		
	<i>allow</i>	Bypass the session when the cipher is not supported.		
	<i>block</i>	Block the session when the cipher is not supported.		
unsupported-ssl-negotiation	Action based on the SSL negotiation used being unsupported.	option	-	allow
	Option	Description		
	<i>allow</i>	Bypass the session when the negotiation is not supported.		
	<i>block</i>	Block the session when the negotiation is not supported.		
expired-server-cert	Action based on server certificate is expired.	option	-	block
	Option	Description		
	<i>allow</i>	Allow the server certificate.		
	<i>block</i>	Block the session.		
	<i>ignore</i>	Re-sign the server certificate as trusted.		
revoked-server-cert	Action based on server certificate is revoked.	option	-	block
	Option	Description		
	<i>allow</i>	Allow the server certificate.		
	<i>block</i>	Block the session.		
	<i>ignore</i>	Re-sign the server certificate as trusted.		
untrusted-server-cert	Action based on server certificate is not issued by a trusted CA.	option	-	allow
	Option	Description		
	<i>allow</i>	Allow the server certificate.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>block</i>	Block the session.		
	<i>ignore</i>	Re-sign the server certificate as trusted.		
cert-validation-timeout	Action based on certificate validation timeout.	option	-	allow
	Option	Description		
	<i>allow</i>	Allow the server certificate.		
	<i>block</i>	Block the session.		
	<i>ignore</i>	Re-sign the server certificate as trusted.		
cert-validation-failure	Action based on certificate validation failure.	option	-	block
	Option	Description		
	<i>allow</i>	Allow the server certificate.		
	<i>block</i>	Block the session.		
	<i>ignore</i>	Re-sign the server certificate as trusted.		
sni-server-cert-check	Check the SNI in the client hello message with the CN or SAN fields in the returned server certificate.	option	-	enable
	Option	Description		
	<i>enable</i>	Check the SNI in the client hello message with the CN or SAN fields in the returned server certificate. If mismatched, use the CN in the server certificate to do URL filtering.		
	<i>strict</i>	Check the SNI in the client hello message with the CN or SAN fields in the returned server certificate. If mismatched, close the connection.		
	<i>disable</i>	Do not check the SNI in the client hello message with the CN or SAN fields in the returned server certificate.		

config pop3s

Parameter	Description	Type	Size	Default
ports	Ports to use for scanning (1 - 65535, default = 443).	integer	Minimum value: 1 Maximum value: 65535	

Parameter	Description	Type	Size	Default
status	Configure protocol inspection status.	option	-	deep-inspection
	Option	Description		
	<i>disable</i>	Disable.		
	<i>deep-inspection</i>	Full SSL inspection.		
proxy-after-tcp-handshake	Proxy traffic after the TCP 3-way handshake has been established (not before).	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
client-certificate	Action based on received client certificate.	option	-	inspect
	Option	Description		
	<i>bypass</i>	Bypass the session.		
	<i>inspect</i>	Inspect the session.		
	<i>block</i>	Block the session.		
	<i>bypass-on-cert-req</i>	Bypass on certificate request.		
unsupported-ssl-version	Action based on the SSL version used being unsupported.	option	-	block
	Option	Description		
	<i>allow</i>	Bypass the session when the version is not supported.		
	<i>block</i>	Block the session when the version is not supported.		
unsupported-ssl-cipher	Action based on the SSL cipher used being unsupported.	option	-	allow
	Option	Description		
	<i>allow</i>	Bypass the session when the cipher is not supported.		
	<i>block</i>	Block the session when the cipher is not supported.		
unsupported-ssl-negotiation	Action based on the SSL negotiation used being unsupported.	option	-	allow

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>allow</i>	Bypass the session when the negotiation is not supported.		
	<i>block</i>	Block the session when the negotiation is not supported.		
expired-server-cert	Action based on server certificate is expired.	option	-	block
	Option	Description		
	<i>allow</i>	Allow the server certificate.		
	<i>block</i>	Block the session.		
	<i>ignore</i>	Re-sign the server certificate as trusted.		
revoked-server-cert	Action based on server certificate is revoked.	option	-	block
	Option	Description		
	<i>allow</i>	Allow the server certificate.		
	<i>block</i>	Block the session.		
	<i>ignore</i>	Re-sign the server certificate as trusted.		
untrusted-server-cert	Action based on server certificate is not issued by a trusted CA.	option	-	allow
	Option	Description		
	<i>allow</i>	Allow the server certificate.		
	<i>block</i>	Block the session.		
	<i>ignore</i>	Re-sign the server certificate as trusted.		
cert-validation-timeout	Action based on certificate validation timeout.	option	-	allow
	Option	Description		
	<i>allow</i>	Allow the server certificate.		
	<i>block</i>	Block the session.		
	<i>ignore</i>	Re-sign the server certificate as trusted.		
cert-validation-failure	Action based on certificate validation failure.	option	-	block

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>allow</i>	Allow the server certificate.		
	<i>block</i>	Block the session.		
	<i>ignore</i>	Re-sign the server certificate as trusted.		
sni-server-cert-check	Check the SNI in the client hello message with the CN or SAN fields in the returned server certificate.	option	-	enable
	Option	Description		
	<i>enable</i>	Check the SNI in the client hello message with the CN or SAN fields in the returned server certificate. If mismatched, use the CN in the server certificate to do URL filtering.		
	<i>strict</i>	Check the SNI in the client hello message with the CN or SAN fields in the returned server certificate. If mismatched, close the connection.		
	<i>disable</i>	Do not check the SNI in the client hello message with the CN or SAN fields in the returned server certificate.		

config smtps

Parameter	Description	Type	Size	Default						
ports	Ports to use for scanning (1 - 65535, default = 443).	integer	Minimum value: 1 Maximum value: 65535							
status	Configure protocol inspection status.	option	-	deep-inspection						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable.</td></tr><tr><td><i>deep-inspection</i></td><td>Full SSL inspection.</td></tr></table>				Option	Description	<i>disable</i>	Disable.	<i>deep-inspection</i>	Full SSL inspection.
Option	Description									
<i>disable</i>	Disable.									
<i>deep-inspection</i>	Full SSL inspection.									
proxy-after-tcp-handshake	Proxy traffic after the TCP 3-way handshake has been established (not before).	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>				Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									
client-certificate	Action based on received client certificate.	option	-	inspect						

Parameter	Description	Type	Size	Default										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>bypass</td><td>Bypass the session.</td></tr><tr><td>inspect</td><td>Inspect the session.</td></tr><tr><td>block</td><td>Block the session.</td></tr><tr><td>bypass-on-cert-req</td><td>Bypass on certificate request.</td></tr></table>	Option	Description	bypass	Bypass the session.	inspect	Inspect the session.	block	Block the session.	bypass-on-cert-req	Bypass on certificate request.			
	Option	Description												
	bypass	Bypass the session.												
	inspect	Inspect the session.												
	block	Block the session.												
bypass-on-cert-req	Bypass on certificate request.													
unsupported-ssl-version	Action based on the SSL version used being unsupported.	option	-	block										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>allow</td><td>Bypass the session when the version is not supported.</td></tr><tr><td>block</td><td>Block the session when the version is not supported.</td></tr></table>	Option	Description	allow	Bypass the session when the version is not supported.	block	Block the session when the version is not supported.							
	Option	Description												
	allow	Bypass the session when the version is not supported.												
block	Block the session when the version is not supported.													
unsupported-ssl-cipher	Action based on the SSL cipher used being unsupported.	option	-	allow										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>allow</td><td>Bypass the session when the cipher is not supported.</td></tr><tr><td>block</td><td>Block the session when the cipher is not supported.</td></tr></table>	Option	Description	allow	Bypass the session when the cipher is not supported.	block	Block the session when the cipher is not supported.							
	Option	Description												
	allow	Bypass the session when the cipher is not supported.												
block	Block the session when the cipher is not supported.													
unsupported-ssl-negotiation	Action based on the SSL negotiation used being unsupported.	option	-	allow										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>allow</td><td>Bypass the session when the negotiation is not supported.</td></tr><tr><td>block</td><td>Block the session when the negotiation is not supported.</td></tr></table>	Option	Description	allow	Bypass the session when the negotiation is not supported.	block	Block the session when the negotiation is not supported.							
	Option	Description												
	allow	Bypass the session when the negotiation is not supported.												
block	Block the session when the negotiation is not supported.													
expired-server-cert	Action based on server certificate is expired.	option	-	block										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>allow</td><td>Allow the server certificate.</td></tr><tr><td>block</td><td>Block the session.</td></tr><tr><td>ignore</td><td>Re-sign the server certificate as trusted.</td></tr></table>	Option	Description	allow	Allow the server certificate.	block	Block the session.	ignore	Re-sign the server certificate as trusted.					
	Option	Description												
	allow	Allow the server certificate.												
	block	Block the session.												
ignore	Re-sign the server certificate as trusted.													
revoked-server-cert	Action based on server certificate is revoked.	option	-	block										

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>allow</i>	Allow the server certificate.		
	<i>block</i>	Block the session.		
	<i>ignore</i>	Re-sign the server certificate as trusted.		
untrusted-server-cert	Action based on server certificate is not issued by a trusted CA.	option	-	allow
	Option	Description		
	<i>allow</i>	Allow the server certificate.		
	<i>block</i>	Block the session.		
	<i>ignore</i>	Re-sign the server certificate as trusted.		
cert-validation-timeout	Action based on certificate validation timeout.	option	-	allow
	Option	Description		
	<i>allow</i>	Allow the server certificate.		
	<i>block</i>	Block the session.		
	<i>ignore</i>	Re-sign the server certificate as trusted.		
cert-validation-failure	Action based on certificate validation failure.	option	-	block
	Option	Description		
	<i>allow</i>	Allow the server certificate.		
	<i>block</i>	Block the session.		
	<i>ignore</i>	Re-sign the server certificate as trusted.		
sni-server-cert-check	Check the SNI in the client hello message with the CN or SAN fields in the returned server certificate.	option	-	enable
	Option	Description		
	<i>enable</i>	Check the SNI in the client hello message with the CN or SAN fields in the returned server certificate. If mismatched, use the CN in the server certificate to do URL filtering.		
	<i>strict</i>	Check the SNI in the client hello message with the CN or SAN fields in the returned server certificate. If mismatched, close the connection.		
	<i>disable</i>	Do not check the SNI in the client hello message with the CN or SAN fields in the returned server certificate.		

config ssh

Parameter	Description	Type	Size	Default						
ports	Ports to use for scanning (1 - 65535, default = 443).	integer	Minimum value: 1 Maximum value: 65535							
status	Configure protocol inspection status.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable.</td></tr><tr><td><i>deep-inspection</i></td><td>Full SSL inspection.</td></tr></table>	Option	Description	<i>disable</i>	Disable.	<i>deep-inspection</i>	Full SSL inspection.			
Option	Description									
<i>disable</i>	Disable.									
<i>deep-inspection</i>	Full SSL inspection.									
inspect-all	Level of SSL inspection.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable.</td></tr><tr><td><i>deep-inspection</i></td><td>Full SSL inspection.</td></tr></table>	Option	Description	<i>disable</i>	Disable.	<i>deep-inspection</i>	Full SSL inspection.			
Option	Description									
<i>disable</i>	Disable.									
<i>deep-inspection</i>	Full SSL inspection.									
proxy-after-tcp-handshake	Proxy traffic after the TCP 3-way handshake has been established (not before).	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									
unsupported-version	Action based on SSH version being unsupported.	option	-	bypass						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>bypass</i></td><td>Bypass the session.</td></tr><tr><td><i>block</i></td><td>Block the session.</td></tr></table>	Option	Description	<i>bypass</i>	Bypass the session.	<i>block</i>	Block the session.			
Option	Description									
<i>bypass</i>	Bypass the session.									
<i>block</i>	Block the session.									
ssh-tun-policy-check	Enable/disable SSH tunnel policy check.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable SSH tunnel policy check.</td></tr><tr><td><i>enable</i></td><td>Enable SSH tunnel policy check.</td></tr></table>	Option	Description	<i>disable</i>	Disable SSH tunnel policy check.	<i>enable</i>	Enable SSH tunnel policy check.			
Option	Description									
<i>disable</i>	Disable SSH tunnel policy check.									
<i>enable</i>	Enable SSH tunnel policy check.									
ssh-algorithm	Relative strength of encryption algorithms accepted during negotiation.	option	-	compatible						

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>compatible</i>	Allow a broader set of encryption algorithms for best compatibility.		
	<i>high-encryption</i>	Allow only AES-CTR, AES-GCM ciphers and high encryption algorithms.		

config dot

Parameter	Description	Type	Size	Default
status	Configure protocol inspection status.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable.		
	<i>deep-inspection</i>	Full SSL inspection.		
quic	QUIC inspection status (default = inspect).	option	-	inspect
	Option	Description		
	<i>inspect</i>	Inspect QUIC traffic.		
	<i>bypass</i>	Bypass QUIC traffic.		
	<i>block</i>	Block QUIC traffic.		
proxy-after-tcp-handshake	Proxy traffic after the TCP 3-way handshake has been established (not before).	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
client-certificate	Action based on received client certificate.	option	-	bypass
	Option	Description		
	<i>bypass</i>	Bypass the session.		
	<i>inspect</i>	Inspect the session.		
	<i>block</i>	Block the session.		
	<i>bypass-on-cert-req</i>	Bypass on certificate request.		
unsupported-ssl-version	Action based on the SSL version used being unsupported.	option	-	block

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>allow</i>	Bypass the session when the version is not supported.		
	<i>block</i>	Block the session when the version is not supported.		
unsupported-ssl-cipher	Action based on the SSL cipher used being unsupported.	option	-	allow
	Option	Description		
	<i>allow</i>	Bypass the session when the cipher is not supported.		
	<i>block</i>	Block the session when the cipher is not supported.		
unsupported-ssl-negotiation	Action based on the SSL negotiation used being unsupported.	option	-	allow
	Option	Description		
	<i>allow</i>	Bypass the session when the negotiation is not supported.		
	<i>block</i>	Block the session when the negotiation is not supported.		
expired-server-cert	Action based on server certificate is expired.	option	-	block
	Option	Description		
	<i>allow</i>	Allow the server certificate.		
	<i>block</i>	Block the session.		
	<i>ignore</i>	Re-sign the server certificate as trusted.		
revoked-server-cert	Action based on server certificate is revoked.	option	-	block
	Option	Description		
	<i>allow</i>	Allow the server certificate.		
	<i>block</i>	Block the session.		
	<i>ignore</i>	Re-sign the server certificate as trusted.		
untrusted-server-cert	Action based on server certificate is not issued by a trusted CA.	option	-	allow
	Option	Description		
	<i>allow</i>	Allow the server certificate.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>block</i>	Block the session.		
	<i>ignore</i>	Re-sign the server certificate as trusted.		
cert-validation-timeout	Action based on certificate validation timeout.	option	-	allow
	Option	Description		
	<i>allow</i>	Allow the server certificate.		
	<i>block</i>	Block the session.		
	<i>ignore</i>	Re-sign the server certificate as trusted.		
cert-validation-failure	Action based on certificate validation failure.	option	-	block
	Option	Description		
	<i>allow</i>	Allow the server certificate.		
	<i>block</i>	Block the session.		
	<i>ignore</i>	Re-sign the server certificate as trusted.		
sni-server-cert-check	Check the SNI in the client hello message with the CN or SAN fields in the returned server certificate.	option	-	enable
	Option	Description		
	<i>enable</i>	Check the SNI in the client hello message with the CN or SAN fields in the returned server certificate. If mismatched, use the CN in the server certificate to do URL filtering.		
	<i>strict</i>	Check the SNI in the client hello message with the CN or SAN fields in the returned server certificate. If mismatched, close the connection.		
	<i>disable</i>	Do not check the SNI in the client hello message with the CN or SAN fields in the returned server certificate.		

config ssl-client-certificate

Parameter	Description	Type	Size	Default
status	Configure SSL client certificate status.	option	-	do-not-offer

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>do-not-offer</i>	Do not offer SSL client certificate.		
	<i>keyring-list</i>	For authenticated users, offer matching SSL client certificate from keyring list.		
	<i>ca-sign</i>	For authenticated users, offer SSL client certificate signed by configured CA.		
	<i>static</i>	Offer static SSL client certificate.		
keyring-list	Keyring list used to find client certificate.	string	Maximum length: 35	
caname	CA certificate used to sign client certificate.	string	Maximum length: 35	Fortinet_CA_SSL
cert	Client certificate.	string	Maximum length: 35	

config ssl-exempt

Parameter	Description	Type	Size	Default														
id	ID number.	integer	Minimum value: 0 Maximum value: 512	0														
type	Type of address object (IPv4 or IPv6) or FortiGuard category.	option	-	fortiguard-category														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>fortiguard-category</i></td><td>FortiGuard category.</td></tr><tr><td><i>address</i></td><td>Firewall IPv4 address.</td></tr><tr><td><i>address6</i></td><td>Firewall IPv6 address.</td></tr><tr><td><i>wildcard-fqdn</i></td><td>Fully Qualified Domain Name with wildcard characters.</td></tr><tr><td><i>regex</i></td><td>Regular expression FQDN.</td></tr><tr><td><i>finger-print</i></td><td>TLS finger print.</td></tr></table>				Option	Description	<i>fortiguard-category</i>	FortiGuard category.	<i>address</i>	Firewall IPv4 address.	<i>address6</i>	Firewall IPv6 address.	<i>wildcard-fqdn</i>	Fully Qualified Domain Name with wildcard characters.	<i>regex</i>	Regular expression FQDN.	<i>finger-print</i>	TLS finger print.
	Option	Description																
	<i>fortiguard-category</i>	FortiGuard category.																
	<i>address</i>	Firewall IPv4 address.																
	<i>address6</i>	Firewall IPv6 address.																
	<i>wildcard-fqdn</i>	Fully Qualified Domain Name with wildcard characters.																
	<i>regex</i>	Regular expression FQDN.																
<i>finger-print</i>	TLS finger print.																	
fortiguard-category	FortiGuard category ID.	integer	Minimum value: 0 Maximum value: 255	0														
address	IPv4 address object.	string	Maximum length: 79															

Parameter	Description	Type	Size	Default
address6	IPv6 address object.	string	Maximum length: 79	
wildcard-fqdn	Exempt servers by wildcard FQDN.	string	Maximum length: 79	
regex	Exempt servers by regular expression.	string	Maximum length: 255	
finger-print-category	Finger print platform.	option	-	android
	Option	Description		
	<i>unknown</i>	Unknown clients.		
	<i>firefox</i>	Firefox.		
	<i>chrome</i>	Chrome.		
	<i>safari</i>	Safari.		
	<i>edge</i>	Edge.		
	<i>ie</i>	Internet Explorer.		
	<i>android</i>	Android applications.		
	<i>ios</i>	iOS applications.		
	<i>windows</i>	Windows applications.		

config ech-outer-sni

Parameter	Description	Type	Size	Default
name	ClientHelloOuter SNI name.	string	Maximum length: 79	
sni	ClientHelloOuter SNI to be blocked.	string	Maximum length: 255	

config ssl-server

Parameter	Description	Type	Size	Default
id	SSL server ID.	integer	Minimum value: 0 Maximum value: 4294967295	0

Parameter	Description	Type	Size	Default								
ip	IPv4 address of the SSL server.	ipv4-address-any	Not Specified	0.0.0.0								
https-client-certificate	Action based on received client certificate during the HTTPS handshake.	option	-	bypass								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>bypass</td><td>Bypass the session.</td></tr><tr><td>inspect</td><td>Inspect the session.</td></tr><tr><td>block</td><td>Block the session.</td></tr></table>	Option	Description	bypass	Bypass the session.	inspect	Inspect the session.	block	Block the session.			
Option	Description											
bypass	Bypass the session.											
inspect	Inspect the session.											
block	Block the session.											
smtps-client-certificate	Action based on received client certificate during the SMTPS handshake.	option	-	bypass								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>bypass</td><td>Bypass the session.</td></tr><tr><td>inspect</td><td>Inspect the session.</td></tr><tr><td>block</td><td>Block the session.</td></tr></table>	Option	Description	bypass	Bypass the session.	inspect	Inspect the session.	block	Block the session.			
Option	Description											
bypass	Bypass the session.											
inspect	Inspect the session.											
block	Block the session.											
pop3s-client-certificate	Action based on received client certificate during the POP3S handshake.	option	-	bypass								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>bypass</td><td>Bypass the session.</td></tr><tr><td>inspect</td><td>Inspect the session.</td></tr><tr><td>block</td><td>Block the session.</td></tr></table>	Option	Description	bypass	Bypass the session.	inspect	Inspect the session.	block	Block the session.			
Option	Description											
bypass	Bypass the session.											
inspect	Inspect the session.											
block	Block the session.											
imaps-client-certificate	Action based on received client certificate during the IMAPS handshake.	option	-	bypass								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>bypass</td><td>Bypass the session.</td></tr><tr><td>inspect</td><td>Inspect the session.</td></tr><tr><td>block</td><td>Block the session.</td></tr></table>	Option	Description	bypass	Bypass the session.	inspect	Inspect the session.	block	Block the session.			
Option	Description											
bypass	Bypass the session.											
inspect	Inspect the session.											
block	Block the session.											
ftps-client-certificate	Action based on received client certificate during the FTPS handshake.	option	-	bypass								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>bypass</td><td>Bypass the session.</td></tr></table>	Option	Description	bypass	Bypass the session.							
Option	Description											
bypass	Bypass the session.											

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>inspect</i>	Inspect the session.		
	<i>block</i>	Block the session.		
ssl-other-client-certificate	Action based on received client certificate during an SSL protocol handshake.	option	-	bypass
	Option	Description		
	<i>bypass</i>	Bypass the session.		
	<i>inspect</i>	Inspect the session.		
	<i>block</i>	Block the session.		

config firewall traffic-class

Configure names for shaping classes.

```
config firewall traffic-class
    Description: Configure names for shaping classes.
    edit <class-id>
        set class-name {string}
    next
end
```

config firewall traffic-class

Parameter	Description	Type	Size	Default
class-id	Class ID to be named.	integer	Minimum value: 2 Maximum value: 31	0
class-name	Define the name for this class-id.	string	Maximum length: 35	

config firewall ttl-policy

Configure TTL policies.

```
config firewall ttl-policy
    Description: Configure TTL policies.
```

```

edit <id>
    set status [enable|disable]
    set action [accept|deny]
    set srcintf {string}
    set srcaddr <name1>, <name2>, ...
    set service <name1>, <name2>, ...
    set schedule {string}
    set ttl {user}
next
end

```

config firewall ttl-policy

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
status	Enable/disable this TTL policy.	option	-	enable
	Option	Description		
	enable	Enable this TTL policy.		
	disable	Disable this TTL policy.		
action	Action to be performed on traffic matching this policy (default = deny).	option	-	deny
	Option	Description		
	accept	Allow traffic matching this policy.		
	deny	Deny or block traffic matching this policy.		
srcintf	Source interface name from available interfaces.	string	Maximum length: 35	
srcaddr <name>	Source address object(s) from available options. Separate multiple names with a space. Address name.	string	Maximum length: 79	
service <name>	Service object(s) from available options. Separate multiple names with a space. Service name.	string	Maximum length: 79	
schedule	Schedule object from available options.	string	Maximum length: 35	
ttl	Value/range to match against the packet's Time to Live value (format: ttl[- ttl_high], 1 - 255).	user	Not Specified	

config firewall vendor-mac

Show vendor and the MAC address they have.

```
config firewall vendor-mac
  Description: Show vendor and the MAC address they have.
  edit <id>
    set name {string}
    set mac-number {integer}
    set obsolete {integer}
  next
end
```

config firewall vendor-mac

Parameter	Description	Type	Size	Default
id	Vendor ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
name	Vendor name.	string	Maximum length: 63	
mac-number	Total number of MAC addresses.	integer	Minimum value: 0 Maximum value: 4294967295	0
obsolete	Indicates whether the Vendor ID can be used.	integer	Minimum value: 0 Maximum value: 255	0

config firewall vendor-mac-summary

Vendor MAC database summary.

```
config firewall vendor-mac-summary
  Description: Vendor MAC database summary.
end
```

config firewall vip

Configure virtual IP for IPv4.


```

config firewall vip
    Description: Configure virtual IP for IPv4.
    edit <name>
        set id {integer}
        set uuid {uuid}
        set comment {var-string}
        set type [static-nat|server-load-balance|...]
        set server-type [http|https|...]
        set ldb-method [static|round-robin|...]
        set extip {user}
        set h2-support [enable|disable]
        set h3-support [enable|disable]
    config quic
        Description: QUIC setting.
        set max-idle-timeout {integer}
        set max-udp-payload-size {integer}
        set active-connection-id-limit {integer}
        set ack-delay-exponent {integer}
        set max-ack-delay {integer}
        set max-datagram-frame-size {integer}
        set active-migration [enable|disable]
        set grease-quic-bit [enable|disable]
    end
    set mappedip <range1>, <range2>, ...
    set extintf {string}
    set arp-reply [disable|enable]
    set http-redirect [enable|disable]
    set persistence [none|http-cookie|...]
    set portforward [disable|enable]
    set status [disable|enable]
    set protocol [tcp|udp|...]
    set extport {user}
    set mappedport {user}
    set gratuitous-arp-interval {integer}
    set empty-cert-action [accept|block|...]
    set user-agent-detect [disable|enable]
    set client-cert [disable|enable]
    config realservers
        Description: Select the real servers that this server load balancing VIP will
        distribute traffic to.
        edit <id>
            set type [ip|address]
            set address {string}
            set ip {user}
            set port {integer}
            set status [active|standby|...]
            set weight {integer}
            set holddown-interval {integer}
            set healthcheck [disable|enable]
            set health-check-proto [ping|http]
            set http-host {string}
            set translate-host [enable|disable]
            set max-connections {integer}
            set client-ip {user}
            set verify-cert [enable|disable]
        next

```

```

end
set http-cookie-domain-from-host [disable|enable]
set http-cookie-domain {string}
set http-cookie-path {string}
set http-cookie-generation {integer}
set http-cookie-age {integer}
set http-cookie-share [disable|same-ip]
set https-cookie-secure [disable|enable]
set http-multiplex [enable|disable]
set http-multiplex-ttl {integer}
set http-multiplex-max-request {integer}
set http-multiplex-max-concurrent-request {integer}
set http-ip-header [enable|disable]
set http-ip-header-name {string}
set outlook-web-access [disable|enable]
set weblogic-server [disable|enable]
set websphere-server [disable|enable]
set ssl-mode [half|full]
set ssl-certificate <name1>, <name2>, ...
set ssl-dh-bits [768|1024|...]
set ssl-algorithm [high|medium|...]
config ssl-cipher-suites
    Description: SSL/TLS cipher suites acceptable from a client, ordered by
priority.
    edit <priority>
        set cipher [TLS-AES-128-GCM-SHA256|TLS-AES-256-GCM-SHA384|...]
        set versions {option1}, {option2}, ...
    next
end
set ssl-server-algorithm [high|medium|...]
config ssl-server-cipher-suites
    Description: SSL/TLS cipher suites to offer to a server, ordered by priority.
    edit <priority>
        set cipher [TLS-AES-128-GCM-SHA256|TLS-AES-256-GCM-SHA384|...]
        set versions {option1}, {option2}, ...
    next
end
set ssl-pfs [require|deny|...]
set ssl-min-version [ssl-3.0|tls-1.0|...]
set ssl-max-version [ssl-3.0|tls-1.0|...]
set ssl-server-min-version [ssl-3.0|tls-1.0|...]
set ssl-server-max-version [ssl-3.0|tls-1.0|...]
set ssl-accept-ffdhe-groups [enable|disable]
set ssl-send-empty-frags [enable|disable]
set ssl-client-fallback [disable|enable]
set ssl-client-renegotiation [allow|deny|...]
set ssl-client-session-state-type [disable|time|...]
set ssl-client-session-state-timeout {integer}
set ssl-client-session-state-max {integer}
set ssl-client-rekey-count {integer}
set ssl-server-renegotiation [enable|disable]
set ssl-server-session-state-type [disable|time|...]
set ssl-server-session-state-timeout {integer}
set ssl-server-session-state-max {integer}
set ssl-http-location-conversion [enable|disable]
set ssl-http-match-host [enable|disable]

```

```

set ssl-hpkp [disable|enable|...]
set ssl-hpkp-primary {string}
set ssl-hpkp-backup {string}
set ssl-hpkp-age {integer}
set ssl-hpkp-report-uri {var-string}
set ssl-hpkp-include-subdomains [disable|enable]
set ssl-hsts [disable|enable]
set ssl-hsts-age {integer}
set ssl-hsts-include-subdomains [disable|enable]
set max-embryonic-connections {integer}
set one-click-gslb-server [disable|enable]
set gslb-hostname {string}
set gslb-domain-name {string}
config gslb-public-ips
    Description: Publicly accessible IP addresses for the FortiGSLB service.
    edit <index>
        set ip {ipv4-address-any}
    next
end
next
end

```

config firewall vip

Parameter	Description	Type	Size	Default
name	Virtual IP name.	string	Maximum length: 79	
id	Custom defined ID.	integer	Minimum value: 0 Maximum value: 65535	0
uuid	Universally Unique Identifier (UUID; automatically assigned but can be manually reset).	uuid	Not Specified	00000000-0000-0000-0000-000000000000
comment	Comment.	var-string	Maximum length: 255	
type	Configure between a static NAT and access proxy VIP.	option	-	static-nat

Option	Description
<i>static-nat</i>	Static NAT.
<i>server-load-balance</i>	Server load balance.
<i>access-proxy</i>	Access proxy.

Parameter	Description	Type	Size	Default																				
server-type	Protocol to be load balanced by the virtual server (also called the server load balance virtual IP).	option	-																					
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>http</td><td>HTTP.</td></tr><tr><td>https</td><td>HTTPS.</td></tr><tr><td>imaps</td><td>IMAPS.</td></tr><tr><td>pop3s</td><td>POP3S.</td></tr><tr><td>smtps</td><td>SMTPS.</td></tr><tr><td>ssl</td><td>SSL.</td></tr><tr><td>tcp</td><td>TCP.</td></tr><tr><td>udp</td><td>UDP.</td></tr><tr><td>ip</td><td>IP.</td></tr></table>	Option	Description	http	HTTP.	https	HTTPS.	imaps	IMAPS.	pop3s	POP3S.	smtps	SMTPS.	ssl	SSL.	tcp	TCP.	udp	UDP.	ip	IP.			
Option	Description																							
http	HTTP.																							
https	HTTPS.																							
imaps	IMAPS.																							
pop3s	POP3S.																							
smtps	SMTPS.																							
ssl	SSL.																							
tcp	TCP.																							
udp	UDP.																							
ip	IP.																							
ldb-method	Method used to distribute sessions to real servers.	option	-	static																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>static</td><td>Distribute to server based on source IP.</td></tr><tr><td>round-robin</td><td>Distribute to server based round robin order.</td></tr><tr><td>weighted</td><td>Distribute to server based on weight.</td></tr><tr><td>first-alive</td><td>Distribute to the first server that is alive.</td></tr><tr><td>http-host</td><td>Distribute to server based on host field in HTTP header.</td></tr></table>	Option	Description	static	Distribute to server based on source IP.	round-robin	Distribute to server based round robin order.	weighted	Distribute to server based on weight.	first-alive	Distribute to the first server that is alive.	http-host	Distribute to server based on host field in HTTP header.											
Option	Description																							
static	Distribute to server based on source IP.																							
round-robin	Distribute to server based round robin order.																							
weighted	Distribute to server based on weight.																							
first-alive	Distribute to the first server that is alive.																							
http-host	Distribute to server based on host field in HTTP header.																							
extip	IP address or address range on the external interface that you want to map to an address or address range on the destination network.	user	Not Specified																					
h2-support	Enable/disable HTTP2 support (default = enable).	option	-	enable																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable HTTP2 support.</td></tr><tr><td>disable</td><td>Disable HTTP2 support.</td></tr></table>	Option	Description	enable	Enable HTTP2 support.	disable	Disable HTTP2 support.																	
Option	Description																							
enable	Enable HTTP2 support.																							
disable	Disable HTTP2 support.																							
h3-support	Enable/disable HTTP3/QUIC support (default = disable).	option	-	disable																				

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable HTTP3/QUIC support.		
	<i>disable</i>	Disable HTTP3/QUIC support.		
mappedip <range>	IP address or address range on the destination network to which the external IP address is mapped. Mapped IP range.	string	Maximum length: 79	
extintf	Interface connected to the source network that receives the packets that will be forwarded to the destination network.	string	Maximum length: 35	
arp-reply	Enable to respond to ARP requests for this virtual IP address. Enabled by default.	option	-	enable
	Option	Description		
	<i>disable</i>	Disable ARP reply.		
	<i>enable</i>	Enable ARP reply.		
http-redirect	Enable/disable redirection of HTTP to HTTPS.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable redirection of HTTP to HTTPS.		
	<i>disable</i>	Disable redirection of HTTP to HTTPS.		
persistence	Configure how to make sure that clients connect to the same server every time they make a request that is part of the same session.	option	-	none
	Option	Description		
	<i>none</i>	None.		
	<i>http-cookie</i>	HTTP cookie.		
	<i>ssl-session-id</i>	SSL session ID.		
portforward	Enable/disable port forwarding.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable port forward.		
	<i>enable</i>	Enable port forward.		

Parameter	Description	Type	Size	Default										
status	Enable/disable VIP.	option	-	enable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable the VIP.</td></tr><tr><td><i>enable</i></td><td>Enable the VIP.</td></tr></table>				Option	Description	<i>disable</i>	Disable the VIP.	<i>enable</i>	Enable the VIP.				
	Option	Description												
	<i>disable</i>	Disable the VIP.												
<i>enable</i>	Enable the VIP.													
protocol	Protocol to use when forwarding packets.	option	-	tcp										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>tcp</i></td><td>TCP.</td></tr><tr><td><i>udp</i></td><td>UDP.</td></tr><tr><td><i>sctp</i></td><td>SCTP.</td></tr><tr><td><i>icmp</i></td><td>ICMP.</td></tr></table>				Option	Description	<i>tcp</i>	TCP.	<i>udp</i>	UDP.	<i>sctp</i>	SCTP.	<i>icmp</i>	ICMP.
	Option	Description												
	<i>tcp</i>	TCP.												
	<i>udp</i>	UDP.												
	<i>sctp</i>	SCTP.												
<i>icmp</i>	ICMP.													
extport	Incoming port number range that you want to map to a port number range on the destination network.	user	Not Specified											
mappedport	Port number range on the destination network to which the external port number range is mapped.	user	Not Specified											
gratuitous-arp-interval	Enable to have the VIP send gratuitous ARPs. 0=disabled. Set from 5 up to 8640000 seconds to enable.	integer	Minimum value: 5 Maximum value: 8640000	0										
empty-cert-action	Action for an empty client certificate.	option	-	block										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>accept</i></td><td>Accept the SSL handshake if the client certificate is empty.</td></tr><tr><td><i>block</i></td><td>Block the SSL handshake if the client certificate is empty.</td></tr><tr><td><i>accept-unmanageable</i></td><td>Accept the SSL handshake only if the end-point is unmanageable.</td></tr></table>				Option	Description	<i>accept</i>	Accept the SSL handshake if the client certificate is empty.	<i>block</i>	Block the SSL handshake if the client certificate is empty.	<i>accept-unmanageable</i>	Accept the SSL handshake only if the end-point is unmanageable.		
	Option	Description												
	<i>accept</i>	Accept the SSL handshake if the client certificate is empty.												
	<i>block</i>	Block the SSL handshake if the client certificate is empty.												
<i>accept-unmanageable</i>	Accept the SSL handshake only if the end-point is unmanageable.													
user-agent-detect	Enable/disable detecting device type by HTTP user-agent if no client certificate is provided.	option	-	enable										

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable detecting unknown devices by HTTP user-agent if no client certificate is provided.		
	<i>enable</i>	Enable detecting unknown devices by HTTP user-agent if no client certificate is provided.		
client-cert	Enable/disable requesting client certificate.	option	-	enable
	Option	Description		
	<i>disable</i>	Disable client certificate request.		
	<i>enable</i>	Enable client certificate request.		
http-cookie-domain-from-host	Enable/disable use of HTTP cookie domain from host field in HTTP.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable use of HTTP cookie domain from host field in HTTP (use http-cookies-domain setting).		
	<i>enable</i>	Enable use of HTTP cookie domain from host field in HTTP.		
http-cookie-domain	Domain that HTTP cookie persistence should apply to.	string	Maximum length: 35	
http-cookie-path	Limit HTTP cookie persistence to the specified path.	string	Maximum length: 35	
http-cookie-generation	Generation of HTTP cookie to be accepted. Changing invalidates all existing cookies.	integer	Minimum value: 0 Maximum value: 4294967295	0
http-cookie-age	Time in minutes that client web browsers should keep a cookie. Default is 60 minutes. 0 = no time limit.	integer	Minimum value: 0 Maximum value: 525600	60
http-cookie-share	Control sharing of cookies across virtual servers. Use of same-ip means a cookie from one virtual server can be used by another. Disable stops cookie sharing.	option	-	same-ip

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Only allow HTTP cookie to match this virtual server.		
	<i>same-ip</i>	Allow HTTP cookie to match any virtual server with same IP.		
https-cookie-secure	Enable/disable verification that inserted HTTPS cookies are secure.	option	-	disable
	Option	Description		
	<i>disable</i>	Do not mark cookie as secure, allow sharing between an HTTP and HTTPS connection.		
	<i>enable</i>	Mark inserted cookie as secure, cookie can only be used for HTTPS a connection.		
http-multiplex	Enable/disable HTTP multiplexing.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable HTTP session multiplexing.		
	<i>disable</i>	Disable HTTP session multiplexing.		
http-multiplex-ttl	Time-to-live for idle connections to servers.	integer	Minimum value: 0 Maximum value: 2147483647	15
http-multiplex-max-request	Maximum number of requests that a multiplex server can handle before disconnecting sessions (default = unlimited).	integer	Minimum value: 0 Maximum value: 2147483647	0
http-multiplex-max-concurrent-request	Maximum number of concurrent requests that a multiplex server can handle (default = unlimited).	integer	Minimum value: 0 Maximum value: 2147483647	0
http-ip-header	For HTTP multiplexing, enable to add the original client IP address in the XForwarded-For HTTP header.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable adding HTTP header.		
	<i>disable</i>	Disable adding HTTP header.		

Parameter	Description	Type	Size	Default						
http-ip-header-name	For HTTP multiplexing, enter a custom HTTPS header name. The original client IP address is added to this header. If empty, X-Forwarded-For is used.	string	Maximum length: 35							
outlook-web-access	Enable to add the Front-End-Https header for Microsoft Outlook Web Access.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>Disable Outlook Web Access support.</td></tr><tr><td>enable</td><td>Enable Outlook Web Access support.</td></tr></table>	Option	Description	disable	Disable Outlook Web Access support.	enable	Enable Outlook Web Access support.			
Option	Description									
disable	Disable Outlook Web Access support.									
enable	Enable Outlook Web Access support.									
weblogic-server	Enable to add an HTTP header to indicate SSL offloading for a WebLogic server.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>Do not add HTTP header indicating SSL offload for WebLogic server.</td></tr><tr><td>enable</td><td>Add HTTP header indicating SSL offload for WebLogic server.</td></tr></table>	Option	Description	disable	Do not add HTTP header indicating SSL offload for WebLogic server.	enable	Add HTTP header indicating SSL offload for WebLogic server.			
Option	Description									
disable	Do not add HTTP header indicating SSL offload for WebLogic server.									
enable	Add HTTP header indicating SSL offload for WebLogic server.									
websphere-server	Enable to add an HTTP header to indicate SSL offloading for a WebSphere server.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>Do not add HTTP header indicating SSL offload for WebSphere server.</td></tr><tr><td>enable</td><td>Add HTTP header indicating SSL offload for WebSphere server.</td></tr></table>	Option	Description	disable	Do not add HTTP header indicating SSL offload for WebSphere server.	enable	Add HTTP header indicating SSL offload for WebSphere server.			
Option	Description									
disable	Do not add HTTP header indicating SSL offload for WebSphere server.									
enable	Add HTTP header indicating SSL offload for WebSphere server.									
ssl-mode	Apply SSL offloading between the client and the FortiProxy (half) or from the client to the FortiProxy and from the FortiProxy to the server (full).	option	-	half						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>half</td><td>Client to FortiProxy SSL.</td></tr><tr><td>full</td><td>Client to FortiProxy and FortiProxy to Server SSL.</td></tr></table>	Option	Description	half	Client to FortiProxy SSL.	full	Client to FortiProxy and FortiProxy to Server SSL.			
Option	Description									
half	Client to FortiProxy SSL.									
full	Client to FortiProxy and FortiProxy to Server SSL.									
ssl-certificate <name>	Name of the certificate to use for SSL handshake. Certificate list.	string	Maximum length: 79							
ssl-dh-bits	Number of bits to use in the Diffie-Hellman exchange for RSA encryption of SSL sessions.	option	-	2048						

Parameter	Description	Type	Size	Default														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>768</td><td>768-bit Diffie-Hellman prime.</td></tr><tr><td>1024</td><td>1024-bit Diffie-Hellman prime.</td></tr><tr><td>1536</td><td>1536-bit Diffie-Hellman prime.</td></tr><tr><td>2048</td><td>2048-bit Diffie-Hellman prime.</td></tr><tr><td>3072</td><td>3072-bit Diffie-Hellman prime.</td></tr><tr><td>4096</td><td>4096-bit Diffie-Hellman prime.</td></tr></table>	Option	Description	768	768-bit Diffie-Hellman prime.	1024	1024-bit Diffie-Hellman prime.	1536	1536-bit Diffie-Hellman prime.	2048	2048-bit Diffie-Hellman prime.	3072	3072-bit Diffie-Hellman prime.	4096	4096-bit Diffie-Hellman prime.			
	Option	Description																
	768	768-bit Diffie-Hellman prime.																
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	2048	2048-bit Diffie-Hellman prime.																
	3072	3072-bit Diffie-Hellman prime.																
4096	4096-bit Diffie-Hellman prime.																	
ssl-algorithm	Permitted encryption algorithms for SSL sessions according to encryption strength.	option	-	high														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>high</td><td>High encryption. Allow only AES and ChaCha.</td></tr><tr><td>medium</td><td>Medium encryption. Allow AES, ChaCha, 3DES, and RC4.</td></tr><tr><td>low</td><td>Low encryption. Allow AES, ChaCha, 3DES, RC4, and DES.</td></tr><tr><td>custom</td><td>Custom encryption. Use config ssl-cipher-suites to select the cipher suites that are allowed.</td></tr></table>	Option	Description	high	High encryption. Allow only AES and ChaCha.	medium	Medium encryption. Allow AES, ChaCha, 3DES, and RC4.	low	Low encryption. Allow AES, ChaCha, 3DES, RC4, and DES.	custom	Custom encryption. Use config ssl-cipher-suites to select the cipher suites that are allowed.							
	Option	Description																
	high	High encryption. Allow only AES and ChaCha.																
	medium	Medium encryption. Allow AES, ChaCha, 3DES, and RC4.																
	low	Low encryption. Allow AES, ChaCha, 3DES, RC4, and DES.																
custom	Custom encryption. Use config ssl-cipher-suites to select the cipher suites that are allowed.																	
ssl-server-algorithm	Permitted encryption algorithms for the server side of SSL full mode sessions according to encryption strength.	option	-	client														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>high</td><td>High encryption. Allow only AES and ChaCha.</td></tr><tr><td>medium</td><td>Medium encryption. Allow AES, ChaCha, 3DES, and RC4.</td></tr><tr><td>low</td><td>Low encryption. Allow AES, ChaCha, 3DES, RC4, and DES.</td></tr><tr><td>custom</td><td>Custom encryption. Use ssl-server-cipher-suites to select the cipher suites that are allowed.</td></tr></table>	Option	Description	high	High encryption. Allow only AES and ChaCha.	medium	Medium encryption. Allow AES, ChaCha, 3DES, and RC4.	low	Low encryption. Allow AES, ChaCha, 3DES, RC4, and DES.	custom	Custom encryption. Use ssl-server-cipher-suites to select the cipher suites that are allowed.							
	Option	Description																
	high	High encryption. Allow only AES and ChaCha.																
	medium	Medium encryption. Allow AES, ChaCha, 3DES, and RC4.																
	low	Low encryption. Allow AES, ChaCha, 3DES, RC4, and DES.																
custom	Custom encryption. Use ssl-server-cipher-suites to select the cipher suites that are allowed.																	
	client	Use the same encryption algorithms for both client and server sessions.																
ssl-pfs	Select the cipher suites that can be used for SSL perfect forward secrecy (PFS). Applies to both client and server sessions.	option	-	require														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>require</td><td>Allow only Diffie-Hellman cipher-suites, so PFS is applied.</td></tr><tr><td>deny</td><td>Allow only non-Diffie-Hellman cipher-suites, so PFS is not applied.</td></tr></table>	Option	Description	require	Allow only Diffie-Hellman cipher-suites, so PFS is applied.	deny	Allow only non-Diffie-Hellman cipher-suites, so PFS is not applied.											
	Option	Description																
require	Allow only Diffie-Hellman cipher-suites, so PFS is applied.																	
deny	Allow only non-Diffie-Hellman cipher-suites, so PFS is not applied.																	

Parameter	Description	Type	Size	Default														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>allow</i></td><td>Allow use of any cipher suite so PFS may or may not be used depending on the cipher suite selected.</td></tr></table>	Option	Description	<i>allow</i>	Allow use of any cipher suite so PFS may or may not be used depending on the cipher suite selected.													
Option	Description																	
<i>allow</i>	Allow use of any cipher suite so PFS may or may not be used depending on the cipher suite selected.																	
ssl-min-version	Lowest SSL/TLS version acceptable from a client.	option	-	tls-1.1														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>ssl-3.0</i></td><td>SSL 3.0.</td></tr><tr><td><i>tls-1.0</i></td><td>TLS 1.0.</td></tr><tr><td><i>tls-1.1</i></td><td>TLS 1.1.</td></tr><tr><td><i>tls-1.2</i></td><td>TLS 1.2.</td></tr><tr><td><i>tls-1.3</i></td><td>TLS 1.3.</td></tr></table>	Option	Description	<i>ssl-3.0</i>	SSL 3.0.	<i>tls-1.0</i>	TLS 1.0.	<i>tls-1.1</i>	TLS 1.1.	<i>tls-1.2</i>	TLS 1.2.	<i>tls-1.3</i>	TLS 1.3.					
Option	Description																	
<i>ssl-3.0</i>	SSL 3.0.																	
<i>tls-1.0</i>	TLS 1.0.																	
<i>tls-1.1</i>	TLS 1.1.																	
<i>tls-1.2</i>	TLS 1.2.																	
<i>tls-1.3</i>	TLS 1.3.																	
ssl-max-version	Highest SSL/TLS version acceptable from a client.	option	-	tls-1.3														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>ssl-3.0</i></td><td>SSL 3.0.</td></tr><tr><td><i>tls-1.0</i></td><td>TLS 1.0.</td></tr><tr><td><i>tls-1.1</i></td><td>TLS 1.1.</td></tr><tr><td><i>tls-1.2</i></td><td>TLS 1.2.</td></tr><tr><td><i>tls-1.3</i></td><td>TLS 1.3.</td></tr></table>	Option	Description	<i>ssl-3.0</i>	SSL 3.0.	<i>tls-1.0</i>	TLS 1.0.	<i>tls-1.1</i>	TLS 1.1.	<i>tls-1.2</i>	TLS 1.2.	<i>tls-1.3</i>	TLS 1.3.					
Option	Description																	
<i>ssl-3.0</i>	SSL 3.0.																	
<i>tls-1.0</i>	TLS 1.0.																	
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<i>tls-1.2</i>	TLS 1.2.																	
<i>tls-1.3</i>	TLS 1.3.																	
ssl-server-min-version	Lowest SSL/TLS version acceptable from a server. Use the client setting by default.	option	-	client														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>ssl-3.0</i></td><td>SSL 3.0.</td></tr><tr><td><i>tls-1.0</i></td><td>TLS 1.0.</td></tr><tr><td><i>tls-1.1</i></td><td>TLS 1.1.</td></tr><tr><td><i>tls-1.2</i></td><td>TLS 1.2.</td></tr><tr><td><i>tls-1.3</i></td><td>TLS 1.3.</td></tr><tr><td><i>client</i></td><td>Use same value as client configuration.</td></tr></table>	Option	Description	<i>ssl-3.0</i>	SSL 3.0.	<i>tls-1.0</i>	TLS 1.0.	<i>tls-1.1</i>	TLS 1.1.	<i>tls-1.2</i>	TLS 1.2.	<i>tls-1.3</i>	TLS 1.3.	<i>client</i>	Use same value as client configuration.			
Option	Description																	
<i>ssl-3.0</i>	SSL 3.0.																	
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<i>tls-1.3</i>	TLS 1.3.																	
<i>client</i>	Use same value as client configuration.																	
ssl-server-max-version	Highest SSL/TLS version acceptable from a server. Use the client setting by default.	option	-	client														

Parameter	Description	Type	Size	Default														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>ssl-3.0</td><td>SSL 3.0.</td></tr><tr><td>tls-1.0</td><td>TLS 1.0.</td></tr><tr><td>tls-1.1</td><td>TLS 1.1.</td></tr><tr><td>tls-1.2</td><td>TLS 1.2.</td></tr><tr><td>tls-1.3</td><td>TLS 1.3.</td></tr><tr><td>client</td><td>Use same value as client configuration.</td></tr></table>	Option	Description	ssl-3.0	SSL 3.0.	tls-1.0	TLS 1.0.	tls-1.1	TLS 1.1.	tls-1.2	TLS 1.2.	tls-1.3	TLS 1.3.	client	Use same value as client configuration.			
	Option	Description																
	ssl-3.0	SSL 3.0.																
	tls-1.0	TLS 1.0.																
	tls-1.1	TLS 1.1.																
	tls-1.2	TLS 1.2.																
	tls-1.3	TLS 1.3.																
client	Use same value as client configuration.																	
ssl-accept-ffdhe-groups	Enable/disable FFDHE cipher suite for SSL key exchange.	option	-	enable														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Accept FFDHE groups.</td></tr><tr><td>disable</td><td>Do not accept FFDHE groups.</td></tr></table>	Option	Description	enable	Accept FFDHE groups.	disable	Do not accept FFDHE groups.											
	Option	Description																
	enable	Accept FFDHE groups.																
disable	Do not accept FFDHE groups.																	
ssl-send-empty-frags	Enable/disable sending empty fragments to avoid CBC IV attacks (SSL 3.0 & TLS 1.0 only). May need to be disabled for compatibility with older systems.	option	-	enable														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Send empty fragments.</td></tr><tr><td>disable</td><td>Do not send empty fragments.</td></tr></table>	Option	Description	enable	Send empty fragments.	disable	Do not send empty fragments.											
	Option	Description																
	enable	Send empty fragments.																
disable	Do not send empty fragments.																	
ssl-client-fallback	Enable/disable support for preventing Downgrade Attacks on client connections (RFC 7507).	option	-	enable														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>Disable.</td></tr><tr><td>enable</td><td>Enable.</td></tr></table>	Option	Description	disable	Disable.	enable	Enable.											
	Option	Description																
	disable	Disable.																
enable	Enable.																	
ssl-client-renegotiation	Allow, deny, or require secure renegotiation of client sessions to comply with RFC 5746.	option	-	secure														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>allow</td><td>Allow a SSL client to renegotiate.</td></tr><tr><td>deny</td><td>Abort any client initiated SSL re-negotiation attempt.</td></tr></table>	Option	Description	allow	Allow a SSL client to renegotiate.	deny	Abort any client initiated SSL re-negotiation attempt.											
	Option	Description																
	allow	Allow a SSL client to renegotiate.																
deny	Abort any client initiated SSL re-negotiation attempt.																	

Parameter	Description	Type	Size	Default										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>secure</i></td><td>Abort any client initiated SSL re-negotiation attempt that does not use RFC 5746 Secure Renegotiation.</td></tr></table>		Option	Description	<i>secure</i>	Abort any client initiated SSL re-negotiation attempt that does not use RFC 5746 Secure Renegotiation.								
	Option	Description												
<i>secure</i>	Abort any client initiated SSL re-negotiation attempt that does not use RFC 5746 Secure Renegotiation.													
ssl-client-session-state-type	How to expire SSL sessions for the segment of the SSL connection between the client and the FortiProxy.	option	-	both										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Do not keep session states.</td></tr><tr><td><i>time</i></td><td>Expire session states after this many minutes.</td></tr><tr><td><i>count</i></td><td>Expire session states when this maximum is reached.</td></tr><tr><td><i>both</i></td><td>Expire session states based on time or count, whichever occurs first.</td></tr></table>		Option	Description	<i>disable</i>	Do not keep session states.	<i>time</i>	Expire session states after this many minutes.	<i>count</i>	Expire session states when this maximum is reached.	<i>both</i>	Expire session states based on time or count, whichever occurs first.		
	Option	Description												
	<i>disable</i>	Do not keep session states.												
	<i>time</i>	Expire session states after this many minutes.												
	<i>count</i>	Expire session states when this maximum is reached.												
<i>both</i>	Expire session states based on time or count, whichever occurs first.													
ssl-client-session-state-timeout	Number of minutes to keep client to FortiProxy SSL session state.	integer	Minimum value: 1 Maximum value: 14400	30										
ssl-client-session-state-max	Maximum number of client to FortiProxy SSL session states to keep.	integer	Minimum value: 1 Maximum value: 10000	1000										
ssl-client-rekey-count	Maximum length of data in MB before triggering a client rekey (0 = disable).	integer	Minimum value: 200 Maximum value: 1048576	0										
ssl-server-renegotiation	Enable/disable secure renegotiation to comply with RFC 5746.	option	-	enable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable secure renegotiation.</td></tr><tr><td><i>disable</i></td><td>Disable secure renegotiation.</td></tr></table>		Option	Description	<i>enable</i>	Enable secure renegotiation.	<i>disable</i>	Disable secure renegotiation.						
	Option	Description												
	<i>enable</i>	Enable secure renegotiation.												
<i>disable</i>	Disable secure renegotiation.													
ssl-server-session-state-type	How to expire SSL sessions for the segment of the SSL connection between the server and the FortiProxy.	option	-	both										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Do not keep session states.</td></tr></table>		Option	Description	<i>disable</i>	Do not keep session states.								
	Option	Description												
<i>disable</i>	Do not keep session states.													

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>time</i>	Expire session states after this many minutes.		
	<i>count</i>	Expire session states when this maximum is reached.		
	<i>both</i>	Expire session states based on time or count, whichever occurs first.		
ssl-server-session-state-timeout	Number of minutes to keep FortiProxy to Server SSL session state.	integer	Minimum value: 1 Maximum value: 14400	60
ssl-server-session-state-max	Maximum number of FortiProxy to Server SSL session states to keep.	integer	Minimum value: 1 Maximum value: 10000	100
ssl-http-location-conversion	Enable to replace HTTP with HTTPS in the reply's Location HTTP header field.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable HTTP location conversion.		
	<i>disable</i>	Disable HTTP location conversion.		
ssl-http-match-host	Enable/disable HTTP host matching for location conversion.	option	-	enable
	Option	Description		
	<i>enable</i>	Match HTTP host in response header.		
	<i>disable</i>	Do not match HTTP host.		
ssl-hpkp	Enable/disable including HPKP header in response.	option	-	disable
	Option	Description		
	<i>disable</i>	Do not add a HPKP header to each HTTP response.		
	<i>enable</i>	Add a HPKP header to each a HTTP response.		
	<i>report-only</i>	Add a HPKP Report-Only header to each HTTP response.		
ssl-hpkp-primary	Certificate to generate primary HPKP pin from.	string	Maximum length: 79	
ssl-hpkp-backup	Certificate to generate backup HPKP pin from.	string	Maximum length: 79	

Parameter	Description	Type	Size	Default						
ssl-hpkp-age	Number of seconds the client should honor the HPKP setting.	integer	Minimum value: 60 Maximum value: 157680000	5184000						
ssl-hpkp-report-uri	URL to report HPKP violations to.	var-string	Maximum length: 255							
ssl-hpkp-include-subdomains	Indicate that HPKP header applies to all subdomains.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>HPKP header does not apply to subdomains.</td></tr><tr><td>enable</td><td>HPKP header applies to subdomains.</td></tr></table>				Option	Description	disable	HPKP header does not apply to subdomains.	enable	HPKP header applies to subdomains.
Option	Description									
disable	HPKP header does not apply to subdomains.									
enable	HPKP header applies to subdomains.									
ssl-hsts	Enable/disable including HSTS header in response.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>Do not add a HSTS header to each a HTTP response.</td></tr><tr><td>enable</td><td>Add a HSTS header to each HTTP response.</td></tr></table>				Option	Description	disable	Do not add a HSTS header to each a HTTP response.	enable	Add a HSTS header to each HTTP response.
Option	Description									
disable	Do not add a HSTS header to each a HTTP response.									
enable	Add a HSTS header to each HTTP response.									
ssl-hsts-age	Number of seconds the client should honor the HSTS setting.	integer	Minimum value: 60 Maximum value: 157680000	5184000						
ssl-hsts-include-subdomains	Indicate that HSTS header applies to all subdomains.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>HSTS header does not apply to subdomains.</td></tr><tr><td>enable</td><td>HSTS header applies to subdomains.</td></tr></table>				Option	Description	disable	HSTS header does not apply to subdomains.	enable	HSTS header applies to subdomains.
Option	Description									
disable	HSTS header does not apply to subdomains.									
enable	HSTS header applies to subdomains.									
max-embryonic-connections	Maximum number of incomplete connections.	integer	Minimum value: 0 Maximum value: 100000	1000						
one-click-gslb-server	Enable/disable one click GSLB server integration with FortiGSLB.	option	-	disable						

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable integration with FortiGSLB.		
	<i>enable</i>	Enable integration with FortiGSLB.		
gslb-hostname	Hostname to use within the configured FortiGSLB domain.	string	Maximum length: 35	
gslb-domain-name	Domain to use when integrating with FortiGSLB.	string	Maximum length: 255	

config quic

Parameter	Description	Type	Size	Default
max-idle-timeout	Maximum idle timeout milliseconds (1 - 60000, default = 30000).	integer	Minimum value: 1 Maximum value: 60000	30000
max-udp-payload-size	Maximum UDP payload size in bytes (1200 - 1500, default = 1500).	integer	Minimum value: 1200 Maximum value: 1500	1500
active-connection-id-limit	Active connection ID limit (1 - 8, default = 2).	integer	Minimum value: 1 Maximum value: 8	2
ack-delay-exponent	ACK delay exponent (1 - 20, default = 3).	integer	Minimum value: 1 Maximum value: 20	3
max-ack-delay	Maximum ACK delay in milliseconds (1 - 16383, default = 25).	integer	Minimum value: 1 Maximum value: 16383	25
max-datagram-frame-size	Maximum datagram frame size in bytes (1 - 1500, default = 1500).	integer	Minimum value: 1 Maximum value: 1500	1500
active-migration	Enable/disable active migration (default = disable).	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable active migration.		
	<i>disable</i>	Disable active migration.		
grease-quic-bit	Enable/disable grease QUIC bit (default = enable).	option	-	enable
	Option	Description		
	<i>enable</i>	Enable grease QUIC bit.		
	<i>disable</i>	Disable grease QUIC bit.		

config realservers

Parameter	Description	Type	Size	Default
id	Real server ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
type	Type of address.	option	-	ip
	Option	Description		
	<i>ip</i>	Standard IPv4 address.		
	<i>address</i>	Dynamic address object.		
address	Dynamic address of the real server.	string	Maximum length: 79	
ip	IP address of the real server.	user	Not Specified	
port	Port for communicating with the real server. Required if port forwarding is enabled.	integer	Minimum value: 1 Maximum value: 65535	0
status	Set the status of the real server to active so that it can accept traffic, or on standby or disabled so no traffic is sent.	option	-	active
	Option	Description		
	<i>active</i>	Server status active.		

Parameter	Description	Type	Size	Default						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>standby</i></td><td>Server status standby.</td></tr><tr><td><i>disable</i></td><td>Server status disable.</td></tr></table>	Option	Description	<i>standby</i>	Server status standby.	<i>disable</i>	Server status disable.			
Option	Description									
<i>standby</i>	Server status standby.									
<i>disable</i>	Server status disable.									
weight	Weight of the real server. If weighted load balancing is enabled, the server with the highest weight gets more connections.	integer	Minimum value: 1 Maximum value: 255	1						
holddown-interval	Time in seconds that the system waits before re-activating a previously down active server in the active-standby mode. This is to prevent any flapping issues.	integer	Minimum value: 30 Maximum value: 65535	300						
healthcheck	Enable to check the responsiveness of the real server before forwarding traffic.	option	-							
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable per server health check.</td></tr><tr><td><i>enable</i></td><td>Enable per server health check.</td></tr></table>	Option	Description	<i>disable</i>	Disable per server health check.	<i>enable</i>	Enable per server health check.			
Option	Description									
<i>disable</i>	Disable per server health check.									
<i>enable</i>	Enable per server health check.									
health-check- proto	Protocol of the health check monitor to use when polling to determine server's connectivity status.	option	-	ping						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>ping</i></td><td>Use PING to test the link with the server.</td></tr><tr><td><i>http</i></td><td>Use HTTP-GET to test the link with the server.</td></tr></table>	Option	Description	<i>ping</i>	Use PING to test the link with the server.	<i>http</i>	Use HTTP-GET to test the link with the server.			
Option	Description									
<i>ping</i>	Use PING to test the link with the server.									
<i>http</i>	Use HTTP-GET to test the link with the server.									
http-host	HTTP server domain name in HTTP header.	string	Maximum length: 63							
translate-host	Enable/disable translation of hostname/IP from virtual server to real server.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable virtual hostname/IP translation.</td></tr><tr><td><i>disable</i></td><td>Disable virtual hostname/IP translation.</td></tr></table>	Option	Description	<i>enable</i>	Enable virtual hostname/IP translation.	<i>disable</i>	Disable virtual hostname/IP translation.			
Option	Description									
<i>enable</i>	Enable virtual hostname/IP translation.									
<i>disable</i>	Disable virtual hostname/IP translation.									
max-connections	Max number of active connections that can be directed to the real server. When reached, sessions are sent to other real servers.	integer	Minimum value: 0 Maximum value: 2147483647	0						

Parameter	Description	Type	Size	Default
client-ip	Only clients in this IP range can connect to this real server.	user	Not Specified	
verify-cert	Enable/disable certificate verification of the real server.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable certificate verification.		
	<i>disable</i>	Disable certificate verification.		

config ssl-cipher-suites

Parameter	Description	Type	Size	Default
priority	SSL/TLS cipher suites priority.	integer	Minimum value: 0 Maximum value: 4294967295	0
cipher	Cipher suite name.	option	-	
	Option	Description		
	<i>TLS-AES-128-GCM-SHA256</i>	Cipher suite TLS-AES-128-GCM-SHA256.		
	<i>TLS-AES-256-GCM-SHA384</i>	Cipher suite TLS-AES-256-GCM-SHA384.		
	<i>TLS-CHACHA20-POLY1305-SHA256</i>	Cipher suite TLS-CHACHA20-POLY1305-SHA256.		
	<i>TLS-ECDHE-RSA-WITH-CHACHA20-POLY1305-SHA256</i>	Cipher suite TLS-ECDHE-RSA-WITH-CHACHA20-POLY1305-SHA256.		
	<i>TLS-ECDHE-ECDSA-WITH-CHACHA20-POLY1305-SHA256</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-CHACHA20-POLY1305-SHA256.		

Parameter	Description	Type	Size	Default
	Option	Description		
	TLS-DHE-RSA-WITH-CHACHA20-POLY1305-SHA256	Cipher suite TLS-DHE-RSA-WITH-CHACHA20-POLY1305-SHA256.		
	TLS-DHE-RSA-WITH-AES-128-CBC-SHA	Cipher suite TLS-DHE-RSA-WITH-AES-128-CBC-SHA.		
	TLS-DHE-RSA-WITH-AES-256-CBC-SHA	Cipher suite TLS-DHE-RSA-WITH-AES-256-CBC-SHA.		
	TLS-DHE-RSA-WITH-AES-128-CBC-SHA256	Cipher suite TLS-DHE-RSA-WITH-AES-128-CBC-SHA256.		
	TLS-DHE-RSA-WITH-AES-128-GCM-SHA256	Cipher suite TLS-DHE-RSA-WITH-AES-128-GCM-SHA256.		
	TLS-DHE-RSA-WITH-AES-256-CBC-SHA256	Cipher suite TLS-DHE-RSA-WITH-AES-256-CBC-SHA256.		
	TLS-DHE-RSA-WITH-AES-256-GCM-SHA384	Cipher suite TLS-DHE-RSA-WITH-AES-256-GCM-SHA384.		
	TLS-DHE-DSS-WITH-AES-128-CBC-SHA	Cipher suite TLS-DHE-DSS-WITH-AES-128-CBC-SHA.		
	TLS-DHE-DSS-WITH-AES-256-CBC-SHA	Cipher suite TLS-DHE-DSS-WITH-AES-256-CBC-SHA.		
	TLS-DHE-DSS-WITH-AES-128-CBC-SHA256	Cipher suite TLS-DHE-DSS-WITH-AES-128-CBC-SHA256.		
	TLS-DHE-DSS-WITH-AES-128-GCM-SHA256	Cipher suite TLS-DHE-DSS-WITH-AES-128-GCM-SHA256.		
TLS-DHE-DSS-WITH-AES-256-CBC-SHA256	Cipher suite TLS-DHE-DSS-WITH-AES-256-CBC-SHA256.			

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>TLS-DHE-DSS-WITH-AES-256-GCM-SHA384</i>	Cipher suite TLS-DHE-DSS-WITH-AES-256-GCM-SHA384.		
	<i>TLS-ECDHE-RSA-WITH-AES-128-CBC-SHA</i>	Cipher suite TLS-ECDHE-RSA-WITH-AES-128-CBC-SHA.		
	<i>TLS-ECDHE-RSA-WITH-AES-128-CBC-SHA256</i>	Cipher suite TLS-ECDHE-RSA-WITH-AES-128-CBC-SHA256.		
	<i>TLS-ECDHE-RSA-WITH-AES-128-GCM-SHA256</i>	Cipher suite TLS-ECDHE-RSA-WITH-AES-128-GCM-SHA256.		
	<i>TLS-ECDHE-RSA-WITH-AES-256-CBC-SHA</i>	Cipher suite TLS-ECDHE-RSA-WITH-AES-256-CBC-SHA.		
	<i>TLS-ECDHE-RSA-WITH-AES-256-CBC-SHA384</i>	Cipher suite TLS-ECDHE-RSA-WITH-AES-256-CBC-SHA384.		
	<i>TLS-ECDHE-RSA-WITH-AES-256-GCM-SHA384</i>	Cipher suite TLS-ECDHE-RSA-WITH-AES-256-GCM-SHA384.		
	<i>TLS-ECDHE-ECDSA-WITH-AES-128-CBC-SHA</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-128-CBC-SHA.		
	<i>TLS-ECDHE-ECDSA-WITH-AES-128-CBC-SHA256</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-128-CBC-SHA256.		
	<i>TLS-ECDHE-ECDSA-WITH-AES-128-GCM-SHA256</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-128-GCM-SHA256.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>TLS-ECDHE-ECDSA-WITH-AES-256-CBC-SHA</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-256-CBC-SHA.		
	<i>TLS-ECDHE-ECDSA-WITH-AES-256-CBC-SHA384</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-256-CBC-SHA384.		
	<i>TLS-ECDHE-ECDSA-WITH-AES-256-GCM-SHA384</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-256-GCM-SHA384.		
	<i>TLS-RSA-WITH-AES-128-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-AES-128-CBC-SHA.		
	<i>TLS-RSA-WITH-AES-256-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-AES-256-CBC-SHA.		
	<i>TLS-RSA-WITH-AES-128-CBC-SHA256</i>	Cipher suite TLS-RSA-WITH-AES-128-CBC-SHA256.		
	<i>TLS-RSA-WITH-AES-128-GCM-SHA256</i>	Cipher suite TLS-RSA-WITH-AES-128-GCM-SHA256.		
	<i>TLS-RSA-WITH-AES-256-CBC-SHA256</i>	Cipher suite TLS-RSA-WITH-AES-256-CBC-SHA256.		
	<i>TLS-RSA-WITH-AES-256-GCM-SHA384</i>	Cipher suite TLS-RSA-WITH-AES-256-GCM-SHA384.		
	<i>TLS-RSA-WITH-CAMELLIA-128-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-CAMELLIA-128-CBC-SHA.		
	<i>TLS-RSA-WITH-CAMELLIA-256-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-CAMELLIA-256-CBC-SHA.		

Parameter	Description	Type	Size	Default																						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>TLS-RSA-WITH-CAMELLIA-128-CBC-SHA256</td><td>Cipher suite TLS-RSA-WITH-CAMELLIA-128-CBC-SHA256.</td></tr><tr><td>TLS-RSA-WITH-CAMELLIA-256-CBC-SHA256</td><td>Cipher suite TLS-RSA-WITH-CAMELLIA-256-CBC-SHA256.</td></tr><tr><td>TLS-DHE-RSA-WITH-3DES-EDE-CBC-SHA</td><td>Cipher suite TLS-DHE-RSA-WITH-3DES-EDE-CBC-SHA.</td></tr><tr><td>TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA</td><td>Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA.</td></tr><tr><td>TLS-DHE-DSS-WITH-CAMELLIA-128-CBC-SHA</td><td>Cipher suite TLS-DSS-RSA-WITH-CAMELLIA-128-CBC-SHA.</td></tr><tr><td>TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA</td><td>Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA.</td></tr><tr><td>TLS-DHE-DSS-WITH-CAMELLIA-256-CBC-SHA</td><td>Cipher suite TLS-DHE-DSS-WITH-CAMELLIA-256-CBC-SHA.</td></tr><tr><td>TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA256</td><td>Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA256.</td></tr><tr><td>TLS-DHE-DSS-WITH-CAMELLIA-128-CBC-SHA256</td><td>Cipher suite TLS-DHE-DSS-WITH-CAMELLIA-128-CBC-SHA256.</td></tr><tr><td>TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA256</td><td>Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA256.</td></tr></table>	Option	Description	TLS-RSA-WITH-CAMELLIA-128-CBC-SHA256	Cipher suite TLS-RSA-WITH-CAMELLIA-128-CBC-SHA256.	TLS-RSA-WITH-CAMELLIA-256-CBC-SHA256	Cipher suite TLS-RSA-WITH-CAMELLIA-256-CBC-SHA256.	TLS-DHE-RSA-WITH-3DES-EDE-CBC-SHA	Cipher suite TLS-DHE-RSA-WITH-3DES-EDE-CBC-SHA.	TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA	Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA.	TLS-DHE-DSS-WITH-CAMELLIA-128-CBC-SHA	Cipher suite TLS-DSS-RSA-WITH-CAMELLIA-128-CBC-SHA.	TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA	Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA.	TLS-DHE-DSS-WITH-CAMELLIA-256-CBC-SHA	Cipher suite TLS-DHE-DSS-WITH-CAMELLIA-256-CBC-SHA.	TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA256	Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA256.	TLS-DHE-DSS-WITH-CAMELLIA-128-CBC-SHA256	Cipher suite TLS-DHE-DSS-WITH-CAMELLIA-128-CBC-SHA256.	TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA256	Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA256.			
Option	Description																									
TLS-RSA-WITH-CAMELLIA-128-CBC-SHA256	Cipher suite TLS-RSA-WITH-CAMELLIA-128-CBC-SHA256.																									
TLS-RSA-WITH-CAMELLIA-256-CBC-SHA256	Cipher suite TLS-RSA-WITH-CAMELLIA-256-CBC-SHA256.																									
TLS-DHE-RSA-WITH-3DES-EDE-CBC-SHA	Cipher suite TLS-DHE-RSA-WITH-3DES-EDE-CBC-SHA.																									
TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA	Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA.																									
TLS-DHE-DSS-WITH-CAMELLIA-128-CBC-SHA	Cipher suite TLS-DSS-RSA-WITH-CAMELLIA-128-CBC-SHA.																									
TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA	Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA.																									
TLS-DHE-DSS-WITH-CAMELLIA-256-CBC-SHA	Cipher suite TLS-DHE-DSS-WITH-CAMELLIA-256-CBC-SHA.																									
TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA256	Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA256.																									
TLS-DHE-DSS-WITH-CAMELLIA-128-CBC-SHA256	Cipher suite TLS-DHE-DSS-WITH-CAMELLIA-128-CBC-SHA256.																									
TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA256	Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA256.																									

Parameter	Description	Type	Size	Default
	Option	Description		
	TLS-DHE-DSS-WITH-CAMELLIA-256-CBC-SHA256	Cipher suite TLS-DHE-DSS-WITH-CAMELLIA-256-CBC-SHA256.		
	TLS-DHE-RSA-WITH-SEED-CBC-SHA	Cipher suite TLS-DHE-RSA-WITH-SEED-CBC-SHA.		
	TLS-DHE-DSS-WITH-SEED-CBC-SHA	Cipher suite TLS-DHE-DSS-WITH-SEED-CBC-SHA.		
	TLS-DHE-RSA-WITH-ARIA-128-CBC-SHA256	Cipher suite TLS-DHE-RSA-WITH-ARIA-128-CBC-SHA256.		
	TLS-DHE-RSA-WITH-ARIA-256-CBC-SHA384	Cipher suite TLS-DHE-RSA-WITH-ARIA-256-CBC-SHA384.		
	TLS-DHE-DSS-WITH-ARIA-128-CBC-SHA256	Cipher suite TLS-DHE-DSS-WITH-ARIA-128-CBC-SHA256.		
	TLS-DHE-DSS-WITH-ARIA-256-CBC-SHA384	Cipher suite TLS-DHE-DSS-WITH-ARIA-256-CBC-SHA384.		
	TLS-RSA-WITH-SEED-CBC-SHA	Cipher suite TLS-RSA-WITH-SEED-CBC-SHA.		
	TLS-RSA-WITH-ARIA-128-CBC-SHA256	Cipher suite TLS-RSA-WITH-ARIA-128-CBC-SHA256.		
	TLS-RSA-WITH-ARIA-256-CBC-SHA384	Cipher suite TLS-RSA-WITH-ARIA-256-CBC-SHA384.		
	TLS-ECDHE-RSA-WITH-ARIA-128-CBC-SHA256	Cipher suite TLS-ECDHE-RSA-WITH-ARIA-128-CBC-SHA256.		
TLS-ECDHE-RSA-WITH-ARIA-256-CBC-SHA384	Cipher suite TLS-ECDHE-RSA-WITH-ARIA-256-CBC-SHA384.			

Parameter	Description	Type	Size	Default																									
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>TLS-ECDHE-ECDSA-WITH-ARIA-128-CBC-SHA256</i></td><td>Cipher suite TLS-ECDHE-ECDSA-WITH-ARIA-128-CBC_SHA256.</td></tr><tr><td><i>TLS-ECDHE-ECDSA-WITH-ARIA-256-CBC-SHA384</i></td><td>Cipher suite TLS-ECDHE-ECDSA-WITH-ARIA-256-CBC_SHA384.</td></tr><tr><td><i>TLS-ECDHE-RSA-WITH-RC4-128-SHA</i></td><td>Cipher suite TLS-ECDHE-RSA-WITH-RC4-128-SHA.</td></tr><tr><td><i>TLS-ECDHE-RSA-WITH-3DES-EDE-CBC-SHA</i></td><td>Cipher suite TLS-ECDHE-RSA-WITH-3DES-EDE-CBC-SHA.</td></tr><tr><td><i>TLS-DHE-DSS-WITH-3DES-EDE-CBC-SHA</i></td><td>Cipher suite TLS-DHE-DSS-WITH-3DES-EDE-CBC-SHA.</td></tr><tr><td><i>TLS-RSA-WITH-3DES-EDE-CBC-SHA</i></td><td>Cipher suite TLS-RSA-WITH-3DES-EDE-CBC-SHA.</td></tr><tr><td><i>TLS-RSA-WITH-RC4-128-MD5</i></td><td>Cipher suite TLS-RSA-WITH-RC4-128-MD5.</td></tr><tr><td><i>TLS-RSA-WITH-RC4-128-SHA</i></td><td>Cipher suite TLS-RSA-WITH-RC4-128-SHA.</td></tr><tr><td><i>TLS-DHE-RSA-WITH-DES-CBC-SHA</i></td><td>Cipher suite TLS-DHE-RSA-WITH-DES-CBC-SHA.</td></tr><tr><td><i>TLS-DHE-DSS-WITH-DES-CBC-SHA</i></td><td>Cipher suite TLS-DHE-DSS-WITH-DES-CBC-SHA.</td></tr><tr><td><i>TLS-RSA-WITH-DES-CBC-SHA</i></td><td>Cipher suite TLS-RSA-WITH-DES-CBC-SHA.</td></tr></table>	Option	Description	<i>TLS-ECDHE-ECDSA-WITH-ARIA-128-CBC-SHA256</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-ARIA-128-CBC_SHA256.	<i>TLS-ECDHE-ECDSA-WITH-ARIA-256-CBC-SHA384</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-ARIA-256-CBC_SHA384.	<i>TLS-ECDHE-RSA-WITH-RC4-128-SHA</i>	Cipher suite TLS-ECDHE-RSA-WITH-RC4-128-SHA.	<i>TLS-ECDHE-RSA-WITH-3DES-EDE-CBC-SHA</i>	Cipher suite TLS-ECDHE-RSA-WITH-3DES-EDE-CBC-SHA.	<i>TLS-DHE-DSS-WITH-3DES-EDE-CBC-SHA</i>	Cipher suite TLS-DHE-DSS-WITH-3DES-EDE-CBC-SHA.	<i>TLS-RSA-WITH-3DES-EDE-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-3DES-EDE-CBC-SHA.	<i>TLS-RSA-WITH-RC4-128-MD5</i>	Cipher suite TLS-RSA-WITH-RC4-128-MD5.	<i>TLS-RSA-WITH-RC4-128-SHA</i>	Cipher suite TLS-RSA-WITH-RC4-128-SHA.	<i>TLS-DHE-RSA-WITH-DES-CBC-SHA</i>	Cipher suite TLS-DHE-RSA-WITH-DES-CBC-SHA.	<i>TLS-DHE-DSS-WITH-DES-CBC-SHA</i>	Cipher suite TLS-DHE-DSS-WITH-DES-CBC-SHA.	<i>TLS-RSA-WITH-DES-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-DES-CBC-SHA.				
	Option	Description																											
	<i>TLS-ECDHE-ECDSA-WITH-ARIA-128-CBC-SHA256</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-ARIA-128-CBC_SHA256.																											
	<i>TLS-ECDHE-ECDSA-WITH-ARIA-256-CBC-SHA384</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-ARIA-256-CBC_SHA384.																											
	<i>TLS-ECDHE-RSA-WITH-RC4-128-SHA</i>	Cipher suite TLS-ECDHE-RSA-WITH-RC4-128-SHA.																											
	<i>TLS-ECDHE-RSA-WITH-3DES-EDE-CBC-SHA</i>	Cipher suite TLS-ECDHE-RSA-WITH-3DES-EDE-CBC-SHA.																											
	<i>TLS-DHE-DSS-WITH-3DES-EDE-CBC-SHA</i>	Cipher suite TLS-DHE-DSS-WITH-3DES-EDE-CBC-SHA.																											
	<i>TLS-RSA-WITH-3DES-EDE-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-3DES-EDE-CBC-SHA.																											
	<i>TLS-RSA-WITH-RC4-128-MD5</i>	Cipher suite TLS-RSA-WITH-RC4-128-MD5.																											
	<i>TLS-RSA-WITH-RC4-128-SHA</i>	Cipher suite TLS-RSA-WITH-RC4-128-SHA.																											
	<i>TLS-DHE-RSA-WITH-DES-CBC-SHA</i>	Cipher suite TLS-DHE-RSA-WITH-DES-CBC-SHA.																											
<i>TLS-DHE-DSS-WITH-DES-CBC-SHA</i>	Cipher suite TLS-DHE-DSS-WITH-DES-CBC-SHA.																												
<i>TLS-RSA-WITH-DES-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-DES-CBC-SHA.																												
versions	SSL/TLS versions that the cipher suite can be used with.	option	-	ssl-3.0 tls-1.0 tls-1.1 tls-1.2 tls-1.3																									

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>ssl-3.0</i>	SSL 3.0.		
	<i>tls-1.0</i>	TLS 1.0.		
	<i>tls-1.1</i>	TLS 1.1.		
	<i>tls-1.2</i>	TLS 1.2.		
	<i>tls-1.3</i>	TLS 1.3.		

config ssl-server-cipher-suites

Parameter	Description	Type	Size	Default
priority	SSL/TLS cipher suites priority.	integer	Minimum value: 0 Maximum value: 4294967295	0
cipher	Cipher suite name.	option	-	
	Option	Description		
	<i>TLS-AES-128-GCM-SHA256</i>	Cipher suite TLS-AES-128-GCM-SHA256.		
	<i>TLS-AES-256-GCM-SHA384</i>	Cipher suite TLS-AES-256-GCM-SHA384.		
	<i>TLS-CHACHA20-POLY1305-SHA256</i>	Cipher suite TLS-CHACHA20-POLY1305-SHA256.		
	<i>TLS-ECDHE-RSA-WITH-CHACHA20-POLY1305-SHA256</i>	Cipher suite TLS-ECDHE-RSA-WITH-CHACHA20-POLY1305-SHA256.		
	<i>TLS-ECDHE-ECDSA-WITH-CHACHA20-POLY1305-SHA256</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-CHACHA20-POLY1305-SHA256.		

Parameter	Description	Type	Size	Default
	Option	Description		
	TLS-DHE-RSA-WITH-CHACHA20-POLY1305-SHA256	Cipher suite TLS-DHE-RSA-WITH-CHACHA20-POLY1305-SHA256.		
	TLS-DHE-RSA-WITH-AES-128-CBC-SHA	Cipher suite TLS-DHE-RSA-WITH-AES-128-CBC-SHA.		
	TLS-DHE-RSA-WITH-AES-256-CBC-SHA	Cipher suite TLS-DHE-RSA-WITH-AES-256-CBC-SHA.		
	TLS-DHE-RSA-WITH-AES-128-CBC-SHA256	Cipher suite TLS-DHE-RSA-WITH-AES-128-CBC-SHA256.		
	TLS-DHE-RSA-WITH-AES-128-GCM-SHA256	Cipher suite TLS-DHE-RSA-WITH-AES-128-GCM-SHA256.		
	TLS-DHE-RSA-WITH-AES-256-CBC-SHA256	Cipher suite TLS-DHE-RSA-WITH-AES-256-CBC-SHA256.		
	TLS-DHE-RSA-WITH-AES-256-GCM-SHA384	Cipher suite TLS-DHE-RSA-WITH-AES-256-GCM-SHA384.		
	TLS-DHE-DSS-WITH-AES-128-CBC-SHA	Cipher suite TLS-DHE-DSS-WITH-AES-128-CBC-SHA.		
	TLS-DHE-DSS-WITH-AES-256-CBC-SHA	Cipher suite TLS-DHE-DSS-WITH-AES-256-CBC-SHA.		
	TLS-DHE-DSS-WITH-AES-128-CBC-SHA256	Cipher suite TLS-DHE-DSS-WITH-AES-128-CBC-SHA256.		
	TLS-DHE-DSS-WITH-AES-128-GCM-SHA256	Cipher suite TLS-DHE-DSS-WITH-AES-128-GCM-SHA256.		
TLS-DHE-DSS-WITH-AES-256-CBC-SHA256	Cipher suite TLS-DHE-DSS-WITH-AES-256-CBC-SHA256.			

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>TLS-DHE-DSS-WITH-AES-256-GCM-SHA384</i>	Cipher suite TLS-DHE-DSS-WITH-AES-256-GCM-SHA384.		
	<i>TLS-ECDHE-RSA-WITH-AES-128-CBC-SHA</i>	Cipher suite TLS-ECDHE-RSA-WITH-AES-128-CBC-SHA.		
	<i>TLS-ECDHE-RSA-WITH-AES-128-CBC-SHA256</i>	Cipher suite TLS-ECDHE-RSA-WITH-AES-128-CBC-SHA256.		
	<i>TLS-ECDHE-RSA-WITH-AES-128-GCM-SHA256</i>	Cipher suite TLS-ECDHE-RSA-WITH-AES-128-GCM-SHA256.		
	<i>TLS-ECDHE-RSA-WITH-AES-256-CBC-SHA</i>	Cipher suite TLS-ECDHE-RSA-WITH-AES-256-CBC-SHA.		
	<i>TLS-ECDHE-RSA-WITH-AES-256-CBC-SHA384</i>	Cipher suite TLS-ECDHE-RSA-WITH-AES-256-CBC-SHA384.		
	<i>TLS-ECDHE-RSA-WITH-AES-256-GCM-SHA384</i>	Cipher suite TLS-ECDHE-RSA-WITH-AES-256-GCM-SHA384.		
	<i>TLS-ECDHE-ECDSA-WITH-AES-128-CBC-SHA</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-128-CBC-SHA.		
	<i>TLS-ECDHE-ECDSA-WITH-AES-128-CBC-SHA256</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-128-CBC-SHA256.		
<i>TLS-ECDHE-ECDSA-WITH-AES-128-GCM-SHA256</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-128-GCM-SHA256.			

Parameter	Description	Type	Size	Default
	Option	Description		
	TLS-ECDHE-ECDSA-WITH-AES-256-CBC-SHA	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-256-CBC-SHA.		
	TLS-ECDHE-ECDSA-WITH-AES-256-CBC-SHA384	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-256-CBC-SHA384.		
	TLS-ECDHE-ECDSA-WITH-AES-256-GCM-SHA384	Cipher suite TLS-ECDHE-ECDSA-WITH-AES-256-GCM-SHA384.		
	TLS-RSA-WITH-AES-128-CBC-SHA	Cipher suite TLS-RSA-WITH-AES-128-CBC-SHA.		
	TLS-RSA-WITH-AES-256-CBC-SHA	Cipher suite TLS-RSA-WITH-AES-256-CBC-SHA.		
	TLS-RSA-WITH-AES-128-CBC-SHA256	Cipher suite TLS-RSA-WITH-AES-128-CBC-SHA256.		
	TLS-RSA-WITH-AES-128-GCM-SHA256	Cipher suite TLS-RSA-WITH-AES-128-GCM-SHA256.		
	TLS-RSA-WITH-AES-256-CBC-SHA256	Cipher suite TLS-RSA-WITH-AES-256-CBC-SHA256.		
	TLS-RSA-WITH-AES-256-GCM-SHA384	Cipher suite TLS-RSA-WITH-AES-256-GCM-SHA384.		
	TLS-RSA-WITH-CAMELLIA-128-CBC-SHA	Cipher suite TLS-RSA-WITH-CAMELLIA-128-CBC-SHA.		
	TLS-RSA-WITH-CAMELLIA-256-CBC-SHA	Cipher suite TLS-RSA-WITH-CAMELLIA-256-CBC-SHA.		

Parameter	Description	Type	Size	Default																						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>TLS-RSA-WITH-CAMELLIA-128-CBC-SHA256</td><td>Cipher suite TLS-RSA-WITH-CAMELLIA-128-CBC-SHA256.</td></tr><tr><td>TLS-RSA-WITH-CAMELLIA-256-CBC-SHA256</td><td>Cipher suite TLS-RSA-WITH-CAMELLIA-256-CBC-SHA256.</td></tr><tr><td>TLS-DHE-RSA-WITH-3DES-EDE-CBC-SHA</td><td>Cipher suite TLS-DHE-RSA-WITH-3DES-EDE-CBC-SHA.</td></tr><tr><td>TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA</td><td>Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA.</td></tr><tr><td>TLS-DHE-DSS-WITH-CAMELLIA-128-CBC-SHA</td><td>Cipher suite TLS-DSS-RSA-WITH-CAMELLIA-128-CBC-SHA.</td></tr><tr><td>TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA</td><td>Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA.</td></tr><tr><td>TLS-DHE-DSS-WITH-CAMELLIA-256-CBC-SHA</td><td>Cipher suite TLS-DHE-DSS-WITH-CAMELLIA-256-CBC-SHA.</td></tr><tr><td>TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA256</td><td>Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA256.</td></tr><tr><td>TLS-DHE-DSS-WITH-CAMELLIA-128-CBC-SHA256</td><td>Cipher suite TLS-DHE-DSS-WITH-CAMELLIA-128-CBC-SHA256.</td></tr><tr><td>TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA256</td><td>Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA256.</td></tr></table>	Option	Description	TLS-RSA-WITH-CAMELLIA-128-CBC-SHA256	Cipher suite TLS-RSA-WITH-CAMELLIA-128-CBC-SHA256.	TLS-RSA-WITH-CAMELLIA-256-CBC-SHA256	Cipher suite TLS-RSA-WITH-CAMELLIA-256-CBC-SHA256.	TLS-DHE-RSA-WITH-3DES-EDE-CBC-SHA	Cipher suite TLS-DHE-RSA-WITH-3DES-EDE-CBC-SHA.	TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA	Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA.	TLS-DHE-DSS-WITH-CAMELLIA-128-CBC-SHA	Cipher suite TLS-DSS-RSA-WITH-CAMELLIA-128-CBC-SHA.	TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA	Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA.	TLS-DHE-DSS-WITH-CAMELLIA-256-CBC-SHA	Cipher suite TLS-DHE-DSS-WITH-CAMELLIA-256-CBC-SHA.	TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA256	Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA256.	TLS-DHE-DSS-WITH-CAMELLIA-128-CBC-SHA256	Cipher suite TLS-DHE-DSS-WITH-CAMELLIA-128-CBC-SHA256.	TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA256	Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA256.			
Option	Description																									
TLS-RSA-WITH-CAMELLIA-128-CBC-SHA256	Cipher suite TLS-RSA-WITH-CAMELLIA-128-CBC-SHA256.																									
TLS-RSA-WITH-CAMELLIA-256-CBC-SHA256	Cipher suite TLS-RSA-WITH-CAMELLIA-256-CBC-SHA256.																									
TLS-DHE-RSA-WITH-3DES-EDE-CBC-SHA	Cipher suite TLS-DHE-RSA-WITH-3DES-EDE-CBC-SHA.																									
TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA	Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA.																									
TLS-DHE-DSS-WITH-CAMELLIA-128-CBC-SHA	Cipher suite TLS-DSS-RSA-WITH-CAMELLIA-128-CBC-SHA.																									
TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA	Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA.																									
TLS-DHE-DSS-WITH-CAMELLIA-256-CBC-SHA	Cipher suite TLS-DHE-DSS-WITH-CAMELLIA-256-CBC-SHA.																									
TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA256	Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-128-CBC-SHA256.																									
TLS-DHE-DSS-WITH-CAMELLIA-128-CBC-SHA256	Cipher suite TLS-DHE-DSS-WITH-CAMELLIA-128-CBC-SHA256.																									
TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA256	Cipher suite TLS-DHE-RSA-WITH-CAMELLIA-256-CBC-SHA256.																									

Parameter	Description	Type	Size	Default
	Option	Description		
	TLS-DHE-DSS-WITH-CAMELLIA-256-CBC-SHA256	Cipher suite TLS-DHE-DSS-WITH-CAMELLIA-256-CBC-SHA256.		
	TLS-DHE-RSA-WITH-SEED-CBC-SHA	Cipher suite TLS-DHE-RSA-WITH-SEED-CBC-SHA.		
	TLS-DHE-DSS-WITH-SEED-CBC-SHA	Cipher suite TLS-DHE-DSS-WITH-SEED-CBC-SHA.		
	TLS-DHE-RSA-WITH-ARIA-128-CBC-SHA256	Cipher suite TLS-DHE-RSA-WITH-ARIA-128-CBC-SHA256.		
	TLS-DHE-RSA-WITH-ARIA-256-CBC-SHA384	Cipher suite TLS-DHE-RSA-WITH-ARIA-256-CBC-SHA384.		
	TLS-DHE-DSS-WITH-ARIA-128-CBC-SHA256	Cipher suite TLS-DHE-DSS-WITH-ARIA-128-CBC-SHA256.		
	TLS-DHE-DSS-WITH-ARIA-256-CBC-SHA384	Cipher suite TLS-DHE-DSS-WITH-ARIA-256-CBC-SHA384.		
	TLS-RSA-WITH-SEED-CBC-SHA	Cipher suite TLS-RSA-WITH-SEED-CBC-SHA.		
	TLS-RSA-WITH-ARIA-128-CBC-SHA256	Cipher suite TLS-RSA-WITH-ARIA-128-CBC-SHA256.		
	TLS-RSA-WITH-ARIA-256-CBC-SHA384	Cipher suite TLS-RSA-WITH-ARIA-256-CBC-SHA384.		
	TLS-ECDHE-RSA-WITH-ARIA-128-CBC-SHA256	Cipher suite TLS-ECDHE-RSA-WITH-ARIA-128-CBC-SHA256.		
TLS-ECDHE-RSA-WITH-ARIA-256-CBC-SHA384	Cipher suite TLS-ECDHE-RSA-WITH-ARIA-256-CBC-SHA384.			

Parameter	Description	Type	Size	Default																								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>TLS-ECDHE-ECDSA-WITH-ARIA-128-CBC-SHA256</i></td><td>Cipher suite TLS-ECDHE-ECDSA-WITH-ARIA-128-CBC_SHA256.</td></tr><tr><td><i>TLS-ECDHE-ECDSA-WITH-ARIA-256-CBC-SHA384</i></td><td>Cipher suite TLS-ECDHE-ECDSA-WITH-ARIA-256-CBC_SHA384.</td></tr><tr><td><i>TLS-ECDHE-RSA-WITH-RC4-128-SHA</i></td><td>Cipher suite TLS-ECDHE-RSA-WITH-RC4-128-SHA.</td></tr><tr><td><i>TLS-ECDHE-RSA-WITH-3DES-EDE-CBC-SHA</i></td><td>Cipher suite TLS-ECDHE-RSA-WITH-3DES-EDE-CBC-SHA.</td></tr><tr><td><i>TLS-DHE-DSS-WITH-3DES-EDE-CBC-SHA</i></td><td>Cipher suite TLS-DHE-DSS-WITH-3DES-EDE-CBC-SHA.</td></tr><tr><td><i>TLS-RSA-WITH-3DES-EDE-CBC-SHA</i></td><td>Cipher suite TLS-RSA-WITH-3DES-EDE-CBC-SHA.</td></tr><tr><td><i>TLS-RSA-WITH-RC4-128-MD5</i></td><td>Cipher suite TLS-RSA-WITH-RC4-128-MD5.</td></tr><tr><td><i>TLS-RSA-WITH-RC4-128-SHA</i></td><td>Cipher suite TLS-RSA-WITH-RC4-128-SHA.</td></tr><tr><td><i>TLS-DHE-RSA-WITH-DES-CBC-SHA</i></td><td>Cipher suite TLS-DHE-RSA-WITH-DES-CBC-SHA.</td></tr><tr><td><i>TLS-DHE-DSS-WITH-DES-CBC-SHA</i></td><td>Cipher suite TLS-DHE-DSS-WITH-DES-CBC-SHA.</td></tr><tr><td><i>TLS-RSA-WITH-DES-CBC-SHA</i></td><td>Cipher suite TLS-RSA-WITH-DES-CBC-SHA.</td></tr></table>	Option	Description	<i>TLS-ECDHE-ECDSA-WITH-ARIA-128-CBC-SHA256</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-ARIA-128-CBC_SHA256.	<i>TLS-ECDHE-ECDSA-WITH-ARIA-256-CBC-SHA384</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-ARIA-256-CBC_SHA384.	<i>TLS-ECDHE-RSA-WITH-RC4-128-SHA</i>	Cipher suite TLS-ECDHE-RSA-WITH-RC4-128-SHA.	<i>TLS-ECDHE-RSA-WITH-3DES-EDE-CBC-SHA</i>	Cipher suite TLS-ECDHE-RSA-WITH-3DES-EDE-CBC-SHA.	<i>TLS-DHE-DSS-WITH-3DES-EDE-CBC-SHA</i>	Cipher suite TLS-DHE-DSS-WITH-3DES-EDE-CBC-SHA.	<i>TLS-RSA-WITH-3DES-EDE-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-3DES-EDE-CBC-SHA.	<i>TLS-RSA-WITH-RC4-128-MD5</i>	Cipher suite TLS-RSA-WITH-RC4-128-MD5.	<i>TLS-RSA-WITH-RC4-128-SHA</i>	Cipher suite TLS-RSA-WITH-RC4-128-SHA.	<i>TLS-DHE-RSA-WITH-DES-CBC-SHA</i>	Cipher suite TLS-DHE-RSA-WITH-DES-CBC-SHA.	<i>TLS-DHE-DSS-WITH-DES-CBC-SHA</i>	Cipher suite TLS-DHE-DSS-WITH-DES-CBC-SHA.	<i>TLS-RSA-WITH-DES-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-DES-CBC-SHA.			
	Option	Description																										
	<i>TLS-ECDHE-ECDSA-WITH-ARIA-128-CBC-SHA256</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-ARIA-128-CBC_SHA256.																										
	<i>TLS-ECDHE-ECDSA-WITH-ARIA-256-CBC-SHA384</i>	Cipher suite TLS-ECDHE-ECDSA-WITH-ARIA-256-CBC_SHA384.																										
	<i>TLS-ECDHE-RSA-WITH-RC4-128-SHA</i>	Cipher suite TLS-ECDHE-RSA-WITH-RC4-128-SHA.																										
	<i>TLS-ECDHE-RSA-WITH-3DES-EDE-CBC-SHA</i>	Cipher suite TLS-ECDHE-RSA-WITH-3DES-EDE-CBC-SHA.																										
	<i>TLS-DHE-DSS-WITH-3DES-EDE-CBC-SHA</i>	Cipher suite TLS-DHE-DSS-WITH-3DES-EDE-CBC-SHA.																										
	<i>TLS-RSA-WITH-3DES-EDE-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-3DES-EDE-CBC-SHA.																										
	<i>TLS-RSA-WITH-RC4-128-MD5</i>	Cipher suite TLS-RSA-WITH-RC4-128-MD5.																										
	<i>TLS-RSA-WITH-RC4-128-SHA</i>	Cipher suite TLS-RSA-WITH-RC4-128-SHA.																										
<i>TLS-DHE-RSA-WITH-DES-CBC-SHA</i>	Cipher suite TLS-DHE-RSA-WITH-DES-CBC-SHA.																											
<i>TLS-DHE-DSS-WITH-DES-CBC-SHA</i>	Cipher suite TLS-DHE-DSS-WITH-DES-CBC-SHA.																											
<i>TLS-RSA-WITH-DES-CBC-SHA</i>	Cipher suite TLS-RSA-WITH-DES-CBC-SHA.																											
versions	SSL/TLS versions that the cipher suite can be used with.	option	-	ssl-3.0 tls-1.0 tls-1.1 tls-1.2 tls-1.3																								

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>ssl-3.0</i>	SSL 3.0.		
	<i>tls-1.0</i>	TLS 1.0.		
	<i>tls-1.1</i>	TLS 1.1.		
	<i>tls-1.2</i>	TLS 1.2.		
	<i>tls-1.3</i>	TLS 1.3.		

config gslb-public-ips

Parameter	Description	Type	Size	Default
index	Index of this public IP setting.	integer	Minimum value: 0 Maximum value: 4294967295	0
ip	The publicly accessible IP address.	ipv4-address-any	Not Specified	0.0.0.0

config firewall vipgrp

Configure IPv4 virtual IP groups.

```

config firewall vipgrp
    Description: Configure IPv4 virtual IP groups.
    edit <name>
        set uuid {uuid}
        set interface {string}
        set color {integer}
        set comments {var-string}
        set member <name1>, <name2>, ...
    next
end

```

config firewall vipgrp

Parameter	Description	Type	Size	Default
name	VIP group name.	string	Maximum length: 79	

Parameter	Description	Type	Size	Default
uuid	Universally Unique Identifier (UUID; automatically assigned but can be manually reset).	uuid	Not Specified	00000000-0000-0000-0000-000000000000
interface	Interface.	string	Maximum length: 35	
color	Integer value to determine the color of the icon in the GUI (range 1 to 32, default = 0, which sets the value to 1).	integer	Minimum value: 0 Maximum value: 32	0
comments	Comment.	var-string	Maximum length: 255	
member <name>	Member VIP objects of the group (Separate multiple objects with a space). VIP name.	string	Maximum length: 79	

config firewall wildcard-fqdn custom

Config global/VDOM Wildcard FQDN address.

```
config firewall wildcard-fqdn custom
    Description: Config global/VDOM Wildcard FQDN address.
    edit <name>
        set uuid {uuid}
        set wildcard-fqdn {string}
        set color {integer}
        set comment {var-string}
    next
end
```

config firewall wildcard-fqdn custom

Parameter	Description	Type	Size	Default
name	Address name.	string	Maximum length: 79	
uuid	Universally Unique Identifier (UUID; automatically assigned but can be manually reset).	uuid	Not Specified	00000000-0000-0000-0000-000000000000
wildcard-fqdn	Wildcard FQDN.	string	Maximum length: 255	

Parameter	Description	Type	Size	Default
color	GUI icon color.	integer	Minimum value: 0 Maximum value: 32	0
comment	Comment.	var-string	Maximum length: 255	

config firewall wildcard-fqdn group

Config global Wildcard FQDN address groups.

```
config firewall wildcard-fqdn group
  Description: Config global Wildcard FQDN address groups.
  edit <name>
    set uuid {uuid}
    set member <name1>, <name2>, ...
    set color {integer}
    set comment {var-string}
  next
end
```

config firewall wildcard-fqdn group

Parameter	Description	Type	Size	Default
name	Address group name.	string	Maximum length: 79	
uuid	Universally Unique Identifier (UUID; automatically assigned but can be manually reset).	uuid	Not Specified	00000000-0000-0000-0000-000000000000
member <name>	Address group members. Address name.	string	Maximum length: 79	
color	GUI icon color.	integer	Minimum value: 0 Maximum value: 32	0
comment	Comment.	var-string	Maximum length: 255	

ftp-proxy

This section includes syntax for the following commands:

- [config ftp-proxy explicit on page 456](#)

config ftp-proxy explicit

Configure explicit FTP proxy settings.

```
config ftp-proxy explicit
    Description: Configure explicit FTP proxy settings.
    set status [enable|disable]
    set incoming-port {user}
    set incoming-ip {ipv4-address-any}
    set outgoing-ip {ipv4-address-any}
    set sec-default-action [accept|deny]
    set server-data-mode [client|passive]
    set active-src-port [default|server]
    set ipv6-status [enable|disable]
    set incoming-ip6 {ipv6-address}
    set ssl [enable|disable]
    set ssl-cert <name1>, <name2>, ...
    set ssl-dh-bits [768|1024|...]
    set ssl-algorithm [high|medium|...]
end
```

config ftp-proxy explicit

Parameter	Description	Type	Size	Default
status	Enable/disable the explicit FTP proxy.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable the explicit FTP proxy.		
	<i>disable</i>	Disable the explicit FTP proxy.		
incoming-port	Accept incoming FTP requests on one or more ports.	user	Not Specified	
incoming-ip	Accept incoming FTP requests from this IP address. An interface must have this IP address.	ipv4-address-any	Not Specified	0.0.0.0

Parameter	Description	Type	Size	Default						
outgoing-ip	Outgoing FTP requests will leave from this IP address. An interface must have this IP address.	ipv4-address-any	Not Specified							
sec-default-action	Accept or deny explicit FTP proxy sessions when no FTP proxy firewall policy exists.	option	-	deny						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>accept</i></td><td>Accept requests. All explicit FTP proxy traffic is accepted whether there is an explicit FTP proxy policy or not</td></tr><tr><td><i>deny</i></td><td>Deny requests unless there is a matching explicit FTP proxy policy.</td></tr></table>	Option	Description	<i>accept</i>	Accept requests. All explicit FTP proxy traffic is accepted whether there is an explicit FTP proxy policy or not	<i>deny</i>	Deny requests unless there is a matching explicit FTP proxy policy.			
Option	Description									
<i>accept</i>	Accept requests. All explicit FTP proxy traffic is accepted whether there is an explicit FTP proxy policy or not									
<i>deny</i>	Deny requests unless there is a matching explicit FTP proxy policy.									
server-data-mode	Determine mode of data session on FTP server side.	option	-	client						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>client</i></td><td>Use the same transmission mode for client and server data sessions.</td></tr><tr><td><i>passive</i></td><td>Use passive mode on server data session.</td></tr></table>	Option	Description	<i>client</i>	Use the same transmission mode for client and server data sessions.	<i>passive</i>	Use passive mode on server data session.			
Option	Description									
<i>client</i>	Use the same transmission mode for client and server data sessions.									
<i>passive</i>	Use passive mode on server data session.									
active-src-port	Determine port for data session to connect FTP client in active mode.	option	-	default						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>default</i></td><td>Use the incoming port - 1 to connect client data session in active mode.</td></tr><tr><td><i>server</i></td><td>Use the same port as FTP server source port to connect client data session in active mode.</td></tr></table>	Option	Description	<i>default</i>	Use the incoming port - 1 to connect client data session in active mode.	<i>server</i>	Use the same port as FTP server source port to connect client data session in active mode.			
Option	Description									
<i>default</i>	Use the incoming port - 1 to connect client data session in active mode.									
<i>server</i>	Use the same port as FTP server source port to connect client data session in active mode.									
ipv6-status	Enable/disable allowing an IPv6 ftp proxy destination in policies and all IPv6 related entries in this command.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable allowing an IPv6 ftp proxy destination.</td></tr><tr><td><i>disable</i></td><td>Disable allowing an IPv6 ftp proxy destination.</td></tr></table>	Option	Description	<i>enable</i>	Enable allowing an IPv6 ftp proxy destination.	<i>disable</i>	Disable allowing an IPv6 ftp proxy destination.			
Option	Description									
<i>enable</i>	Enable allowing an IPv6 ftp proxy destination.									
<i>disable</i>	Disable allowing an IPv6 ftp proxy destination.									
incoming-ip6	Restrict the explicit ftp proxy to only accept sessions from this IPv6 address. An interface must have this IPv6 address.	ipv6-address	Not Specified	::						
ssl	Enable/disable the explicit FTPS proxy.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable the explicit FTPS proxy.</td></tr><tr><td><i>disable</i></td><td>Disable the explicit FTPS proxy.</td></tr></table>	Option	Description	<i>enable</i>	Enable the explicit FTPS proxy.	<i>disable</i>	Disable the explicit FTPS proxy.			
Option	Description									
<i>enable</i>	Enable the explicit FTPS proxy.									
<i>disable</i>	Disable the explicit FTPS proxy.									

Parameter	Description	Type	Size	Default
ssl-cert <name>	List of certificate names to use for SSL connections to this server. Certificate list.	string	Maximum length: 79	
ssl-dh-bits	Bit-size of Diffie-Hellman (DH) prime used in DHE-RSA negotiation (default = 2048).	option	-	2048
	Option		Description	
	768		768-bit Diffie-Hellman prime.	
	1024		1024-bit Diffie-Hellman prime.	
	1536		1536-bit Diffie-Hellman prime.	
	2048		2048-bit Diffie-Hellman prime.	
ssl-algorithm	Relative strength of encryption algorithms accepted in negotiation.	option	-	high
	Option		Description	
	high		High encryption. Allow only AES and ChaCha	
	medium		Medium encryption. Allow AES, ChaCha, 3DES, and RC4.	
	low		Low encryption. Allow AES, ChaCha, 3DES, RC4, and DES.	

hardware

This section includes syntax for the following commands:

- [config hardware cpu on page 459](#)
- [config hardware memory on page 459](#)
- [config hardware nic on page 459](#)
- [config hardware status on page 460](#)

config hardware cpu

Display detailed information for all installed CPU(s).

```
config hardware cpu
    Description: Display detailed information for all installed CPU(s).
end
```

config hardware memory

Display system memory information.

```
config hardware memory
    Description: Display system memory information.
end
```

config hardware nic

Display NIC information.

```
config hardware nic
    Description: Display NIC information.
    set <nic> {string}
end
```

config hardware nic

Parameter	Description	Type	Size	Default
<nic>	NIC name.	string	Maximum length: -	

config hardware status

Hardware status.

```
config hardware status
    Description: Hardware status.
end
```


icap

This section includes syntax for the following commands:

- [config icap local-server on page 461](#)
- [config icap profile on page 464](#)
- [config icap remote-server-group on page 474](#)
- [config icap remote-server on page 472](#)

config icap local-server

Configure ICAP local server.

```
config icap local-server
  Description: Configure ICAP local server.
  edit <icap-server-id>
    set status [disable|enable]
    set secure-connection [disable|enable]
    set status-ipv6 [disable|enable]
    set icap-incoming-port {integer}
    set icap-incoming-ssl-port {integer}
    set interface {string}
    set incoming-ip {ipv4-address-any}
    set incoming-ipv6 {ipv6-address}
    set ssl-cert <name1>, <name2>, ...
    set strict-scheme-check [disable|enable]
    set message-preview [disable|enable]
    set srcaddr {string}
    set timeout {integer}
  config icap-service
    Description: Set up services for local ICAP server.
    edit <service-id>
      set name {string}
      set dlp-profile {string}
      set av-profile {string}
      set webfilter-profile {string}
      set image-analyzer-profile {string}
      set profile-protocol-options {string}
      set extension-headers {option1}, {option2}, ...
    next
  end
next
end
```

config icap local-server

Parameter	Description	Type	Size	Default						
icap-server-id	ICAP local server id.	integer	Minimum value: 0 Maximum value: 65535	0						
status	Enable/disable status for icap server network profile.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>Disable the status for ipv4 in network-profile.</td></tr><tr><td>enable</td><td>Enable the status for ipv4 in network-profile.</td></tr></table>				Option	Description	disable	Disable the status for ipv4 in network-profile.	enable	Enable the status for ipv4 in network-profile.
	Option	Description								
	disable	Disable the status for ipv4 in network-profile.								
enable	Enable the status for ipv4 in network-profile.									
secure-connection	Enable/disable status for secured icap server network profile.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>Disable the status for ipv4 ssl in network-profile.</td></tr><tr><td>enable</td><td>Enable the status for ipv4 ssl in network-profile.</td></tr></table>				Option	Description	disable	Disable the status for ipv4 ssl in network-profile.	enable	Enable the status for ipv4 ssl in network-profile.
	Option	Description								
	disable	Disable the status for ipv4 ssl in network-profile.								
enable	Enable the status for ipv4 ssl in network-profile.									
status-ipv6	Enable/disable status for icap server service ipv6.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>Disable the status for ipv6 in network-profile.</td></tr><tr><td>enable</td><td>Enable the status for ipv6 in network-profile.</td></tr></table>				Option	Description	disable	Disable the status for ipv6 in network-profile.	enable	Enable the status for ipv6 in network-profile.
	Option	Description								
	disable	Disable the status for ipv6 in network-profile.								
enable	Enable the status for ipv6 in network-profile.									
icap-incoming-port	Accept incoming ICAP requests on a port (0 - 65535, default = 1344).	integer	Minimum value: 1 Maximum value: 65535	1344						
icap-incoming-ssl-port	Accept incoming secured ICAP requests on a port (0 - 65535, default = 11344).	integer	Minimum value: 1 Maximum value: 65535	11344						
interface	Interface name	string	Maximum length: 15							
incoming-ip	Restrict the ICAP server to only accept sessions from this IP address. An interface must have this IP address.	ipv4-address-any	Not Specified	0.0.0.0						

Parameter	Description	Type	Size	Default						
incoming-ipv6	Restrict the ICAP server to only accept sessions from this IPv6 address. An interface must have this IPv6 address.	ipv6-address	Not Specified	::						
ssl-cert <name>	SSL certificate for SSL interception. Certificate list.	string	Maximum length: 79							
strict-scheme-check	Enable/disable strict check of scheme.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable strict check of scheme.</td></tr><tr><td><i>enable</i></td><td>Enable strict check of scheme.</td></tr></table>				Option	Description	<i>disable</i>	Disable strict check of scheme.	<i>enable</i>	Enable strict check of scheme.
Option	Description									
<i>disable</i>	Disable strict check of scheme.									
<i>enable</i>	Enable strict check of scheme.									
message-preview	Enable/disable message preview support. Max preview data length is 4096 bytes.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable message preview support.</td></tr><tr><td><i>enable</i></td><td>Enable message preview support.</td></tr></table>				Option	Description	<i>disable</i>	Disable message preview support.	<i>enable</i>	Enable message preview support.
Option	Description									
<i>disable</i>	Disable message preview support.									
<i>enable</i>	Enable message preview support.									
srcaddr	Source address name.	string	Maximum length: 79							
timeout	ICAP server idle timeout in seconds.	integer	Minimum value: 30 Maximum value: 3600	300						

config icap-service

Parameter	Description	Type	Size	Default
service-id	ID of the ICAP server service.	integer	Minimum value: 0 Maximum value: 65535	0
name	Name of ICAP service profile.	string	Maximum length: 35	
dlp-profile	Name of an existing DLP profile.	string	Maximum length: 35	
av-profile	Name of an existing Antivirus profile.	string	Maximum length: 35	

Parameter	Description	Type	Size	Default								
webfilter-profile	Name of an existing Web filter profile.	string	Maximum length: 35									
image-analyzer-profile	Name of an existing Image analyzer profile.	string	Maximum length: 35									
profile-protocol-options	Name of an existing Protocol options profile.	string	Maximum length: 35	default								
extension-headers	Configure the extension headers of icap server response.	option	-									
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>X-Virus-id</td><td>Enable X-Virus-ID ICAP extension header.</td></tr><tr><td>X-Infection-Found</td><td>Enable X-Infection-Found ICAP extension header.</td></tr><tr><td>X-Violation-Found</td><td>Enable X-Violation-Found ICAP extension header.</td></tr></table>				Option	Description	X-Virus-id	Enable X-Virus-ID ICAP extension header.	X-Infection-Found	Enable X-Infection-Found ICAP extension header.	X-Violation-Found	Enable X-Violation-Found ICAP extension header.
Option	Description											
X-Virus-id	Enable X-Virus-ID ICAP extension header.											
X-Infection-Found	Enable X-Infection-Found ICAP extension header.											
X-Violation-Found	Enable X-Violation-Found ICAP extension header.											

config icap profile

Configure ICAP profiles.

```

config icap profile
    Description: Configure ICAP profiles.
    edit <name>
        set replacemsg-group {string}
        set comment {var-string}
        set request [disable|enable]
        set response [disable|enable]
        set file-transfer {option1}, {option2}, ...
        set streaming-content-bypass [disable|enable]
        set ocr_only [disable|enable]
        set 204-size-limit {integer}
        set 204-response [disable|enable]
        set preview [disable|enable]
        set preview-data-length {integer}
        set request-server {string}
        set response-server {string}
        set file-transfer-server {string}
        set request-failure [error|bypass]
        set response-failure [error|bypass]
        set file-transfer-failure [error|bypass]
        set request-path {string}
        set response-path {string}
        set file-transfer-path {string}
        set methods {option1}, {option2}, ...

```

```

set response-req-hdr [disable|enable]
set respmod-default-action [forward|bypass]
set icap-block-log [disable|enable]
set chunk-encap [disable|enable]
set extension-feature {option1}, {option2}, ...
set scan-progress-interval {integer}
set timeout {integer}
set scan-size-limit {integer}
set scan-oversize-log [disable|enable]
config icap-headers
    Description: Configure ICAP forwarded request headers.
    edit <id>
        set name {string}
        set source [content|http-header|...]
        set content {string}
        set http-header {string}
        set session-info-type [client-ip|user|...]
        set base64-encoding [disable|enable]
    next
end
config respmod-forward-rules
    Description: ICAP response mode forward rules.
    edit <name>
        set host {string}
        config header-group
            Description: HTTP header group.
            edit <id>
                set header-name {string}
                set header {string}
                set case-sensitivity [disable|enable]
            next
        end
        set action [forward|bypass]
        set http-resp-status-code <code1>, <code2>, ...
    next
end
next
end

```

config icap profile

Parameter	Description	Type	Size	Default
replacemsg-group	Replacement message group.	string	Maximum length: 35	
name	ICAP profile name.	string	Maximum length: 35	
comment	Comment.	var-string	Maximum length: 255	
request	Enable/disable whether an HTTP request is passed to an ICAP server.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable HTTP request passing to ICAP server.		
	<i>enable</i>	Enable HTTP request passing to ICAP server.		
response	Enable/disable whether an HTTP response is passed to an ICAP server.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable HTTP response passing to ICAP server.		
	<i>enable</i>	Enable HTTP response passing to ICAP server.		
file-transfer	Configure the file transfer protocols to pass transferred files to an ICAP server as REQMOD.	option	-	
	Option	Description		
	<i>ssh</i>	Forward file transfer with SSH protocol to ICAP server for further processing.		
	<i>ftp</i>	Forward file transfer with FTP protocol to ICAP server for further processing.		
streaming-content-bypass	Enable/disable bypassing of ICAP server for streaming content.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable bypassing of ICAP server for streaming content.		
	<i>enable</i>	Enable bypassing of ICAP server for streaming content.		
ocr_only	Enable/disable only passing OCR scan request to ICAP server.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable only passing OCR scan request to ICAP server.		
	<i>enable</i>	Enable only passing OCR scan request to ICAP server.		
204-size-limit	Allow 204 size limit to be saved by ICAP client. (default = 1 MB)	integer	Minimum value: 1 Maximum value: 10	1
204-response	Enable/disable allowance of 204 response from ICAP server.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable allowance of 204 response from ICAP server.		
	<i>enable</i>	Enable allowance of 204 response from ICAP server.		
preview	Enable/disable preview of data to ICAP server.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable preview of data to ICAP server.		
	<i>enable</i>	Enable preview of data to ICAP server.		
preview-data-length	Preview data length to be sent to ICAP server.	integer	Minimum value: 0 Maximum value: 4096	0
request-server	ICAP server to use for an HTTP request.	string	Maximum length: 63	
response-server	ICAP server to use for an HTTP response.	string	Maximum length: 63	
file-transfer-server	ICAP server to use for a file transfer.	string	Maximum length: 63	
request-failure	Action to take if the ICAP server cannot be contacted when processing an HTTP request.	option	-	error
	Option	Description		
	<i>error</i>	Error.		
	<i>bypass</i>	Bypass.		
response-failure	Action to take if the ICAP server cannot be contacted when processing an HTTP response.	option	-	error
	Option	Description		
	<i>error</i>	Error.		
	<i>bypass</i>	Bypass.		
file-transfer-failure	Action to take if the ICAP server cannot be contacted when processing a file transfer.	option	-	error
	Option	Description		
	<i>error</i>	Error.		
	<i>bypass</i>	Bypass.		

Parameter	Description	Type	Size	Default
request-path	Path component of the ICAP URI that identifies the HTTP request processing service.	string	Maximum length: 127	
response-path	Path component of the ICAP URI that identifies the HTTP response processing service.	string	Maximum length: 127	
file-transfer-path	Path component of the ICAP URI that identifies the file transfer processing service.	string	Maximum length: 127	
methods	The allowed HTTP methods that will be sent to ICAP server for further processing.	option	-	delete get head options post put trace connect other

Option	Description
<i>delete</i>	Forward HTTP request or response with DELETE method to ICAP server for further processing.
<i>get</i>	Forward HTTP request or response with GET method to ICAP server for further processing.
<i>head</i>	Forward HTTP request or response with HEAD method to ICAP server for further processing.
<i>options</i>	Forward HTTP request or response with OPTIONS method to ICAP server for further processing.
<i>post</i>	Forward HTTP request or response with POST method to ICAP server for further processing.
<i>put</i>	Forward HTTP request or response with PUT method to ICAP server for further processing.
<i>trace</i>	Forward HTTP request or response with TRACE method to ICAP server for further processing.
<i>connect</i>	Forward HTTP request or response with CONNECT method to ICAP server for further processing.
<i>other</i>	Forward HTTP request or response with All other methods to ICAP server for further processing.

response-req-hdr	Enable/disable addition of req-hdr for ICAP response modification (respmod) processing.	option	-	enable

Option	Description
<i>disable</i>	Do not add req-hdr for response modification (respmod) processing.

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Add req-hdr for response modification (respmod) processing.		
respmod-default-action	Default action to ICAP response modification (respmod) processing.	option	-	forward
	Option	Description		
	<i>forward</i>	Forward response to ICAP server unless a rule specifies not to.		
	<i>bypass</i>	Don't forward request to ICAP server unless a rule specifies to forward the request.		
icap-block-log	Enable/disable UTM log when infection found (default = disable).	option	-	disable
	Option	Description		
	<i>disable</i>	Disable UTM log when infection found.		
	<i>enable</i>	Enable UTM log when infection found.		
chunk-encap	Enable/disable chunked encapsulation (default = disable).	option	-	disable
	Option	Description		
	<i>disable</i>	Do not encapsulate chunked data.		
	<i>enable</i>	Encapsulate chunked data into a new chunk.		
extension-feature	Enable/disable ICAP extension features.	option	-	
	Option	Description		
	<i>scan-progress</i>	Support X-Scan-Progress-Interval ICAP header.		
scan-progress-interval	Scan progress interval value.	integer	Minimum value: 5 Maximum value: 30	10
timeout	Time (in seconds) that ICAP client waits for the response from ICAP server.	integer	Minimum value: 30 Maximum value: 3600	30

Parameter	Description	Type	Size	Default						
scan-size-limit	ICAP server scan size limit for an single request. (0 - 4096 MB, default = 0 MB means unlimited)	integer	Minimum value: 0 Maximum value: 4096	0						
scan-oversize-log	Enable/disable scan oversize log (default = enable).	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable scan oversize log.</td></tr><tr><td><i>enable</i></td><td>Enable scan oversize log.</td></tr></table>	Option	Description	<i>disable</i>	Disable scan oversize log.	<i>enable</i>	Enable scan oversize log.			
Option	Description									
<i>disable</i>	Disable scan oversize log.									
<i>enable</i>	Enable scan oversize log.									

config icap-headers

Parameter	Description	Type	Size	Default								
id	HTTP forwarded header ID.	integer	Minimum value: 0 Maximum value: 4294967295	0								
name	HTTP forwarded header name.	string	Maximum length: 79									
source	HTTP append header source.	option	-	content								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>content</i></td><td>Create ICAP header from content.</td></tr><tr><td><i>http-header</i></td><td>Create ICAP header from HTTP header.</td></tr><tr><td><i>session</i></td><td>Create ICAP header from session info.</td></tr></table>				Option	Description	<i>content</i>	Create ICAP header from content.	<i>http-header</i>	Create ICAP header from HTTP header.	<i>session</i>	Create ICAP header from session info.
Option	Description											
<i>content</i>	Create ICAP header from content.											
<i>http-header</i>	Create ICAP header from HTTP header.											
<i>session</i>	Create ICAP header from session info.											
content	HTTP header content.	string	Maximum length: 255									
http-header	HTTP header-field name.	string	Maximum length: 79									
session-info-type	Session info type.	option	-	client-ip								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>client-ip</i></td><td>Client ip address.</td></tr><tr><td><i>user</i></td><td>Authentication user name.</td></tr></table>				Option	Description	<i>client-ip</i>	Client ip address.	<i>user</i>	Authentication user name.		
Option	Description											
<i>client-ip</i>	Client ip address.											
<i>user</i>	Authentication user name.											

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>upn</i>	Authentication user principal name.		
	<i>domain</i>	User domain name.		
	<i>local-grp</i>	Firewall group name.		
	<i>remote-grp</i>	Group name from authentication server.		
	<i>proxy-name</i>	Proxy realm name.		
	<i>auth-user-uri</i>	Authenticated user uri.		
	<i>auth-group-uri</i>	Authenticated group uri.		
base64-encoding	Enable/disable use of base64 encoding of HTTP content.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable use of base64 encoding of HTTP content.		
	<i>enable</i>	Enable use of base64 encoding of HTTP content.		

config respmod-forward-rules

Parameter	Description	Type	Size	Default						
name	Address name.	string	Maximum length: 63							
host	Address object for the host.	string	Maximum length: 79							
action	Action to be taken for ICAP server.	option	-	forward						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>forward</i></td><td>Forward request to ICAP server when this rule is matched.</td></tr><tr><td><i>bypass</i></td><td>Don't forward request to ICAP server when this rule is matched.</td></tr></table>				Option	Description	<i>forward</i>	Forward request to ICAP server when this rule is matched.	<i>bypass</i>	Don't forward request to ICAP server when this rule is matched.
Option	Description									
<i>forward</i>	Forward request to ICAP server when this rule is matched.									
<i>bypass</i>	Don't forward request to ICAP server when this rule is matched.									
http-resp-status-code <code>	HTTP response status code. HTTP response status code.	integer	Minimum value: 100 Maximum value: 599							

config header-group

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
header-name	HTTP header.	string	Maximum length: 79	
header	HTTP header regular expression.	string	Maximum length: 255	
case-sensitivity	Enable/disable case sensitivity when matching header.	option	-	disable
		Option	Description	
		<i>disable</i>	Ignore case when matching header.	
		<i>enable</i>	Do not ignore case when matching header.	

config icap remote-server

Configure ICAP servers.

```
config icap remote-server
  Description: Configure ICAP servers.
  edit <name>
    set addr-type [ip4|ip6|...]
    set ip-address {ipv4-address-any}
    set ip6-address {ipv6-address}
    set fqdn {string}
    set secure [disable|enable]
    set port {integer}
    set max-connections {integer}
    set ssl-cert {string}
    set validate-server-certificate [disable|enable]
    set healthcheck [disable|enable]
    set healthcheck-service {string}
  next
end
```

config icap remote-server

Parameter	Description	Type	Size	Default
name	Server name.	string	Maximum length: 63	
addr-type	Address type of the remote ICAP server: IPv4, IPv6 or FQDN.	option	-	ip4
	Option	Description		
	<i>ip4</i>	Use an IPv4 address for the remote ICAP server.		
	<i>ip6</i>	Use an IPv6 address for the remote ICAP server.		
	<i>fqdn</i>	Use the FQDN for the remote ICAP server.		
ip-address	IPv4 address of the ICAP server.	ipv4-address-any	Not Specified	0.0.0.0
ip6-address	IPv6 address of the ICAP server.	ipv6-address	Not Specified	::
fqdn	ICAP remote server Fully Qualified Domain Name (FQDN).	string	Maximum length: 255	
secure	Enable/disable secure connection to ICAP server.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable connection to secure ICAP server.		
	<i>enable</i>	Enable connection to secure ICAP server.		
port	ICAP server port.	integer	Minimum value: 1 Maximum value: 65535	1344
max-connections	Maximum number of concurrent connections to ICAP server (unlimited = 0, default = 100). Must not be less than wad-worker-count.	integer	Minimum value: 0 Maximum value: 4294967295	100
ssl-cert	CA certificate name.	string	Maximum length: 79	
validate-server-certificate	Enable/disable icap server certificate validation.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable validation of server certificate.		
	<i>enable</i>	Enable validation of server certificate.		
healthcheck	Enable/disable ICAP remote server health checking. Attempts to connect to the remote ICAP server to verify that the server is operating normally.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable health checking.		
	<i>enable</i>	Enable health checking.		
healthcheck-service	ICAP Service name to use for health checks.	string	Maximum length: 127	

config icap remote-server-group

Configure an ICAP remote server group consisting of multiple forward servers. Supports failover and load balancing.

```
config icap remote-server-group
    Description: Configure an ICAP remote server group consisting of multiple forward
servers. Supports failover and load balancing.
    edit <name>
        set ldb-method [weighted|least-session|...]
        config server-list
            Description: Add ICAP remote servers to a list to form a server group.
Optionally assign weights to each server.
            edit <name>
                set weight {integer}
            next
        end
    next
end
```

config icap remote-server-group

Parameter	Description	Type	Size	Default
name	Configure an ICAP remote server group consisting one or multiple forward servers. Supports failover and load balancing.	string	Maximum length: 63	
ldb-method	Load balance method.	option	-	weighted

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>weighted</i>	Load balance traffic to forward servers based on assigned weights.		
	<i>least-session</i>	Send new sessions to the server with lowest session count.		
	<i>active-passive</i>	Send new sessions to active server with high weight.		

config server-list

Parameter	Description	Type	Size	Default
name	ICAP remote server name.	string	Maximum length: 63	
weight	Optionally assign a weight of the forwarding server for weighted load balancing (1 - 100, default = 10).	integer	Minimum value: 1 Maximum value: 100	10

image-analyzer

This section includes syntax for the following commands:

- [config image-analyzer profile on page 476](#)

config image-analyzer profile

Configure image analyzer profiles

```
config image-analyzer profile
  Description: Configure image analyzer profiles
  edit <name>
    set comment {var-string}
    set alcohol-block-strictness-level {integer}
    set alcohol-status [allow|deny|...]
    set drugs-block-strictness-level {integer}
    set drugs-status [allow|deny|...]
    set extremism-block-strictness-level {integer}
    set extremism-status [allow|deny|...]
    set gambling-block-strictness-level {integer}
    set gambling-status [allow|deny|...]
    set gore-block-strictness-level {integer}
    set gore-status [allow|deny|...]
    set porn-block-strictness-level {integer}
    set porn-status [allow|deny|...]
    set swim_underwear-block-strictness-level {integer}
    set swim_underwear-status [allow|deny|...]
    set weapons-block-strictness-level {integer}
    set weapons-status [allow|deny|...]
    set image-skip-size {integer}
    set image-skip-width {integer}
    set image-skip-height {integer}
    set log-option [all|violation]
    set source-url [enable|disable]
    set blocked-img-cache [enable|disable]
    set rating-err-action [block|pass]
    set replace-image {string}
    set optical-character-recognition [enable|disable]
    set ocr-activation-threshold {integer}
  next
end
```


config image-analyzer profile

Parameter	Description	Type	Size	Default								
name	Profile name.	string	Maximum length: 35									
comment	Comment.	var-string	Maximum length: 255									
alcohol-block-strictness-level	Higher value means an image is more likely to be blocked(0 - 100, 0 = allow all images, 100 = block all images).	integer	Minimum value: 0 Maximum value: 100	30								
alcohol-status	Allow/deny/monitor the category image.	option	-	deny								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>allow</i></td><td>Allow the category image.</td></tr><tr><td><i>deny</i></td><td>Deny the category image.</td></tr><tr><td><i>monitor</i></td><td>Monitor the category image.</td></tr></table>				Option	Description	<i>allow</i>	Allow the category image.	<i>deny</i>	Deny the category image.	<i>monitor</i>	Monitor the category image.
Option	Description											
<i>allow</i>	Allow the category image.											
<i>deny</i>	Deny the category image.											
<i>monitor</i>	Monitor the category image.											
drugs-block-strictness-level	Higher value means an image is more likely to be blocked(0 - 100, 0 = allow all images, 100 = block all images).	integer	Minimum value: 0 Maximum value: 100	30								
drugs-status	Allow/deny/monitor the category image.	option	-	deny								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>allow</i></td><td>Allow the category image.</td></tr><tr><td><i>deny</i></td><td>Deny the category image.</td></tr><tr><td><i>monitor</i></td><td>Monitor the category image.</td></tr></table>				Option	Description	<i>allow</i>	Allow the category image.	<i>deny</i>	Deny the category image.	<i>monitor</i>	Monitor the category image.
Option	Description											
<i>allow</i>	Allow the category image.											
<i>deny</i>	Deny the category image.											
<i>monitor</i>	Monitor the category image.											
extremism-block-strictness-level	Higher value means an image is more likely to be blocked(0 - 100, 0 = allow all images, 100 = block all images).	integer	Minimum value: 0 Maximum value: 100	30								
extremism-status	Allow/deny/monitor the category image.	option	-	deny								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>allow</i></td><td>Allow the category image.</td></tr><tr><td><i>deny</i></td><td>Deny the category image.</td></tr><tr><td><i>monitor</i></td><td>Monitor the category image.</td></tr></table>				Option	Description	<i>allow</i>	Allow the category image.	<i>deny</i>	Deny the category image.	<i>monitor</i>	Monitor the category image.
Option	Description											
<i>allow</i>	Allow the category image.											
<i>deny</i>	Deny the category image.											
<i>monitor</i>	Monitor the category image.											

Parameter	Description	Type	Size	Default								
gambling-block-strictness-level	Higher value means an image is more likely to be blocked(0 - 100, 0 = allow all images, 100 = block all images).	integer	Minimum value: 0 Maximum value: 100	30								
gambling-status	Allow/deny/monitor the category image.	option	-	deny								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>allow</i></td><td>Allow the category image.</td></tr><tr><td><i>deny</i></td><td>Deny the category image.</td></tr><tr><td><i>monitor</i></td><td>Monitor the category image.</td></tr></table>	Option	Description	<i>allow</i>	Allow the category image.	<i>deny</i>	Deny the category image.	<i>monitor</i>	Monitor the category image.			
Option	Description											
<i>allow</i>	Allow the category image.											
<i>deny</i>	Deny the category image.											
<i>monitor</i>	Monitor the category image.											
gore-block-strictness-level	Higher value means an image is more likely to be blocked(0 - 100, 0 = allow all images, 100 = block all images).	integer	Minimum value: 0 Maximum value: 100	30								
gore-status	Allow/deny/monitor the category image.	option	-	deny								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>allow</i></td><td>Allow the category image.</td></tr><tr><td><i>deny</i></td><td>Deny the category image.</td></tr><tr><td><i>monitor</i></td><td>Monitor the category image.</td></tr></table>	Option	Description	<i>allow</i>	Allow the category image.	<i>deny</i>	Deny the category image.	<i>monitor</i>	Monitor the category image.			
Option	Description											
<i>allow</i>	Allow the category image.											
<i>deny</i>	Deny the category image.											
<i>monitor</i>	Monitor the category image.											
porn-block-strictness-level	Higher value means an image is more likely to be blocked(0 - 100, 0 = allow all images, 100 = block all images).	integer	Minimum value: 0 Maximum value: 100	30								
porn-status	Allow/deny/monitor the category image.	option	-	deny								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>allow</i></td><td>Allow the category image.</td></tr><tr><td><i>deny</i></td><td>Deny the category image.</td></tr><tr><td><i>monitor</i></td><td>Monitor the category image.</td></tr></table>	Option	Description	<i>allow</i>	Allow the category image.	<i>deny</i>	Deny the category image.	<i>monitor</i>	Monitor the category image.			
Option	Description											
<i>allow</i>	Allow the category image.											
<i>deny</i>	Deny the category image.											
<i>monitor</i>	Monitor the category image.											
swim_underwear-block-strictness-level	Higher value means an image is more likely to be blocked(0 - 100, 0 = allow all images, 100 = block all images).	integer	Minimum value: 0 Maximum value: 100	30								

Parameter	Description	Type	Size	Default								
swim_und erwear- status	Allow/deny/monitor the category image.	option	-	deny								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>allow</i></td><td>Allow the category image.</td></tr><tr><td><i>deny</i></td><td>Deny the category image.</td></tr><tr><td><i>monitor</i></td><td>Monitor the category image.</td></tr></table>	Option	Description	<i>allow</i>	Allow the category image.	<i>deny</i>	Deny the category image.	<i>monitor</i>	Monitor the category image.			
Option	Description											
<i>allow</i>	Allow the category image.											
<i>deny</i>	Deny the category image.											
<i>monitor</i>	Monitor the category image.											
weapons- block- strictness- level	Higher value means an image is more likely to be blocked(0 - 100, 0 = allow all images, 100 = block all images).	integer	Minimum value: 0 Maximum value: 100	30								
weapons- status	Allow/deny/monitor the category image.	option	-	deny								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>allow</i></td><td>Allow the category image.</td></tr><tr><td><i>deny</i></td><td>Deny the category image.</td></tr><tr><td><i>monitor</i></td><td>Monitor the category image.</td></tr></table>	Option	Description	<i>allow</i>	Allow the category image.	<i>deny</i>	Deny the category image.	<i>monitor</i>	Monitor the category image.			
Option	Description											
<i>allow</i>	Allow the category image.											
<i>deny</i>	Deny the category image.											
<i>monitor</i>	Monitor the category image.											
image-skip- size	Image skip rating size(0-2048k).	integer	Minimum value: 0 Maximum value: 2048	1								
image-skip- width	Image skip rating width(min. 5 pixel).	integer	Minimum value: 5 Maximum value: 2147483647	30								
image-skip- height	Image skip rating height(min. 5 pixel).	integer	Minimum value: 5 Maximum value: 2147483647	30								
log-option	Log option for the inspected image result.	option	-	violation								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>all</i></td><td>Log all image result.</td></tr><tr><td><i>violation</i></td><td>Log only violation image result.</td></tr></table>	Option	Description	<i>all</i>	Log all image result.	<i>violation</i>	Log only violation image result.					
Option	Description											
<i>all</i>	Log all image result.											
<i>violation</i>	Log only violation image result.											

Parameter	Description	Type	Size	Default
source-url	Enable/disable source url in the image search result.	option	-	enable
	Option Description			
	<i>enable</i>	Enable source url in image search.		
	<i>disable</i>	Disable source url in image search.		
blocked-img-cache	Enable/disable saving blocked images in ram disk.	option	-	disable
	Option Description			
	<i>enable</i>	Enable caching.		
	<i>disable</i>	Disable caching.		
rating-err-action	Actions when image rating error.	option	-	pass
	Option Description			
	<i>block</i>	Block.		
	<i>pass</i>	Pass.		
replace-image	Specify replacement image.	string	Maximum length: 35	
optical-character-recognition	Enable/disable optical character recognition.	option	-	disable
	Option Description			
	<i>enable</i>	Enable optical character recognition.		
	<i>disable</i>	Disable optical character recognition.		
ocr-activation-threshold	Threshold to activate optical character recognition(0 - 100, 0 = bypass all images without DLP, 100 = process all images with DLP).	integer	Minimum value: 0 Maximum value: 100	30

ips

This section includes syntax for the following commands:

- [config ips custom on page 481](#)
- [config ips decoder on page 483](#)
- [config ips global on page 483](#)
- [config ips rule-settings on page 489](#)
- [config ips rule on page 487](#)
- [config ips sensor on page 489](#)
- [config ips session on page 495](#)
- [config ips settings on page 495](#)
- [config ips view-map on page 496](#)

config ips custom

Configure IPS custom signature.

```
config ips custom
  Description: Configure IPS custom signature.
  edit <tag>
    set signature {var-string}
    set rule-id {integer}
    set severity {user}
    set location {user}
    set os {user}
    set application {user}
    set protocol {user}
    set status [disable|enable]
    set log [disable|enable]
    set log-packet [disable|enable]
    set action [pass|block]
    set comment {string}
  next
end
```

config ips custom

Parameter	Description	Type	Size	Default
tag	Signature tag.	string	Maximum length: 63	

Parameter	Description	Type	Size	Default						
signature	Custom signature enclosed in single quotes.	var-string	Maximum length: 4095							
rule-id	Signature ID.	integer	Minimum value: 0 Maximum value: 4294967295	0						
severity	Relative severity of the signature, from info to critical. Log messages generated by the signature include the severity.	user	Not Specified							
location	Protect client or server traffic.	user	Not Specified							
os	Operating system(s) that the signature protects. Blank for all operating systems.	user	Not Specified							
application	Applications to be protected. Blank for all applications.	user	Not Specified							
protocol	Protocol(s) that the signature scans. Blank for all protocols.	user	Not Specified							
status	Enable/disable this signature.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>Disable status.</td></tr><tr><td>enable</td><td>Enable status.</td></tr></table>				Option	Description	disable	Disable status.	enable	Enable status.
Option	Description									
disable	Disable status.									
enable	Enable status.									
log	Enable/disable logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>Disable logging.</td></tr><tr><td>enable</td><td>Enable logging.</td></tr></table>				Option	Description	disable	Disable logging.	enable	Enable logging.
Option	Description									
disable	Disable logging.									
enable	Enable logging.									
log-packet	Enable/disable packet logging.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>Disable packet logging.</td></tr><tr><td>enable</td><td>Enable packet logging.</td></tr></table>				Option	Description	disable	Disable packet logging.	enable	Enable packet logging.
Option	Description									
disable	Disable packet logging.									
enable	Enable packet logging.									
action	Default action (pass or block) for this signature.	option	-	pass						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>pass</td><td>Pass or allow matching traffic.</td></tr></table>				Option	Description	pass	Pass or allow matching traffic.		
Option	Description									
pass	Pass or allow matching traffic.									

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>block</i>	Block or drop matching traffic.		
comment	Comment.	string	Maximum length: 63	

config ips decoder

Configure IPS decoder.

```
config ips decoder
    Description: Configure IPS decoder.
    edit <name>
        config parameter
            Description: IPS group parameters.
            edit <name>
                set value {string}
            next
        end
    next
end
```

config ips decoder

Parameter	Description	Type	Size	Default
name	Decoder name.	string	Maximum length: 63	

config parameter

Parameter	Description	Type	Size	Default
name	Parameter name.	string	Maximum length: 31	
value	Parameter value.	string	Maximum length: 199	

config ips global

Configure IPS global parameter.

```
config ips global
    Description: Configure IPS global parameter.
```

```

set fail-open [enable|disable]
set database [regular|extended]
set traffic-submit [enable|disable]
set anomaly-mode [periodical|continuous]
set session-limit-mode [accurate|heuristic]
set socket-size {integer}
set engine-count {integer}
set sync-session-ttl [enable|disable]
set deep-app-insp-timeout {integer}
set deep-app-insp-db-limit {integer}
set exclude-signatures [none|ot]
set packet-log-queue-depth {integer}
set av-mem-limit {integer}
config tls-active-probe
    Description: TLS active probe configuration.
    set interface-select-method [auto|sdwan|...]
    set interface {string}
    set vdom {string}
    set source-ip {ipv4-address}
    set source-ip6 {ipv6-address}

```

```
end
```

```
end
```

config ips global

Parameter	Description	Type	Size	Default						
fail-open	Enable to allow traffic if the IPS buffer is full. Default is disable and IPS traffic is blocked when the IPS buffer is full.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable IPS fail open.</td></tr><tr><td><i>disable</i></td><td>Disable IPS fail open.</td></tr></table>	Option	Description	<i>enable</i>	Enable IPS fail open.	<i>disable</i>	Disable IPS fail open.			
Option	Description									
<i>enable</i>	Enable IPS fail open.									
<i>disable</i>	Disable IPS fail open.									
database	Regular or extended IPS database. Regular protects against the latest common and in-the-wild attacks. Extended includes protection from legacy attacks.	option	-	extended						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>regular</i></td><td>IPS regular database package.</td></tr><tr><td><i>extended</i></td><td>IPS extended database package.</td></tr></table>	Option	Description	<i>regular</i>	IPS regular database package.	<i>extended</i>	IPS extended database package.			
Option	Description									
<i>regular</i>	IPS regular database package.									
<i>extended</i>	IPS extended database package.									
traffic-submit	Enable/disable submitting attack data found by this FortiProxy to FortiGuard.	option	-	disable						

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable traffic submit.		
	<i>disable</i>	Disable traffic submit.		
anomaly-mode	Global blocking mode for rate-based anomalies.	option	-	continuous
	Option	Description		
	<i>periodical</i>	After an anomaly is detected, allow the number of packets per second according to the anomaly configuration.		
	<i>continuous</i>	Block packets once an anomaly is detected. Overrides individual anomaly settings.		
session-limit-mode	Method of counting concurrent sessions used by session limit anomalies. Choose between greater accuracy (accurate) or improved performance (heuristics).	option	-	heuristic
	Option	Description		
	<i>accurate</i>	Accurately count concurrent sessions, demands more resources.		
	<i>heuristic</i>	Use heuristics to estimate the number of concurrent sessions. Acceptable in most cases.		
socket-size	IPS socket buffer size. Max and default value depend on available memory. Can be changed to tune performance.	integer	Minimum value: 0 Maximum value: 128	64
engine-count	Number of IPS engines running. If set to the default value of 0, FortiProxy sets the number to optimize performance depending on the number of CPU cores.	integer	Minimum value: 0 Maximum value: 255	0
sync-session-ttl	Enable/disable use of kernel session TTL for IPS sessions.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable use of kernel session TTL for IPS sessions.		
	<i>disable</i>	Disable use of kernel session TTL for IPS sessions.		

Parameter	Description	Type	Size	Default
deep-app-insp-timeout	Timeout for Deep application inspection (1 - 2147483647 sec., 0 = use recommended setting).	integer	Minimum value: 0 Maximum value: 2147483647	0
deep-app-insp-db-limit	Limit on number of entries in deep application inspection database (1 - 2147483647, use recommended setting = 0).	integer	Minimum value: 0 Maximum value: 2147483647	0
exclude-signatures	Excluded signatures.	option	-	ot
	Option	Description		
	<i>none</i>	No signatures excluded.		
	<i>ot</i>	Exclude ot signatures.		
packet-log-queue-depth	Packet/pcap log queue depth per IPS engine.	integer	Minimum value: 128 Maximum value: 4096	128
av-mem-limit	Maximum percentage of system memory allowed for use on AV scanning (10 - 50, default = zero). To disable set to zero. When disabled, there is no limit on the AV memory usage.	integer	Minimum value: 10 Maximum value: 50	0

config tls-active-probe

Parameter	Description	Type	Size	Default
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto
	Option	Description		
	<i>auto</i>	Set outgoing interface automatically.		
	<i>sdwan</i>	Set outgoing interface by SD-WAN or policy routing rules.		
	<i>specify</i>	Set outgoing interface manually.		
interface	Specify outgoing interface to reach server.	string	Maximum length: 15	
vdom	Virtual domain name for TLS active probe.	string	Maximum length: 31	

Parameter	Description	Type	Size	Default
source-ip	Source IP address used for TLS active probe.	ipv4-address	Not Specified	0.0.0.0
source-ip6	Source IPv6 address used for TLS active probe.	ipv6-address	Not Specified	::

config ips rule

Configure IPS rules.

```

config ips rule
    Description: Configure IPS rules.
    edit <name>
        set log [disable|enable]
        set log-packet [disable|enable]
        set action [pass|block]
        set group {string}
        set severity {user}
        set location {user}
        set os {user}
        set application {user}
        set service {user}
        set rule-id {integer}
        set rev {integer}
        set date {integer}
        config metadata
            Description: Meta data.
            edit <id>
                set metaid {integer}
                set valueid {integer}
            next
        end
    next
end

```

config ips rule

Parameter	Description	Type	Size	Default
name	Rule name.	string	Maximum length: 63	
log	Enable/disable logging.	option	-	enable
	Option	Description		
	disable	Disable logging.		
	enable	Enable logging.		

Parameter	Description	Type	Size	Default
log-packet	Enable/disable packet logging.	option	-	disable
	Option Description			
	<i>disable</i>	Disable packet logging.		
	<i>enable</i>	Enable packet logging.		
action	Action.	option	-	pass
	Option Description			
	<i>pass</i>	Pass or allow matching traffic.		
	<i>block</i>	Block or drop matching traffic.		
group	Group.	string	Maximum length: 63	
severity	Severity.	user	Not Specified	
location	Vulnerable location.	user	Not Specified	
os	Vulnerable operation systems.	user	Not Specified	
application	Vulnerable applications.	user	Not Specified	
service	Vulnerable service.	user	Not Specified	
rule-id	Rule ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
rev	Revision.	integer	Minimum value: 0 Maximum value: 4294967295	0
date	Date.	integer	Minimum value: 0 Maximum value: 4294967295	0

config metadata

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
metaid	Meta ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
valueid	Value ID.	integer	Minimum value: 0 Maximum value: 4294967295	0

config ips rule-settings

Configure IPS rule setting.

```
config ips rule-settings
    Description: Configure IPS rule setting.
    edit <id>
    next
end
```

config ips rule-settings

Parameter	Description	Type	Size	Default
id	Rule ID.	integer	Minimum value: 0 Maximum value: 4294967295	0

config ips sensor

Configure IPS sensor.

```
config ips sensor
    Description: Configure IPS sensor.
```

```

edit <name>
    set comment {var-string}
    set replacemsg-group {string}
    set block-malicious-url [disable|enable]
    set scan-botnet-connections [disable|block|...]
    set extended-log [enable|disable]
    config entries
        Description: IPS sensor filter.
        edit <id>
            set rule <id1>, <id2>, ...
            set location {user}
            set severity {user}
            set protocol {user}
            set os {user}
            set application {user}
            set default-action [all|pass|...]
            set default-status [all|enable|...]
            set cve <cve-entry1>, <cve-entry2>, ...
            set vuln-type <id1>, <id2>, ...
            set last-modified {user}
            set status [disable|enable|...]
            set log [disable|enable]
            set log-packet [disable|enable]
            set log-attack-context [disable|enable]
            set action [pass|block|...]
            set rate-count {integer}
            set rate-duration {integer}
            set rate-mode [periodical|continuous]
            set rate-track [none|src-ip|...]
            config exempt-ip
                Description: Traffic from selected source or destination IP addresses is
exempt from this signature.
                edit <id>
                    set src-ip {ipv4-classnet}
                    set dst-ip {ipv4-classnet}
                next
            end
            set quarantine [none|attacker]
            set quarantine-expiry {user}
            set quarantine-log [disable|enable]
        next
    end
next
end

```

config ips sensor

Parameter	Description	Type	Size	Default
name	Sensor name.	string	Maximum length: 35	
comment	Comment.	var-string	Maximum length: 255	

Parameter	Description	Type	Size	Default								
replacemsg-group	Replacement message group.	string	Maximum length: 35									
block-malicious-url	Enable/disable malicious URL blocking.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable malicious URL blocking.</td></tr><tr><td><i>enable</i></td><td>Enable malicious URL blocking.</td></tr></table>	Option	Description	<i>disable</i>	Disable malicious URL blocking.	<i>enable</i>	Enable malicious URL blocking.					
Option	Description											
<i>disable</i>	Disable malicious URL blocking.											
<i>enable</i>	Enable malicious URL blocking.											
scan-botnet-connections	Block or monitor connections to Botnet servers, or disable Botnet scanning.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Do not scan connections to botnet servers.</td></tr><tr><td><i>block</i></td><td>Block connections to botnet servers.</td></tr><tr><td><i>monitor</i></td><td>Log connections to botnet servers.</td></tr></table>	Option	Description	<i>disable</i>	Do not scan connections to botnet servers.	<i>block</i>	Block connections to botnet servers.	<i>monitor</i>	Log connections to botnet servers.			
Option	Description											
<i>disable</i>	Do not scan connections to botnet servers.											
<i>block</i>	Block connections to botnet servers.											
<i>monitor</i>	Log connections to botnet servers.											
extended-log	Enable/disable extended logging.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.					
Option	Description											
<i>enable</i>	Enable setting.											
<i>disable</i>	Disable setting.											

config entries

Parameter	Description	Type	Size	Default
id	Rule ID in IPS database (0 - 4294967295).	integer	Minimum value: 0 Maximum value: 4294967295	0
rule <id>	Identifies the predefined or custom IPS signatures to add to the sensor. Rule IPS.	integer	Minimum value: 0 Maximum value: 4294967295	
location	Protect client or server traffic.	user	Not Specified	all
severity	Relative severity of the signature, from info to critical. Log messages generated by the signature include the severity.	user	Not Specified	all

Parameter	Description	Type	Size	Default								
protocol	Protocols to be examined. Use all for every protocol and other for unlisted protocols.	user	Not Specified	all								
os	Operating systems to be protected. Use all for every operating system and other for unlisted operating systems.	user	Not Specified	all								
application	Operating systems to be protected. Use all for every application and other for unlisted application.	user	Not Specified	all								
default-action	Signature default action filter.	option	-	all								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>all</i></td><td>Selects signatures with any default action.</td></tr><tr><td><i>pass</i></td><td>Selects signatures with default action 'pass'.</td></tr><tr><td><i>block</i></td><td>Selects signatures with default action 'block'.</td></tr></table>	Option	Description	<i>all</i>	Selects signatures with any default action.	<i>pass</i>	Selects signatures with default action 'pass'.	<i>block</i>	Selects signatures with default action 'block'.			
Option	Description											
<i>all</i>	Selects signatures with any default action.											
<i>pass</i>	Selects signatures with default action 'pass'.											
<i>block</i>	Selects signatures with default action 'block'.											
default-status	Signature default status filter.	option	-	all								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>all</i></td><td>Selects signatures with any default status.</td></tr><tr><td><i>enable</i></td><td>Selects signatures enabled by default.</td></tr><tr><td><i>disable</i></td><td>Selects signatures disabled by default.</td></tr></table>	Option	Description	<i>all</i>	Selects signatures with any default status.	<i>enable</i>	Selects signatures enabled by default.	<i>disable</i>	Selects signatures disabled by default.			
Option	Description											
<i>all</i>	Selects signatures with any default status.											
<i>enable</i>	Selects signatures enabled by default.											
<i>disable</i>	Selects signatures disabled by default.											
cve <cve-entry>	List of CVE IDs of the signatures to add to the sensor. CVE IDs or CVE wildcards.	string	Maximum length: 19									
vuln-type <id>	List of signature vulnerability types to filter by. Vulnerability type ID.	integer	Minimum value: 0 Maximum value: 4294967295									
last-modified	Filter by signature last modified date. Formats: before <date>, after <date>, between <start-date> <end-date>.	user	Not Specified									
status	Status of the signatures included in filter. Only those filters with a status to enable are used.	option	-	default								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable status of selected rules.</td></tr><tr><td><i>enable</i></td><td>Enable status of selected rules.</td></tr><tr><td><i>default</i></td><td>Default.</td></tr></table>	Option	Description	<i>disable</i>	Disable status of selected rules.	<i>enable</i>	Enable status of selected rules.	<i>default</i>	Default.			
Option	Description											
<i>disable</i>	Disable status of selected rules.											
<i>enable</i>	Enable status of selected rules.											
<i>default</i>	Default.											

Parameter	Description	Type	Size	Default										
log	Enable/disable logging of signatures included in filter.	option	-	enable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable logging of selected rules.</td></tr><tr><td><i>enable</i></td><td>Enable logging of selected rules.</td></tr></table>	Option	Description	<i>disable</i>	Disable logging of selected rules.	<i>enable</i>	Enable logging of selected rules.							
Option	Description													
<i>disable</i>	Disable logging of selected rules.													
<i>enable</i>	Enable logging of selected rules.													
log-packet	Enable/disable packet logging. Enable to save the packet that triggers the filter. You can download the packets in pcap format for diagnostic use.	option	-	disable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable packet logging of selected rules.</td></tr><tr><td><i>enable</i></td><td>Enable packet logging of selected rules.</td></tr></table>	Option	Description	<i>disable</i>	Disable packet logging of selected rules.	<i>enable</i>	Enable packet logging of selected rules.							
Option	Description													
<i>disable</i>	Disable packet logging of selected rules.													
<i>enable</i>	Enable packet logging of selected rules.													
log-attack-context	Enable/disable logging of attack context: URL buffer, header buffer, body buffer, packet buffer.	option	-	disable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable logging of detailed attack context.</td></tr><tr><td><i>enable</i></td><td>Enable logging of detailed attack context.</td></tr></table>	Option	Description	<i>disable</i>	Disable logging of detailed attack context.	<i>enable</i>	Enable logging of detailed attack context.							
Option	Description													
<i>disable</i>	Disable logging of detailed attack context.													
<i>enable</i>	Enable logging of detailed attack context.													
action	Action taken with traffic in which signatures are detected.	option	-	default										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>pass</i></td><td>Pass or allow matching traffic.</td></tr><tr><td><i>block</i></td><td>Block or drop matching traffic.</td></tr><tr><td><i>reset</i></td><td>Reset sessions for matching traffic.</td></tr><tr><td><i>default</i></td><td>Pass or drop matching traffic, depending on the default action of the signature.</td></tr></table>	Option	Description	<i>pass</i>	Pass or allow matching traffic.	<i>block</i>	Block or drop matching traffic.	<i>reset</i>	Reset sessions for matching traffic.	<i>default</i>	Pass or drop matching traffic, depending on the default action of the signature.			
Option	Description													
<i>pass</i>	Pass or allow matching traffic.													
<i>block</i>	Block or drop matching traffic.													
<i>reset</i>	Reset sessions for matching traffic.													
<i>default</i>	Pass or drop matching traffic, depending on the default action of the signature.													
rate-count	Count of the rate.	integer	Minimum value: 0 Maximum value: 65535	0										
rate-duration	Duration (sec) of the rate.	integer	Minimum value: 1 Maximum value: 65535	60										
rate-mode	Rate limit mode.	option	-	continuous										

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>periodical</i>	Allow configured number of packets every rate-duration.		
	<i>continuous</i>	Block packets once the rate is reached.		
rate-track	Track the packet protocol field.	option	-	none
	Option	Description		
	<i>none</i>	none		
	<i>src-ip</i>	Source IP.		
	<i>dest-ip</i>	Destination IP.		
	<i>dhcp-client-mac</i>	DHCP client.		
	<i>dns-domain</i>	DNS domain.		
quarantine	Quarantine method.	option	-	none
	Option	Description		
	<i>none</i>	Quarantine is disabled.		
	<i>attacker</i>	Block all traffic sent from attacker's IP address. The attacker's IP address is also added to the banned user list. The target's address is not affected.		
quarantine-expiry	Duration of quarantine. (Format ####d##h##m, minimum 1m, maximum 364d23h59m, default = 5m). Requires quarantine set to attacker.	user	Not Specified	5m
quarantine-log	Enable/disable quarantine logging.	option	-	enable
	Option	Description		
	<i>disable</i>	Disable quarantine logging.		
	<i>enable</i>	Enable quarantine logging.		

config exempt-ip

Parameter	Description	Type	Size	Default
id	Exempt IP ID.	integer	Minimum value: 0 Maximum value: 4294967295	0

Parameter	Description	Type	Size	Default
src-ip	Source IP address and netmask (applies to packet matching the signature).	ipv4-classnet	Not Specified	0.0.0.0 0.0.0.0
dst-ip	Destination IP address and netmask (applies to packet matching the signature).	ipv4-classnet	Not Specified	0.0.0.0 0.0.0.0

config ips session

Session status.

```
config ips session
    Description: Session status.
end
```

config ips settings

Configure IPS VDOM parameter.

```
config ips settings
    Description: Configure IPS VDOM parameter.
    set packet-log-history {integer}
    set packet-log-post-attack {integer}
    set packet-log-memory {integer}
    set ips-packet-quota {integer}
    set proxy-inline-ips [disable|enable]
end
```

config ips settings

Parameter	Description	Type	Size	Default
packet-log-history	Number of packets to capture before and including the one in which the IPS signature is detected (1 - 255).	integer	Minimum value: 1 Maximum value: 255	1
packet-log-post-attack	Number of packets to log after the IPS signature is detected (0 - 255).	integer	Minimum value: 0 Maximum value: 255	0
packet-log-memory	Maximum memory can be used by packet log (64 - 8192 kB).	integer	Minimum value: 64 Maximum value: 8192	256

Parameter	Description	Type	Size	Default
ips-packet-quota	Maximum amount of disk space in MB for logged packets when logging to disk. Range depends on disk size.	integer	Minimum value: 0 Maximum value: 4294967295	0
proxy-inline-ips	Enable/disable firewall policy inline IPS support.	option	-	enable
		Option	Description	
		<i>disable</i>	Do not allow inline IPS in firewall policy.	
		<i>enable</i>	Allow inline IPS in firewall policy.	

config ips view-map

Configure IPS view-map.

```
config ips view-map
  Description: Configure IPS view-map.
  edit <id>
    set vdom-id {integer}
    set policy-id {integer}
    set id-policy-id {integer}
    set which {option}
  next
end
```

config ips view-map

Parameter	Description	Type	Size	Default
id	View ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
vdom-id	VDOM ID.	integer	Minimum value: 0 Maximum value: 4294967295	0

Parameter	Description	Type	Size	Default				
policy-id	Policy ID.	integer	Minimum value: 0 Maximum value: 4294967295	0				
id-policy-id	ID-based policy ID.	integer	Minimum value: 0 Maximum value: 4294967295	0				
which	Policy.	option	-	firewall				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>firewall</i></td><td>Firewall policy.</td></tr></table>				Option	Description	<i>firewall</i>	Firewall policy.
Option	Description							
<i>firewall</i>	Firewall policy.							

ipsec

This section includes syntax for the following commands:

- [config ipsec tunnel on page 498](#)

config ipsec tunnel

IPsec tunnel.

```
config ipsec tunnel
    Description: IPsec tunnel.
end
```

isolator

This section includes syntax for the following commands:

- [config isolator profile on page 499](#)
- [config isolator setting on page 500](#)

config isolator profile

Configure isolator profiles.

```
config isolator profile
  Description: Configure isolator profiles.
  edit <name>
    set comments {var-string}
    set disclaimer {string}
    config entries
      Description: Isolator profile entries.
      edit <id>
        set proxy-address {string}
        set action [isolate|freeze|...]
        set status [enable|disable]
      next
    end
  next
end
```

config isolator profile

Parameter	Description	Type	Size	Default
name	Profile name.	string	Maximum length: 35	
comments	Comment.	var-string	Maximum length: 255	
disclaimer	A customized replacement message page for installer.	string	Maximum length: 35	

config entries

Parameter	Description	Type	Size	Default										
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0										
proxy-address	Choose the proxy-address for this isolator profile entry.	string	Maximum length: 79											
action	Choose the action for this isolator entry.	option	-	isolate										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>isolate</i></td><td>Open the website in an isolator instead of the client.</td></tr><tr><td><i>freeze</i></td><td>Freeze the website. The user is able to unfreeze and get access to the website when they accept the risk.</td></tr><tr><td><i>block</i></td><td>Block the traffic to the website.</td></tr><tr><td><i>allow</i></td><td>Bypass the traffic to the website.</td></tr></table>				Option	Description	<i>isolate</i>	Open the website in an isolator instead of the client.	<i>freeze</i>	Freeze the website. The user is able to unfreeze and get access to the website when they accept the risk.	<i>block</i>	Block the traffic to the website.	<i>allow</i>	Bypass the traffic to the website.
	Option	Description												
	<i>isolate</i>	Open the website in an isolator instead of the client.												
	<i>freeze</i>	Freeze the website. The user is able to unfreeze and get access to the website when they accept the risk.												
	<i>block</i>	Block the traffic to the website.												
<i>allow</i>	Bypass the traffic to the website.													
status	Enable/disable this isolator entry.	option	-	enable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable this entry.</td></tr><tr><td><i>disable</i></td><td>Disable this entry.</td></tr></table>				Option	Description	<i>enable</i>	Enable this entry.	<i>disable</i>	Disable this entry.				
	Option	Description												
	<i>enable</i>	Enable this entry.												
<i>disable</i>	Disable this entry.													

config isolator setting

Configure isolator setting.

```
config isolator setting
    Description: Configure isolator setting.
    set default-isolator-profile {string}
    set defective-session [use-default-profile|pass|...]
    set unmatched-session [use-default-profile|pass|...]
end
```

config isolator setting

Parameter	Description	Type	Size	Default
default-isolator-profile	Name of an existing isolator profile. This profile is used when no policy is matched.	string	Maximum length: 35	

Parameter	Description	Type	Size	Default
defective-session	Choose the way to handle rating requests for sessions with missing information.	option	-	pass
	Option	Description		
	<i>use-default-profile</i>	Use default isolator profile to handle the session.		
	<i>pass</i>	Return bypass response to the rating request of the session.		
	<i>block</i>	Return block response to the rating request of the session.		
unmatched-session	Choose the way to handle rating requests for sessions that are unable to match any policy.	option	-	pass
	Option	Description		
	<i>use-default-profile</i>	Use default isolator profile to handle the session.		
	<i>pass</i>	Return bypass response to the rating request of the session.		
	<i>block</i>	Return block response to the rating request of the session.		

I2vpn

This section includes syntax for the following commands:

- [config l2vpn evpn instance on page 502](#)
- [config l2vpn evpn table on page 502](#)

config l2vpn evpn instance

List EVPN instances.

```
config l2vpn evpn instance
    Description: List EVPN instances.
    set <id> {string}
end
```

config l2vpn evpn instance

Parameter	Description	Type	Size	Default
<id>	EVPN ID.	string	Maximum length: -	

config l2vpn evpn table

List EVPN tables.

```
config l2vpn evpn table
    Description: List EVPN tables.
    set <ID> {string}
end
```

config l2vpn evpn table

Parameter	Description	Type	Size	Default
<ID>	EVPN ID ('-' for all).	string	Maximum length: -	

log

This section includes syntax for the following commands:

- [config log custom-field on page 504](#)
- [config log disk filter on page 505](#)
- [config log disk setting on page 508](#)
- [config log eventfilter on page 514](#)
- [config log fortianalyzer-cloud filter on page 566](#)
- [config log fortianalyzer-cloud override-filter on page 569](#)
- [config log fortianalyzer-cloud override-setting on page 573](#)
- [config log fortianalyzer-cloud setting on page 573](#)
- [config log fortianalyzer2 filter on page 534](#)
- [config log fortianalyzer2 override-filter on page 537](#)
- [config log fortianalyzer2 override-setting on page 541](#)
- [config log fortianalyzer2 setting on page 545](#)
- [config log fortianalyzer3 filter on page 550](#)
- [config log fortianalyzer3 override-filter on page 553](#)
- [config log fortianalyzer3 override-setting on page 557](#)
- [config log fortianalyzer3 setting on page 561](#)
- [config log fortianalyzer filter on page 518](#)
- [config log fortianalyzer override-filter on page 521](#)
- [config log fortianalyzer override-setting on page 525](#)
- [config log fortianalyzer setting on page 529](#)
- [config log fortiguard filter on page 577](#)
- [config log fortiguard override-filter on page 580](#)
- [config log fortiguard override-setting on page 584](#)
- [config log fortiguard setting on page 586](#)
- [config log gui-display on page 588](#)
- [config log memory filter on page 589](#)
- [config log memory global-setting on page 592](#)
- [config log memory setting on page 593](#)
- [config log null-device filter on page 594](#)
- [config log null-device setting on page 597](#)
- [config log setting on page 598](#)
- [config log syslogd2 filter on page 619](#)
- [config log syslogd2 override-filter on page 623](#)
- [config log syslogd2 override-setting on page 626](#)
- [config log syslogd2 setting on page 631](#)
- [config log syslogd3 filter on page 636](#)

- [config log syslogd3 override-filter on page 640](#)
- [config log syslogd3 override-setting on page 643](#)
- [config log syslogd3 setting on page 648](#)
- [config log syslogd4 filter on page 653](#)
- [config log syslogd4 override-filter on page 657](#)
- [config log syslogd4 override-setting on page 660](#)
- [config log syslogd4 setting on page 665](#)
- [config log syslogd filter on page 602](#)
- [config log syslogd override-filter on page 606](#)
- [config log syslogd override-setting on page 609](#)
- [config log syslogd setting on page 614](#)
- [config log tacacs+accounting2 filter on page 672](#)
- [config log tacacs+accounting2 setting on page 673](#)
- [config log tacacs+accounting3 filter on page 674](#)
- [config log tacacs+accounting3 setting on page 675](#)
- [config log tacacs+accounting filter on page 670](#)
- [config log tacacs+accounting setting on page 671](#)
- [config log threat-weight on page 676](#)
- [config log webtrends filter on page 686](#)
- [config log webtrends setting on page 690](#)

config log custom-field

Configure custom log fields.

```
config log custom-field
    Description: Configure custom log fields.
    edit <id>
        set name {string}
        set value {string}
    next
end
```

config log custom-field

Parameter	Description	Type	Size	Default
id	Field ID string.	string	Maximum length: 35	
name	Field name (max: 15 characters).	string	Maximum length: 15	
value	Field value (max: 15 characters).	string	Maximum length: 15	

config log disk filter

Configure filters for local disk logging. Use these filters to determine the log messages to record according to severity and type.

```
config log disk filter
    Description: Configure filters for local disk logging. Use these filters to determine
the log messages to record according to severity and type.
    set severity [emergency|alert|...]
    set forward-traffic [enable|disable]
    set local-traffic [enable|disable]
    set multicast-traffic [enable|disable]
    set sniffer-traffic [enable|disable]
    set ztna-traffic [enable|disable]
    set http-transaction [enable|disable]
    set anomaly [enable|disable]
    set voip [enable|disable]
    set dlp-archive [enable|disable]
    set forti-switch [enable|disable]
    config free-style
        Description: Free style filters.
        edit <id>
            set category [traffic|event|...]
            set filter {string}
            set filter-type [include|exclude]
        next
    end
end
```

config log disk filter

Parameter	Description	Type	Size	Default
severity	Log to disk every message above and including this severity level.	option	-	information
	Option	Description		
	<i>emergency</i>	Emergency level.		
	<i>alert</i>	Alert level.		
	<i>critical</i>	Critical level.		
	<i>error</i>	Error level.		
	<i>warning</i>	Warning level.		
	<i>notification</i>	Notification level.		
	<i>information</i>	Information level.		
	<i>debug</i>	Debug level.		

Parameter	Description	Type	Size	Default						
forward-traffic	Enable/disable forward traffic logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable forward traffic logging.</td></tr><tr><td><i>disable</i></td><td>Disable forward traffic logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable forward traffic logging.	<i>disable</i>	Disable forward traffic logging.			
Option	Description									
<i>enable</i>	Enable forward traffic logging.									
<i>disable</i>	Disable forward traffic logging.									
local-traffic	Enable/disable local in or out traffic logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable local in or out traffic logging.</td></tr><tr><td><i>disable</i></td><td>Disable local in or out traffic logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable local in or out traffic logging.	<i>disable</i>	Disable local in or out traffic logging.			
Option	Description									
<i>enable</i>	Enable local in or out traffic logging.									
<i>disable</i>	Disable local in or out traffic logging.									
multicast-traffic	Enable/disable multicast traffic logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable multicast traffic logging.</td></tr><tr><td><i>disable</i></td><td>Disable multicast traffic logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable multicast traffic logging.	<i>disable</i>	Disable multicast traffic logging.			
Option	Description									
<i>enable</i>	Enable multicast traffic logging.									
<i>disable</i>	Disable multicast traffic logging.									
sniffer-traffic	Enable/disable sniffer traffic logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable sniffer traffic logging.</td></tr><tr><td><i>disable</i></td><td>Disable sniffer traffic logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable sniffer traffic logging.	<i>disable</i>	Disable sniffer traffic logging.			
Option	Description									
<i>enable</i>	Enable sniffer traffic logging.									
<i>disable</i>	Disable sniffer traffic logging.									
ztna-traffic	Enable/disable ztna traffic logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable ztna traffic logging.</td></tr><tr><td><i>disable</i></td><td>Disable ztna traffic logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable ztna traffic logging.	<i>disable</i>	Disable ztna traffic logging.			
Option	Description									
<i>enable</i>	Enable ztna traffic logging.									
<i>disable</i>	Disable ztna traffic logging.									
http-transaction	Enable/disable log http-transaction messages.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable http transaction logging.</td></tr><tr><td><i>disable</i></td><td>Disable http transaction logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable http transaction logging.	<i>disable</i>	Disable http transaction logging.			
Option	Description									
<i>enable</i>	Enable http transaction logging.									
<i>disable</i>	Disable http transaction logging.									
anomaly	Enable/disable anomaly logging.	option	-	enable						

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable anomaly logging.		
	<i>disable</i>	Disable anomaly logging.		
voip	Enable/disable VoIP logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable VoIP logging.		
	<i>disable</i>	Disable VoIP logging.		
dlp-archive	Enable/disable DLP archive logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable DLP archive logging.		
	<i>disable</i>	Disable DLP archive logging.		
forti-switch	Enable/disable Forti-Switch logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable Forti-Switch logging.		
	<i>disable</i>	Disable Forti-Switch logging.		

config free-style

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
category	Log category.	option	-	traffic
	Option	Description		
	<i>traffic</i>	Traffic log.		
	<i>event</i>	Event log.		
	<i>virus</i>	Antivirus log.		
	<i>webfilter</i>	Web filter log.		

Parameter	Description	Type	Size	Default																												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>attack</i></td><td>Attack log.</td></tr><tr><td><i>spam</i></td><td>Antispam log.</td></tr><tr><td><i>anomaly</i></td><td>Anomaly log.</td></tr><tr><td><i>voip</i></td><td>VoIP log.</td></tr><tr><td><i>dlp</i></td><td>DLP log.</td></tr><tr><td><i>app-ctrl</i></td><td>Application control log.</td></tr><tr><td><i>waf</i></td><td>Web application firewall log.</td></tr><tr><td><i>dns</i></td><td>DNS detail log.</td></tr><tr><td><i>ssh</i></td><td>SSH log.</td></tr><tr><td><i>ssl</i></td><td>SSL log.</td></tr><tr><td><i>file-filter</i></td><td>File filter log.</td></tr><tr><td><i>icap</i></td><td>ICAP log.</td></tr><tr><td><i>virtual-patch</i></td><td>Virtual patch log.</td></tr></table>	Option	Description	<i>attack</i>	Attack log.	<i>spam</i>	Antispam log.	<i>anomaly</i>	Anomaly log.	<i>voip</i>	VoIP log.	<i>dlp</i>	DLP log.	<i>app-ctrl</i>	Application control log.	<i>waf</i>	Web application firewall log.	<i>dns</i>	DNS detail log.	<i>ssh</i>	SSH log.	<i>ssl</i>	SSL log.	<i>file-filter</i>	File filter log.	<i>icap</i>	ICAP log.	<i>virtual-patch</i>	Virtual patch log.			
	Option	Description																														
	<i>attack</i>	Attack log.																														
	<i>spam</i>	Antispam log.																														
	<i>anomaly</i>	Anomaly log.																														
	<i>voip</i>	VoIP log.																														
	<i>dlp</i>	DLP log.																														
	<i>app-ctrl</i>	Application control log.																														
	<i>waf</i>	Web application firewall log.																														
	<i>dns</i>	DNS detail log.																														
	<i>ssh</i>	SSH log.																														
	<i>ssl</i>	SSL log.																														
	<i>file-filter</i>	File filter log.																														
	<i>icap</i>	ICAP log.																														
	<i>virtual-patch</i>	Virtual patch log.																														
filter	Free style filter string.	string	Maximum length: 1023																													
filter-type	Include/exclude logs that match the filter.	option	-	include																												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>include</i></td><td>Include logs that match the filter.</td></tr><tr><td><i>exclude</i></td><td>Exclude logs that match the filter.</td></tr></table>	Option	Description	<i>include</i>	Include logs that match the filter.	<i>exclude</i>	Exclude logs that match the filter.																									
	Option	Description																														
	<i>include</i>	Include logs that match the filter.																														
<i>exclude</i>	Exclude logs that match the filter.																															

config log disk setting

Settings for local disk logging.

```
config log disk setting
    Description: Settings for local disk logging.
    set status [enable|disable]
    set ips-archive [enable|disable]
    set max-log-file-size {integer}
    set max-policy-packet-capture-size {integer}
    set roll-schedule [daily|weekly]
    set roll-day {option1}, {option2}, ...
    set roll-time {user}
    set diskfull [overwrite|nolog]
    set log-quota {integer}
    set dlp-archive-quota {integer}
```



```

set report-quota {integer}
set maximum-log-age {integer}
set upload [enable|disable]
set upload-destination {option}
set uploadip {ipv4-address}
set uploadport {integer}
set source-ip {ipv4-address}
set uploaduser {string}
set uploadpass {password}
set uploadaddr {string}
set uploadtype {option1}, {option2}, ...
set uploadsched [disable|enable]
set uploadtime {user}
set upload-delete-files [enable|disable]
set upload-ssl-conn [default|high|...]
set full-first-warning-threshold {integer}
set full-second-warning-threshold {integer}
set full-final-warning-threshold {integer}
set interface-select-method [auto|specify]
set interface {string}

```

end

config log disk setting

Parameter	Description	Type	Size	Default
status	Enable/disable local disk logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Log to local disk.		
	<i>disable</i>	Do not log to local disk.		
ips-archive	Enable/disable IPS packet archiving to the local disk.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable IPS packet archiving.		
	<i>disable</i>	Disable IPS packet archiving.		
max-log-file-size	Maximum log file size before rolling (1 - 100 Mbytes).	integer	Minimum value: 1 Maximum value: 100	20
max-policy-packet-capture-size	Maximum size of policy sniffer in MB (0 means unlimited).	integer	Minimum value: 0 Maximum value: 4294967295	100

Parameter	Description	Type	Size	Default																
roll-schedule	Frequency to check log file for rolling.	option	-	daily																
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>daily</i></td><td>Check the log file once a day.</td></tr><tr><td><i>weekly</i></td><td>Check the log file once a week.</td></tr></table>	Option	Description	<i>daily</i>	Check the log file once a day.	<i>weekly</i>	Check the log file once a week.													
Option	Description																			
<i>daily</i>	Check the log file once a day.																			
<i>weekly</i>	Check the log file once a week.																			
roll-day	Day of week on which to roll log file.	option	-	sunday																
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>sunday</i></td><td>Sunday</td></tr><tr><td><i>monday</i></td><td>Monday</td></tr><tr><td><i>tuesday</i></td><td>Tuesday</td></tr><tr><td><i>wednesday</i></td><td>Wednesday</td></tr><tr><td><i>thursday</i></td><td>Thursday</td></tr><tr><td><i>friday</i></td><td>Friday</td></tr><tr><td><i>saturday</i></td><td>Saturday</td></tr></table>	Option	Description	<i>sunday</i>	Sunday	<i>monday</i>	Monday	<i>tuesday</i>	Tuesday	<i>wednesday</i>	Wednesday	<i>thursday</i>	Thursday	<i>friday</i>	Friday	<i>saturday</i>	Saturday			
Option	Description																			
<i>sunday</i>	Sunday																			
<i>monday</i>	Monday																			
<i>tuesday</i>	Tuesday																			
<i>wednesday</i>	Wednesday																			
<i>thursday</i>	Thursday																			
<i>friday</i>	Friday																			
<i>saturday</i>	Saturday																			
roll-time	Time of day to roll the log file (hh:mm).	user	Not Specified																	
diskfull	Action to take when disk is full. The system can overwrite the oldest log messages or stop logging when the disk is full (default = overwrite).	option	-	overwrite																
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>overwrite</i></td><td>Overwrite the oldest logs when the log disk is full.</td></tr><tr><td><i>nolog</i></td><td>Stop logging when the log disk is full.</td></tr></table>	Option	Description	<i>overwrite</i>	Overwrite the oldest logs when the log disk is full.	<i>nolog</i>	Stop logging when the log disk is full.													
Option	Description																			
<i>overwrite</i>	Overwrite the oldest logs when the log disk is full.																			
<i>nolog</i>	Stop logging when the log disk is full.																			
log-quota	Disk log quota (MB).	integer	Minimum value: 0 Maximum value: 4294967295	0																
dlp-archive-quota	DLP archive quota (MB).	integer	Minimum value: 0 Maximum value: 4294967295	0																

Parameter	Description	Type	Size	Default
report-quota	Report db quota (MB).	integer	Minimum value: 0 Maximum value: 4294967295	0
maximum-log-age	Delete log files older than (days).	integer	Minimum value: 0 Maximum value: 3650	7
upload	Enable/disable uploading log files when they are rolled.	option	-	disable
	Option	Description		
	enable	Enable uploading log files when they are rolled.		
	disable	Disable uploading log files when they are rolled.		
upload-destination	The type of server to upload log files to. Only FTP is currently supported.	option	-	ftp-server
	Option	Description		
	ftp-server	Upload rolled log files to an FTP server.		
uploadip	IP address of the FTP server to upload log files to.	ipv4-address	Not Specified	0.0.0.0
uploadport	TCP port to use for communicating with the FTP server (default = 21).	integer	Minimum value: 0 Maximum value: 65535	21
source-ip	Source IP address to use for uploading disk log files.	ipv4-address	Not Specified	0.0.0.0
uploaduser	Username required to log into the FTP server to upload disk log files.	string	Maximum length: 35	
uploadpass	Password required to log into the FTP server to upload disk log files.	password	Not Specified	
uploaddir	The remote directory on the FTP server to upload log files to.	string	Maximum length: 63	

Parameter	Description	Type	Size	Default																																							
uploadtype	Types of log files to upload. Separate multiple entries with a space.	option	-	traffic event virus webfilter IPS emailfilter dlp-archive anomaly voip dlp app-ctrl waf dns ssh ssl																																							
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>traffic</td><td>Upload traffic log.</td></tr><tr><td>event</td><td>Upload event log.</td></tr><tr><td>virus</td><td>Upload anti-virus log.</td></tr><tr><td>webfilter</td><td>Upload web filter log.</td></tr><tr><td>IPS</td><td>Upload IPS log.</td></tr><tr><td>emailfilter</td><td>Upload spam filter log.</td></tr><tr><td>dlp-archive</td><td>Upload DLP archive.</td></tr><tr><td>anomaly</td><td>Upload anomaly log.</td></tr><tr><td>voip</td><td>Upload VoIP log.</td></tr><tr><td>dlp</td><td>Upload DLP log.</td></tr><tr><td>app-ctrl</td><td>Upload application control log.</td></tr><tr><td>waf</td><td>Upload web application firewall log.</td></tr><tr><td>dns</td><td>Upload DNS log.</td></tr><tr><td>ssh</td><td>Upload SSH log.</td></tr><tr><td>ssl</td><td>Upload SSL log.</td></tr><tr><td>file-filter</td><td>Upload file-filter log.</td></tr><tr><td>icap</td><td>Upload ICAP log.</td></tr><tr><td>virtual-patch</td><td>Upload virtual-patch log.</td></tr></table>	Option	Description	traffic	Upload traffic log.	event	Upload event log.	virus	Upload anti-virus log.	webfilter	Upload web filter log.	IPS	Upload IPS log.	emailfilter	Upload spam filter log.	dlp-archive	Upload DLP archive.	anomaly	Upload anomaly log.	voip	Upload VoIP log.	dlp	Upload DLP log.	app-ctrl	Upload application control log.	waf	Upload web application firewall log.	dns	Upload DNS log.	ssh	Upload SSH log.	ssl	Upload SSL log.	file-filter	Upload file-filter log.	icap	Upload ICAP log.	virtual-patch	Upload virtual-patch log.				
	Option	Description																																									
	traffic	Upload traffic log.																																									
	event	Upload event log.																																									
	virus	Upload anti-virus log.																																									
	webfilter	Upload web filter log.																																									
	IPS	Upload IPS log.																																									
	emailfilter	Upload spam filter log.																																									
	dlp-archive	Upload DLP archive.																																									
	anomaly	Upload anomaly log.																																									
	voip	Upload VoIP log.																																									
	dlp	Upload DLP log.																																									
	app-ctrl	Upload application control log.																																									
	waf	Upload web application firewall log.																																									
	dns	Upload DNS log.																																									
	ssh	Upload SSH log.																																									
	ssl	Upload SSL log.																																									
	file-filter	Upload file-filter log.																																									
icap	Upload ICAP log.																																										
virtual-patch	Upload virtual-patch log.																																										
uploadsched	Set the schedule for uploading log files to the FTP server (default = disable = upload when rolling).	option	-	disable																																							
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>Upload when rolling.</td></tr></table>	Option	Description	disable	Upload when rolling.																																						
	Option	Description																																									
disable	Upload when rolling.																																										

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Scheduled upload.		
uploadtime	Time of day at which log files are uploaded if uploadsched is enabled (hh:mm or hh).	user	Not Specified	
upload-delete-files	Delete log files after uploading (default = enable).	option	-	enable
	Option	Description		
	<i>enable</i>	Delete log files after uploading.		
	<i>disable</i>	Do not delete log files after uploading.		
upload-ssl-conn	Enable/disable encrypted FTPS communication to upload log files.	option	-	default
	Option	Description		
	<i>default</i>	FTPS with high and medium encryption algorithms.		
	<i>high</i>	FTPS with high encryption algorithms.		
	<i>low</i>	FTPS with low encryption algorithms.		
	<i>disable</i>	Disable FTPS communication.		
full-first-warning-threshold	Log full first warning threshold as a percent (1 - 98, default = 75).	integer	Minimum value: 1 Maximum value: 98	75
full-second-warning-threshold	Log full second warning threshold as a percent (2 - 99, default = 90).	integer	Minimum value: 2 Maximum value: 99	90
full-final-warning-threshold	Log full final warning threshold as a percent (3 - 100, default = 95).	integer	Minimum value: 3 Maximum value: 100	95
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto
	Option	Description		
	<i>auto</i>	Set outgoing interface automatically.		
	<i>specify</i>	Set outgoing interface manually.		

Parameter	Description	Type	Size	Default
interface	Specify outgoing interface to reach server.	string	Maximum length: 15	

config log eventfilter

Configure log event filters.

```
config log eventfilter
    Description: Configure log event filters.
    set event [enable|disable]
    set system [enable|disable]
    set vpn [enable|disable]
    set user [enable|disable]
    set router [enable|disable]
    set wireless-activity [enable|disable]
    set wan-opt [enable|disable]
    set endpoint [enable|disable]
    set ha [enable|disable]
    set security-rating [enable|disable]
    set fortixtender [enable|disable]
    set connector [enable|disable]
    set sdwan [enable|disable]
    set cifs [enable|disable]
    set switch-controller [enable|disable]
    set wcs [enable|disable]
    set wdb [enable|disable]
    set aggd [enable|disable]
    set crwl [enable|disable]
    set rest-api [enable|disable]
    set webproxy [enable|disable]
    set iptables [enable|disable]
end
```

config log eventfilter

Parameter	Description	Type	Size	Default
event	Enable/disable event logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable event logging.		
	<i>disable</i>	Disable event logging.		
system	Enable/disable system event logging.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable system event logging.		
	<i>disable</i>	Disable system event logging.		
vpn	Enable/disable VPN event logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable VPN event logging.		
	<i>disable</i>	Disable VPN event logging.		
user	Enable/disable user authentication event logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable user authentication event logging.		
	<i>disable</i>	Disable user authentication event logging.		
router	Enable/disable router event logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable router event logging.		
	<i>disable</i>	Disable router event logging.		
wireless-activity	Enable/disable wireless event logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable wireless event logging.		
	<i>disable</i>	Disable wireless event logging.		
wan-opt	Enable/disable WAN optimization event logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable WAN optimization event logging.		
	<i>disable</i>	Disable WAN optimization event logging.		
endpoint	Enable/disable endpoint event logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable endpoint event logging.		
	<i>disable</i>	Disable endpoint event logging.		

Parameter	Description	Type	Size	Default						
ha	Enable/disable ha event logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable ha event logging.</td></tr><tr><td><i>disable</i></td><td>Disable ha event logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable ha event logging.	<i>disable</i>	Disable ha event logging.			
Option	Description									
<i>enable</i>	Enable ha event logging.									
<i>disable</i>	Disable ha event logging.									
security-rating	Enable/disable Security Rating result logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable Security Fabric audit result logging.</td></tr><tr><td><i>disable</i></td><td>Disable Security Fabric audit result logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable Security Fabric audit result logging.	<i>disable</i>	Disable Security Fabric audit result logging.			
Option	Description									
<i>enable</i>	Enable Security Fabric audit result logging.									
<i>disable</i>	Disable Security Fabric audit result logging.									
fortiextender	Enable/disable FortiExtender logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable Forti-Extender logging.</td></tr><tr><td><i>disable</i></td><td>Disable Forti-Extender logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable Forti-Extender logging.	<i>disable</i>	Disable Forti-Extender logging.			
Option	Description									
<i>enable</i>	Enable Forti-Extender logging.									
<i>disable</i>	Disable Forti-Extender logging.									
connector	Enable/disable SDN connector logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable SDN connector logging.</td></tr><tr><td><i>disable</i></td><td>Disable SDN connector logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable SDN connector logging.	<i>disable</i>	Disable SDN connector logging.			
Option	Description									
<i>enable</i>	Enable SDN connector logging.									
<i>disable</i>	Disable SDN connector logging.									
sdwan	Enable/disable SD-WAN logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable SD-WAN logging.</td></tr><tr><td><i>disable</i></td><td>Disable SD-WAN logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable SD-WAN logging.	<i>disable</i>	Disable SD-WAN logging.			
Option	Description									
<i>enable</i>	Enable SD-WAN logging.									
<i>disable</i>	Disable SD-WAN logging.									
cifs	Enable/disable CIFS logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable CIFS logging.</td></tr><tr><td><i>disable</i></td><td>Disable CIFS logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable CIFS logging.	<i>disable</i>	Disable CIFS logging.			
Option	Description									
<i>enable</i>	Enable CIFS logging.									
<i>disable</i>	Disable CIFS logging.									
switch-controller	Enable/disable Switch-Controller logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable Switch-Controller logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable Switch-Controller logging.					
Option	Description									
<i>enable</i>	Enable Switch-Controller logging.									

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable Switch-Controller logging.		
wcs	Enable/disable log for wcs events.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable Switch-Controller logging.		
	<i>disable</i>	Disable Switch-Controller logging.		
wdb	Enable/disable log for wdb events.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable Switch-Controller logging.		
	<i>disable</i>	Disable Switch-Controller logging.		
aggd	Enable/disable log for aggd events.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable Switch-Controller logging.		
	<i>disable</i>	Disable Switch-Controller logging.		
crwl	Enable/disable log for crwl events.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable Switch-Controller logging.		
	<i>disable</i>	Disable Switch-Controller logging.		
rest-api	Enable/disable REST API logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable REST API logging.		
	<i>disable</i>	Disable REST API logging.		
webproxy	Enable/disable web proxy event logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable Web Proxy event logging.		
	<i>disable</i>	Disable Web Proxy event logging.		
iptables	Enable/disable iptables event logging.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable iptables event logging.		
	<i>disable</i>	Disable iptables event logging.		

config log fortianalyzer filter

Filters for FortiAnalyzer.

```
config log fortianalyzer filter
    Description: Filters for FortiAnalyzer.
    set severity [emergency|alert|...]
    set forward-traffic [enable|disable]
    set local-traffic [enable|disable]
    set multicast-traffic [enable|disable]
    set sniffer-traffic [enable|disable]
    set ztna-traffic [enable|disable]
    set http-transaction [enable|disable]
    set anomaly [enable|disable]
    set voip [enable|disable]
    set dlp-archive [enable|disable]
    set forti-switch [enable|disable]
    config free-style
        Description: Free style filters.
        edit <id>
            set category [traffic|event|...]
            set filter {string}
            set filter-type [include|exclude]
        next
    end
end
```

config log fortianalyzer filter

Parameter	Description	Type	Size	Default
severity	Lowest severity level to log.	option	-	information
	Option	Description		
	<i>emergency</i>	Emergency level.		
	<i>alert</i>	Alert level.		
	<i>critical</i>	Critical level.		
	<i>error</i>	Error level.		
	<i>warning</i>	Warning level.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>notification</i>	Notification level.		
	<i>information</i>	Information level.		
	<i>debug</i>	Debug level.		
forward-traffic	Enable/disable forward traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable forward traffic logging.		
	<i>disable</i>	Disable forward traffic logging.		
local-traffic	Enable/disable local in or out traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable local in or out traffic logging.		
	<i>disable</i>	Disable local in or out traffic logging.		
multicast-traffic	Enable/disable multicast traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable multicast traffic logging.		
	<i>disable</i>	Disable multicast traffic logging.		
sniffer-traffic	Enable/disable sniffer traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable sniffer traffic logging.		
	<i>disable</i>	Disable sniffer traffic logging.		
ztna-traffic	Enable/disable ztna traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable ztna traffic logging.		
	<i>disable</i>	Disable ztna traffic logging.		
http-transaction	Enable/disable log http-transaction messages.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable http transaction logging.		
	<i>disable</i>	Disable http transaction logging.		
anomaly	Enable/disable anomaly logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable anomaly logging.		
	<i>disable</i>	Disable anomaly logging.		
voip	Enable/disable VoIP logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable VoIP logging.		
	<i>disable</i>	Disable VoIP logging.		
dlp-archive	Enable/disable DLP archive logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable DLP archive logging.		
	<i>disable</i>	Disable DLP archive logging.		
forti-switch	Enable/disable Forti-Switch logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable Forti-Switch logging.		
	<i>disable</i>	Disable Forti-Switch logging.		

config free-style

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
category	Log category.	option	-	traffic

Parameter	Description	Type	Size	Default																																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>traffic</i></td><td>Traffic log.</td></tr><tr><td><i>event</i></td><td>Event log.</td></tr><tr><td><i>virus</i></td><td>Antivirus log.</td></tr><tr><td><i>webfilter</i></td><td>Web filter log.</td></tr><tr><td><i>attack</i></td><td>Attack log.</td></tr><tr><td><i>spam</i></td><td>Antispam log.</td></tr><tr><td><i>anomaly</i></td><td>Anomaly log.</td></tr><tr><td><i>voip</i></td><td>VoIP log.</td></tr><tr><td><i>dlp</i></td><td>DLP log.</td></tr><tr><td><i>app-ctrl</i></td><td>Application control log.</td></tr><tr><td><i>waf</i></td><td>Web application firewall log.</td></tr><tr><td><i>dns</i></td><td>DNS detail log.</td></tr><tr><td><i>ssh</i></td><td>SSH log.</td></tr><tr><td><i>ssl</i></td><td>SSL log.</td></tr><tr><td><i>file-filter</i></td><td>File filter log.</td></tr><tr><td><i>icap</i></td><td>ICAP log.</td></tr><tr><td><i>virtual-patch</i></td><td>Virtual patch log.</td></tr></table>	Option	Description	<i>traffic</i>	Traffic log.	<i>event</i>	Event log.	<i>virus</i>	Antivirus log.	<i>webfilter</i>	Web filter log.	<i>attack</i>	Attack log.	<i>spam</i>	Antispam log.	<i>anomaly</i>	Anomaly log.	<i>voip</i>	VoIP log.	<i>dlp</i>	DLP log.	<i>app-ctrl</i>	Application control log.	<i>waf</i>	Web application firewall log.	<i>dns</i>	DNS detail log.	<i>ssh</i>	SSH log.	<i>ssl</i>	SSL log.	<i>file-filter</i>	File filter log.	<i>icap</i>	ICAP log.	<i>virtual-patch</i>	Virtual patch log.			
	Option	Description																																						
	<i>traffic</i>	Traffic log.																																						
	<i>event</i>	Event log.																																						
	<i>virus</i>	Antivirus log.																																						
	<i>webfilter</i>	Web filter log.																																						
	<i>attack</i>	Attack log.																																						
	<i>spam</i>	Antispam log.																																						
	<i>anomaly</i>	Anomaly log.																																						
	<i>voip</i>	VoIP log.																																						
	<i>dlp</i>	DLP log.																																						
	<i>app-ctrl</i>	Application control log.																																						
	<i>waf</i>	Web application firewall log.																																						
	<i>dns</i>	DNS detail log.																																						
	<i>ssh</i>	SSH log.																																						
	<i>ssl</i>	SSL log.																																						
	<i>file-filter</i>	File filter log.																																						
	<i>icap</i>	ICAP log.																																						
<i>virtual-patch</i>	Virtual patch log.																																							
filter	Free style filter string.	string	Maximum length: 1023																																					
filter-type	Include/exclude logs that match the filter.	option	-	include																																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>include</i></td><td>Include logs that match the filter.</td></tr><tr><td><i>exclude</i></td><td>Exclude logs that match the filter.</td></tr></table>	Option	Description	<i>include</i>	Include logs that match the filter.	<i>exclude</i>	Exclude logs that match the filter.																																	
	Option	Description																																						
	<i>include</i>	Include logs that match the filter.																																						
<i>exclude</i>	Exclude logs that match the filter.																																							

config log fortianalyzer override-filter

Override filters for FortiAnalyzer.

```
config log fortianalyzer override-filter
  Description: Override filters for FortiAnalyzer.
  set severity [emergency|alert|...]
  set forward-traffic [enable|disable]
  set local-traffic [enable|disable]
```

```

set multicast-traffic [enable|disable]
set sniffer-traffic [enable|disable]
set ztna-traffic [enable|disable]
set http-transaction [enable|disable]
set anomaly [enable|disable]
set voip [enable|disable]
set dlp-archive [enable|disable]
set forti-switch [enable|disable]
config free-style
  Description: Free style filters.
  edit <id>
    set category [traffic|event|...]
    set filter {string}
    set filter-type [include|exclude]
  next
end
end

```

config log fortianalyzer override-filter

Parameter	Description	Type	Size	Default																		
severity	Lowest severity level to log.	option	-	information																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>emergency</i></td><td>Emergency level.</td></tr><tr><td><i>alert</i></td><td>Alert level.</td></tr><tr><td><i>critical</i></td><td>Critical level.</td></tr><tr><td><i>error</i></td><td>Error level.</td></tr><tr><td><i>warning</i></td><td>Warning level.</td></tr><tr><td><i>notification</i></td><td>Notification level.</td></tr><tr><td><i>information</i></td><td>Information level.</td></tr><tr><td><i>debug</i></td><td>Debug level.</td></tr></table>	Option	Description	<i>emergency</i>	Emergency level.	<i>alert</i>	Alert level.	<i>critical</i>	Critical level.	<i>error</i>	Error level.	<i>warning</i>	Warning level.	<i>notification</i>	Notification level.	<i>information</i>	Information level.	<i>debug</i>	Debug level.			
Option	Description																					
<i>emergency</i>	Emergency level.																					
<i>alert</i>	Alert level.																					
<i>critical</i>	Critical level.																					
<i>error</i>	Error level.																					
<i>warning</i>	Warning level.																					
<i>notification</i>	Notification level.																					
<i>information</i>	Information level.																					
<i>debug</i>	Debug level.																					
forward-traffic	Enable/disable forward traffic logging.	option	-	enable																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable forward traffic logging.</td></tr><tr><td><i>disable</i></td><td>Disable forward traffic logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable forward traffic logging.	<i>disable</i>	Disable forward traffic logging.															
Option	Description																					
<i>enable</i>	Enable forward traffic logging.																					
<i>disable</i>	Disable forward traffic logging.																					
local-traffic	Enable/disable local in or out traffic logging.	option	-	enable																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable local in or out traffic logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable local in or out traffic logging.																	
Option	Description																					
<i>enable</i>	Enable local in or out traffic logging.																					

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable local in or out traffic logging.		
multicast-traffic	Enable/disable multicast traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable multicast traffic logging.		
	<i>disable</i>	Disable multicast traffic logging.		
sniffer-traffic	Enable/disable sniffer traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable sniffer traffic logging.		
	<i>disable</i>	Disable sniffer traffic logging.		
ztna-traffic	Enable/disable ztna traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable ztna traffic logging.		
	<i>disable</i>	Disable ztna traffic logging.		
http-transaction	Enable/disable log http-transaction messages.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable http transaction logging.		
	<i>disable</i>	Disable http transaction logging.		
anomaly	Enable/disable anomaly logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable anomaly logging.		
	<i>disable</i>	Disable anomaly logging.		
voip	Enable/disable VoIP logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable VoIP logging.		
	<i>disable</i>	Disable VoIP logging.		

Parameter	Description	Type	Size	Default
dlp-archive	Enable/disable DLP archive logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable DLP archive logging.		
	<i>disable</i>	Disable DLP archive logging.		
forti-switch	Enable/disable Forti-Switch logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable Forti-Switch logging.		
	<i>disable</i>	Disable Forti-Switch logging.		

config free-style

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
category	Log category.	option	-	traffic
	Option	Description		
	<i>traffic</i>	Traffic log.		
	<i>event</i>	Event log.		
	<i>virus</i>	Antivirus log.		
	<i>webfilter</i>	Web filter log.		
	<i>attack</i>	Attack log.		
	<i>spam</i>	Antispam log.		
	<i>anomaly</i>	Anomaly log.		
	<i>voip</i>	VoIP log.		
	<i>dlp</i>	DLP log.		
	<i>app-ctrl</i>	Application control log.		
	<i>waf</i>	Web application firewall log.		
	<i>dns</i>	DNS detail log.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>ssh</i>	SSH log.		
	<i>ssl</i>	SSL log.		
	<i>file-filter</i>	File filter log.		
	<i>icap</i>	ICAP log.		
	<i>virtual-patch</i>	Virtual patch log.		
filter	Free style filter string.	string	Maximum length: 1023	
filter-type	Include/exclude logs that match the filter.	option	-	include
	Option	Description		
	<i>include</i>	Include logs that match the filter.		
	<i>exclude</i>	Exclude logs that match the filter.		

config log fortianalyzer override-setting

Override FortiAnalyzer settings.

```
config log fortianalyzer override-setting
  Description: Override FortiAnalyzer settings.
  set use-management-vdom [enable|disable]
  set status [enable|disable]
  set ips-archive [enable|disable]
  set server {string}
  set alt-server {string}
  set fallback-to-primary [enable|disable]
  set certificate-verification [enable|disable]
  set serial <name1>, <name2>, ...
  set server-cert-ca {string}
  set preshared-key {string}
  set access-config [enable|disable]
  set hmac-algorithm {option}
  set enc-algorithm [high-medium|high|...]
  set ssl-min-proto-version [default|SSLv3|...]
  set conn-timeout {integer}
  set monitor-keepalive-period {integer}
  set monitor-failure-retry-period {integer}
  set certificate {string}
  set source-ip {string}
  set upload-option [store-and-upload|realtime|...]
  set upload-interval [daily|weekly|...]
  set upload-day {user}
  set upload-time {user}
  set reliable [enable|disable]
```

```

set priority [default|low]
set max-log-rate {integer}
set interface-select-method [auto|specify]
set interface {string}

```

end

config log fortianalyzer override-setting

Parameter	Description	Type	Size	Default
use-management-vdom	Enable/disable use of management VDOM IP address as source IP for logs sent to FortiAnalyzer.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable use of management VDOM IP address as source IP for logs sent to FortiAnalyzer.		
	<i>disable</i>	Disable use of management VDOM IP address as source IP for logs sent to FortiAnalyzer.		
status	Enable/disable logging to FortiAnalyzer.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable logging to FortiAnalyzer.		
	<i>disable</i>	Disable logging to FortiAnalyzer.		
ips-archive	Enable/disable IPS packet archive logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable IPS packet archive logging.		
	<i>disable</i>	Disable IPS packet archive logging.		
server	The remote FortiAnalyzer.	string	Maximum length: 127	
alt-server	Alternate FortiAnalyzer.	string	Maximum length: 127	
fallback-to-primary	Enable/disable this FortiGate unit to fallback to the primary FortiAnalyzer when it is available.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable this FortiGate unit to fallback to the primary FortiAnalyzer when it is available.		
	<i>disable</i>	Disable this FortiGate unit to fallback to the primary FortiAnalyzer when it is available.		

Parameter	Description	Type	Size	Default								
certificate-verification	Enable/disable identity verification of FortiAnalyzer by use of certificate.	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable identity verification of FortiAnalyzer by use of certificate.</td></tr><tr><td><i>disable</i></td><td>Disable identity verification of FortiAnalyzer by use of certificate.</td></tr></table>	Option	Description	<i>enable</i>	Enable identity verification of FortiAnalyzer by use of certificate.	<i>disable</i>	Disable identity verification of FortiAnalyzer by use of certificate.					
Option	Description											
<i>enable</i>	Enable identity verification of FortiAnalyzer by use of certificate.											
<i>disable</i>	Disable identity verification of FortiAnalyzer by use of certificate.											
serial <name>	Serial numbers of the FortiAnalyzer. Serial Number.	string	Maximum length: 79									
server-cert-ca	Mandatory CA on FortiGate in certificate chain of server.	string	Maximum length: 79									
preshared-key	Preshared-key used for auto-authorization on FortiAnalyzer.	string	Maximum length: 63									
access-config	Enable/disable FortiAnalyzer access to configuration and data.	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable FortiAnalyzer access to configuration and data.</td></tr><tr><td><i>disable</i></td><td>Disable FortiAnalyzer access to configuration and data.</td></tr></table>	Option	Description	<i>enable</i>	Enable FortiAnalyzer access to configuration and data.	<i>disable</i>	Disable FortiAnalyzer access to configuration and data.					
Option	Description											
<i>enable</i>	Enable FortiAnalyzer access to configuration and data.											
<i>disable</i>	Disable FortiAnalyzer access to configuration and data.											
hmac-algorithm	OFTP login hash algorithm.	option	-	sha256								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>sha256</i></td><td>Use SHA256 as HMAC algorithm.</td></tr></table>	Option	Description	<i>sha256</i>	Use SHA256 as HMAC algorithm.							
Option	Description											
<i>sha256</i>	Use SHA256 as HMAC algorithm.											
enc-algorithm	Configure the level of SSL protection for secure communication with FortiAnalyzer.	option	-	high								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>high-medium</i></td><td>Encrypt logs using high and medium encryption algorithms.</td></tr><tr><td><i>high</i></td><td>Encrypt logs using high encryption algorithms.</td></tr><tr><td><i>low</i></td><td>Encrypt logs using all encryption algorithms.</td></tr></table>	Option	Description	<i>high-medium</i>	Encrypt logs using high and medium encryption algorithms.	<i>high</i>	Encrypt logs using high encryption algorithms.	<i>low</i>	Encrypt logs using all encryption algorithms.			
Option	Description											
<i>high-medium</i>	Encrypt logs using high and medium encryption algorithms.											
<i>high</i>	Encrypt logs using high encryption algorithms.											
<i>low</i>	Encrypt logs using all encryption algorithms.											
ssl-min-protocol-version	Minimum supported protocol version for SSL/TLS connections (default is to follow system global setting).	option	-	default								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>default</i></td><td>Follow system global setting.</td></tr></table>	Option	Description	<i>default</i>	Follow system global setting.							
Option	Description											
<i>default</i>	Follow system global setting.											

Parameter	Description	Type	Size	Default												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>SSLv3</td><td>SSLv3.</td></tr><tr><td>TLSv1</td><td>TLSv1.</td></tr><tr><td>TLSv1-1</td><td>TLSv1.1.</td></tr><tr><td>TLSv1-2</td><td>TLSv1.2.</td></tr><tr><td>TLSv1-3</td><td>TLSv1.3.</td></tr></table>	Option	Description	SSLv3	SSLv3.	TLSv1	TLSv1.	TLSv1-1	TLSv1.1.	TLSv1-2	TLSv1.2.	TLSv1-3	TLSv1.3.			
	Option	Description														
	SSLv3	SSLv3.														
	TLSv1	TLSv1.														
	TLSv1-1	TLSv1.1.														
	TLSv1-2	TLSv1.2.														
TLSv1-3	TLSv1.3.															
conn-timeout	FortiAnalyzer connection time-out in seconds (for status and log buffer).	integer	Minimum value: 1 Maximum value: 3600	10												
monitor-keepalive-period	Time between OFTP keepalives in seconds (for status and log buffer).	integer	Minimum value: 1 Maximum value: 120	5												
monitor-failure-retry-period	Time between FortiAnalyzer connection retries in seconds (for status and log buffer).	integer	Minimum value: 1 Maximum value: 86400	5												
certificate	Certificate used to communicate with FortiAnalyzer.	string	Maximum length: 35													
source-ip	Source IPv4 or IPv6 address used to communicate with FortiAnalyzer.	string	Maximum length: 63													
upload-option	Enable/disable logging to hard disk and then uploading to FortiAnalyzer.	option	-	5-minute												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>store-and-upload</td><td>Log to hard disk and then upload to FortiAnalyzer.</td></tr><tr><td>realtime</td><td>Log directly to FortiAnalyzer in real time.</td></tr><tr><td>1-minute</td><td>Log directly to FortiAnalyzer at least every 1 minute.</td></tr><tr><td>5-minute</td><td>Log directly to FortiAnalyzer at least every 5 minutes.</td></tr></table>	Option	Description	store-and-upload	Log to hard disk and then upload to FortiAnalyzer.	realtime	Log directly to FortiAnalyzer in real time.	1-minute	Log directly to FortiAnalyzer at least every 1 minute.	5-minute	Log directly to FortiAnalyzer at least every 5 minutes.					
	Option	Description														
	store-and-upload	Log to hard disk and then upload to FortiAnalyzer.														
	realtime	Log directly to FortiAnalyzer in real time.														
	1-minute	Log directly to FortiAnalyzer at least every 1 minute.														
5-minute	Log directly to FortiAnalyzer at least every 5 minutes.															
upload-interval	Frequency to upload log files to FortiAnalyzer.	option	-	daily												

Parameter	Description	Type	Size	Default								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>daily</i></td><td>Upload log files to FortiAnalyzer once a day.</td></tr><tr><td><i>weekly</i></td><td>Upload log files to FortiAnalyzer once a week.</td></tr><tr><td><i>monthly</i></td><td>Upload log files to FortiAnalyzer once a month.</td></tr></table>	Option	Description	<i>daily</i>	Upload log files to FortiAnalyzer once a day.	<i>weekly</i>	Upload log files to FortiAnalyzer once a week.	<i>monthly</i>	Upload log files to FortiAnalyzer once a month.			
	Option	Description										
	<i>daily</i>	Upload log files to FortiAnalyzer once a day.										
	<i>weekly</i>	Upload log files to FortiAnalyzer once a week.										
<i>monthly</i>	Upload log files to FortiAnalyzer once a month.											
upload-day	Day of week (month) to upload logs.	user	Not Specified									
upload-time	Time to upload logs (hh:mm).	user	Not Specified									
reliable	Enable/disable reliable logging to FortiAnalyzer.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable reliable logging to FortiAnalyzer.</td></tr><tr><td><i>disable</i></td><td>Disable reliable logging to FortiAnalyzer.</td></tr></table>	Option	Description	<i>enable</i>	Enable reliable logging to FortiAnalyzer.	<i>disable</i>	Disable reliable logging to FortiAnalyzer.					
	Option	Description										
	<i>enable</i>	Enable reliable logging to FortiAnalyzer.										
<i>disable</i>	Disable reliable logging to FortiAnalyzer.											
priority	Set log transmission priority.	option	-	default								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>default</i></td><td>Set FortiAnalyzer log transmission priority to default.</td></tr><tr><td><i>low</i></td><td>Set FortiAnalyzer log transmission priority to low.</td></tr></table>	Option	Description	<i>default</i>	Set FortiAnalyzer log transmission priority to default.	<i>low</i>	Set FortiAnalyzer log transmission priority to low.					
	Option	Description										
	<i>default</i>	Set FortiAnalyzer log transmission priority to default.										
<i>low</i>	Set FortiAnalyzer log transmission priority to low.											
max-log-rate	FortiAnalyzer maximum log rate in MBps (0 = unlimited).	integer	Minimum value: 0 Maximum value: 100000	0								
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>auto</i></td><td>Set outgoing interface automatically.</td></tr><tr><td><i>specify</i></td><td>Set outgoing interface manually.</td></tr></table>	Option	Description	<i>auto</i>	Set outgoing interface automatically.	<i>specify</i>	Set outgoing interface manually.					
	Option	Description										
	<i>auto</i>	Set outgoing interface automatically.										
<i>specify</i>	Set outgoing interface manually.											
interface	Specify outgoing interface to reach server.	string	Maximum length: 15									

config log fortianalyzer setting

Global FortiAnalyzer settings.

```

config log fortianalyzer setting
    Description: Global FortiAnalyzer settings.
    set status [enable|disable]
    set ips-archive [enable|disable]
    set server {string}
    set alt-server {string}
    set fallback-to-primary [enable|disable]
    set certificate-verification [enable|disable]
    set serial <name1>, <name2>, ...
    set server-cert-ca {string}
    set preshared-key {string}
    set access-config [enable|disable]
    set hmac-algorithm {option}
    set enc-algorithm [high-medium|high|...]
    set ssl-min-proto-version [default|SSLv3|...]
    set conn-timeout {integer}
    set monitor-keepalive-period {integer}
    set monitor-failure-retry-period {integer}
    set certificate {string}
    set source-ip {string}
    set upload-option [store-and-upload|realtime|...]
    set upload-interval [daily|weekly|...]
    set upload-day {user}
    set upload-time {user}
    set reliable [enable|disable]
    set priority [default|low]
    set max-log-rate {integer}
    set interface-select-method [auto|specify]
    set interface {string}
end

```

config log fortianalyzer setting

Parameter	Description	Type	Size	Default
status	Enable/disable logging to FortiAnalyzer.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable logging to FortiAnalyzer.		
	<i>disable</i>	Disable logging to FortiAnalyzer.		
ips-archive	Enable/disable IPS packet archive logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable IPS packet archive logging.		
	<i>disable</i>	Disable IPS packet archive logging.		
server	The remote FortiAnalyzer.	string	Maximum length: 127	

Parameter	Description	Type	Size	Default						
alt-server	Alternate FortiAnalyzer.	string	Maximum length: 127							
fallback-to-primary	Enable/disable this FortiGate unit to fallback to the primary FortiAnalyzer when it is available.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable this FortiGate unit to fallback to the primary FortiAnalyzer when it is available.</td></tr><tr><td><i>disable</i></td><td>Disable this FortiGate unit to fallback to the primary FortiAnalyzer when it is available.</td></tr></table>	Option	Description	<i>enable</i>	Enable this FortiGate unit to fallback to the primary FortiAnalyzer when it is available.	<i>disable</i>	Disable this FortiGate unit to fallback to the primary FortiAnalyzer when it is available.			
Option	Description									
<i>enable</i>	Enable this FortiGate unit to fallback to the primary FortiAnalyzer when it is available.									
<i>disable</i>	Disable this FortiGate unit to fallback to the primary FortiAnalyzer when it is available.									
certificate-verification	Enable/disable identity verification of FortiAnalyzer by use of certificate.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable identity verification of FortiAnalyzer by use of certificate.</td></tr><tr><td><i>disable</i></td><td>Disable identity verification of FortiAnalyzer by use of certificate.</td></tr></table>	Option	Description	<i>enable</i>	Enable identity verification of FortiAnalyzer by use of certificate.	<i>disable</i>	Disable identity verification of FortiAnalyzer by use of certificate.			
Option	Description									
<i>enable</i>	Enable identity verification of FortiAnalyzer by use of certificate.									
<i>disable</i>	Disable identity verification of FortiAnalyzer by use of certificate.									
serial <name>	Serial numbers of the FortiAnalyzer. Serial Number.	string	Maximum length: 79							
server-cert-ca	Mandatory CA on FortiGate in certificate chain of server.	string	Maximum length: 79							
preshared-key	Preshared-key used for auto-authorization on FortiAnalyzer.	string	Maximum length: 63							
access-config	Enable/disable FortiAnalyzer access to configuration and data.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable FortiAnalyzer access to configuration and data.</td></tr><tr><td><i>disable</i></td><td>Disable FortiAnalyzer access to configuration and data.</td></tr></table>	Option	Description	<i>enable</i>	Enable FortiAnalyzer access to configuration and data.	<i>disable</i>	Disable FortiAnalyzer access to configuration and data.			
Option	Description									
<i>enable</i>	Enable FortiAnalyzer access to configuration and data.									
<i>disable</i>	Disable FortiAnalyzer access to configuration and data.									
hmac-algorithm	OFTP login hash algorithm.	option	-	sha256						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>sha256</i></td><td>Use SHA256 as HMAC algorithm.</td></tr></table>	Option	Description	<i>sha256</i>	Use SHA256 as HMAC algorithm.					
Option	Description									
<i>sha256</i>	Use SHA256 as HMAC algorithm.									
enc-algorithm	Configure the level of SSL protection for secure communication with FortiAnalyzer.	option	-	high						

Parameter	Description	Type	Size	Default														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>high-medium</i></td><td>Encrypt logs using high and medium encryption algorithms.</td></tr><tr><td><i>high</i></td><td>Encrypt logs using high encryption algorithms.</td></tr><tr><td><i>low</i></td><td>Encrypt logs using all encryption algorithms.</td></tr></table>	Option	Description	<i>high-medium</i>	Encrypt logs using high and medium encryption algorithms.	<i>high</i>	Encrypt logs using high encryption algorithms.	<i>low</i>	Encrypt logs using all encryption algorithms.									
	Option	Description																
	<i>high-medium</i>	Encrypt logs using high and medium encryption algorithms.																
	<i>high</i>	Encrypt logs using high encryption algorithms.																
<i>low</i>	Encrypt logs using all encryption algorithms.																	
ssl-min-protocol-version	Minimum supported protocol version for SSL/TLS connections (default is to follow system global setting).	option	-	default														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>default</i></td><td>Follow system global setting.</td></tr><tr><td><i>SSLv3</i></td><td>SSLv3.</td></tr><tr><td><i>TLSv1</i></td><td>TLSv1.</td></tr><tr><td><i>TLSv1-1</i></td><td>TLSv1.1.</td></tr><tr><td><i>TLSv1-2</i></td><td>TLSv1.2.</td></tr><tr><td><i>TLSv1-3</i></td><td>TLSv1.3.</td></tr></table>	Option	Description	<i>default</i>	Follow system global setting.	<i>SSLv3</i>	SSLv3.	<i>TLSv1</i>	TLSv1.	<i>TLSv1-1</i>	TLSv1.1.	<i>TLSv1-2</i>	TLSv1.2.	<i>TLSv1-3</i>	TLSv1.3.			
	Option	Description																
	<i>default</i>	Follow system global setting.																
	<i>SSLv3</i>	SSLv3.																
	<i>TLSv1</i>	TLSv1.																
	<i>TLSv1-1</i>	TLSv1.1.																
	<i>TLSv1-2</i>	TLSv1.2.																
<i>TLSv1-3</i>	TLSv1.3.																	
conn-timeout	FortiAnalyzer connection time-out in seconds (for status and log buffer).	integer	Minimum value: 1 Maximum value: 3600	10														
monitor-keepalive-period	Time between OFTP keepalives in seconds (for status and log buffer).	integer	Minimum value: 1 Maximum value: 120	5														
monitor-failure-retry-period	Time between FortiAnalyzer connection retries in seconds (for status and log buffer).	integer	Minimum value: 1 Maximum value: 86400	5														
certificate	Certificate used to communicate with FortiAnalyzer.	string	Maximum length: 35															
source-ip	Source IPv4 or IPv6 address used to communicate with FortiAnalyzer.	string	Maximum length: 63															
upload-option	Enable/disable logging to hard disk and then uploading to FortiAnalyzer.	option	-	5-minute														

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>store-and-upload</i>	Log to hard disk and then upload to FortiAnalyzer.		
	<i>realtime</i>	Log directly to FortiAnalyzer in real time.		
	<i>1-minute</i>	Log directly to FortiAnalyzer at least every 1 minute.		
	<i>5-minute</i>	Log directly to FortiAnalyzer at least every 5 minutes.		
upload-interval	Frequency to upload log files to FortiAnalyzer.	option	-	daily
	Option	Description		
	<i>daily</i>	Upload log files to FortiAnalyzer once a day.		
	<i>weekly</i>	Upload log files to FortiAnalyzer once a week.		
	<i>monthly</i>	Upload log files to FortiAnalyzer once a month.		
upload-day	Day of week (month) to upload logs.	user	Not Specified	
upload-time	Time to upload logs (hh:mm).	user	Not Specified	
reliable	Enable/disable reliable logging to FortiAnalyzer.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable reliable logging to FortiAnalyzer.		
	<i>disable</i>	Disable reliable logging to FortiAnalyzer.		
priority	Set log transmission priority.	option	-	default
	Option	Description		
	<i>default</i>	Set FortiAnalyzer log transmission priority to default.		
	<i>low</i>	Set FortiAnalyzer log transmission priority to low.		
max-log-rate	FortiAnalyzer maximum log rate in MBps (0 = unlimited).	integer	Minimum value: 0 Maximum value: 100000	0
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>auto</i>	Set outgoing interface automatically.		
	<i>specify</i>	Set outgoing interface manually.		
interface	Specify outgoing interface to reach server.	string	Maximum length: 15	

config log fortianalyzer2 filter

Filters for FortiAnalyzer.

```
config log fortianalyzer2 filter
    Description: Filters for FortiAnalyzer.
    set severity [emergency|alert|...]
    set forward-traffic [enable|disable]
    set local-traffic [enable|disable]
    set multicast-traffic [enable|disable]
    set sniffer-traffic [enable|disable]
    set ztna-traffic [enable|disable]
    set http-transaction [enable|disable]
    set anomaly [enable|disable]
    set voip [enable|disable]
    set dlp-archive [enable|disable]
    set forti-switch [enable|disable]
    config free-style
        Description: Free style filters.
        edit <id>
            set category [traffic|event|...]
            set filter {string}
            set filter-type [include|exclude]
        next
    end
end
```

config log fortianalyzer2 filter

Parameter	Description	Type	Size	Default
severity	Log every message above and including this severity level.	option	-	information
	Option	Description		
	<i>emergency</i>	Emergency level.		
	<i>alert</i>	Alert level.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>critical</i>	Critical level.		
	<i>error</i>	Error level.		
	<i>warning</i>	Warning level.		
	<i>notification</i>	Notification level.		
	<i>information</i>	Information level.		
	<i>debug</i>	Debug level.		
forward-traffic	Enable/disable forward traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable forward traffic logging.		
	<i>disable</i>	Disable forward traffic logging.		
local-traffic	Enable/disable local in or out traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable local in or out traffic logging.		
	<i>disable</i>	Disable local in or out traffic logging.		
multicast-traffic	Enable/disable multicast traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable multicast traffic logging.		
	<i>disable</i>	Disable multicast traffic logging.		
sniffer-traffic	Enable/disable sniffer traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable sniffer traffic logging.		
	<i>disable</i>	Disable sniffer traffic logging.		
ztna-traffic	Enable/disable ztna traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable ztna traffic logging.		
	<i>disable</i>	Disable ztna traffic logging.		

Parameter	Description	Type	Size	Default						
http-transaction	Enable/disable log http-transaction messages.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable http transaction logging.</td></tr><tr><td><i>disable</i></td><td>Disable http transaction logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable http transaction logging.	<i>disable</i>	Disable http transaction logging.			
Option	Description									
<i>enable</i>	Enable http transaction logging.									
<i>disable</i>	Disable http transaction logging.									
anomaly	Enable/disable anomaly logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable anomaly logging.</td></tr><tr><td><i>disable</i></td><td>Disable anomaly logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable anomaly logging.	<i>disable</i>	Disable anomaly logging.			
Option	Description									
<i>enable</i>	Enable anomaly logging.									
<i>disable</i>	Disable anomaly logging.									
voip	Enable/disable VoIP logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable VoIP logging.</td></tr><tr><td><i>disable</i></td><td>Disable VoIP logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable VoIP logging.	<i>disable</i>	Disable VoIP logging.			
Option	Description									
<i>enable</i>	Enable VoIP logging.									
<i>disable</i>	Disable VoIP logging.									
dlp-archive	Enable/disable DLP archive logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable DLP archive logging.</td></tr><tr><td><i>disable</i></td><td>Disable DLP archive logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable DLP archive logging.	<i>disable</i>	Disable DLP archive logging.			
Option	Description									
<i>enable</i>	Enable DLP archive logging.									
<i>disable</i>	Disable DLP archive logging.									
forti-switch	Enable/disable Forti-Switch logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable Forti-Switch logging.</td></tr><tr><td><i>disable</i></td><td>Disable Forti-Switch logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable Forti-Switch logging.	<i>disable</i>	Disable Forti-Switch logging.			
Option	Description									
<i>enable</i>	Enable Forti-Switch logging.									
<i>disable</i>	Disable Forti-Switch logging.									

config free-style

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
category	Log category.	option	-	traffic

Parameter	Description	Type	Size	Default																																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>traffic</i></td><td>Traffic log.</td></tr><tr><td><i>event</i></td><td>Event log.</td></tr><tr><td><i>virus</i></td><td>Antivirus log.</td></tr><tr><td><i>webfilter</i></td><td>Web filter log.</td></tr><tr><td><i>attack</i></td><td>Attack log.</td></tr><tr><td><i>spam</i></td><td>Antispam log.</td></tr><tr><td><i>anomaly</i></td><td>Anomaly log.</td></tr><tr><td><i>voip</i></td><td>VoIP log.</td></tr><tr><td><i>dlp</i></td><td>DLP log.</td></tr><tr><td><i>app-ctrl</i></td><td>Application control log.</td></tr><tr><td><i>waf</i></td><td>Web application firewall log.</td></tr><tr><td><i>dns</i></td><td>DNS detail log.</td></tr><tr><td><i>ssh</i></td><td>SSH log.</td></tr><tr><td><i>ssl</i></td><td>SSL log.</td></tr><tr><td><i>file-filter</i></td><td>File filter log.</td></tr><tr><td><i>icap</i></td><td>ICAP log.</td></tr><tr><td><i>virtual-patch</i></td><td>Virtual patch log.</td></tr></table>	Option	Description	<i>traffic</i>	Traffic log.	<i>event</i>	Event log.	<i>virus</i>	Antivirus log.	<i>webfilter</i>	Web filter log.	<i>attack</i>	Attack log.	<i>spam</i>	Antispam log.	<i>anomaly</i>	Anomaly log.	<i>voip</i>	VoIP log.	<i>dlp</i>	DLP log.	<i>app-ctrl</i>	Application control log.	<i>waf</i>	Web application firewall log.	<i>dns</i>	DNS detail log.	<i>ssh</i>	SSH log.	<i>ssl</i>	SSL log.	<i>file-filter</i>	File filter log.	<i>icap</i>	ICAP log.	<i>virtual-patch</i>	Virtual patch log.			
	Option	Description																																						
	<i>traffic</i>	Traffic log.																																						
	<i>event</i>	Event log.																																						
	<i>virus</i>	Antivirus log.																																						
	<i>webfilter</i>	Web filter log.																																						
	<i>attack</i>	Attack log.																																						
	<i>spam</i>	Antispam log.																																						
	<i>anomaly</i>	Anomaly log.																																						
	<i>voip</i>	VoIP log.																																						
	<i>dlp</i>	DLP log.																																						
	<i>app-ctrl</i>	Application control log.																																						
	<i>waf</i>	Web application firewall log.																																						
	<i>dns</i>	DNS detail log.																																						
	<i>ssh</i>	SSH log.																																						
	<i>ssl</i>	SSL log.																																						
	<i>file-filter</i>	File filter log.																																						
	<i>icap</i>	ICAP log.																																						
<i>virtual-patch</i>	Virtual patch log.																																							
filter	Free style filter string.	string	Maximum length: 1023																																					
filter-type	Include/exclude logs that match the filter.	option	-	include																																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>include</i></td><td>Include logs that match the filter.</td></tr><tr><td><i>exclude</i></td><td>Exclude logs that match the filter.</td></tr></table>	Option	Description	<i>include</i>	Include logs that match the filter.	<i>exclude</i>	Exclude logs that match the filter.																																	
	Option	Description																																						
	<i>include</i>	Include logs that match the filter.																																						
<i>exclude</i>	Exclude logs that match the filter.																																							

config log fortianalyzer2 override-filter

Override filters for FortiAnalyzer.

```
config log fortianalyzer2 override-filter
  Description: Override filters for FortiAnalyzer.
  set severity [emergency|alert|...]
  set forward-traffic [enable|disable]
  set local-traffic [enable|disable]
```

```

set multicast-traffic [enable|disable]
set sniffer-traffic [enable|disable]
set ztna-traffic [enable|disable]
set http-transaction [enable|disable]
set anomaly [enable|disable]
set voip [enable|disable]
set dlp-archive [enable|disable]
set forti-switch [enable|disable]
config free-style
    Description: Free style filters.
    edit <id>
        set category [traffic|event|...]
        set filter {string}
        set filter-type [include|exclude]
    next
end
end

```

config log fortianalyzer2 override-filter

Parameter	Description	Type	Size	Default
severity	Log every message above and including this severity level.	option	-	information
	Option	Description		
	<i>emergency</i>	Emergency level.		
	<i>alert</i>	Alert level.		
	<i>critical</i>	Critical level.		
	<i>error</i>	Error level.		
	<i>warning</i>	Warning level.		
	<i>notification</i>	Notification level.		
	<i>information</i>	Information level.		
	<i>debug</i>	Debug level.		
forward-traffic	Enable/disable forward traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable forward traffic logging.		
	<i>disable</i>	Disable forward traffic logging.		
local-traffic	Enable/disable local in or out traffic logging.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable local in or out traffic logging.		
	<i>disable</i>	Disable local in or out traffic logging.		
multicast-traffic	Enable/disable multicast traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable multicast traffic logging.		
	<i>disable</i>	Disable multicast traffic logging.		
sniffer-traffic	Enable/disable sniffer traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable sniffer traffic logging.		
	<i>disable</i>	Disable sniffer traffic logging.		
ztna-traffic	Enable/disable ztna traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable ztna traffic logging.		
	<i>disable</i>	Disable ztna traffic logging.		
http-transaction	Enable/disable log http-transaction messages.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable http transaction logging.		
	<i>disable</i>	Disable http transaction logging.		
anomaly	Enable/disable anomaly logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable anomaly logging.		
	<i>disable</i>	Disable anomaly logging.		
voip	Enable/disable VoIP logging.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable VoIP logging.		
	<i>disable</i>	Disable VoIP logging.		
dlp-archive	Enable/disable DLP archive logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable DLP archive logging.		
	<i>disable</i>	Disable DLP archive logging.		
forti-switch	Enable/disable Forti-Switch logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable Forti-Switch logging.		
	<i>disable</i>	Disable Forti-Switch logging.		

config free-style

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
category	Log category.	option	-	traffic
	Option	Description		
	<i>traffic</i>	Traffic log.		
	<i>event</i>	Event log.		
	<i>virus</i>	Antivirus log.		
	<i>webfilter</i>	Web filter log.		
	<i>attack</i>	Attack log.		
	<i>spam</i>	Antispam log.		
	<i>anomaly</i>	Anomaly log.		
	<i>voip</i>	VoIP log.		
	<i>dlp</i>	DLP log.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>app-ctrl</i>	Application control log.		
	<i>waf</i>	Web application firewall log.		
	<i>dns</i>	DNS detail log.		
	<i>ssh</i>	SSH log.		
	<i>ssl</i>	SSL log.		
	<i>file-filter</i>	File filter log.		
	<i>icap</i>	ICAP log.		
	<i>virtual-patch</i>	Virtual patch log.		
filter	Free style filter string.	string	Maximum length: 1023	
filter-type	Include/exclude logs that match the filter.	option	-	include
	Option	Description		
	<i>include</i>	Include logs that match the filter.		
	<i>exclude</i>	Exclude logs that match the filter.		

config log fortianalyzer2 override-setting

Override FortiAnalyzer settings.

```
config log fortianalyzer2 override-setting
    Description: Override FortiAnalyzer settings.
    set use-management-vdom [enable|disable]
    set status [enable|disable]
    set ips-archive [enable|disable]
    set server {string}
    set alt-server {string}
    set fallback-to-primary [enable|disable]
    set certificate-verification [enable|disable]
    set serial <name1>, <name2>, ...
    set server-cert-ca {string}
    set preshared-key {string}
    set access-config [enable|disable]
    set hmac-algorithm {option}
    set enc-algorithm [high-medium|high|...]
    set ssl-min-proto-version [default|SSLv3|...]
    set conn-timeout {integer}
    set monitor-keepalive-period {integer}
    set monitor-failure-retry-period {integer}
    set certificate {string}
    set source-ip {string}
```

```

set upload-option [store-and-upload|realtime|...]
set upload-interval [daily|weekly|...]
set upload-day {user}
set upload-time {user}
set reliable [enable|disable]
set priority [default|low]
set max-log-rate {integer}
set interface-select-method [auto|specify]
set interface {string}

```

end

config log fortianalyzer2 override-setting

Parameter	Description	Type	Size	Default
use-management-vdom	Enable/disable use of management VDOM IP address as source IP for logs sent to FortiAnalyzer.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable use of management VDOM IP address as source IP for logs sent to FortiAnalyzer.		
	<i>disable</i>	Disable use of management VDOM IP address as source IP for logs sent to FortiAnalyzer.		
status	Enable/disable logging to FortiAnalyzer.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable logging to FortiAnalyzer.		
	<i>disable</i>	Disable logging to FortiAnalyzer.		
ips-archive	Enable/disable IPS packet archive logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable IPS packet archive logging.		
	<i>disable</i>	Disable IPS packet archive logging.		
server	The remote FortiAnalyzer.	string	Maximum length: 127	
alt-server	Alternate FortiAnalyzer.	string	Maximum length: 127	
fallback-to-primary	Enable/disable this FortiGate unit to fallback to the primary FortiAnalyzer when it is available.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable this FortiGate unit to fallback to the primary FortiAnalyzer when it is available.		
	<i>disable</i>	Disable this FortiGate unit to fallback to the primary FortiAnalyzer when it is available.		
certificate-verification	Enable/disable identity verification of FortiAnalyzer by use of certificate.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable identity verification of FortiAnalyzer by use of certificate.		
	<i>disable</i>	Disable identity verification of FortiAnalyzer by use of certificate.		
serial <name>	Serial numbers of the FortiAnalyzer. Serial Number.	string	Maximum length: 79	
server-cert-ca	Mandatory CA on FortiGate in certificate chain of server.	string	Maximum length: 79	
preshared-key	Preshared-key used for auto-authorization on FortiAnalyzer.	string	Maximum length: 63	
access-config	Enable/disable FortiAnalyzer access to configuration and data.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable FortiAnalyzer access to configuration and data.		
	<i>disable</i>	Disable FortiAnalyzer access to configuration and data.		
hmac-algorithm	OFTP login hash algorithm.	option	-	sha256
	Option	Description		
	<i>sha256</i>	Use SHA256 as HMAC algorithm.		
enc-algorithm	Configure the level of SSL protection for secure communication with FortiAnalyzer.	option	-	high
	Option	Description		
	<i>high-medium</i>	Encrypt logs using high and medium encryption algorithms.		
	<i>high</i>	Encrypt logs using high encryption algorithms.		
	<i>low</i>	Encrypt logs using all encryption algorithms.		

Parameter	Description	Type	Size	Default														
ssl-min-protocol-version	Minimum supported protocol version for SSL/TLS connections (default is to follow system global setting).	option	-	default														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>default</td><td>Follow system global setting.</td></tr><tr><td>SSLv3</td><td>SSLv3.</td></tr><tr><td>TLSv1</td><td>TLSv1.</td></tr><tr><td>TLSv1-1</td><td>TLSv1.1.</td></tr><tr><td>TLSv1-2</td><td>TLSv1.2.</td></tr><tr><td>TLSv1-3</td><td>TLSv1.3.</td></tr></table>	Option	Description	default	Follow system global setting.	SSLv3	SSLv3.	TLSv1	TLSv1.	TLSv1-1	TLSv1.1.	TLSv1-2	TLSv1.2.	TLSv1-3	TLSv1.3.			
	Option	Description																
	default	Follow system global setting.																
	SSLv3	SSLv3.																
	TLSv1	TLSv1.																
	TLSv1-1	TLSv1.1.																
	TLSv1-2	TLSv1.2.																
TLSv1-3	TLSv1.3.																	
conn-timeout	FortiAnalyzer connection time-out in seconds (for status and log buffer).	integer	Minimum value: 1 Maximum value: 3600	10														
monitor-keepalive-period	Time between OFTP keepalives in seconds (for status and log buffer).	integer	Minimum value: 1 Maximum value: 120	5														
monitor-failure-retry-period	Time between FortiAnalyzer connection retries in seconds (for status and log buffer).	integer	Minimum value: 1 Maximum value: 86400	5														
certificate	Certificate used to communicate with FortiAnalyzer.	string	Maximum length: 35															
source-ip	Source IPv4 or IPv6 address used to communicate with FortiAnalyzer.	string	Maximum length: 63															
upload-option	Enable/disable logging to hard disk and then uploading to FortiAnalyzer.	option	-	5-minute														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>store-and-upload</td><td>Log to hard disk and then upload to FortiAnalyzer.</td></tr><tr><td>realtime</td><td>Log directly to FortiAnalyzer in real time.</td></tr><tr><td>1-minute</td><td>Log directly to FortiAnalyzer at least every 1 minute.</td></tr><tr><td>5-minute</td><td>Log directly to FortiAnalyzer at least every 5 minutes.</td></tr></table>	Option	Description	store-and-upload	Log to hard disk and then upload to FortiAnalyzer.	realtime	Log directly to FortiAnalyzer in real time.	1-minute	Log directly to FortiAnalyzer at least every 1 minute.	5-minute	Log directly to FortiAnalyzer at least every 5 minutes.							
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	store-and-upload	Log to hard disk and then upload to FortiAnalyzer.																
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	1-minute	Log directly to FortiAnalyzer at least every 1 minute.																
5-minute	Log directly to FortiAnalyzer at least every 5 minutes.																	

Parameter	Description	Type	Size	Default								
upload-interval	Frequency to upload log files to FortiAnalyzer.	option	-	daily								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>daily</td><td>Upload log files to FortiAnalyzer once a day.</td></tr><tr><td>weekly</td><td>Upload log files to FortiAnalyzer once a week.</td></tr><tr><td>monthly</td><td>Upload log files to FortiAnalyzer once a month.</td></tr></table>				Option	Description	daily	Upload log files to FortiAnalyzer once a day.	weekly	Upload log files to FortiAnalyzer once a week.	monthly	Upload log files to FortiAnalyzer once a month.
	Option	Description										
	daily	Upload log files to FortiAnalyzer once a day.										
	weekly	Upload log files to FortiAnalyzer once a week.										
monthly	Upload log files to FortiAnalyzer once a month.											
upload-day	Day of week (month) to upload logs.	user	Not Specified									
upload-time	Time to upload logs (hh:mm).	user	Not Specified									
reliable	Enable/disable reliable logging to FortiAnalyzer.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable reliable logging to FortiAnalyzer.</td></tr><tr><td>disable</td><td>Disable reliable logging to FortiAnalyzer.</td></tr></table>				Option	Description	enable	Enable reliable logging to FortiAnalyzer.	disable	Disable reliable logging to FortiAnalyzer.		
	Option	Description										
	enable	Enable reliable logging to FortiAnalyzer.										
disable	Disable reliable logging to FortiAnalyzer.											
priority	Set log transmission priority.	option	-	default								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>default</td><td>Set FortiAnalyzer log transmission priority to default.</td></tr><tr><td>low</td><td>Set FortiAnalyzer log transmission priority to low.</td></tr></table>				Option	Description	default	Set FortiAnalyzer log transmission priority to default.	low	Set FortiAnalyzer log transmission priority to low.		
	Option	Description										
	default	Set FortiAnalyzer log transmission priority to default.										
low	Set FortiAnalyzer log transmission priority to low.											
max-log-rate	FortiAnalyzer maximum log rate in MBps (0 = unlimited).	integer	Minimum value: 0 Maximum value: 100000	0								
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>auto</td><td>Set outgoing interface automatically.</td></tr><tr><td>specify</td><td>Set outgoing interface manually.</td></tr></table>				Option	Description	auto	Set outgoing interface automatically.	specify	Set outgoing interface manually.		
	Option	Description										
	auto	Set outgoing interface automatically.										
specify	Set outgoing interface manually.											
interface	Specify outgoing interface to reach server.	string	Maximum length: 15									

config log fortianalyzer2 setting

Global FortiAnalyzer settings.

```

config log fortianalyzer2 setting
    Description: Global FortiAnalyzer settings.
    set status [enable|disable]
    set ips-archive [enable|disable]
    set server {string}
    set alt-server {string}
    set fallback-to-primary [enable|disable]
    set certificate-verification [enable|disable]
    set serial <name1>, <name2>, ...
    set server-cert-ca {string}
    set preshared-key {string}
    set access-config [enable|disable]
    set hmac-algorithm {option}
    set enc-algorithm [high-medium|high|...]
    set ssl-min-proto-version [default|SSLv3|...]
    set conn-timeout {integer}
    set monitor-keepalive-period {integer}
    set monitor-failure-retry-period {integer}
    set certificate {string}
    set source-ip {string}
    set upload-option [store-and-upload|realtime|...]
    set upload-interval [daily|weekly|...]
    set upload-day {user}
    set upload-time {user}
    set reliable [enable|disable]
    set priority [default|low]
    set max-log-rate {integer}
    set interface-select-method [auto|specify]
    set interface {string}
end

```

config log fortianalyzer2 setting

Parameter	Description	Type	Size	Default
status	Enable/disable logging to FortiAnalyzer.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable logging to FortiAnalyzer.		
	<i>disable</i>	Disable logging to FortiAnalyzer.		
ips-archive	Enable/disable IPS packet archive logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable IPS packet archive logging.		
	<i>disable</i>	Disable IPS packet archive logging.		
server	The remote FortiAnalyzer.	string	Maximum length: 127	

Parameter	Description	Type	Size	Default						
alt-server	Alternate FortiAnalyzer.	string	Maximum length: 127							
fallback-to-primary	Enable/disable this FortiGate unit to fallback to the primary FortiAnalyzer when it is available.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable this FortiGate unit to fallback to the primary FortiAnalyzer when it is available.</td></tr><tr><td><i>disable</i></td><td>Disable this FortiGate unit to fallback to the primary FortiAnalyzer when it is available.</td></tr></table>	Option	Description	<i>enable</i>	Enable this FortiGate unit to fallback to the primary FortiAnalyzer when it is available.	<i>disable</i>	Disable this FortiGate unit to fallback to the primary FortiAnalyzer when it is available.			
Option	Description									
<i>enable</i>	Enable this FortiGate unit to fallback to the primary FortiAnalyzer when it is available.									
<i>disable</i>	Disable this FortiGate unit to fallback to the primary FortiAnalyzer when it is available.									
certificate-verification	Enable/disable identity verification of FortiAnalyzer by use of certificate.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable identity verification of FortiAnalyzer by use of certificate.</td></tr><tr><td><i>disable</i></td><td>Disable identity verification of FortiAnalyzer by use of certificate.</td></tr></table>	Option	Description	<i>enable</i>	Enable identity verification of FortiAnalyzer by use of certificate.	<i>disable</i>	Disable identity verification of FortiAnalyzer by use of certificate.			
Option	Description									
<i>enable</i>	Enable identity verification of FortiAnalyzer by use of certificate.									
<i>disable</i>	Disable identity verification of FortiAnalyzer by use of certificate.									
serial <name>	Serial numbers of the FortiAnalyzer. Serial Number.	string	Maximum length: 79							
server-cert-ca	Mandatory CA on FortiGate in certificate chain of server.	string	Maximum length: 79							
preshared-key	Preshared-key used for auto-authorization on FortiAnalyzer.	string	Maximum length: 63							
access-config	Enable/disable FortiAnalyzer access to configuration and data.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable FortiAnalyzer access to configuration and data.</td></tr><tr><td><i>disable</i></td><td>Disable FortiAnalyzer access to configuration and data.</td></tr></table>	Option	Description	<i>enable</i>	Enable FortiAnalyzer access to configuration and data.	<i>disable</i>	Disable FortiAnalyzer access to configuration and data.			
Option	Description									
<i>enable</i>	Enable FortiAnalyzer access to configuration and data.									
<i>disable</i>	Disable FortiAnalyzer access to configuration and data.									
hmac-algorithm	OFTP login hash algorithm.	option	-	sha256						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>sha256</i></td><td>Use SHA256 as HMAC algorithm.</td></tr></table>	Option	Description	<i>sha256</i>	Use SHA256 as HMAC algorithm.					
Option	Description									
<i>sha256</i>	Use SHA256 as HMAC algorithm.									
enc-algorithm	Configure the level of SSL protection for secure communication with FortiAnalyzer.	option	-	high						

Parameter	Description	Type	Size	Default														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>high-medium</i></td><td>Encrypt logs using high and medium encryption algorithms.</td></tr><tr><td><i>high</i></td><td>Encrypt logs using high encryption algorithms.</td></tr><tr><td><i>low</i></td><td>Encrypt logs using all encryption algorithms.</td></tr></table>	Option	Description	<i>high-medium</i>	Encrypt logs using high and medium encryption algorithms.	<i>high</i>	Encrypt logs using high encryption algorithms.	<i>low</i>	Encrypt logs using all encryption algorithms.									
	Option	Description																
	<i>high-medium</i>	Encrypt logs using high and medium encryption algorithms.																
	<i>high</i>	Encrypt logs using high encryption algorithms.																
<i>low</i>	Encrypt logs using all encryption algorithms.																	
ssl-min-protocol-version	Minimum supported protocol version for SSL/TLS connections (default is to follow system global setting).	option	-	default														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>default</i></td><td>Follow system global setting.</td></tr><tr><td><i>SSLv3</i></td><td>SSLv3.</td></tr><tr><td><i>TLSv1</i></td><td>TLSv1.</td></tr><tr><td><i>TLSv1-1</i></td><td>TLSv1.1.</td></tr><tr><td><i>TLSv1-2</i></td><td>TLSv1.2.</td></tr><tr><td><i>TLSv1-3</i></td><td>TLSv1.3.</td></tr></table>	Option	Description	<i>default</i>	Follow system global setting.	<i>SSLv3</i>	SSLv3.	<i>TLSv1</i>	TLSv1.	<i>TLSv1-1</i>	TLSv1.1.	<i>TLSv1-2</i>	TLSv1.2.	<i>TLSv1-3</i>	TLSv1.3.			
	Option	Description																
	<i>default</i>	Follow system global setting.																
	<i>SSLv3</i>	SSLv3.																
	<i>TLSv1</i>	TLSv1.																
	<i>TLSv1-1</i>	TLSv1.1.																
	<i>TLSv1-2</i>	TLSv1.2.																
<i>TLSv1-3</i>	TLSv1.3.																	
conn-timeout	FortiAnalyzer connection time-out in seconds (for status and log buffer).	integer	Minimum value: 1 Maximum value: 3600	10														
monitor-keepalive-period	Time between OFTP keepalives in seconds (for status and log buffer).	integer	Minimum value: 1 Maximum value: 120	5														
monitor-failure-retry-period	Time between FortiAnalyzer connection retries in seconds (for status and log buffer).	integer	Minimum value: 1 Maximum value: 86400	5														
certificate	Certificate used to communicate with FortiAnalyzer.	string	Maximum length: 35															
source-ip	Source IPv4 or IPv6 address used to communicate with FortiAnalyzer.	string	Maximum length: 63															
upload-option	Enable/disable logging to hard disk and then uploading to FortiAnalyzer.	option	-	5-minute														

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>store-and-upload</i>	Log to hard disk and then upload to FortiAnalyzer.		
	<i>realtime</i>	Log directly to FortiAnalyzer in real time.		
	<i>1-minute</i>	Log directly to FortiAnalyzer at least every 1 minute.		
	<i>5-minute</i>	Log directly to FortiAnalyzer at least every 5 minutes.		
upload-interval	Frequency to upload log files to FortiAnalyzer.	option	-	daily
	Option	Description		
	<i>daily</i>	Upload log files to FortiAnalyzer once a day.		
	<i>weekly</i>	Upload log files to FortiAnalyzer once a week.		
	<i>monthly</i>	Upload log files to FortiAnalyzer once a month.		
upload-day	Day of week (month) to upload logs.	user	Not Specified	
upload-time	Time to upload logs (hh:mm).	user	Not Specified	
reliable	Enable/disable reliable logging to FortiAnalyzer.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable reliable logging to FortiAnalyzer.		
	<i>disable</i>	Disable reliable logging to FortiAnalyzer.		
priority	Set log transmission priority.	option	-	default
	Option	Description		
	<i>default</i>	Set FortiAnalyzer log transmission priority to default.		
	<i>low</i>	Set FortiAnalyzer log transmission priority to low.		
max-log-rate	FortiAnalyzer maximum log rate in MBps (0 = unlimited).	integer	Minimum value: 0 Maximum value: 100000	0
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>auto</i>	Set outgoing interface automatically.		
	<i>specify</i>	Set outgoing interface manually.		
interface	Specify outgoing interface to reach server.	string	Maximum length: 15	

config log fortianalyzer3 filter

Filters for FortiAnalyzer.

```
config log fortianalyzer3 filter
    Description: Filters for FortiAnalyzer.
    set severity [emergency|alert|...]
    set forward-traffic [enable|disable]
    set local-traffic [enable|disable]
    set multicast-traffic [enable|disable]
    set sniffer-traffic [enable|disable]
    set ztna-traffic [enable|disable]
    set http-transaction [enable|disable]
    set anomaly [enable|disable]
    set voip [enable|disable]
    set dlp-archive [enable|disable]
    set forti-switch [enable|disable]
    config free-style
        Description: Free style filters.
        edit <id>
            set category [traffic|event|...]
            set filter {string}
            set filter-type [include|exclude]
        next
    end
end
```

config log fortianalyzer3 filter

Parameter	Description	Type	Size	Default
severity	Lowest severity level to log.	option	-	information
	Option	Description		
	<i>emergency</i>	Emergency level.		
	<i>alert</i>	Alert level.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>critical</i>	Critical level.		
	<i>error</i>	Error level.		
	<i>warning</i>	Warning level.		
	<i>notification</i>	Notification level.		
	<i>information</i>	Information level.		
	<i>debug</i>	Debug level.		
forward-traffic	Enable/disable forward traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable forward traffic logging.		
	<i>disable</i>	Disable forward traffic logging.		
local-traffic	Enable/disable local in or out traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable local in or out traffic logging.		
	<i>disable</i>	Disable local in or out traffic logging.		
multicast-traffic	Enable/disable multicast traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable multicast traffic logging.		
	<i>disable</i>	Disable multicast traffic logging.		
sniffer-traffic	Enable/disable sniffer traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable sniffer traffic logging.		
	<i>disable</i>	Disable sniffer traffic logging.		
ztna-traffic	Enable/disable ztna traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable ztna traffic logging.		
	<i>disable</i>	Disable ztna traffic logging.		

Parameter	Description	Type	Size	Default						
http-transaction	Enable/disable log http-transaction messages.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable http transaction logging.</td></tr><tr><td><i>disable</i></td><td>Disable http transaction logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable http transaction logging.	<i>disable</i>	Disable http transaction logging.			
Option	Description									
<i>enable</i>	Enable http transaction logging.									
<i>disable</i>	Disable http transaction logging.									
anomaly	Enable/disable anomaly logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable anomaly logging.</td></tr><tr><td><i>disable</i></td><td>Disable anomaly logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable anomaly logging.	<i>disable</i>	Disable anomaly logging.			
Option	Description									
<i>enable</i>	Enable anomaly logging.									
<i>disable</i>	Disable anomaly logging.									
voip	Enable/disable VoIP logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable VoIP logging.</td></tr><tr><td><i>disable</i></td><td>Disable VoIP logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable VoIP logging.	<i>disable</i>	Disable VoIP logging.			
Option	Description									
<i>enable</i>	Enable VoIP logging.									
<i>disable</i>	Disable VoIP logging.									
dlp-archive	Enable/disable DLP archive logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable DLP archive logging.</td></tr><tr><td><i>disable</i></td><td>Disable DLP archive logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable DLP archive logging.	<i>disable</i>	Disable DLP archive logging.			
Option	Description									
<i>enable</i>	Enable DLP archive logging.									
<i>disable</i>	Disable DLP archive logging.									
forti-switch	Enable/disable Forti-Switch logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable Forti-Switch logging.</td></tr><tr><td><i>disable</i></td><td>Disable Forti-Switch logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable Forti-Switch logging.	<i>disable</i>	Disable Forti-Switch logging.			
Option	Description									
<i>enable</i>	Enable Forti-Switch logging.									
<i>disable</i>	Disable Forti-Switch logging.									

config free-style

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
category	Log category.	option	-	traffic

Parameter	Description	Type	Size	Default																																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>traffic</i></td><td>Traffic log.</td></tr><tr><td><i>event</i></td><td>Event log.</td></tr><tr><td><i>virus</i></td><td>Antivirus log.</td></tr><tr><td><i>webfilter</i></td><td>Web filter log.</td></tr><tr><td><i>attack</i></td><td>Attack log.</td></tr><tr><td><i>spam</i></td><td>Antispam log.</td></tr><tr><td><i>anomaly</i></td><td>Anomaly log.</td></tr><tr><td><i>voip</i></td><td>VoIP log.</td></tr><tr><td><i>dlp</i></td><td>DLP log.</td></tr><tr><td><i>app-ctrl</i></td><td>Application control log.</td></tr><tr><td><i>waf</i></td><td>Web application firewall log.</td></tr><tr><td><i>dns</i></td><td>DNS detail log.</td></tr><tr><td><i>ssh</i></td><td>SSH log.</td></tr><tr><td><i>ssl</i></td><td>SSL log.</td></tr><tr><td><i>file-filter</i></td><td>File filter log.</td></tr><tr><td><i>icap</i></td><td>ICAP log.</td></tr><tr><td><i>virtual-patch</i></td><td>Virtual patch log.</td></tr></table>	Option	Description	<i>traffic</i>	Traffic log.	<i>event</i>	Event log.	<i>virus</i>	Antivirus log.	<i>webfilter</i>	Web filter log.	<i>attack</i>	Attack log.	<i>spam</i>	Antispam log.	<i>anomaly</i>	Anomaly log.	<i>voip</i>	VoIP log.	<i>dlp</i>	DLP log.	<i>app-ctrl</i>	Application control log.	<i>waf</i>	Web application firewall log.	<i>dns</i>	DNS detail log.	<i>ssh</i>	SSH log.	<i>ssl</i>	SSL log.	<i>file-filter</i>	File filter log.	<i>icap</i>	ICAP log.	<i>virtual-patch</i>	Virtual patch log.			
	Option	Description																																						
	<i>traffic</i>	Traffic log.																																						
	<i>event</i>	Event log.																																						
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	<i>webfilter</i>	Web filter log.																																						
	<i>attack</i>	Attack log.																																						
	<i>spam</i>	Antispam log.																																						
	<i>anomaly</i>	Anomaly log.																																						
	<i>voip</i>	VoIP log.																																						
	<i>dlp</i>	DLP log.																																						
	<i>app-ctrl</i>	Application control log.																																						
	<i>waf</i>	Web application firewall log.																																						
	<i>dns</i>	DNS detail log.																																						
	<i>ssh</i>	SSH log.																																						
	<i>ssl</i>	SSL log.																																						
	<i>file-filter</i>	File filter log.																																						
	<i>icap</i>	ICAP log.																																						
<i>virtual-patch</i>	Virtual patch log.																																							
filter	Free style filter string.	string	Maximum length: 1023																																					
filter-type	Include/exclude logs that match the filter.	option	-	include																																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>include</i></td><td>Include logs that match the filter.</td></tr><tr><td><i>exclude</i></td><td>Exclude logs that match the filter.</td></tr></table>	Option	Description	<i>include</i>	Include logs that match the filter.	<i>exclude</i>	Exclude logs that match the filter.																																	
	Option	Description																																						
	<i>include</i>	Include logs that match the filter.																																						
<i>exclude</i>	Exclude logs that match the filter.																																							

config log fortianalyzer3 override-filter

Override filters for FortiAnalyzer.

```
config log fortianalyzer3 override-filter
    Description: Override filters for FortiAnalyzer.
    set severity [emergency|alert|...]
    set forward-traffic [enable|disable]
    set local-traffic [enable|disable]
```

```

set multicast-traffic [enable|disable]
set sniffer-traffic [enable|disable]
set ztna-traffic [enable|disable]
set http-transaction [enable|disable]
set anomaly [enable|disable]
set voip [enable|disable]
set dlp-archive [enable|disable]
set forti-switch [enable|disable]
config free-style
  Description: Free style filters.
  edit <id>
    set category [traffic|event|...]
    set filter {string}
    set filter-type [include|exclude]
  next
end
end

```

config log fortianalyzer3 override-filter

Parameter	Description	Type	Size	Default
severity	Lowest severity level to log.	option	-	information
	Option	Description		
	<i>emergency</i>	Emergency level.		
	<i>alert</i>	Alert level.		
	<i>critical</i>	Critical level.		
	<i>error</i>	Error level.		
	<i>warning</i>	Warning level.		
	<i>notification</i>	Notification level.		
	<i>information</i>	Information level.		
	<i>debug</i>	Debug level.		
forward-traffic	Enable/disable forward traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable forward traffic logging.		
	<i>disable</i>	Disable forward traffic logging.		
local-traffic	Enable/disable local in or out traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable local in or out traffic logging.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable local in or out traffic logging.		
multicast-traffic	Enable/disable multicast traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable multicast traffic logging.		
	<i>disable</i>	Disable multicast traffic logging.		
sniffer-traffic	Enable/disable sniffer traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable sniffer traffic logging.		
	<i>disable</i>	Disable sniffer traffic logging.		
ztna-traffic	Enable/disable ztna traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable ztna traffic logging.		
	<i>disable</i>	Disable ztna traffic logging.		
http-transaction	Enable/disable log http-transaction messages.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable http transaction logging.		
	<i>disable</i>	Disable http transaction logging.		
anomaly	Enable/disable anomaly logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable anomaly logging.		
	<i>disable</i>	Disable anomaly logging.		
voip	Enable/disable VoIP logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable VoIP logging.		
	<i>disable</i>	Disable VoIP logging.		

Parameter	Description	Type	Size	Default
dlp-archive	Enable/disable DLP archive logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable DLP archive logging.		
	<i>disable</i>	Disable DLP archive logging.		
forti-switch	Enable/disable Forti-Switch logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable Forti-Switch logging.		
	<i>disable</i>	Disable Forti-Switch logging.		

config free-style

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
category	Log category.	option	-	traffic
	Option	Description		
	<i>traffic</i>	Traffic log.		
	<i>event</i>	Event log.		
	<i>virus</i>	Antivirus log.		
	<i>webfilter</i>	Web filter log.		
	<i>attack</i>	Attack log.		
	<i>spam</i>	Antispam log.		
	<i>anomaly</i>	Anomaly log.		
	<i>voip</i>	VoIP log.		
	<i>dlp</i>	DLP log.		
	<i>app-ctrl</i>	Application control log.		
	<i>waf</i>	Web application firewall log.		
	<i>dns</i>	DNS detail log.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>ssh</i>	SSH log.		
	<i>ssl</i>	SSL log.		
	<i>file-filter</i>	File filter log.		
	<i>icap</i>	ICAP log.		
	<i>virtual-patch</i>	Virtual patch log.		
filter	Free style filter string.	string	Maximum length: 1023	
filter-type	Include/exclude logs that match the filter.	option	-	include
	Option	Description		
	<i>include</i>	Include logs that match the filter.		
	<i>exclude</i>	Exclude logs that match the filter.		

config log fortianalyzer3 override-setting

Override FortiAnalyzer settings.

```
config log fortianalyzer3 override-setting
  Description: Override FortiAnalyzer settings.
  set use-management-vdom [enable|disable]
  set status [enable|disable]
  set ips-archive [enable|disable]
  set server {string}
  set alt-server {string}
  set fallback-to-primary [enable|disable]
  set certificate-verification [enable|disable]
  set serial <name1>, <name2>, ...
  set server-cert-ca {string}
  set preshared-key {string}
  set access-config [enable|disable]
  set hmac-algorithm {option}
  set enc-algorithm [high-medium|high|...]
  set ssl-min-proto-version [default|SSLv3|...]
  set conn-timeout {integer}
  set monitor-keepalive-period {integer}
  set monitor-failure-retry-period {integer}
  set certificate {string}
  set source-ip {string}
  set upload-option [store-and-upload|realtime|...]
  set upload-interval [daily|weekly|...]
  set upload-day {user}
  set upload-time {user}
  set reliable [enable|disable]
```

```

set priority [default|low]
set max-log-rate {integer}
set interface-select-method [auto|specify]
set interface {string}

```

end

config log fortianalyzer3 override-setting

Parameter	Description	Type	Size	Default
use-management-vdom	Enable/disable use of management VDOM IP address as source IP for logs sent to FortiAnalyzer.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable use of management VDOM IP address as source IP for logs sent to FortiAnalyzer.		
	<i>disable</i>	Disable use of management VDOM IP address as source IP for logs sent to FortiAnalyzer.		
status	Enable/disable logging to FortiAnalyzer.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable logging to FortiAnalyzer.		
	<i>disable</i>	Disable logging to FortiAnalyzer.		
ips-archive	Enable/disable IPS packet archive logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable IPS packet archive logging.		
	<i>disable</i>	Disable IPS packet archive logging.		
server	The remote FortiAnalyzer.	string	Maximum length: 127	
alt-server	Alternate FortiAnalyzer.	string	Maximum length: 127	
fallback-to-primary	Enable/disable this FortiGate unit to fallback to the primary FortiAnalyzer when it is available.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable this FortiGate unit to fallback to the primary FortiAnalyzer when it is available.		
	<i>disable</i>	Disable this FortiGate unit to fallback to the primary FortiAnalyzer when it is available.		

Parameter	Description	Type	Size	Default								
certificate-verification	Enable/disable identity verification of FortiAnalyzer by use of certificate.	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable identity verification of FortiAnalyzer by use of certificate.</td></tr><tr><td><i>disable</i></td><td>Disable identity verification of FortiAnalyzer by use of certificate.</td></tr></table>	Option	Description	<i>enable</i>	Enable identity verification of FortiAnalyzer by use of certificate.	<i>disable</i>	Disable identity verification of FortiAnalyzer by use of certificate.					
Option	Description											
<i>enable</i>	Enable identity verification of FortiAnalyzer by use of certificate.											
<i>disable</i>	Disable identity verification of FortiAnalyzer by use of certificate.											
serial <name>	Serial numbers of the FortiAnalyzer. Serial Number.	string	Maximum length: 79									
server-cert-ca	Mandatory CA on FortiGate in certificate chain of server.	string	Maximum length: 79									
preshared-key	Preshared-key used for auto-authorization on FortiAnalyzer.	string	Maximum length: 63									
access-config	Enable/disable FortiAnalyzer access to configuration and data.	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable FortiAnalyzer access to configuration and data.</td></tr><tr><td><i>disable</i></td><td>Disable FortiAnalyzer access to configuration and data.</td></tr></table>	Option	Description	<i>enable</i>	Enable FortiAnalyzer access to configuration and data.	<i>disable</i>	Disable FortiAnalyzer access to configuration and data.					
Option	Description											
<i>enable</i>	Enable FortiAnalyzer access to configuration and data.											
<i>disable</i>	Disable FortiAnalyzer access to configuration and data.											
hmac-algorithm	OFTP login hash algorithm.	option	-	sha256								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>sha256</i></td><td>Use SHA256 as HMAC algorithm.</td></tr></table>	Option	Description	<i>sha256</i>	Use SHA256 as HMAC algorithm.							
Option	Description											
<i>sha256</i>	Use SHA256 as HMAC algorithm.											
enc-algorithm	Configure the level of SSL protection for secure communication with FortiAnalyzer.	option	-	high								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>high-medium</i></td><td>Encrypt logs using high and medium encryption algorithms.</td></tr><tr><td><i>high</i></td><td>Encrypt logs using high encryption algorithms.</td></tr><tr><td><i>low</i></td><td>Encrypt logs using all encryption algorithms.</td></tr></table>	Option	Description	<i>high-medium</i>	Encrypt logs using high and medium encryption algorithms.	<i>high</i>	Encrypt logs using high encryption algorithms.	<i>low</i>	Encrypt logs using all encryption algorithms.			
Option	Description											
<i>high-medium</i>	Encrypt logs using high and medium encryption algorithms.											
<i>high</i>	Encrypt logs using high encryption algorithms.											
<i>low</i>	Encrypt logs using all encryption algorithms.											
ssl-min-protocol-version	Minimum supported protocol version for SSL/TLS connections (default is to follow system global setting).	option	-	default								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>default</i></td><td>Follow system global setting.</td></tr></table>	Option	Description	<i>default</i>	Follow system global setting.							
Option	Description											
<i>default</i>	Follow system global setting.											

Parameter	Description	Type	Size	Default												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>SSLv3</td><td>SSLv3.</td></tr><tr><td>TLSv1</td><td>TLSv1.</td></tr><tr><td>TLSv1-1</td><td>TLSv1.1.</td></tr><tr><td>TLSv1-2</td><td>TLSv1.2.</td></tr><tr><td>TLSv1-3</td><td>TLSv1.3.</td></tr></table>	Option	Description	SSLv3	SSLv3.	TLSv1	TLSv1.	TLSv1-1	TLSv1.1.	TLSv1-2	TLSv1.2.	TLSv1-3	TLSv1.3.			
	Option	Description														
	SSLv3	SSLv3.														
	TLSv1	TLSv1.														
	TLSv1-1	TLSv1.1.														
	TLSv1-2	TLSv1.2.														
TLSv1-3	TLSv1.3.															
conn-timeout	FortiAnalyzer connection time-out in seconds (for status and log buffer).	integer	Minimum value: 1 Maximum value: 3600	10												
monitor-keepalive-period	Time between OFTP keepalives in seconds (for status and log buffer).	integer	Minimum value: 1 Maximum value: 120	5												
monitor-failure-retry-period	Time between FortiAnalyzer connection retries in seconds (for status and log buffer).	integer	Minimum value: 1 Maximum value: 86400	5												
certificate	Certificate used to communicate with FortiAnalyzer.	string	Maximum length: 35													
source-ip	Source IPv4 or IPv6 address used to communicate with FortiAnalyzer.	string	Maximum length: 63													
upload-option	Enable/disable logging to hard disk and then uploading to FortiAnalyzer.	option	-	5-minute												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>store-and-upload</td><td>Log to hard disk and then upload to FortiAnalyzer.</td></tr><tr><td>realtime</td><td>Log directly to FortiAnalyzer in real time.</td></tr><tr><td>1-minute</td><td>Log directly to FortiAnalyzer at least every 1 minute.</td></tr><tr><td>5-minute</td><td>Log directly to FortiAnalyzer at least every 5 minutes.</td></tr></table>	Option	Description	store-and-upload	Log to hard disk and then upload to FortiAnalyzer.	realtime	Log directly to FortiAnalyzer in real time.	1-minute	Log directly to FortiAnalyzer at least every 1 minute.	5-minute	Log directly to FortiAnalyzer at least every 5 minutes.					
	Option	Description														
	store-and-upload	Log to hard disk and then upload to FortiAnalyzer.														
	realtime	Log directly to FortiAnalyzer in real time.														
	1-minute	Log directly to FortiAnalyzer at least every 1 minute.														
5-minute	Log directly to FortiAnalyzer at least every 5 minutes.															
upload-interval	Frequency to upload log files to FortiAnalyzer.	option	-	daily												

Parameter	Description	Type	Size	Default								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>daily</i></td><td>Upload log files to FortiAnalyzer once a day.</td></tr><tr><td><i>weekly</i></td><td>Upload log files to FortiAnalyzer once a week.</td></tr><tr><td><i>monthly</i></td><td>Upload log files to FortiAnalyzer once a month.</td></tr></table>	Option	Description	<i>daily</i>	Upload log files to FortiAnalyzer once a day.	<i>weekly</i>	Upload log files to FortiAnalyzer once a week.	<i>monthly</i>	Upload log files to FortiAnalyzer once a month.			
	Option	Description										
	<i>daily</i>	Upload log files to FortiAnalyzer once a day.										
	<i>weekly</i>	Upload log files to FortiAnalyzer once a week.										
<i>monthly</i>	Upload log files to FortiAnalyzer once a month.											
upload-day	Day of week (month) to upload logs.	user	Not Specified									
upload-time	Time to upload logs (hh:mm).	user	Not Specified									
reliable	Enable/disable reliable logging to FortiAnalyzer.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable reliable logging to FortiAnalyzer.</td></tr><tr><td><i>disable</i></td><td>Disable reliable logging to FortiAnalyzer.</td></tr></table>	Option	Description	<i>enable</i>	Enable reliable logging to FortiAnalyzer.	<i>disable</i>	Disable reliable logging to FortiAnalyzer.					
	Option	Description										
	<i>enable</i>	Enable reliable logging to FortiAnalyzer.										
<i>disable</i>	Disable reliable logging to FortiAnalyzer.											
priority	Set log transmission priority.	option	-	default								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>default</i></td><td>Set FortiAnalyzer log transmission priority to default.</td></tr><tr><td><i>low</i></td><td>Set FortiAnalyzer log transmission priority to low.</td></tr></table>	Option	Description	<i>default</i>	Set FortiAnalyzer log transmission priority to default.	<i>low</i>	Set FortiAnalyzer log transmission priority to low.					
	Option	Description										
	<i>default</i>	Set FortiAnalyzer log transmission priority to default.										
<i>low</i>	Set FortiAnalyzer log transmission priority to low.											
max-log-rate	FortiAnalyzer maximum log rate in MBps (0 = unlimited).	integer	Minimum value: 0 Maximum value: 100000	0								
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>auto</i></td><td>Set outgoing interface automatically.</td></tr><tr><td><i>specify</i></td><td>Set outgoing interface manually.</td></tr></table>	Option	Description	<i>auto</i>	Set outgoing interface automatically.	<i>specify</i>	Set outgoing interface manually.					
	Option	Description										
	<i>auto</i>	Set outgoing interface automatically.										
<i>specify</i>	Set outgoing interface manually.											
interface	Specify outgoing interface to reach server.	string	Maximum length: 15									

config log fortianalyzer3 setting

Global FortiAnalyzer settings.

```

config log fortianalyzer3 setting
    Description: Global FortiAnalyzer settings.
    set status [enable|disable]
    set ips-archive [enable|disable]
    set server {string}
    set alt-server {string}
    set fallback-to-primary [enable|disable]
    set certificate-verification [enable|disable]
    set serial <name1>, <name2>, ...
    set server-cert-ca {string}
    set preshared-key {string}
    set access-config [enable|disable]
    set hmac-algorithm {option}
    set enc-algorithm [high-medium|high|...]
    set ssl-min-proto-version [default|SSLv3|...]
    set conn-timeout {integer}
    set monitor-keepalive-period {integer}
    set monitor-failure-retry-period {integer}
    set certificate {string}
    set source-ip {string}
    set upload-option [store-and-upload|realtime|...]
    set upload-interval [daily|weekly|...]
    set upload-day {user}
    set upload-time {user}
    set reliable [enable|disable]
    set priority [default|low]
    set max-log-rate {integer}
    set interface-select-method [auto|specify]
    set interface {string}
end

```

config log fortianalyzer3 setting

Parameter	Description	Type	Size	Default
status	Enable/disable logging to FortiAnalyzer.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable logging to FortiAnalyzer.		
	<i>disable</i>	Disable logging to FortiAnalyzer.		
ips-archive	Enable/disable IPS packet archive logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable IPS packet archive logging.		
	<i>disable</i>	Disable IPS packet archive logging.		
server	The remote FortiAnalyzer.	string	Maximum length: 127	

Parameter	Description	Type	Size	Default						
alt-server	Alternate FortiAnalyzer.	string	Maximum length: 127							
fallback-to-primary	Enable/disable this FortiGate unit to fallback to the primary FortiAnalyzer when it is available.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable this FortiGate unit to fallback to the primary FortiAnalyzer when it is available.</td></tr><tr><td>disable</td><td>Disable this FortiGate unit to fallback to the primary FortiAnalyzer when it is available.</td></tr></table>				Option	Description	enable	Enable this FortiGate unit to fallback to the primary FortiAnalyzer when it is available.	disable	Disable this FortiGate unit to fallback to the primary FortiAnalyzer when it is available.
Option	Description									
enable	Enable this FortiGate unit to fallback to the primary FortiAnalyzer when it is available.									
disable	Disable this FortiGate unit to fallback to the primary FortiAnalyzer when it is available.									
certificate-verification	Enable/disable identity verification of FortiAnalyzer by use of certificate.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable identity verification of FortiAnalyzer by use of certificate.</td></tr><tr><td>disable</td><td>Disable identity verification of FortiAnalyzer by use of certificate.</td></tr></table>				Option	Description	enable	Enable identity verification of FortiAnalyzer by use of certificate.	disable	Disable identity verification of FortiAnalyzer by use of certificate.
Option	Description									
enable	Enable identity verification of FortiAnalyzer by use of certificate.									
disable	Disable identity verification of FortiAnalyzer by use of certificate.									
serial <name>	Serial numbers of the FortiAnalyzer. Serial Number.	string	Maximum length: 79							
server-cert-ca	Mandatory CA on FortiGate in certificate chain of server.	string	Maximum length: 79							
preshared-key	Preshared-key used for auto-authorization on FortiAnalyzer.	string	Maximum length: 63							
access-config	Enable/disable FortiAnalyzer access to configuration and data.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable FortiAnalyzer access to configuration and data.</td></tr><tr><td>disable</td><td>Disable FortiAnalyzer access to configuration and data.</td></tr></table>				Option	Description	enable	Enable FortiAnalyzer access to configuration and data.	disable	Disable FortiAnalyzer access to configuration and data.
Option	Description									
enable	Enable FortiAnalyzer access to configuration and data.									
disable	Disable FortiAnalyzer access to configuration and data.									
hmac-algorithm	OFTP login hash algorithm.	option	-	sha256						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>sha256</td><td>Use SHA256 as HMAC algorithm.</td></tr></table>				Option	Description	sha256	Use SHA256 as HMAC algorithm.		
Option	Description									
sha256	Use SHA256 as HMAC algorithm.									
enc-algorithm	Configure the level of SSL protection for secure communication with FortiAnalyzer.	option	-	high						

Parameter	Description	Type	Size	Default														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>high-medium</i></td><td>Encrypt logs using high and medium encryption algorithms.</td></tr><tr><td><i>high</i></td><td>Encrypt logs using high encryption algorithms.</td></tr><tr><td><i>low</i></td><td>Encrypt logs using all encryption algorithms.</td></tr></table>	Option	Description	<i>high-medium</i>	Encrypt logs using high and medium encryption algorithms.	<i>high</i>	Encrypt logs using high encryption algorithms.	<i>low</i>	Encrypt logs using all encryption algorithms.									
	Option	Description																
	<i>high-medium</i>	Encrypt logs using high and medium encryption algorithms.																
	<i>high</i>	Encrypt logs using high encryption algorithms.																
<i>low</i>	Encrypt logs using all encryption algorithms.																	
ssl-min-protocol-version	Minimum supported protocol version for SSL/TLS connections (default is to follow system global setting).	option	-	default														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>default</i></td><td>Follow system global setting.</td></tr><tr><td><i>SSLv3</i></td><td>SSLv3.</td></tr><tr><td><i>TLSv1</i></td><td>TLSv1.</td></tr><tr><td><i>TLSv1-1</i></td><td>TLSv1.1.</td></tr><tr><td><i>TLSv1-2</i></td><td>TLSv1.2.</td></tr><tr><td><i>TLSv1-3</i></td><td>TLSv1.3.</td></tr></table>	Option	Description	<i>default</i>	Follow system global setting.	<i>SSLv3</i>	SSLv3.	<i>TLSv1</i>	TLSv1.	<i>TLSv1-1</i>	TLSv1.1.	<i>TLSv1-2</i>	TLSv1.2.	<i>TLSv1-3</i>	TLSv1.3.			
	Option	Description																
	<i>default</i>	Follow system global setting.																
	<i>SSLv3</i>	SSLv3.																
	<i>TLSv1</i>	TLSv1.																
	<i>TLSv1-1</i>	TLSv1.1.																
	<i>TLSv1-2</i>	TLSv1.2.																
<i>TLSv1-3</i>	TLSv1.3.																	
conn-timeout	FortiAnalyzer connection time-out in seconds (for status and log buffer).	integer	Minimum value: 1 Maximum value: 3600	10														
monitor-keepalive-period	Time between OFTP keepalives in seconds (for status and log buffer).	integer	Minimum value: 1 Maximum value: 120	5														
monitor-failure-retry-period	Time between FortiAnalyzer connection retries in seconds (for status and log buffer).	integer	Minimum value: 1 Maximum value: 86400	5														
certificate	Certificate used to communicate with FortiAnalyzer.	string	Maximum length: 35															
source-ip	Source IPv4 or IPv6 address used to communicate with FortiAnalyzer.	string	Maximum length: 63															
upload-option	Enable/disable logging to hard disk and then uploading to FortiAnalyzer.	option	-	5-minute														

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>store-and-upload</i>	Log to hard disk and then upload to FortiAnalyzer.		
	<i>realtime</i>	Log directly to FortiAnalyzer in real time.		
	<i>1-minute</i>	Log directly to FortiAnalyzer at least every 1 minute.		
	<i>5-minute</i>	Log directly to FortiAnalyzer at least every 5 minutes.		
upload-interval	Frequency to upload log files to FortiAnalyzer.	option	-	daily
	Option	Description		
	<i>daily</i>	Upload log files to FortiAnalyzer once a day.		
	<i>weekly</i>	Upload log files to FortiAnalyzer once a week.		
	<i>monthly</i>	Upload log files to FortiAnalyzer once a month.		
upload-day	Day of week (month) to upload logs.	user	Not Specified	
upload-time	Time to upload logs (hh:mm).	user	Not Specified	
reliable	Enable/disable reliable logging to FortiAnalyzer.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable reliable logging to FortiAnalyzer.		
	<i>disable</i>	Disable reliable logging to FortiAnalyzer.		
priority	Set log transmission priority.	option	-	default
	Option	Description		
	<i>default</i>	Set FortiAnalyzer log transmission priority to default.		
	<i>low</i>	Set FortiAnalyzer log transmission priority to low.		
max-log-rate	FortiAnalyzer maximum log rate in MBps (0 = unlimited).	integer	Minimum value: 0 Maximum value: 100000	0
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>auto</i>	Set outgoing interface automatically.		
	<i>specify</i>	Set outgoing interface manually.		
interface	Specify outgoing interface to reach server.	string	Maximum length: 15	

config log fortianalyzer-cloud filter

Filters for FortiAnalyzer Cloud.

```
config log fortianalyzer-cloud filter
    Description: Filters for FortiAnalyzer Cloud.
    set severity [emergency|alert|...]
    set forward-traffic [enable|disable]
    set local-traffic [enable|disable]
    set multicast-traffic [enable|disable]
    set sniffer-traffic [enable|disable]
    set ztna-traffic [enable|disable]
    set http-transaction [enable|disable]
    set anomaly [enable|disable]
    set voip [enable|disable]
    set dlp-archive [enable|disable]
    set forti-switch [enable|disable]
    config free-style
        Description: Free style filters.
        edit <id>
            set category [traffic|event|...]
            set filter {string}
            set filter-type [include|exclude]
        next
    end
end
```

config log fortianalyzer-cloud filter

Parameter	Description	Type	Size	Default
severity	Lowest severity level to log.	option	-	information
	Option	Description		
	<i>emergency</i>	Emergency level.		
	<i>alert</i>	Alert level.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>critical</i>	Critical level.		
	<i>error</i>	Error level.		
	<i>warning</i>	Warning level.		
	<i>notification</i>	Notification level.		
	<i>information</i>	Information level.		
	<i>debug</i>	Debug level.		
forward-traffic	Enable/disable forward traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable forward traffic logging.		
	<i>disable</i>	Disable forward traffic logging.		
local-traffic	Enable/disable local in or out traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable local in or out traffic logging.		
	<i>disable</i>	Disable local in or out traffic logging.		
multicast-traffic	Enable/disable multicast traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable multicast traffic logging.		
	<i>disable</i>	Disable multicast traffic logging.		
sniffer-traffic	Enable/disable sniffer traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable sniffer traffic logging.		
	<i>disable</i>	Disable sniffer traffic logging.		
ztna-traffic	Enable/disable ztna traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable ztna traffic logging.		
	<i>disable</i>	Disable ztna traffic logging.		

Parameter	Description	Type	Size	Default						
http-transaction	Enable/disable log http-transaction messages.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable http transaction logging.</td></tr><tr><td><i>disable</i></td><td>Disable http transaction logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable http transaction logging.	<i>disable</i>	Disable http transaction logging.			
Option	Description									
<i>enable</i>	Enable http transaction logging.									
<i>disable</i>	Disable http transaction logging.									
anomaly	Enable/disable anomaly logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable anomaly logging.</td></tr><tr><td><i>disable</i></td><td>Disable anomaly logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable anomaly logging.	<i>disable</i>	Disable anomaly logging.			
Option	Description									
<i>enable</i>	Enable anomaly logging.									
<i>disable</i>	Disable anomaly logging.									
voip	Enable/disable VoIP logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable VoIP logging.</td></tr><tr><td><i>disable</i></td><td>Disable VoIP logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable VoIP logging.	<i>disable</i>	Disable VoIP logging.			
Option	Description									
<i>enable</i>	Enable VoIP logging.									
<i>disable</i>	Disable VoIP logging.									
dlp-archive	Enable/disable DLP archive logging.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable DLP archive logging.</td></tr><tr><td><i>disable</i></td><td>Disable DLP archive logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable DLP archive logging.	<i>disable</i>	Disable DLP archive logging.			
Option	Description									
<i>enable</i>	Enable DLP archive logging.									
<i>disable</i>	Disable DLP archive logging.									
forti-switch	Enable/disable Forti-Switch logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable Forti-Switch logging.</td></tr><tr><td><i>disable</i></td><td>Disable Forti-Switch logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable Forti-Switch logging.	<i>disable</i>	Disable Forti-Switch logging.			
Option	Description									
<i>enable</i>	Enable Forti-Switch logging.									
<i>disable</i>	Disable Forti-Switch logging.									

config free-style

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
category	Log category.	option	-	traffic

Parameter	Description	Type	Size	Default																																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>traffic</i></td><td>Traffic log.</td></tr><tr><td><i>event</i></td><td>Event log.</td></tr><tr><td><i>virus</i></td><td>Antivirus log.</td></tr><tr><td><i>webfilter</i></td><td>Web filter log.</td></tr><tr><td><i>attack</i></td><td>Attack log.</td></tr><tr><td><i>spam</i></td><td>Antispam log.</td></tr><tr><td><i>anomaly</i></td><td>Anomaly log.</td></tr><tr><td><i>voip</i></td><td>VoIP log.</td></tr><tr><td><i>dlp</i></td><td>DLP log.</td></tr><tr><td><i>app-ctrl</i></td><td>Application control log.</td></tr><tr><td><i>waf</i></td><td>Web application firewall log.</td></tr><tr><td><i>dns</i></td><td>DNS detail log.</td></tr><tr><td><i>ssh</i></td><td>SSH log.</td></tr><tr><td><i>ssl</i></td><td>SSL log.</td></tr><tr><td><i>file-filter</i></td><td>File filter log.</td></tr><tr><td><i>icap</i></td><td>ICAP log.</td></tr><tr><td><i>virtual-patch</i></td><td>Virtual patch log.</td></tr></table>	Option	Description	<i>traffic</i>	Traffic log.	<i>event</i>	Event log.	<i>virus</i>	Antivirus log.	<i>webfilter</i>	Web filter log.	<i>attack</i>	Attack log.	<i>spam</i>	Antispam log.	<i>anomaly</i>	Anomaly log.	<i>voip</i>	VoIP log.	<i>dlp</i>	DLP log.	<i>app-ctrl</i>	Application control log.	<i>waf</i>	Web application firewall log.	<i>dns</i>	DNS detail log.	<i>ssh</i>	SSH log.	<i>ssl</i>	SSL log.	<i>file-filter</i>	File filter log.	<i>icap</i>	ICAP log.	<i>virtual-patch</i>	Virtual patch log.			
	Option	Description																																						
	<i>traffic</i>	Traffic log.																																						
	<i>event</i>	Event log.																																						
	<i>virus</i>	Antivirus log.																																						
	<i>webfilter</i>	Web filter log.																																						
	<i>attack</i>	Attack log.																																						
	<i>spam</i>	Antispam log.																																						
	<i>anomaly</i>	Anomaly log.																																						
	<i>voip</i>	VoIP log.																																						
	<i>dlp</i>	DLP log.																																						
	<i>app-ctrl</i>	Application control log.																																						
	<i>waf</i>	Web application firewall log.																																						
	<i>dns</i>	DNS detail log.																																						
	<i>ssh</i>	SSH log.																																						
	<i>ssl</i>	SSL log.																																						
	<i>file-filter</i>	File filter log.																																						
	<i>icap</i>	ICAP log.																																						
<i>virtual-patch</i>	Virtual patch log.																																							
filter	Free style filter string.	string	Maximum length: 1023																																					
filter-type	Include/exclude logs that match the filter.	option	-	include																																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>include</i></td><td>Include logs that match the filter.</td></tr><tr><td><i>exclude</i></td><td>Exclude logs that match the filter.</td></tr></table>	Option	Description	<i>include</i>	Include logs that match the filter.	<i>exclude</i>	Exclude logs that match the filter.																																	
	Option	Description																																						
	<i>include</i>	Include logs that match the filter.																																						
<i>exclude</i>	Exclude logs that match the filter.																																							

config log fortianalyzer-cloud override-filter

Override filters for FortiAnalyzer Cloud.

```
config log fortianalyzer-cloud override-filter
  Description: Override filters for FortiAnalyzer Cloud.
  set severity [emergency|alert|...]
  set forward-traffic [enable|disable]
  set local-traffic [enable|disable]
```

```

set multicast-traffic [enable|disable]
set sniffer-traffic [enable|disable]
set ztna-traffic [enable|disable]
set http-transaction [enable|disable]
set anomaly [enable|disable]
set voip [enable|disable]
set dlp-archive [enable|disable]
set forti-switch [enable|disable]
config free-style
  Description: Free style filters.
  edit <id>
    set category [traffic|event|...]
    set filter {string}
    set filter-type [include|exclude]
  next
end
end

```

config log fortianalyzer-cloud override-filter

Parameter	Description	Type	Size	Default
severity	Lowest severity level to log.	option	-	information
	Option	Description		
	<i>emergency</i>	Emergency level.		
	<i>alert</i>	Alert level.		
	<i>critical</i>	Critical level.		
	<i>error</i>	Error level.		
	<i>warning</i>	Warning level.		
	<i>notification</i>	Notification level.		
	<i>information</i>	Information level.		
	<i>debug</i>	Debug level.		
forward-traffic	Enable/disable forward traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable forward traffic logging.		
	<i>disable</i>	Disable forward traffic logging.		
local-traffic	Enable/disable local in or out traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable local in or out traffic logging.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable local in or out traffic logging.		
multicast-traffic	Enable/disable multicast traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable multicast traffic logging.		
	<i>disable</i>	Disable multicast traffic logging.		
sniffer-traffic	Enable/disable sniffer traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable sniffer traffic logging.		
	<i>disable</i>	Disable sniffer traffic logging.		
ztna-traffic	Enable/disable ztna traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable ztna traffic logging.		
	<i>disable</i>	Disable ztna traffic logging.		
http-transaction	Enable/disable log http-transaction messages.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable http transaction logging.		
	<i>disable</i>	Disable http transaction logging.		
anomaly	Enable/disable anomaly logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable anomaly logging.		
	<i>disable</i>	Disable anomaly logging.		
voip	Enable/disable VoIP logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable VoIP logging.		
	<i>disable</i>	Disable VoIP logging.		

Parameter	Description	Type	Size	Default
dlp-archive	Enable/disable DLP archive logging.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable DLP archive logging.		
	<i>disable</i>	Disable DLP archive logging.		
forti-switch	Enable/disable Forti-Switch logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable Forti-Switch logging.		
	<i>disable</i>	Disable Forti-Switch logging.		

config free-style

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
category	Log category.	option	-	traffic
	Option	Description		
	<i>traffic</i>	Traffic log.		
	<i>event</i>	Event log.		
	<i>virus</i>	Antivirus log.		
	<i>webfilter</i>	Web filter log.		
	<i>attack</i>	Attack log.		
	<i>spam</i>	Antispam log.		
	<i>anomaly</i>	Anomaly log.		
	<i>voip</i>	VoIP log.		
	<i>dlp</i>	DLP log.		
	<i>app-ctrl</i>	Application control log.		
	<i>waf</i>	Web application firewall log.		
	<i>dns</i>	DNS detail log.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>ssh</i>	SSH log.		
	<i>ssl</i>	SSL log.		
	<i>file-filter</i>	File filter log.		
	<i>icap</i>	ICAP log.		
	<i>virtual-patch</i>	Virtual patch log.		
filter	Free style filter string.	string	Maximum length: 1023	
filter-type	Include/exclude logs that match the filter.	option	-	include
	Option	Description		
	<i>include</i>	Include logs that match the filter.		
	<i>exclude</i>	Exclude logs that match the filter.		

config log fortianalyzer-cloud override-setting

Override FortiAnalyzer Cloud settings.

```
config log fortianalyzer-cloud override-setting
    Description: Override FortiAnalyzer Cloud settings.
    set status [enable|disable]
end
```

config log fortianalyzer-cloud override-setting

Parameter	Description	Type	Size	Default
status	Enable/disable logging to FortiAnalyzer.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable logging to FortiAnalyzer.		
	<i>disable</i>	Disable logging to FortiAnalyzer.		

config log fortianalyzer-cloud setting

Global FortiAnalyzer Cloud settings.

```

config log fortianalyzer-cloud setting
    Description: Global FortiAnalyzer Cloud settings.
    set status [enable|disable]
    set ips-archive [enable|disable]
    set certificate-verification [enable|disable]
    set serial <name1>, <name2>, ...
    set preshared-key {string}
    set access-config [enable|disable]
    set hmac-algorithm {option}
    set enc-algorithm [high-medium|high|...]
    set ssl-min-proto-version [default|SSLv3|...]
    set conn-timeout {integer}
    set monitor-keepalive-period {integer}
    set monitor-failure-retry-period {integer}
    set certificate {string}
    set source-ip {string}
    set upload-option [store-and-upload|realtime|...]
    set upload-interval [daily|weekly|...]
    set upload-day {user}
    set upload-time {user}
    set priority [default|low]
    set max-log-rate {integer}
    set interface-select-method [auto|specify]
    set interface {string}
end

```

config log fortianalyzer-cloud setting

Parameter	Description	Type	Size	Default
status	Enable/disable logging to FortiAnalyzer.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable logging to FortiAnalyzer.		
	<i>disable</i>	Disable logging to FortiAnalyzer.		
ips-archive	Enable/disable IPS packet archive logging.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable IPS packet archive logging.		
	<i>disable</i>	Disable IPS packet archive logging.		
certificate-verification	Enable/disable identity verification of FortiAnalyzer by use of certificate.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable identity verification of FortiAnalyzer by use of certificate.		
	<i>disable</i>	Disable identity verification of FortiAnalyzer by use of certificate.		

Parameter	Description	Type	Size	Default														
serial <name>	Serial numbers of the FortiAnalyzer. Serial Number.	string	Maximum length: 79															
preshared-key	Preshared-key used for auto-authorization on FortiAnalyzer.	string	Maximum length: 63															
access-config	Enable/disable FortiAnalyzer access to configuration and data.	option	-	enable														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable FortiAnalyzer access to configuration and data.</td></tr><tr><td>disable</td><td>Disable FortiAnalyzer access to configuration and data.</td></tr></table>	Option	Description	enable	Enable FortiAnalyzer access to configuration and data.	disable	Disable FortiAnalyzer access to configuration and data.											
Option	Description																	
enable	Enable FortiAnalyzer access to configuration and data.																	
disable	Disable FortiAnalyzer access to configuration and data.																	
hmac-algorithm	OFTP login hash algorithm.	option	-	sha256														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>sha256</td><td>Use SHA256 as HMAC algorithm.</td></tr></table>	Option	Description	sha256	Use SHA256 as HMAC algorithm.													
Option	Description																	
sha256	Use SHA256 as HMAC algorithm.																	
enc-algorithm	Configure the level of SSL protection for secure communication with FortiAnalyzer.	option	-	high														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>high-medium</td><td>Encrypt logs using high and medium encryption algorithms.</td></tr><tr><td>high</td><td>Encrypt logs using high encryption algorithms.</td></tr><tr><td>low</td><td>Encrypt logs using all encryption algorithms.</td></tr></table>	Option	Description	high-medium	Encrypt logs using high and medium encryption algorithms.	high	Encrypt logs using high encryption algorithms.	low	Encrypt logs using all encryption algorithms.									
Option	Description																	
high-medium	Encrypt logs using high and medium encryption algorithms.																	
high	Encrypt logs using high encryption algorithms.																	
low	Encrypt logs using all encryption algorithms.																	
ssl-min-protocol-version	Minimum supported protocol version for SSL/TLS connections (default is to follow system global setting).	option	-	default														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>default</td><td>Follow system global setting.</td></tr><tr><td>SSLv3</td><td>SSLv3.</td></tr><tr><td>TLSv1</td><td>TLSv1.</td></tr><tr><td>TLSv1-1</td><td>TLSv1.1.</td></tr><tr><td>TLSv1-2</td><td>TLSv1.2.</td></tr><tr><td>TLSv1-3</td><td>TLSv1.3.</td></tr></table>	Option	Description	default	Follow system global setting.	SSLv3	SSLv3.	TLSv1	TLSv1.	TLSv1-1	TLSv1.1.	TLSv1-2	TLSv1.2.	TLSv1-3	TLSv1.3.			
Option	Description																	
default	Follow system global setting.																	
SSLv3	SSLv3.																	
TLSv1	TLSv1.																	
TLSv1-1	TLSv1.1.																	
TLSv1-2	TLSv1.2.																	
TLSv1-3	TLSv1.3.																	
conn-timeout	FortiAnalyzer connection time-out in seconds (for status and log buffer).	integer	Minimum value: 1 Maximum value: 3600	10														

Parameter	Description	Type	Size	Default										
monitor-keepalive-period	Time between OFTP keepalives in seconds (for status and log buffer).	integer	Minimum value: 1 Maximum value: 120	5										
monitor-failure-retry-period	Time between FortiAnalyzer connection retries in seconds (for status and log buffer).	integer	Minimum value: 1 Maximum value: 86400	5										
certificate	Certificate used to communicate with FortiAnalyzer.	string	Maximum length: 35											
source-ip	Source IPv4 or IPv6 address used to communicate with FortiAnalyzer.	string	Maximum length: 63											
upload-option	Enable/disable logging to hard disk and then uploading to FortiAnalyzer.	option	-	5-minute										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>store-and-upload</td><td>Log to hard disk and then upload to FortiAnalyzer.</td></tr><tr><td>realtime</td><td>Log directly to FortiAnalyzer in real time.</td></tr><tr><td>1-minute</td><td>Log directly to FortiAnalyzer at least every 1 minute.</td></tr><tr><td>5-minute</td><td>Log directly to FortiAnalyzer at least every 5 minutes.</td></tr></table>				Option	Description	store-and-upload	Log to hard disk and then upload to FortiAnalyzer.	realtime	Log directly to FortiAnalyzer in real time.	1-minute	Log directly to FortiAnalyzer at least every 1 minute.	5-minute	Log directly to FortiAnalyzer at least every 5 minutes.
Option	Description													
store-and-upload	Log to hard disk and then upload to FortiAnalyzer.													
realtime	Log directly to FortiAnalyzer in real time.													
1-minute	Log directly to FortiAnalyzer at least every 1 minute.													
5-minute	Log directly to FortiAnalyzer at least every 5 minutes.													
upload-interval	Frequency to upload log files to FortiAnalyzer.	option	-	daily										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>daily</td><td>Upload log files to FortiAnalyzer once a day.</td></tr><tr><td>weekly</td><td>Upload log files to FortiAnalyzer once a week.</td></tr><tr><td>monthly</td><td>Upload log files to FortiAnalyzer once a month.</td></tr></table>				Option	Description	daily	Upload log files to FortiAnalyzer once a day.	weekly	Upload log files to FortiAnalyzer once a week.	monthly	Upload log files to FortiAnalyzer once a month.		
Option	Description													
daily	Upload log files to FortiAnalyzer once a day.													
weekly	Upload log files to FortiAnalyzer once a week.													
monthly	Upload log files to FortiAnalyzer once a month.													
upload-day	Day of week (month) to upload logs.	user	Not Specified											
upload-time	Time to upload logs (hh:mm).	user	Not Specified											
priority	Set log transmission priority.	option	-	default										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>default</td><td>Set FortiAnalyzer log transmission priority to default.</td></tr><tr><td>low</td><td>Set FortiAnalyzer log transmission priority to low.</td></tr></table>				Option	Description	default	Set FortiAnalyzer log transmission priority to default.	low	Set FortiAnalyzer log transmission priority to low.				
Option	Description													
default	Set FortiAnalyzer log transmission priority to default.													
low	Set FortiAnalyzer log transmission priority to low.													

Parameter	Description	Type	Size	Default						
max-log-rate	FortiAnalyzer maximum log rate in MBps (0 = unlimited).	integer	Minimum value: 0 Maximum value: 100000	0						
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>auto</i></td><td>Set outgoing interface automatically.</td></tr><tr><td><i>specify</i></td><td>Set outgoing interface manually.</td></tr></table>				Option	Description	<i>auto</i>	Set outgoing interface automatically.	<i>specify</i>	Set outgoing interface manually.
Option	Description									
<i>auto</i>	Set outgoing interface automatically.									
<i>specify</i>	Set outgoing interface manually.									
interface	Specify outgoing interface to reach server.	string	Maximum length: 15							

config log fortiguard filter

Filters for FortiCloud.

```

config log fortiguard filter
    Description: Filters for FortiCloud.
    set severity [emergency|alert|...]
    set forward-traffic [enable|disable]
    set local-traffic [enable|disable]
    set multicast-traffic [enable|disable]
    set sniffer-traffic [enable|disable]
    set ztna-traffic [enable|disable]
    set http-transaction [enable|disable]
    set anomaly [enable|disable]
    set voip [enable|disable]
    set forti-switch [enable|disable]
    config free-style
        Description: Free style filters.
        edit <id>
            set category [traffic|event|...]
            set filter {string}
            set filter-type [include|exclude]
        next
    end
end

```

config log fortiguard filter

Parameter	Description	Type	Size	Default
severity	Lowest severity level to log.	option	-	information

Parameter	Description	Type	Size	Default																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>emergency</i></td><td>Emergency level.</td></tr><tr><td><i>alert</i></td><td>Alert level.</td></tr><tr><td><i>critical</i></td><td>Critical level.</td></tr><tr><td><i>error</i></td><td>Error level.</td></tr><tr><td><i>warning</i></td><td>Warning level.</td></tr><tr><td><i>notification</i></td><td>Notification level.</td></tr><tr><td><i>information</i></td><td>Information level.</td></tr><tr><td><i>debug</i></td><td>Debug level.</td></tr></table>	Option	Description	<i>emergency</i>	Emergency level.	<i>alert</i>	Alert level.	<i>critical</i>	Critical level.	<i>error</i>	Error level.	<i>warning</i>	Warning level.	<i>notification</i>	Notification level.	<i>information</i>	Information level.	<i>debug</i>	Debug level.			
	Option	Description																				
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	<i>notification</i>	Notification level.																				
	<i>information</i>	Information level.																				
<i>debug</i>	Debug level.																					
forward-traffic	Enable/disable forward traffic logging.	option	-	enable																		
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local-traffic	Enable/disable local in or out traffic logging.	option	-	enable																		
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multicast-traffic	Enable/disable multicast traffic logging.	option	-	enable																		
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sniffer-traffic	Enable/disable sniffer traffic logging.	option	-	enable																		
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<i>disable</i>	Disable sniffer traffic logging.																					
ztna-traffic	Enable/disable ztna traffic logging.	option	-	enable																		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable ztna traffic logging.		
	<i>disable</i>	Disable ztna traffic logging.		
http-transaction	Enable/disable log http-transaction messages.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable http transaction logging.		
	<i>disable</i>	Disable http transaction logging.		
anomaly	Enable/disable anomaly logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable anomaly logging.		
	<i>disable</i>	Disable anomaly logging.		
voip	Enable/disable VoIP logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable VoIP logging.		
	<i>disable</i>	Disable VoIP logging.		
forti-switch	Enable/disable Forti-Switch logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable Forti-Switch logging.		
	<i>disable</i>	Disable Forti-Switch logging.		

config free-style

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
category	Log category.	option	-	traffic

Parameter	Description	Type	Size	Default																																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>traffic</i></td><td>Traffic log.</td></tr><tr><td><i>event</i></td><td>Event log.</td></tr><tr><td><i>virus</i></td><td>Antivirus log.</td></tr><tr><td><i>webfilter</i></td><td>Web filter log.</td></tr><tr><td><i>attack</i></td><td>Attack log.</td></tr><tr><td><i>spam</i></td><td>Antispam log.</td></tr><tr><td><i>anomaly</i></td><td>Anomaly log.</td></tr><tr><td><i>voip</i></td><td>VoIP log.</td></tr><tr><td><i>dlp</i></td><td>DLP log.</td></tr><tr><td><i>app-ctrl</i></td><td>Application control log.</td></tr><tr><td><i>waf</i></td><td>Web application firewall log.</td></tr><tr><td><i>dns</i></td><td>DNS detail log.</td></tr><tr><td><i>ssh</i></td><td>SSH log.</td></tr><tr><td><i>ssl</i></td><td>SSL log.</td></tr><tr><td><i>file-filter</i></td><td>File filter log.</td></tr><tr><td><i>icap</i></td><td>ICAP log.</td></tr><tr><td><i>virtual-patch</i></td><td>Virtual patch log.</td></tr></table>	Option	Description	<i>traffic</i>	Traffic log.	<i>event</i>	Event log.	<i>virus</i>	Antivirus log.	<i>webfilter</i>	Web filter log.	<i>attack</i>	Attack log.	<i>spam</i>	Antispam log.	<i>anomaly</i>	Anomaly log.	<i>voip</i>	VoIP log.	<i>dlp</i>	DLP log.	<i>app-ctrl</i>	Application control log.	<i>waf</i>	Web application firewall log.	<i>dns</i>	DNS detail log.	<i>ssh</i>	SSH log.	<i>ssl</i>	SSL log.	<i>file-filter</i>	File filter log.	<i>icap</i>	ICAP log.	<i>virtual-patch</i>	Virtual patch log.			
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<i>virtual-patch</i>	Virtual patch log.																																							
filter	Free style filter string.	string	Maximum length: 1023																																					
filter-type	Include/exclude logs that match the filter.	option	-	include																																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>include</i></td><td>Include logs that match the filter.</td></tr><tr><td><i>exclude</i></td><td>Exclude logs that match the filter.</td></tr></table>	Option	Description	<i>include</i>	Include logs that match the filter.	<i>exclude</i>	Exclude logs that match the filter.																																	
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	<i>include</i>	Include logs that match the filter.																																						
<i>exclude</i>	Exclude logs that match the filter.																																							

config log fortiguard override-filter

Override filters for FortiCloud.

```
config log fortiguard override-filter
  Description: Override filters for FortiCloud.
  set severity [emergency|alert|...]
  set forward-traffic [enable|disable]
  set local-traffic [enable|disable]
```



```

set multicast-traffic [enable|disable]
set sniffer-traffic [enable|disable]
set ztna-traffic [enable|disable]
set http-transaction [enable|disable]
set anomaly [enable|disable]
set voip [enable|disable]
set forti-switch [enable|disable]
config free-style
    Description: Free style filters.
    edit <id>
        set category [traffic|event|...]
        set filter {string}
        set filter-type [include|exclude]
    next
end
end

```

config log fortiguard override-filter

Parameter	Description	Type	Size	Default																		
severity	Lowest severity level to log.	option	-	information																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>emergency</i></td><td>Emergency level.</td></tr><tr><td><i>alert</i></td><td>Alert level.</td></tr><tr><td><i>critical</i></td><td>Critical level.</td></tr><tr><td><i>error</i></td><td>Error level.</td></tr><tr><td><i>warning</i></td><td>Warning level.</td></tr><tr><td><i>notification</i></td><td>Notification level.</td></tr><tr><td><i>information</i></td><td>Information level.</td></tr><tr><td><i>debug</i></td><td>Debug level.</td></tr></table>	Option	Description	<i>emergency</i>	Emergency level.	<i>alert</i>	Alert level.	<i>critical</i>	Critical level.	<i>error</i>	Error level.	<i>warning</i>	Warning level.	<i>notification</i>	Notification level.	<i>information</i>	Information level.	<i>debug</i>	Debug level.			
Option	Description																					
<i>emergency</i>	Emergency level.																					
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<i>critical</i>	Critical level.																					
<i>error</i>	Error level.																					
<i>warning</i>	Warning level.																					
<i>notification</i>	Notification level.																					
<i>information</i>	Information level.																					
<i>debug</i>	Debug level.																					
forward-traffic	Enable/disable forward traffic logging.	option	-	enable																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable forward traffic logging.</td></tr><tr><td><i>disable</i></td><td>Disable forward traffic logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable forward traffic logging.	<i>disable</i>	Disable forward traffic logging.															
Option	Description																					
<i>enable</i>	Enable forward traffic logging.																					
<i>disable</i>	Disable forward traffic logging.																					
local-traffic	Enable/disable local in or out traffic logging.	option	-	enable																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable local in or out traffic logging.</td></tr><tr><td><i>disable</i></td><td>Disable local in or out traffic logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable local in or out traffic logging.	<i>disable</i>	Disable local in or out traffic logging.															
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<i>enable</i>	Enable local in or out traffic logging.																					
<i>disable</i>	Disable local in or out traffic logging.																					

Parameter	Description	Type	Size	Default						
multicast-traffic	Enable/disable multicast traffic logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable multicast traffic logging.</td></tr><tr><td><i>disable</i></td><td>Disable multicast traffic logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable multicast traffic logging.	<i>disable</i>	Disable multicast traffic logging.			
Option	Description									
<i>enable</i>	Enable multicast traffic logging.									
<i>disable</i>	Disable multicast traffic logging.									
sniffer-traffic	Enable/disable sniffer traffic logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable sniffer traffic logging.</td></tr><tr><td><i>disable</i></td><td>Disable sniffer traffic logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable sniffer traffic logging.	<i>disable</i>	Disable sniffer traffic logging.			
Option	Description									
<i>enable</i>	Enable sniffer traffic logging.									
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ztna-traffic	Enable/disable ztna traffic logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable ztna traffic logging.</td></tr><tr><td><i>disable</i></td><td>Disable ztna traffic logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable ztna traffic logging.	<i>disable</i>	Disable ztna traffic logging.			
Option	Description									
<i>enable</i>	Enable ztna traffic logging.									
<i>disable</i>	Disable ztna traffic logging.									
http-transaction	Enable/disable log http-transaction messages.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable http transaction logging.</td></tr><tr><td><i>disable</i></td><td>Disable http transaction logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable http transaction logging.	<i>disable</i>	Disable http transaction logging.			
Option	Description									
<i>enable</i>	Enable http transaction logging.									
<i>disable</i>	Disable http transaction logging.									
anomaly	Enable/disable anomaly logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable anomaly logging.</td></tr><tr><td><i>disable</i></td><td>Disable anomaly logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable anomaly logging.	<i>disable</i>	Disable anomaly logging.			
Option	Description									
<i>enable</i>	Enable anomaly logging.									
<i>disable</i>	Disable anomaly logging.									
voip	Enable/disable VoIP logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable VoIP logging.</td></tr><tr><td><i>disable</i></td><td>Disable VoIP logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable VoIP logging.	<i>disable</i>	Disable VoIP logging.			
Option	Description									
<i>enable</i>	Enable VoIP logging.									
<i>disable</i>	Disable VoIP logging.									
forti-switch	Enable/disable Forti-Switch logging.	option	-	enable						

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable Forti-Switch logging.		
	<i>disable</i>	Disable Forti-Switch logging.		

config free-style

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
category	Log category.	option	-	traffic
	Option	Description		
	<i>traffic</i>	Traffic log.		
	<i>event</i>	Event log.		
	<i>virus</i>	Antivirus log.		
	<i>webfilter</i>	Web filter log.		
	<i>attack</i>	Attack log.		
	<i>spam</i>	Antispam log.		
	<i>anomaly</i>	Anomaly log.		
	<i>voip</i>	VoIP log.		
	<i>dlp</i>	DLP log.		
	<i>app-ctrl</i>	Application control log.		
	<i>waf</i>	Web application firewall log.		
	<i>dns</i>	DNS detail log.		
	<i>ssh</i>	SSH log.		
	<i>ssl</i>	SSL log.		
	<i>file-filter</i>	File filter log.		
	<i>icap</i>	ICAP log.		
	<i>virtual-patch</i>	Virtual patch log.		

Parameter	Description	Type	Size	Default						
filter	Free style filter string.	string	Maximum length: 1023							
filter-type	Include/exclude logs that match the filter.	option	-	include						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>include</i></td><td>Include logs that match the filter.</td></tr><tr><td><i>exclude</i></td><td>Exclude logs that match the filter.</td></tr></table>				Option	Description	<i>include</i>	Include logs that match the filter.	<i>exclude</i>	Exclude logs that match the filter.
Option	Description									
<i>include</i>	Include logs that match the filter.									
<i>exclude</i>	Exclude logs that match the filter.									

config log fortiguard override-setting

Override global FortiCloud logging settings for this VDOM.

```
config log fortiguard override-setting
    Description: Override global FortiCloud logging settings for this VDOM.
    set override [enable|disable]
    set status [enable|disable]
    set upload-option [store-and-upload|realtime|...]
    set upload-interval [daily|weekly|...]
    set upload-day {user}
    set upload-time {user}
    set priority [default|low]
    set max-log-rate {integer}
    set access-config [enable|disable]
end
```

config log fortiguard override-setting

Parameter	Description	Type	Size	Default						
override	Overriding FortiCloud settings for this VDOM or use global settings.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Override FortiCloud logging settings.</td></tr><tr><td><i>disable</i></td><td>Use global FortiCloud logging settings.</td></tr></table>	Option	Description	<i>enable</i>	Override FortiCloud logging settings.	<i>disable</i>	Use global FortiCloud logging settings.			
Option	Description									
<i>enable</i>	Override FortiCloud logging settings.									
<i>disable</i>	Use global FortiCloud logging settings.									
status	Enable/disable logging to FortiCloud.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable logging to FortiCloud.</td></tr><tr><td><i>disable</i></td><td>Disable logging to FortiCloud.</td></tr></table>	Option	Description	<i>enable</i>	Enable logging to FortiCloud.	<i>disable</i>	Disable logging to FortiCloud.			
Option	Description									
<i>enable</i>	Enable logging to FortiCloud.									
<i>disable</i>	Disable logging to FortiCloud.									

Parameter	Description	Type	Size	Default
upload-option	Configure how log messages are sent to FortiCloud.	option	-	5-minute
	Option	Description		
	<i>store-and-upload</i>	Log to the hard disk and then upload logs to FortiCloud.		
	<i>realtime</i>	Log directly to FortiCloud in real time.		
	<i>1-minute</i>	Log directly to FortiCloud at 1-minute intervals.		
	<i>5-minute</i>	Log directly to FortiCloud at 5-minute intervals.		
upload-interval	Frequency of uploading log files to FortiCloud.	option	-	daily
	Option	Description		
	<i>daily</i>	Upload log files to FortiCloud once a day.		
	<i>weekly</i>	Upload log files to FortiCloud once a week.		
	<i>monthly</i>	Upload log files to FortiCloud once a month.		
upload-day	Day of week to roll logs.	user	Not Specified	
upload-time	Time of day to roll logs (hh:mm).	user	Not Specified	
priority	Set log transmission priority.	option	-	default
	Option	Description		
	<i>default</i>	Set FortiCloud log transmission priority to default.		
	<i>low</i>	Set FortiCloud log transmission priority to low.		
max-log-rate	FortiCloud maximum log rate in MBps (0 = unlimited).	integer	Minimum value: 0 Maximum value: 100000	0
access-config	Enable/disable FortiCloud access to configuration and data.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable FortiCloud access to configuration and data.		
	<i>disable</i>	Disable FortiCloud access to configuration and data.		

config log fortiguard setting

Configure logging to FortiCloud.

```
config log fortiguard setting
  Description: Configure logging to FortiCloud.
  set status [enable|disable]
  set upload-option [store-and-upload|realtime|...]
  set upload-interval [daily|weekly|...]
  set upload-day {user}
  set upload-time {user}
  set priority [default|low]
  set max-log-rate {integer}
  set access-config [enable|disable]
  set enc-algorithm [high-medium|high|...]
  set ssl-min-proto-version [default|SSLv3|...]
  set conn-timeout {integer}
  set source-ip {ipv4-address}
  set interface-select-method [auto|specify]
  set interface {string}
end
```

config log fortiguard setting

Parameter	Description	Type	Size	Default
status	Enable/disable logging to FortiCloud.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable logging to FortiCloud.		
	<i>disable</i>	Disable logging to FortiCloud.		
upload-option	Configure how log messages are sent to FortiCloud.	option	-	5-minute
	Option	Description		
	<i>store-and-upload</i>	Log to the hard disk and then upload logs to FortiCloud.		
	<i>realtime</i>	Log directly to FortiCloud in real time.		
	<i>1-minute</i>	Log directly to FortiCloud at 1-minute intervals.		
	<i>5-minute</i>	Log directly to FortiCloud at 5-minute intervals.		
upload-interval	Frequency of uploading log files to FortiCloud.	option	-	daily
	Option	Description		
	<i>daily</i>	Upload log files to FortiCloud once a day.		
	<i>weekly</i>	Upload log files to FortiCloud once a week.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>monthly</i>	Upload log files to FortiCloud once a month.		
upload-day	Day of week to roll logs.	user	Not Specified	
upload-time	Time of day to roll logs (hh:mm).	user	Not Specified	
priority	Set log transmission priority.	option	-	default
	Option	Description		
	<i>default</i>	Set FortiCloud log transmission priority to default.		
	<i>low</i>	Set FortiCloud log transmission priority to low.		
max-log-rate	FortiCloud maximum log rate in MBps (0 = unlimited).	integer	Minimum value: 0 Maximum value: 100000	0
access-config	Enable/disable FortiCloud access to configuration and data.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable FortiCloud access to configuration and data.		
	<i>disable</i>	Disable FortiCloud access to configuration and data.		
enc-algorithm	Configure the level of SSL protection for secure communication with FortiCloud.	option	-	high
	Option	Description		
	<i>high-medium</i>	Encrypt logs using high and medium encryption.		
	<i>high</i>	Encrypt logs using high encryption.		
	<i>low</i>	Encrypt logs using low encryption.		
ssl-min-protocol-version	Minimum supported protocol version for SSL/TLS connections (default is to follow system global setting).	option	-	default
	Option	Description		
	<i>default</i>	Follow system global setting.		
	<i>SSLv3</i>	SSLv3.		

Parameter	Description	Type	Size	Default										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>TLSv1</i></td><td>TLSv1.</td></tr><tr><td><i>TLSv1-1</i></td><td>TLSv1.1.</td></tr><tr><td><i>TLSv1-2</i></td><td>TLSv1.2.</td></tr><tr><td><i>TLSv1-3</i></td><td>TLSv1.3.</td></tr></table>	Option	Description	<i>TLSv1</i>	TLSv1.	<i>TLSv1-1</i>	TLSv1.1.	<i>TLSv1-2</i>	TLSv1.2.	<i>TLSv1-3</i>	TLSv1.3.			
	Option	Description												
	<i>TLSv1</i>	TLSv1.												
	<i>TLSv1-1</i>	TLSv1.1.												
	<i>TLSv1-2</i>	TLSv1.2.												
<i>TLSv1-3</i>	TLSv1.3.													
conn-timeout	FortiProxy Cloud connection timeout in seconds.	integer	Minimum value: 1 Maximum value: 3600	10										
source-ip	Source IP address used to connect FortiCloud.	ipv4-address	Not Specified	0.0.0.0										
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>auto</i></td><td>Set outgoing interface automatically.</td></tr><tr><td><i>specify</i></td><td>Set outgoing interface manually.</td></tr></table>	Option	Description	<i>auto</i>	Set outgoing interface automatically.	<i>specify</i>	Set outgoing interface manually.							
	Option	Description												
	<i>auto</i>	Set outgoing interface automatically.												
<i>specify</i>	Set outgoing interface manually.													
interface	Specify outgoing interface to reach server.	string	Maximum length: 15											

config log gui-display

Configure how log messages are displayed on the GUI.

```
config log gui-display
    Description: Configure how log messages are displayed on the GUI.
    set resolve-hosts [enable|disable]
    set resolve-apps [enable|disable]
    set fortiview-unscanned-apps [enable|disable]
end
```

config log gui-display

Parameter	Description	Type	Size	Default
resolve-hosts	Enable/disable resolving IP addresses to hostname in log messages on the GUI using reverse DNS lookup.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable resolving IP addresses to hostnames.		
	<i>disable</i>	Disable resolving IP addresses to hostnames.		
resolve-apps	Resolve unknown applications on the GUI using Fortinet's remote application database.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable unknown applications on the GUI.		
	<i>disable</i>	Disable unknown applications on the GUI.		
fortiview-unscanned-apps	Enable/disable showing unscanned traffic in FortiView application charts.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable showing unscanned traffic.		
	<i>disable</i>	Disable showing unscanned traffic.		

config log memory filter

Filters for memory buffer.

```
config log memory filter
    Description: Filters for memory buffer.
    set severity [emergency|alert|...]
    set forward-traffic [enable|disable]
    set local-traffic [enable|disable]
    set multicast-traffic [enable|disable]
    set sniffer-traffic [enable|disable]
    set ztna-traffic [enable|disable]
    set http-transaction [enable|disable]
    set anomaly [enable|disable]
    set voip [enable|disable]
    set forti-switch [enable|disable]
    config free-style
        Description: Free style filters.
        edit <id>
            set category [traffic|event|...]
            set filter {string}
            set filter-type [include|exclude]
        next
    end
end
```

config log memory filter

Parameter	Description	Type	Size	Default
severity	Log every message above and including this severity level.	option	-	information
	Option	Description		
	<i>emergency</i>	Emergency level.		
	<i>alert</i>	Alert level.		
	<i>critical</i>	Critical level.		
	<i>error</i>	Error level.		
	<i>warning</i>	Warning level.		
	<i>notification</i>	Notification level.		
	<i>information</i>	Information level.		
	<i>debug</i>	Debug level.		
forward-traffic	Enable/disable forward traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable forward traffic logging.		
	<i>disable</i>	Disable forward traffic logging.		
local-traffic	Enable/disable local in or out traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable local in or out traffic logging.		
	<i>disable</i>	Disable local in or out traffic logging.		
multicast-traffic	Enable/disable multicast traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable multicast traffic logging.		
	<i>disable</i>	Disable multicast traffic logging.		
sniffer-traffic	Enable/disable sniffer traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable sniffer traffic logging.		
	<i>disable</i>	Disable sniffer traffic logging.		

Parameter	Description	Type	Size	Default						
ztna-traffic	Enable/disable ztna traffic logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable ztna traffic logging.</td></tr><tr><td><i>disable</i></td><td>Disable ztna traffic logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable ztna traffic logging.	<i>disable</i>	Disable ztna traffic logging.			
Option	Description									
<i>enable</i>	Enable ztna traffic logging.									
<i>disable</i>	Disable ztna traffic logging.									
http-transaction	Enable/disable log http-transaction messages.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable http transaction logging.</td></tr><tr><td><i>disable</i></td><td>Disable http transaction logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable http transaction logging.	<i>disable</i>	Disable http transaction logging.			
Option	Description									
<i>enable</i>	Enable http transaction logging.									
<i>disable</i>	Disable http transaction logging.									
anomaly	Enable/disable anomaly logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable anomaly logging.</td></tr><tr><td><i>disable</i></td><td>Disable anomaly logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable anomaly logging.	<i>disable</i>	Disable anomaly logging.			
Option	Description									
<i>enable</i>	Enable anomaly logging.									
<i>disable</i>	Disable anomaly logging.									
voip	Enable/disable VoIP logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable VoIP logging.</td></tr><tr><td><i>disable</i></td><td>Disable VoIP logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable VoIP logging.	<i>disable</i>	Disable VoIP logging.			
Option	Description									
<i>enable</i>	Enable VoIP logging.									
<i>disable</i>	Disable VoIP logging.									
forti-switch	Enable/disable Forti-Switch logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable Forti-Switch logging.</td></tr><tr><td><i>disable</i></td><td>Disable Forti-Switch logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable Forti-Switch logging.	<i>disable</i>	Disable Forti-Switch logging.			
Option	Description									
<i>enable</i>	Enable Forti-Switch logging.									
<i>disable</i>	Disable Forti-Switch logging.									

config free-style

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
category	Log category.	option	-	traffic

Parameter	Description	Type	Size	Default																																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>traffic</i></td><td>Traffic log.</td></tr><tr><td><i>event</i></td><td>Event log.</td></tr><tr><td><i>virus</i></td><td>Antivirus log.</td></tr><tr><td><i>webfilter</i></td><td>Web filter log.</td></tr><tr><td><i>attack</i></td><td>Attack log.</td></tr><tr><td><i>spam</i></td><td>Antispam log.</td></tr><tr><td><i>anomaly</i></td><td>Anomaly log.</td></tr><tr><td><i>voip</i></td><td>VoIP log.</td></tr><tr><td><i>dlp</i></td><td>DLP log.</td></tr><tr><td><i>app-ctrl</i></td><td>Application control log.</td></tr><tr><td><i>waf</i></td><td>Web application firewall log.</td></tr><tr><td><i>dns</i></td><td>DNS detail log.</td></tr><tr><td><i>ssh</i></td><td>SSH log.</td></tr><tr><td><i>ssl</i></td><td>SSL log.</td></tr><tr><td><i>file-filter</i></td><td>File filter log.</td></tr><tr><td><i>icap</i></td><td>ICAP log.</td></tr><tr><td><i>virtual-patch</i></td><td>Virtual patch log.</td></tr></table>	Option	Description	<i>traffic</i>	Traffic log.	<i>event</i>	Event log.	<i>virus</i>	Antivirus log.	<i>webfilter</i>	Web filter log.	<i>attack</i>	Attack log.	<i>spam</i>	Antispam log.	<i>anomaly</i>	Anomaly log.	<i>voip</i>	VoIP log.	<i>dlp</i>	DLP log.	<i>app-ctrl</i>	Application control log.	<i>waf</i>	Web application firewall log.	<i>dns</i>	DNS detail log.	<i>ssh</i>	SSH log.	<i>ssl</i>	SSL log.	<i>file-filter</i>	File filter log.	<i>icap</i>	ICAP log.	<i>virtual-patch</i>	Virtual patch log.			
	Option	Description																																						
	<i>traffic</i>	Traffic log.																																						
	<i>event</i>	Event log.																																						
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	<i>webfilter</i>	Web filter log.																																						
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	<i>anomaly</i>	Anomaly log.																																						
	<i>voip</i>	VoIP log.																																						
	<i>dlp</i>	DLP log.																																						
	<i>app-ctrl</i>	Application control log.																																						
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	<i>dns</i>	DNS detail log.																																						
	<i>ssh</i>	SSH log.																																						
	<i>ssl</i>	SSL log.																																						
	<i>file-filter</i>	File filter log.																																						
	<i>icap</i>	ICAP log.																																						
<i>virtual-patch</i>	Virtual patch log.																																							
filter	Free style filter string.	string	Maximum length: 1023																																					
filter-type	Include/exclude logs that match the filter.	option	-	include																																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>include</i></td><td>Include logs that match the filter.</td></tr><tr><td><i>exclude</i></td><td>Exclude logs that match the filter.</td></tr></table>	Option	Description	<i>include</i>	Include logs that match the filter.	<i>exclude</i>	Exclude logs that match the filter.																																	
	Option	Description																																						
	<i>include</i>	Include logs that match the filter.																																						
<i>exclude</i>	Exclude logs that match the filter.																																							

config log memory global-setting

Global settings for memory logging.

```
config log memory global-setting
    Description: Global settings for memory logging.
    set max-size {integer}
    set full-first-warning-threshold {integer}
    set full-second-warning-threshold {integer}
```

```

    set full-final-warning-threshold {integer}
end

```

config log memory global-setting

Parameter	Description	Type	Size	Default
max-size	Maximum amount of memory that can be used for memory logging in bytes.	integer	Minimum value: 0 Maximum value: 4294967295	41299517
full-first-warning-threshold	Log full first warning threshold as a percent (1 - 98, default = 75).	integer	Minimum value: 1 Maximum value: 98	75
full-second-warning-threshold	Log full second warning threshold as a percent (2 - 99, default = 90).	integer	Minimum value: 2 Maximum value: 99	90
full-final-warning-threshold	Log full final warning threshold as a percent (3 - 100, default = 95).	integer	Minimum value: 3 Maximum value: 100	95

config log memory setting

Settings for memory buffer.

```

config log memory setting
    Description: Settings for memory buffer.
    set status [enable|disable]
end

```

config log memory setting

Parameter	Description	Type	Size	Default						
status	Enable/disable logging to the FortiProxy's memory.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable logging to memory.</td></tr><tr><td><i>disable</i></td><td>Disable logging to memory.</td></tr></table>				Option	Description	<i>enable</i>	Enable logging to memory.	<i>disable</i>	Disable logging to memory.
	Option	Description								
	<i>enable</i>	Enable logging to memory.								
<i>disable</i>	Disable logging to memory.									

config log null-device filter

Filters for null device logging.

```
config log null-device filter
  Description: Filters for null device logging.
  set severity [emergency|alert|...]
  set forward-traffic [enable|disable]
  set local-traffic [enable|disable]
  set multicast-traffic [enable|disable]
  set sniffer-traffic [enable|disable]
  set ztna-traffic [enable|disable]
  set http-transaction [enable|disable]
  set anomaly [enable|disable]
  set voip [enable|disable]
  set forti-switch [enable|disable]
  config free-style
    Description: Free style filters.
    edit <id>
      set category [traffic|event|...]
      set filter {string}
      set filter-type [include|exclude]
    next
  end
end
```

config log null-device filter

Parameter	Description	Type	Size	Default
severity	Lowest severity level to log.	option	-	information
	Option	Description		
	emergency	Emergency level.		
	alert	Alert level.		
	critical	Critical level.		
	error	Error level.		
	warning	Warning level.		
	notification	Notification level.		
	information	Information level.		
	debug	Debug level.		
forward-traffic	Enable/disable forward traffic logging.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable forward traffic logging.		
	<i>disable</i>	Disable forward traffic logging.		
local-traffic	Enable/disable local in or out traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable local in or out traffic logging.		
	<i>disable</i>	Disable local in or out traffic logging.		
multicast-traffic	Enable/disable multicast traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable multicast traffic logging.		
	<i>disable</i>	Disable multicast traffic logging.		
sniffer-traffic	Enable/disable sniffer traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable sniffer traffic logging.		
	<i>disable</i>	Disable sniffer traffic logging.		
ztna-traffic	Enable/disable ztna traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable ztna traffic logging.		
	<i>disable</i>	Disable ztna traffic logging.		
http-transaction	Enable/disable log http-transaction messages.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable http transaction logging.		
	<i>disable</i>	Disable http transaction logging.		
anomaly	Enable/disable anomaly logging.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable anomaly logging.		
	<i>disable</i>	Disable anomaly logging.		
voip	Enable/disable VoIP logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable VoIP logging.		
	<i>disable</i>	Disable VoIP logging.		
forti-switch	Enable/disable Forti-Switch logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable Forti-Switch logging.		
	<i>disable</i>	Disable Forti-Switch logging.		

config free-style

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
category	Log category.	option	-	traffic
	Option	Description		
	<i>traffic</i>	Traffic log.		
	<i>event</i>	Event log.		
	<i>virus</i>	Antivirus log.		
	<i>webfilter</i>	Web filter log.		
	<i>attack</i>	Attack log.		
	<i>spam</i>	Antispam log.		
	<i>anomaly</i>	Anomaly log.		
	<i>voip</i>	VoIP log.		
	<i>dlp</i>	DLP log.		

Parameter	Description	Type	Size	Default																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>app-ctrl</i></td><td>Application control log.</td></tr><tr><td><i>waf</i></td><td>Web application firewall log.</td></tr><tr><td><i>dns</i></td><td>DNS detail log.</td></tr><tr><td><i>ssh</i></td><td>SSH log.</td></tr><tr><td><i>ssl</i></td><td>SSL log.</td></tr><tr><td><i>file-filter</i></td><td>File filter log.</td></tr><tr><td><i>icap</i></td><td>ICAP log.</td></tr><tr><td><i>virtual-patch</i></td><td>Virtual patch log.</td></tr></table>	Option	Description	<i>app-ctrl</i>	Application control log.	<i>waf</i>	Web application firewall log.	<i>dns</i>	DNS detail log.	<i>ssh</i>	SSH log.	<i>ssl</i>	SSL log.	<i>file-filter</i>	File filter log.	<i>icap</i>	ICAP log.	<i>virtual-patch</i>	Virtual patch log.			
	Option	Description																				
	<i>app-ctrl</i>	Application control log.																				
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	<i>file-filter</i>	File filter log.																				
	<i>icap</i>	ICAP log.																				
<i>virtual-patch</i>	Virtual patch log.																					
filter	Free style filter string.	string	Maximum length: 1023																			
filter-type	Include/exclude logs that match the filter.	option	-	include																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>include</i></td><td>Include logs that match the filter.</td></tr><tr><td><i>exclude</i></td><td>Exclude logs that match the filter.</td></tr></table>	Option	Description	<i>include</i>	Include logs that match the filter.	<i>exclude</i>	Exclude logs that match the filter.															
	Option	Description																				
	<i>include</i>	Include logs that match the filter.																				
<i>exclude</i>	Exclude logs that match the filter.																					

config log null-device setting

Settings for null device logging.

```
config log null-device setting
    Description: Settings for null device logging.
    set status [enable|disable]
end
```

config log null-device setting

Parameter	Description	Type	Size	Default
status	Enable/disable statistics collection for when no external logging destination, such as FortiAnalyzer, is present (data is not saved).	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable statistics collection for when no external logging destination, such as FortiAnalyzer, is present (data is not saved).		
	<i>disable</i>	Disable statistics collection for when no external logging destination, such as FortiAnalyzer, is present (data is not saved).		

config log setting

Configure general log settings.

```
config log setting
    Description: Configure general log settings.
    set resolve-ip [enable|disable]
    set resolve-port [enable|disable]
    set log-user-in-upper [enable|disable]
    set fwpolicy-implicit-log [enable|disable]
    set fwpolicy6-implicit-log [enable|disable]
    set extended-log [enable|disable]
    set local-in-allow [enable|disable]
    set local-in-deny-unicast [enable|disable]
    set local-in-deny-broadcast [enable|disable]
    set local-out [enable|disable]
    set local-out-ioc-detection [enable|disable]
    set daemon-log [enable|disable]
    set neighbor-event [enable|disable]
    set brief-traffic-format [enable|disable]
    set user-anonymize [enable|disable]
    set expolicy-implicit-log [enable|disable]
    set log-policy-comment [enable|disable]
    set faz-override [enable|disable]
    set syslog-override [enable|disable]
    set rest-api-set [enable|disable]
    set rest-api-get [enable|disable]
    set long-live-session-stat [enable|disable]
    set custom-log-fields <field-id1>, <field-id2>, ...
    set anonymization-hash {string}
end
```

config log setting

Parameter	Description	Type	Size	Default
resolve-ip	Enable/disable adding resolved domain names to traffic logs if possible.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable adding resolved domain names to traffic logs.		
	<i>disable</i>	Disable adding resolved domain names to traffic logs.		
resolve-port	Enable/disable adding resolved service names to traffic logs.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable adding resolved service names to traffic logs.		
	<i>disable</i>	Disable adding resolved service names to traffic logs.		
log-user-in-upper	Enable/disable logs with user-in-upper.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable logs with user-in-upper.		
	<i>disable</i>	Disable logs with user-in-upper.		
fwpolicy-implicit-log	Enable/disable implicit firewall policy logging.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable implicit firewall policy logging.		
	<i>disable</i>	Disable implicit firewall policy logging.		
fwpolicy6-implicit-log	Enable/disable implicit firewall policy6 logging.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable implicit firewall policy6 logging.		
	<i>disable</i>	Disable implicit firewall policy6 logging.		
extended-log	Enable/disable extended traffic logging.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable extended traffic logging.		
	<i>disable</i>	Disable extended traffic logging.		
local-in-allow	Enable/disable local-in-allow logging.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable local-in-allow logging.		
	<i>disable</i>	Disable local-in-allow logging.		
local-in-deny-unicast	Enable/disable local-in-deny-unicast logging.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable local-in-deny-unicast logging.		
	<i>disable</i>	Disable local-in-deny-unicast logging.		
local-in-deny-broadcast	Enable/disable local-in-deny-broadcast logging.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable local-in-deny-broadcast logging.		
	<i>disable</i>	Disable local-in-deny-broadcast logging.		
local-out	Enable/disable local-out logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable local-out logging.		
	<i>disable</i>	Disable local-out logging.		
local-out-ioc-detection	Enable/disable local-out traffic IoC detection. Requires local-out to be enabled.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable local-out traffic IoC detection. Requires local-out to be enabled.		
	<i>disable</i>	Disable local-out traffic IoC detection.		
daemon-log	Enable/disable daemon logging.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable daemon logging.		
	<i>disable</i>	Disable daemon logging.		
neighbor-event	Enable/disable neighbor event logging.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable neighbor event logging.		
	<i>disable</i>	Disable neighbor event logging.		
brief-traffic-format	Enable/disable brief format traffic logging.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable brief format traffic logging.		
	<i>disable</i>	Disable brief format traffic logging.		
user-anonymize	Enable/disable anonymizing user names in log messages.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable anonymizing user names in log messages.		
	<i>disable</i>	Disable anonymizing user names in log messages.		
expolicy-implicit-log	Enable/disable explicit proxy firewall implicit policy logging.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable explicit proxy firewall implicit policy logging.		
	<i>disable</i>	Disable explicit proxy firewall implicit policy logging.		
log-policy-comment	Enable/disable inserting policy comments into traffic logs.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable inserting policy comments into traffic logs.		
	<i>disable</i>	Disable inserting policy comments into traffic logs.		
faz-override	Enable/disable override FortiAnalyzer settings.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable override FortiAnalyzer settings.		
	<i>disable</i>	Disable override FortiAnalyzer settings.		
syslog-override	Enable/disable override Syslog settings.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable override Syslog settings.		
	<i>disable</i>	Disable override Syslog settings.		
rest-api-set	Enable/disable REST API POST/PUT/DELETE request logging.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable POST/PUT/DELETE REST API logging.		
	<i>disable</i>	Disable POST/PUT/DELETE REST API logging.		
rest-api-get	Enable/disable REST API GET request logging.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable GET REST API logging.		
	<i>disable</i>	Disable GET REST API logging.		
long-live-session-stat	Enable/disable long-live-session statistics logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable long-live-session statistics logging.		
	<i>disable</i>	Disable long-live-session statistics logging.		
custom-log-fields <field-id>	Custom fields to append to all log messages. Custom log field.	string	Maximum length: 35	
anonymization-hash	User name anonymization hash salt.	string	Maximum length: 32	

config log syslogd filter

Filters for remote system server.

```
config log syslogd filter
    Description: Filters for remote system server.
    set severity [emergency|alert|...]
    set forward-traffic [enable|disable]
    set local-traffic [enable|disable]
    set multicast-traffic [enable|disable]
    set sniffer-traffic [enable|disable]
    set ztna-traffic [enable|disable]
    set http-transaction [enable|disable]
    set anomaly [enable|disable]
```

```

set voip [enable|disable]
set forti-switch [enable|disable]
config free-style
    Description: Free style filters.
    edit <id>
        set category [traffic|event|...]
        set filter {string}
        set filter-type [include|exclude]
    next
end
end

```

config log syslogd filter

Parameter	Description	Type	Size	Default
severity	Lowest severity level to log.	option	-	information
	Option	Description		
	<i>emergency</i>	Emergency level.		
	<i>alert</i>	Alert level.		
	<i>critical</i>	Critical level.		
	<i>error</i>	Error level.		
	<i>warning</i>	Warning level.		
	<i>notification</i>	Notification level.		
	<i>information</i>	Information level.		
	<i>debug</i>	Debug level.		
forward-traffic	Enable/disable forward traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable forward traffic logging.		
	<i>disable</i>	Disable forward traffic logging.		
local-traffic	Enable/disable local in or out traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable local in or out traffic logging.		
	<i>disable</i>	Disable local in or out traffic logging.		
multicast-traffic	Enable/disable multicast traffic logging.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable multicast traffic logging.		
	<i>disable</i>	Disable multicast traffic logging.		
sniffer-traffic	Enable/disable sniffer traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable sniffer traffic logging.		
	<i>disable</i>	Disable sniffer traffic logging.		
ztna-traffic	Enable/disable ztna traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable ztna traffic logging.		
	<i>disable</i>	Disable ztna traffic logging.		
http-transaction	Enable/disable log http-transaction messages.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable http transaction logging.		
	<i>disable</i>	Disable http transaction logging.		
anomaly	Enable/disable anomaly logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable anomaly logging.		
	<i>disable</i>	Disable anomaly logging.		
voip	Enable/disable VoIP logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable VoIP logging.		
	<i>disable</i>	Disable VoIP logging.		
forti-switch	Enable/disable Forti-Switch logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable Forti-Switch logging.		
	<i>disable</i>	Disable Forti-Switch logging.		

config free-style

Parameter	Description	Type	Size	Default																																				
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0																																				
category	Log category.	option	-	traffic																																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>traffic</td><td>Traffic log.</td></tr><tr><td>event</td><td>Event log.</td></tr><tr><td>virus</td><td>Antivirus log.</td></tr><tr><td>webfilter</td><td>Web filter log.</td></tr><tr><td>attack</td><td>Attack log.</td></tr><tr><td>spam</td><td>Antispam log.</td></tr><tr><td>anomaly</td><td>Anomaly log.</td></tr><tr><td>voip</td><td>VoIP log.</td></tr><tr><td>dlp</td><td>DLP log.</td></tr><tr><td>app-ctrl</td><td>Application control log.</td></tr><tr><td>waf</td><td>Web application firewall log.</td></tr><tr><td>dns</td><td>DNS detail log.</td></tr><tr><td>ssh</td><td>SSH log.</td></tr><tr><td>ssl</td><td>SSL log.</td></tr><tr><td>file-filter</td><td>File filter log.</td></tr><tr><td>icap</td><td>ICAP log.</td></tr><tr><td>virtual-patch</td><td>Virtual patch log.</td></tr></table>				Option	Description	traffic	Traffic log.	event	Event log.	virus	Antivirus log.	webfilter	Web filter log.	attack	Attack log.	spam	Antispam log.	anomaly	Anomaly log.	voip	VoIP log.	dlp	DLP log.	app-ctrl	Application control log.	waf	Web application firewall log.	dns	DNS detail log.	ssh	SSH log.	ssl	SSL log.	file-filter	File filter log.	icap	ICAP log.	virtual-patch	Virtual patch log.
	Option	Description																																						
	traffic	Traffic log.																																						
	event	Event log.																																						
	virus	Antivirus log.																																						
	webfilter	Web filter log.																																						
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	dns	DNS detail log.																																						
	ssh	SSH log.																																						
	ssl	SSL log.																																						
	file-filter	File filter log.																																						
icap	ICAP log.																																							
virtual-patch	Virtual patch log.																																							
filter	Free style filter string.	string	Maximum length: 1023																																					
filter-type	Include/exclude logs that match the filter.	option	-	include																																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>include</td><td>Include logs that match the filter.</td></tr><tr><td>exclude</td><td>Exclude logs that match the filter.</td></tr></table>				Option	Description	include	Include logs that match the filter.	exclude	Exclude logs that match the filter.																														
	Option	Description																																						
	include	Include logs that match the filter.																																						
exclude	Exclude logs that match the filter.																																							

config log syslogd override-filter

Override filters for remote system server.

```
config log syslogd override-filter
  Description: Override filters for remote system server.
  set severity [emergency|alert|...]
  set forward-traffic [enable|disable]
  set local-traffic [enable|disable]
  set multicast-traffic [enable|disable]
  set sniffer-traffic [enable|disable]
  set ztna-traffic [enable|disable]
  set http-transaction [enable|disable]
  set anomaly [enable|disable]
  set voip [enable|disable]
  set forti-switch [enable|disable]
  config free-style
    Description: Free style filters.
    edit <id>
      set category [traffic|event|...]
      set filter {string}
      set filter-type [include|exclude]
    next
  end
end
```

config log syslogd override-filter

Parameter	Description	Type	Size	Default
severity	Lowest severity level to log.	option	-	information
	Option	Description		
	<i>emergency</i>	Emergency level.		
	<i>alert</i>	Alert level.		
	<i>critical</i>	Critical level.		
	<i>error</i>	Error level.		
	<i>warning</i>	Warning level.		
	<i>notification</i>	Notification level.		
	<i>information</i>	Information level.		
	<i>debug</i>	Debug level.		
forward-traffic	Enable/disable forward traffic logging.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable forward traffic logging.		
	<i>disable</i>	Disable forward traffic logging.		
local-traffic	Enable/disable local in or out traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable local in or out traffic logging.		
	<i>disable</i>	Disable local in or out traffic logging.		
multicast-traffic	Enable/disable multicast traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable multicast traffic logging.		
	<i>disable</i>	Disable multicast traffic logging.		
sniffer-traffic	Enable/disable sniffer traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable sniffer traffic logging.		
	<i>disable</i>	Disable sniffer traffic logging.		
ztna-traffic	Enable/disable ztna traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable ztna traffic logging.		
	<i>disable</i>	Disable ztna traffic logging.		
http-transaction	Enable/disable log http-transaction messages.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable http transaction logging.		
	<i>disable</i>	Disable http transaction logging.		
anomaly	Enable/disable anomaly logging.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable anomaly logging.		
	<i>disable</i>	Disable anomaly logging.		
voip	Enable/disable VoIP logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable VoIP logging.		
	<i>disable</i>	Disable VoIP logging.		
forti-switch	Enable/disable Forti-Switch logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable Forti-Switch logging.		
	<i>disable</i>	Disable Forti-Switch logging.		

config free-style

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
category	Log category.	option	-	traffic
	Option	Description		
	<i>traffic</i>	Traffic log.		
	<i>event</i>	Event log.		
	<i>virus</i>	Antivirus log.		
	<i>webfilter</i>	Web filter log.		
	<i>attack</i>	Attack log.		
	<i>spam</i>	Antispam log.		
	<i>anomaly</i>	Anomaly log.		
	<i>voip</i>	VoIP log.		
	<i>dlp</i>	DLP log.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>app-ctrl</i>	Application control log.		
	<i>waf</i>	Web application firewall log.		
	<i>dns</i>	DNS detail log.		
	<i>ssh</i>	SSH log.		
	<i>ssl</i>	SSL log.		
	<i>file-filter</i>	File filter log.		
	<i>icap</i>	ICAP log.		
	<i>virtual-patch</i>	Virtual patch log.		
filter	Free style filter string.	string	Maximum length: 1023	
filter-type	Include/exclude logs that match the filter.	option	-	include
	Option	Description		
	<i>include</i>	Include logs that match the filter.		
	<i>exclude</i>	Exclude logs that match the filter.		

config log syslogd override-setting

Override settings for remote syslog server.

```

config log syslogd override-setting
    Description: Override settings for remote syslog server.
    set status [enable|disable]
    set server {string}
    set mode [udp|legacy-reliable|...]
    set port {integer}
    set facility [kernel|user|...]
    set source-ip {string}
    set format [default|csv|...]
    set priority [default|low]
    set max-log-rate {integer}
    set enc-algorithm [high-medium|high|...]
    set ssl-min-proto-version [default|SSLv3|...]
    set certificate {string}
    config custom-field-name
        Description: Custom field name for CEF format logging.
        edit <id>
            set name {string}
            set custom {string}
        next
    end

```

```

set interface-select-method [auto|specify]
set interface {string}
config log-templates
  Description: Custom log templates.
  edit <id>
    set category [traffic|event|...]
    set empty-value-indicator {string}
    set template {string}
  next
end
end

```

config log syslogd override-setting

Parameter	Description	Type	Size	Default
status	Enable/disable remote syslog logging.	option	-	disable
	Option	Description		
	<i>enable</i>	Log to remote syslog server.		
	<i>disable</i>	Do not log to remote syslog server.		
server	Address of remote syslog server.	string	Maximum length: 127	
mode	Remote syslog logging over UDP/Reliable TCP.	option	-	udp
	Option	Description		
	<i>udp</i>	Enable syslogging over UDP.		
	<i>legacy-reliable</i>	Enable legacy reliable syslogging by RFC3195 (Reliable Delivery for Syslog).		
	<i>reliable</i>	Enable reliable syslogging by RFC6587 (Transmission of Syslog Messages over TCP).		
port	Server listen port.	integer	Minimum value: 0 Maximum value: 65535	514
facility	Remote syslog facility.	option	-	local7
	Option	Description		
	<i>kernel</i>	Kernel messages.		
	<i>user</i>	Random user-level messages.		
	<i>mail</i>	Mail system.		

Parameter	Description	Type	Size	Default																																												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>daemon</i></td><td>System daemons.</td></tr><tr><td><i>auth</i></td><td>Security/authorization messages.</td></tr><tr><td><i>syslog</i></td><td>Messages generated internally by syslog.</td></tr><tr><td><i>lpr</i></td><td>Line printer subsystem.</td></tr><tr><td><i>news</i></td><td>Network news subsystem.</td></tr><tr><td><i>uucp</i></td><td>Network news subsystem.</td></tr><tr><td><i>cron</i></td><td>Clock daemon.</td></tr><tr><td><i>authpriv</i></td><td>Security/authorization messages (private).</td></tr><tr><td><i>ftp</i></td><td>FTP daemon.</td></tr><tr><td><i>ntp</i></td><td>NTP daemon.</td></tr><tr><td><i>audit</i></td><td>Log audit.</td></tr><tr><td><i>alert</i></td><td>Log alert.</td></tr><tr><td><i>clock</i></td><td>Clock daemon.</td></tr><tr><td><i>local0</i></td><td>Reserved for local use.</td></tr><tr><td><i>local1</i></td><td>Reserved for local use.</td></tr><tr><td><i>local2</i></td><td>Reserved for local use.</td></tr><tr><td><i>local3</i></td><td>Reserved for local use.</td></tr><tr><td><i>local4</i></td><td>Reserved for local use.</td></tr><tr><td><i>local5</i></td><td>Reserved for local use.</td></tr><tr><td><i>local6</i></td><td>Reserved for local use.</td></tr><tr><td><i>local7</i></td><td>Reserved for local use.</td></tr></table>	Option	Description	<i>daemon</i>	System daemons.	<i>auth</i>	Security/authorization messages.	<i>syslog</i>	Messages generated internally by syslog.	<i>lpr</i>	Line printer subsystem.	<i>news</i>	Network news subsystem.	<i>uucp</i>	Network news subsystem.	<i>cron</i>	Clock daemon.	<i>authpriv</i>	Security/authorization messages (private).	<i>ftp</i>	FTP daemon.	<i>ntp</i>	NTP daemon.	<i>audit</i>	Log audit.	<i>alert</i>	Log alert.	<i>clock</i>	Clock daemon.	<i>local0</i>	Reserved for local use.	<i>local1</i>	Reserved for local use.	<i>local2</i>	Reserved for local use.	<i>local3</i>	Reserved for local use.	<i>local4</i>	Reserved for local use.	<i>local5</i>	Reserved for local use.	<i>local6</i>	Reserved for local use.	<i>local7</i>	Reserved for local use.			
	Option	Description																																														
	<i>daemon</i>	System daemons.																																														
	<i>auth</i>	Security/authorization messages.																																														
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	<i>lpr</i>	Line printer subsystem.																																														
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	<i>local5</i>	Reserved for local use.																																														
<i>local6</i>	Reserved for local use.																																															
<i>local7</i>	Reserved for local use.																																															
source-ip	Source IP address of syslog.	string	Maximum length: 63																																													
format	Log format.	option	-	default																																												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>default</i></td><td>Syslog format.</td></tr><tr><td><i>csv</i></td><td>CSV (Comma Separated Values) format.</td></tr><tr><td><i>cef</i></td><td>CEF (Common Event Format) format.</td></tr></table>	Option	Description	<i>default</i>	Syslog format.	<i>csv</i>	CSV (Comma Separated Values) format.	<i>cef</i>	CEF (Common Event Format) format.																																							
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Parameter	Description	Type	Size	Default														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>rfc5424</i></td><td>Syslog RFC5424 format.</td></tr><tr><td><i>json</i></td><td>JSON (JavaScript Object Notation) format.</td></tr><tr><td><i>custom</i></td><td>Custom format.</td></tr></table>	Option	Description	<i>rfc5424</i>	Syslog RFC5424 format.	<i>json</i>	JSON (JavaScript Object Notation) format.	<i>custom</i>	Custom format.									
	Option	Description																
	<i>rfc5424</i>	Syslog RFC5424 format.																
	<i>json</i>	JSON (JavaScript Object Notation) format.																
<i>custom</i>	Custom format.																	
priority	Set log transmission priority.	option	-	default														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>default</i></td><td>Set Syslog transmission priority to default.</td></tr><tr><td><i>low</i></td><td>Set Syslog transmission priority to low.</td></tr></table>	Option	Description	<i>default</i>	Set Syslog transmission priority to default.	<i>low</i>	Set Syslog transmission priority to low.											
	Option	Description																
	<i>default</i>	Set Syslog transmission priority to default.																
<i>low</i>	Set Syslog transmission priority to low.																	
max-log-rate	Syslog maximum log rate in MBps (0 = unlimited).	integer	Minimum value: 0 Maximum value: 100000	0														
enc-algorithm	Enable/disable reliable syslogging with TLS encryption.	option	-	disable														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>high-medium</i></td><td>SSL communication with high and medium encryption algorithms.</td></tr><tr><td><i>high</i></td><td>SSL communication with high encryption algorithms.</td></tr><tr><td><i>low</i></td><td>SSL communication with low encryption algorithms.</td></tr><tr><td><i>disable</i></td><td>Disable SSL communication.</td></tr></table>	Option	Description	<i>high-medium</i>	SSL communication with high and medium encryption algorithms.	<i>high</i>	SSL communication with high encryption algorithms.	<i>low</i>	SSL communication with low encryption algorithms.	<i>disable</i>	Disable SSL communication.							
	Option	Description																
	<i>high-medium</i>	SSL communication with high and medium encryption algorithms.																
	<i>high</i>	SSL communication with high encryption algorithms.																
	<i>low</i>	SSL communication with low encryption algorithms.																
<i>disable</i>	Disable SSL communication.																	
ssl-min-protocol-version	Minimum supported protocol version for SSL/TLS connections (default is to follow system global setting).	option	-	default														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>default</i></td><td>Follow system global setting.</td></tr><tr><td><i>SSLv3</i></td><td>SSLv3.</td></tr><tr><td><i>TLSv1</i></td><td>TLSv1.</td></tr><tr><td><i>TLSv1-1</i></td><td>TLSv1.1.</td></tr><tr><td><i>TLSv1-2</i></td><td>TLSv1.2.</td></tr><tr><td><i>TLSv1-3</i></td><td>TLSv1.3.</td></tr></table>	Option	Description	<i>default</i>	Follow system global setting.	<i>SSLv3</i>	SSLv3.	<i>TLSv1</i>	TLSv1.	<i>TLSv1-1</i>	TLSv1.1.	<i>TLSv1-2</i>	TLSv1.2.	<i>TLSv1-3</i>	TLSv1.3.			
	Option	Description																
	<i>default</i>	Follow system global setting.																
	<i>SSLv3</i>	SSLv3.																
	<i>TLSv1</i>	TLSv1.																
	<i>TLSv1-1</i>	TLSv1.1.																
	<i>TLSv1-2</i>	TLSv1.2.																
<i>TLSv1-3</i>	TLSv1.3.																	
certificate	Certificate used to communicate with Syslog server.	string	Maximum length: 35															

Parameter	Description	Type	Size	Default
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto
	Option	Description		
	auto	Set outgoing interface automatically.		
	specify	Set outgoing interface manually.		
interface	Specify outgoing interface to reach server.	string	Maximum length: 15	

config custom-field-name

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 255	0
name	Field name [A-Za-z0-9_].	string	Maximum length: 35	
custom	Field custom name [A-Za-z0-9_].	string	Maximum length: 35	

config log-templates

Parameter	Description	Type	Size	Default												
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0												
category	Log category.	option	-	traffic												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>traffic</td><td>Traffic log.</td></tr><tr><td>event</td><td>Event log.</td></tr><tr><td>virus</td><td>Antivirus log.</td></tr><tr><td>webfilter</td><td>Web filter log.</td></tr><tr><td>attack</td><td>Attack log.</td></tr></table>				Option	Description	traffic	Traffic log.	event	Event log.	virus	Antivirus log.	webfilter	Web filter log.	attack	Attack log.
	Option	Description														
	traffic	Traffic log.														
	event	Event log.														
	virus	Antivirus log.														
	webfilter	Web filter log.														
attack	Attack log.															

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>spam</i>	Antispam log.		
	<i>anomaly</i>	Anomaly log.		
	<i>voip</i>	VoIP log.		
	<i>dlp</i>	DLP log.		
	<i>app-ctrl</i>	Application control log.		
	<i>waf</i>	Web application firewall log.		
	<i>dns</i>	DNS detail log.		
	<i>ssh</i>	SSH log.		
	<i>ssl</i>	SSL log.		
	<i>file-filter</i>	File filter log.		
	<i>icap</i>	ICAP log.		
	<i>virtual-patch</i>	Virtual patch log.		
empty-value-indicator	A character to indicate log field is empty.	string	Maximum length: 1	
template	Log template string.	string	Maximum length: 2047	

config log syslogd setting

Global settings for remote syslog server.

```
config log syslogd setting
    Description: Global settings for remote syslog server.
    set status [enable|disable]
    set server {string}
    set mode [udp|legacy-reliable|...]
    set port {integer}
    set facility [kernel|user|...]
    set source-ip {string}
    set format [default|csv|...]
    set priority [default|low]
    set max-log-rate {integer}
    set enc-algorithm [high-medium|high|...]
    set ssl-min-proto-version [default|SSLv3|...]
    set certificate {string}
    config custom-field-name
        Description: Custom field name for CEF format logging.
        edit <id>
            set name {string}
            set custom {string}
```

```

        next
    end
    set interface-select-method [auto|specify]
    set interface {string}
    config log-templates
        Description: Custom log templates.
        edit <id>
            set category [traffic|event|...]
            set empty-value-indicator {string}
            set template {string}
        next
    end
end
end

```

config log syslogd setting

Parameter	Description	Type	Size	Default
status	Enable/disable remote syslog logging.	option	-	disable
	Option	Description		
	<i>enable</i>	Log to remote syslog server.		
	<i>disable</i>	Do not log to remote syslog server.		
server	Address of remote syslog server.	string	Maximum length: 127	
mode	Remote syslog logging over UDP/Reliable TCP.	option	-	udp
	Option	Description		
	<i>udp</i>	Enable syslogging over UDP.		
	<i>legacy-reliable</i>	Enable legacy reliable syslogging by RFC3195 (Reliable Delivery for Syslog).		
	<i>reliable</i>	Enable reliable syslogging by RFC6587 (Transmission of Syslog Messages over TCP).		
port	Server listen port.	integer	Minimum value: 0 Maximum value: 65535	514
facility	Remote syslog facility.	option	-	local7
	Option	Description		
	<i>kernel</i>	Kernel messages.		
	<i>user</i>	Random user-level messages.		

Parameter	Description	Type	Size	Default																																														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>mail</i></td><td>Mail system.</td></tr><tr><td><i>daemon</i></td><td>System daemons.</td></tr><tr><td><i>auth</i></td><td>Security/authorization messages.</td></tr><tr><td><i>syslog</i></td><td>Messages generated internally by syslog.</td></tr><tr><td><i>lpr</i></td><td>Line printer subsystem.</td></tr><tr><td><i>news</i></td><td>Network news subsystem.</td></tr><tr><td><i>uucp</i></td><td>Network news subsystem.</td></tr><tr><td><i>cron</i></td><td>Clock daemon.</td></tr><tr><td><i>authpriv</i></td><td>Security/authorization messages (private).</td></tr><tr><td><i>ftp</i></td><td>FTP daemon.</td></tr><tr><td><i>ntp</i></td><td>NTP daemon.</td></tr><tr><td><i>audit</i></td><td>Log audit.</td></tr><tr><td><i>alert</i></td><td>Log alert.</td></tr><tr><td><i>clock</i></td><td>Clock daemon.</td></tr><tr><td><i>local0</i></td><td>Reserved for local use.</td></tr><tr><td><i>local1</i></td><td>Reserved for local use.</td></tr><tr><td><i>local2</i></td><td>Reserved for local use.</td></tr><tr><td><i>local3</i></td><td>Reserved for local use.</td></tr><tr><td><i>local4</i></td><td>Reserved for local use.</td></tr><tr><td><i>local5</i></td><td>Reserved for local use.</td></tr><tr><td><i>local6</i></td><td>Reserved for local use.</td></tr><tr><td><i>local7</i></td><td>Reserved for local use.</td></tr></table>	Option	Description	<i>mail</i>	Mail system.	<i>daemon</i>	System daemons.	<i>auth</i>	Security/authorization messages.	<i>syslog</i>	Messages generated internally by syslog.	<i>lpr</i>	Line printer subsystem.	<i>news</i>	Network news subsystem.	<i>uucp</i>	Network news subsystem.	<i>cron</i>	Clock daemon.	<i>authpriv</i>	Security/authorization messages (private).	<i>ftp</i>	FTP daemon.	<i>ntp</i>	NTP daemon.	<i>audit</i>	Log audit.	<i>alert</i>	Log alert.	<i>clock</i>	Clock daemon.	<i>local0</i>	Reserved for local use.	<i>local1</i>	Reserved for local use.	<i>local2</i>	Reserved for local use.	<i>local3</i>	Reserved for local use.	<i>local4</i>	Reserved for local use.	<i>local5</i>	Reserved for local use.	<i>local6</i>	Reserved for local use.	<i>local7</i>	Reserved for local use.			
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source-ip	Source IP address of syslog.	string	Maximum length: 63																																															
format	Log format.	option	-	default																																														
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Parameter	Description	Type	Size	Default
	Option	Description		
	<i>cef</i>	CEF (Common Event Format) format.		
	<i>rfc5424</i>	Syslog RFC5424 format.		
	<i>json</i>	JSON (JavaScript Object Notation) format.		
	<i>custom</i>	Custom format.		
priority	Set log transmission priority.	option	-	default
	Option	Description		
	<i>default</i>	Set Syslog transmission priority to default.		
	<i>low</i>	Set Syslog transmission priority to low.		
max-log-rate	Syslog maximum log rate in MBps (0 = unlimited).	integer	Minimum value: 0 Maximum value: 100000	0
enc-algorithm	Enable/disable reliable syslogging with TLS encryption.	option	-	disable
	Option	Description		
	<i>high-medium</i>	SSL communication with high and medium encryption algorithms.		
	<i>high</i>	SSL communication with high encryption algorithms.		
	<i>low</i>	SSL communication with low encryption algorithms.		
	<i>disable</i>	Disable SSL communication.		
ssl-min-protocol-version	Minimum supported protocol version for SSL/TLS connections (default is to follow system global setting).	option	-	default
	Option	Description		
	<i>default</i>	Follow system global setting.		
	<i>SSLv3</i>	SSLv3.		
	<i>TLSv1</i>	TLSv1.		
	<i>TLSv1-1</i>	TLSv1.1.		
	<i>TLSv1-2</i>	TLSv1.2.		
	<i>TLSv1-3</i>	TLSv1.3.		
certificate	Certificate used to communicate with Syslog server.	string	Maximum length: 35	

Parameter	Description	Type	Size	Default
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto
	Option	Description		
	auto	Set outgoing interface automatically.		
	specify	Set outgoing interface manually.		
interface	Specify outgoing interface to reach server.	string	Maximum length: 15	

config custom-field-name

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 255	0
name	Field name [A-Za-z0-9_].	string	Maximum length: 35	
custom	Field custom name [A-Za-z0-9_].	string	Maximum length: 35	

config log-templates

Parameter	Description	Type	Size	Default												
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0												
category	Log category.	option	-	traffic												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>traffic</td><td>Traffic log.</td></tr><tr><td>event</td><td>Event log.</td></tr><tr><td>virus</td><td>Antivirus log.</td></tr><tr><td>webfilter</td><td>Web filter log.</td></tr><tr><td>attack</td><td>Attack log.</td></tr></table>				Option	Description	traffic	Traffic log.	event	Event log.	virus	Antivirus log.	webfilter	Web filter log.	attack	Attack log.
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	<i>icap</i>	ICAP log.																												
<i>virtual-patch</i>	Virtual patch log.																													
empty-value-indicator	A character to indicate log field is empty.	string	Maximum length: 1																											
template	Log template string.	string	Maximum length: 2047																											

config log syslogd2 filter

Filters for remote system server.

```
config log syslogd2 filter
    Description: Filters for remote system server.
    set severity [emergency|alert|...]
    set forward-traffic [enable|disable]
    set local-traffic [enable|disable]
    set multicast-traffic [enable|disable]
    set sniffer-traffic [enable|disable]
    set ztna-traffic [enable|disable]
    set http-transaction [enable|disable]
    set anomaly [enable|disable]
    set voip [enable|disable]
    set forti-switch [enable|disable]
config free-style
    Description: Free style filters.
    edit <id>
        set category [traffic|event|...]
        set filter {string}
        set filter-type [include|exclude]
    next
```

end
end

config log syslogd2 filter

Parameter	Description	Type	Size	Default
severity	Lowest severity level to log.	option	-	information
	Option	Description		
	<i>emergency</i>	Emergency level.		
	<i>alert</i>	Alert level.		
	<i>critical</i>	Critical level.		
	<i>error</i>	Error level.		
	<i>warning</i>	Warning level.		
	<i>notification</i>	Notification level.		
	<i>information</i>	Information level.		
	<i>debug</i>	Debug level.		
forward-traffic	Enable/disable forward traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable forward traffic logging.		
	<i>disable</i>	Disable forward traffic logging.		
local-traffic	Enable/disable local in or out traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable local in or out traffic logging.		
	<i>disable</i>	Disable local in or out traffic logging.		
multicast-traffic	Enable/disable multicast traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable multicast traffic logging.		
	<i>disable</i>	Disable multicast traffic logging.		
sniffer-traffic	Enable/disable sniffer traffic logging.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable sniffer traffic logging.		
	<i>disable</i>	Disable sniffer traffic logging.		
ztna-traffic	Enable/disable ztna traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable ztna traffic logging.		
	<i>disable</i>	Disable ztna traffic logging.		
http-transaction	Enable/disable log http-transaction messages.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable http transaction logging.		
	<i>disable</i>	Disable http transaction logging.		
anomaly	Enable/disable anomaly logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable anomaly logging.		
	<i>disable</i>	Disable anomaly logging.		
voip	Enable/disable VoIP logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable VoIP logging.		
	<i>disable</i>	Disable VoIP logging.		
forti-switch	Enable/disable Forti-Switch logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable Forti-Switch logging.		
	<i>disable</i>	Disable Forti-Switch logging.		

config free-style

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
category	Log category.	option	-	traffic
	Option	Description		
	<i>traffic</i>	Traffic log.		
	<i>event</i>	Event log.		
	<i>virus</i>	Antivirus log.		
	<i>webfilter</i>	Web filter log.		
	<i>attack</i>	Attack log.		
	<i>spam</i>	Antispam log.		
	<i>anomaly</i>	Anomaly log.		
	<i>voip</i>	VoIP log.		
	<i>dlp</i>	DLP log.		
	<i>app-ctrl</i>	Application control log.		
	<i>waf</i>	Web application firewall log.		
	<i>dns</i>	DNS detail log.		
	<i>ssh</i>	SSH log.		
	<i>ssl</i>	SSL log.		
	<i>file-filter</i>	File filter log.		
	<i>icap</i>	ICAP log.		
<i>virtual-patch</i>	Virtual patch log.			
filter	Free style filter string.	string	Maximum length: 1023	
filter-type	Include/exclude logs that match the filter.	option	-	include
	Option	Description		
	<i>include</i>	Include logs that match the filter.		
	<i>exclude</i>	Exclude logs that match the filter.		

config log syslogd2 override-filter

Override filters for remote system server.

```
config log syslogd2 override-filter
  Description: Override filters for remote system server.
  set severity [emergency|alert|...]
  set forward-traffic [enable|disable]
  set local-traffic [enable|disable]
  set multicast-traffic [enable|disable]
  set sniffer-traffic [enable|disable]
  set ztna-traffic [enable|disable]
  set http-transaction [enable|disable]
  set anomaly [enable|disable]
  set voip [enable|disable]
  set forti-switch [enable|disable]
  config free-style
    Description: Free style filters.
    edit <id>
      set category [traffic|event|...]
      set filter {string}
      set filter-type [include|exclude]
    next
  end
end
```

config log syslogd2 override-filter

Parameter	Description	Type	Size	Default
severity	Lowest severity level to log.	option	-	information
	Option			Description
	<i>emergency</i>			Emergency level.
	<i>alert</i>			Alert level.
	<i>critical</i>			Critical level.
	<i>error</i>			Error level.
	<i>warning</i>			Warning level.
	<i>notification</i>			Notification level.
	<i>information</i>			Information level.
debug				Debug level.
forward-traffic	Enable/disable forward traffic logging.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable forward traffic logging.		
	<i>disable</i>	Disable forward traffic logging.		
local-traffic	Enable/disable local in or out traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable local in or out traffic logging.		
	<i>disable</i>	Disable local in or out traffic logging.		
multicast-traffic	Enable/disable multicast traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable multicast traffic logging.		
	<i>disable</i>	Disable multicast traffic logging.		
sniffer-traffic	Enable/disable sniffer traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable sniffer traffic logging.		
	<i>disable</i>	Disable sniffer traffic logging.		
ztna-traffic	Enable/disable ztna traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable ztna traffic logging.		
	<i>disable</i>	Disable ztna traffic logging.		
http-transaction	Enable/disable log http-transaction messages.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable http transaction logging.		
	<i>disable</i>	Disable http transaction logging.		
anomaly	Enable/disable anomaly logging.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable anomaly logging.		
	<i>disable</i>	Disable anomaly logging.		
voip	Enable/disable VoIP logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable VoIP logging.		
	<i>disable</i>	Disable VoIP logging.		
forti-switch	Enable/disable Forti-Switch logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable Forti-Switch logging.		
	<i>disable</i>	Disable Forti-Switch logging.		

config free-style

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
category	Log category.	option	-	traffic
	Option	Description		
	<i>traffic</i>	Traffic log.		
	<i>event</i>	Event log.		
	<i>virus</i>	Antivirus log.		
	<i>webfilter</i>	Web filter log.		
	<i>attack</i>	Attack log.		
	<i>spam</i>	Antispam log.		
	<i>anomaly</i>	Anomaly log.		
	<i>voip</i>	VoIP log.		
	<i>dlp</i>	DLP log.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>app-ctrl</i>	Application control log.		
	<i>waf</i>	Web application firewall log.		
	<i>dns</i>	DNS detail log.		
	<i>ssh</i>	SSH log.		
	<i>ssl</i>	SSL log.		
	<i>file-filter</i>	File filter log.		
	<i>icap</i>	ICAP log.		
	<i>virtual-patch</i>	Virtual patch log.		
filter	Free style filter string.	string	Maximum length: 1023	
filter-type	Include/exclude logs that match the filter.	option	-	include
	Option	Description		
	<i>include</i>	Include logs that match the filter.		
	<i>exclude</i>	Exclude logs that match the filter.		

config log syslogd2 override-setting

Override settings for remote syslog server.

```

config log syslogd2 override-setting
    Description: Override settings for remote syslog server.
    set status [enable|disable]
    set server {string}
    set mode [udp|legacy-reliable|...]
    set port {integer}
    set facility [kernel|user|...]
    set source-ip {string}
    set format [default|csv|...]
    set priority [default|low]
    set max-log-rate {integer}
    set enc-algorithm [high-medium|high|...]
    set ssl-min-proto-version [default|SSLv3|...]
    set certificate {string}
    config custom-field-name
        Description: Custom field name for CEF format logging.
        edit <id>
            set name {string}
            set custom {string}
        next
    end

```

```

set interface-select-method [auto|specify]
set interface {string}
config log-templates
  Description: Custom log templates.
  edit <id>
    set category [traffic|event|...]
    set empty-value-indicator {string}
    set template {string}
  next
end
end

```

config log syslogd2 override-setting

Parameter	Description	Type	Size	Default
status	Enable/disable remote syslog logging.	option	-	disable
	Option	Description		
	<i>enable</i>	Log to remote syslog server.		
	<i>disable</i>	Do not log to remote syslog server.		
server	Address of remote syslog server.	string	Maximum length: 127	
mode	Remote syslog logging over UDP/Reliable TCP.	option	-	udp
	Option	Description		
	<i>udp</i>	Enable syslogging over UDP.		
	<i>legacy-reliable</i>	Enable legacy reliable syslogging by RFC3195 (Reliable Delivery for Syslog).		
	<i>reliable</i>	Enable reliable syslogging by RFC6587 (Transmission of Syslog Messages over TCP).		
port	Server listen port.	integer	Minimum value: 0 Maximum value: 65535	514
facility	Remote syslog facility.	option	-	local7
	Option	Description		
	<i>kernel</i>	Kernel messages.		
	<i>user</i>	Random user-level messages.		
	<i>mail</i>	Mail system.		

Parameter	Description	Type	Size	Default																																												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>daemon</i></td><td>System daemons.</td></tr><tr><td><i>auth</i></td><td>Security/authorization messages.</td></tr><tr><td><i>syslog</i></td><td>Messages generated internally by syslog.</td></tr><tr><td><i>lpr</i></td><td>Line printer subsystem.</td></tr><tr><td><i>news</i></td><td>Network news subsystem.</td></tr><tr><td><i>uucp</i></td><td>Network news subsystem.</td></tr><tr><td><i>cron</i></td><td>Clock daemon.</td></tr><tr><td><i>authpriv</i></td><td>Security/authorization messages (private).</td></tr><tr><td><i>ftp</i></td><td>FTP daemon.</td></tr><tr><td><i>ntp</i></td><td>NTP daemon.</td></tr><tr><td><i>audit</i></td><td>Log audit.</td></tr><tr><td><i>alert</i></td><td>Log alert.</td></tr><tr><td><i>clock</i></td><td>Clock daemon.</td></tr><tr><td><i>local0</i></td><td>Reserved for local use.</td></tr><tr><td><i>local1</i></td><td>Reserved for local use.</td></tr><tr><td><i>local2</i></td><td>Reserved for local use.</td></tr><tr><td><i>local3</i></td><td>Reserved for local use.</td></tr><tr><td><i>local4</i></td><td>Reserved for local use.</td></tr><tr><td><i>local5</i></td><td>Reserved for local use.</td></tr><tr><td><i>local6</i></td><td>Reserved for local use.</td></tr><tr><td><i>local7</i></td><td>Reserved for local use.</td></tr></table>	Option	Description	<i>daemon</i>	System daemons.	<i>auth</i>	Security/authorization messages.	<i>syslog</i>	Messages generated internally by syslog.	<i>lpr</i>	Line printer subsystem.	<i>news</i>	Network news subsystem.	<i>uucp</i>	Network news subsystem.	<i>cron</i>	Clock daemon.	<i>authpriv</i>	Security/authorization messages (private).	<i>ftp</i>	FTP daemon.	<i>ntp</i>	NTP daemon.	<i>audit</i>	Log audit.	<i>alert</i>	Log alert.	<i>clock</i>	Clock daemon.	<i>local0</i>	Reserved for local use.	<i>local1</i>	Reserved for local use.	<i>local2</i>	Reserved for local use.	<i>local3</i>	Reserved for local use.	<i>local4</i>	Reserved for local use.	<i>local5</i>	Reserved for local use.	<i>local6</i>	Reserved for local use.	<i>local7</i>	Reserved for local use.			
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source-ip	Source IP address of syslog.	string	Maximum length: 63																																													
format	Log format.	option	-	default																																												
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Parameter	Description	Type	Size	Default
	Option	Description		
	<i>rfc5424</i>	Syslog RFC5424 format.		
	<i>json</i>	JSON (JavaScript Object Notation) format.		
	<i>custom</i>	Custom format.		
priority	Set log transmission priority.	option	-	default
	Option	Description		
	<i>default</i>	Set Syslog transmission priority to default.		
	<i>low</i>	Set Syslog transmission priority to low.		
max-log-rate	Syslog maximum log rate in MBps (0 = unlimited).	integer	Minimum value: 0 Maximum value: 100000	0
enc-algorithm	Enable/disable reliable syslogging with TLS encryption.	option	-	disable
	Option	Description		
	<i>high-medium</i>	SSL communication with high and medium encryption algorithms.		
	<i>high</i>	SSL communication with high encryption algorithms.		
	<i>low</i>	SSL communication with low encryption algorithms.		
	<i>disable</i>	Disable SSL communication.		
ssl-min-protocol-version	Minimum supported protocol version for SSL/TLS connections (default is to follow system global setting).	option	-	default
	Option	Description		
	<i>default</i>	Follow system global setting.		
	<i>SSLv3</i>	SSLv3.		
	<i>TLSv1</i>	TLSv1.		
	<i>TLSv1-1</i>	TLSv1.1.		
	<i>TLSv1-2</i>	TLSv1.2.		
	<i>TLSv1-3</i>	TLSv1.3.		
certificate	Certificate used to communicate with Syslog server.	string	Maximum length: 35	

Parameter	Description	Type	Size	Default
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto
	Option	Description		
	auto	Set outgoing interface automatically.		
	specify	Set outgoing interface manually.		
interface	Specify outgoing interface to reach server.	string	Maximum length: 15	

config custom-field-name

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 255	0
name	Field name [A-Za-z0-9_].	string	Maximum length: 35	
custom	Field custom name [A-Za-z0-9_].	string	Maximum length: 35	

config log-templates

Parameter	Description	Type	Size	Default												
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0												
category	Log category.	option	-	traffic												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>traffic</td><td>Traffic log.</td></tr><tr><td>event</td><td>Event log.</td></tr><tr><td>virus</td><td>Antivirus log.</td></tr><tr><td>webfilter</td><td>Web filter log.</td></tr><tr><td>attack</td><td>Attack log.</td></tr></table>				Option	Description	traffic	Traffic log.	event	Event log.	virus	Antivirus log.	webfilter	Web filter log.	attack	Attack log.
	Option	Description														
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Parameter	Description	Type	Size	Default																										
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<i>virtual-patch</i>	Virtual patch log.																													
empty-value-indicator	A character to indicate log field is empty.	string	Maximum length: 1																											
template	Log template string.	string	Maximum length: 2047																											

config log syslogd2 setting

Global settings for remote syslog server.

```
config log syslogd2 setting
    Description: Global settings for remote syslog server.
    set status [enable|disable]
    set server {string}
    set mode [udp|legacy-reliable|...]
    set port {integer}
    set facility [kernel|user|...]
    set source-ip {string}
    set format [default|csv|...]
    set priority [default|low]
    set max-log-rate {integer}
    set enc-algorithm [high-medium|high|...]
    set ssl-min-proto-version [default|SSLv3|...]
    set certificate {string}
    config custom-field-name
        Description: Custom field name for CEF format logging.
        edit <id>
            set name {string}
            set custom {string}
```

```

        next
    end
    set interface-select-method [auto|specify]
    set interface {string}
    config log-templates
        Description: Custom log templates.
        edit <id>
            set category [traffic|event|...]
            set empty-value-indicator {string}
            set template {string}
        next
    end
end
end

```

config log syslogd2 setting

Parameter	Description	Type	Size	Default
status	Enable/disable remote syslog logging.	option	-	disable
	Option	Description		
	<i>enable</i>	Log to remote syslog server.		
	<i>disable</i>	Do not log to remote syslog server.		
server	Address of remote syslog server.	string	Maximum length: 127	
mode	Remote syslog logging over UDP/Reliable TCP.	option	-	udp
	Option	Description		
	<i>udp</i>	Enable syslogging over UDP.		
	<i>legacy-reliable</i>	Enable legacy reliable syslogging by RFC3195 (Reliable Delivery for Syslog).		
	<i>reliable</i>	Enable reliable syslogging by RFC6587 (Transmission of Syslog Messages over TCP).		
port	Server listen port.	integer	Minimum value: 0 Maximum value: 65535	514
facility	Remote syslog facility.	option	-	local7
	Option	Description		
	<i>kernel</i>	Kernel messages.		
	<i>user</i>	Random user-level messages.		

Parameter	Description	Type	Size	Default																																														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>mail</i></td><td>Mail system.</td></tr><tr><td><i>daemon</i></td><td>System daemons.</td></tr><tr><td><i>auth</i></td><td>Security/authorization messages.</td></tr><tr><td><i>syslog</i></td><td>Messages generated internally by syslog.</td></tr><tr><td><i>lpr</i></td><td>Line printer subsystem.</td></tr><tr><td><i>news</i></td><td>Network news subsystem.</td></tr><tr><td><i>uucp</i></td><td>Network news subsystem.</td></tr><tr><td><i>cron</i></td><td>Clock daemon.</td></tr><tr><td><i>authpriv</i></td><td>Security/authorization messages (private).</td></tr><tr><td><i>ftp</i></td><td>FTP daemon.</td></tr><tr><td><i>ntp</i></td><td>NTP daemon.</td></tr><tr><td><i>audit</i></td><td>Log audit.</td></tr><tr><td><i>alert</i></td><td>Log alert.</td></tr><tr><td><i>clock</i></td><td>Clock daemon.</td></tr><tr><td><i>local0</i></td><td>Reserved for local use.</td></tr><tr><td><i>local1</i></td><td>Reserved for local use.</td></tr><tr><td><i>local2</i></td><td>Reserved for local use.</td></tr><tr><td><i>local3</i></td><td>Reserved for local use.</td></tr><tr><td><i>local4</i></td><td>Reserved for local use.</td></tr><tr><td><i>local5</i></td><td>Reserved for local use.</td></tr><tr><td><i>local6</i></td><td>Reserved for local use.</td></tr><tr><td><i>local7</i></td><td>Reserved for local use.</td></tr></table>	Option	Description	<i>mail</i>	Mail system.	<i>daemon</i>	System daemons.	<i>auth</i>	Security/authorization messages.	<i>syslog</i>	Messages generated internally by syslog.	<i>lpr</i>	Line printer subsystem.	<i>news</i>	Network news subsystem.	<i>uucp</i>	Network news subsystem.	<i>cron</i>	Clock daemon.	<i>authpriv</i>	Security/authorization messages (private).	<i>ftp</i>	FTP daemon.	<i>ntp</i>	NTP daemon.	<i>audit</i>	Log audit.	<i>alert</i>	Log alert.	<i>clock</i>	Clock daemon.	<i>local0</i>	Reserved for local use.	<i>local1</i>	Reserved for local use.	<i>local2</i>	Reserved for local use.	<i>local3</i>	Reserved for local use.	<i>local4</i>	Reserved for local use.	<i>local5</i>	Reserved for local use.	<i>local6</i>	Reserved for local use.	<i>local7</i>	Reserved for local use.			
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Parameter	Description	Type	Size	Default
	Option	Description		
	<i>cef</i>	CEF (Common Event Format) format.		
	<i>rfc5424</i>	Syslog RFC5424 format.		
	<i>json</i>	JSON (JavaScript Object Notation) format.		
	<i>custom</i>	Custom format.		
priority	Set log transmission priority.	option	-	default
	Option	Description		
	<i>default</i>	Set Syslog transmission priority to default.		
	<i>low</i>	Set Syslog transmission priority to low.		
max-log-rate	Syslog maximum log rate in MBps (0 = unlimited).	integer	Minimum value: 0 Maximum value: 100000	0
enc-algorithm	Enable/disable reliable syslogging with TLS encryption.	option	-	disable
	Option	Description		
	<i>high-medium</i>	SSL communication with high and medium encryption algorithms.		
	<i>high</i>	SSL communication with high encryption algorithms.		
	<i>low</i>	SSL communication with low encryption algorithms.		
	<i>disable</i>	Disable SSL communication.		
ssl-min-protocol-version	Minimum supported protocol version for SSL/TLS connections (default is to follow system global setting).	option	-	default
	Option	Description		
	<i>default</i>	Follow system global setting.		
	<i>SSLv3</i>	SSLv3.		
	<i>TLSv1</i>	TLSv1.		
	<i>TLSv1-1</i>	TLSv1.1.		
	<i>TLSv1-2</i>	TLSv1.2.		
	<i>TLSv1-3</i>	TLSv1.3.		
certificate	Certificate used to communicate with Syslog server.	string	Maximum length: 35	

Parameter	Description	Type	Size	Default
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto
	Option	Description		
	auto	Set outgoing interface automatically.		
	specify	Set outgoing interface manually.		
interface	Specify outgoing interface to reach server.	string	Maximum length: 15	

config custom-field-name

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 255	0
name	Field name [A-Za-z0-9_].	string	Maximum length: 35	
custom	Field custom name [A-Za-z0-9_].	string	Maximum length: 35	

config log-templates

Parameter	Description	Type	Size	Default												
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0												
category	Log category.	option	-	traffic												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>traffic</td><td>Traffic log.</td></tr><tr><td>event</td><td>Event log.</td></tr><tr><td>virus</td><td>Antivirus log.</td></tr><tr><td>webfilter</td><td>Web filter log.</td></tr><tr><td>attack</td><td>Attack log.</td></tr></table>				Option	Description	traffic	Traffic log.	event	Event log.	virus	Antivirus log.	webfilter	Web filter log.	attack	Attack log.
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Parameter	Description	Type	Size	Default																										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>spam</i></td><td>Antispam log.</td></tr><tr><td><i>anomaly</i></td><td>Anomaly log.</td></tr><tr><td><i>voip</i></td><td>VoIP log.</td></tr><tr><td><i>dlp</i></td><td>DLP log.</td></tr><tr><td><i>app-ctrl</i></td><td>Application control log.</td></tr><tr><td><i>waf</i></td><td>Web application firewall log.</td></tr><tr><td><i>dns</i></td><td>DNS detail log.</td></tr><tr><td><i>ssh</i></td><td>SSH log.</td></tr><tr><td><i>ssl</i></td><td>SSL log.</td></tr><tr><td><i>file-filter</i></td><td>File filter log.</td></tr><tr><td><i>icap</i></td><td>ICAP log.</td></tr><tr><td><i>virtual-patch</i></td><td>Virtual patch log.</td></tr></table>	Option	Description	<i>spam</i>	Antispam log.	<i>anomaly</i>	Anomaly log.	<i>voip</i>	VoIP log.	<i>dlp</i>	DLP log.	<i>app-ctrl</i>	Application control log.	<i>waf</i>	Web application firewall log.	<i>dns</i>	DNS detail log.	<i>ssh</i>	SSH log.	<i>ssl</i>	SSL log.	<i>file-filter</i>	File filter log.	<i>icap</i>	ICAP log.	<i>virtual-patch</i>	Virtual patch log.			
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empty-value-indicator	A character to indicate log field is empty.	string	Maximum length: 1																											
template	Log template string.	string	Maximum length: 2047																											

config log syslogd3 filter

Filters for remote system server.

```
config log syslogd3 filter
    Description: Filters for remote system server.
    set severity [emergency|alert|...]
    set forward-traffic [enable|disable]
    set local-traffic [enable|disable]
    set multicast-traffic [enable|disable]
    set sniffer-traffic [enable|disable]
    set ztna-traffic [enable|disable]
    set http-transaction [enable|disable]
    set anomaly [enable|disable]
    set voip [enable|disable]
    set forti-switch [enable|disable]
config free-style
    Description: Free style filters.
    edit <id>
        set category [traffic|event|...]
        set filter {string}
        set filter-type [include|exclude]
    next
```


end
end

config log syslogd3 filter

Parameter	Description	Type	Size	Default
severity	Lowest severity level to log.	option	-	information
	Option	Description		
	<i>emergency</i>	Emergency level.		
	<i>alert</i>	Alert level.		
	<i>critical</i>	Critical level.		
	<i>error</i>	Error level.		
	<i>warning</i>	Warning level.		
	<i>notification</i>	Notification level.		
	<i>information</i>	Information level.		
	<i>debug</i>	Debug level.		
forward-traffic	Enable/disable forward traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable forward traffic logging.		
	<i>disable</i>	Disable forward traffic logging.		
local-traffic	Enable/disable local in or out traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable local in or out traffic logging.		
	<i>disable</i>	Disable local in or out traffic logging.		
multicast-traffic	Enable/disable multicast traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable multicast traffic logging.		
	<i>disable</i>	Disable multicast traffic logging.		
sniffer-traffic	Enable/disable sniffer traffic logging.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable sniffer traffic logging.		
	<i>disable</i>	Disable sniffer traffic logging.		
ztna-traffic	Enable/disable ztna traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable ztna traffic logging.		
	<i>disable</i>	Disable ztna traffic logging.		
http-transaction	Enable/disable log http-transaction messages.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable http transaction logging.		
	<i>disable</i>	Disable http transaction logging.		
anomaly	Enable/disable anomaly logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable anomaly logging.		
	<i>disable</i>	Disable anomaly logging.		
voip	Enable/disable VoIP logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable VoIP logging.		
	<i>disable</i>	Disable VoIP logging.		
forti-switch	Enable/disable Forti-Switch logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable Forti-Switch logging.		
	<i>disable</i>	Disable Forti-Switch logging.		

config free-style

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
category	Log category.	option	-	traffic
	Option Description			
	<i>traffic</i>	Traffic log.		
	<i>event</i>	Event log.		
	<i>virus</i>	Antivirus log.		
	<i>webfilter</i>	Web filter log.		
	<i>attack</i>	Attack log.		
	<i>spam</i>	Antispam log.		
	<i>anomaly</i>	Anomaly log.		
	<i>voip</i>	VoIP log.		
	<i>dlp</i>	DLP log.		
	<i>app-ctrl</i>	Application control log.		
	<i>waf</i>	Web application firewall log.		
	<i>dns</i>	DNS detail log.		
	<i>ssh</i>	SSH log.		
	<i>ssl</i>	SSL log.		
	<i>file-filter</i>	File filter log.		
	<i>icap</i>	ICAP log.		
<i>virtual-patch</i>	Virtual patch log.			
filter	Free style filter string.	string	Maximum length: 1023	
filter-type	Include/exclude logs that match the filter.	option	-	include
	Option Description			
	<i>include</i>	Include logs that match the filter.		
	<i>exclude</i>	Exclude logs that match the filter.		

config log syslogd3 override-filter

Override filters for remote system server.

```
config log syslogd3 override-filter
  Description: Override filters for remote system server.
  set severity [emergency|alert|...]
  set forward-traffic [enable|disable]
  set local-traffic [enable|disable]
  set multicast-traffic [enable|disable]
  set sniffer-traffic [enable|disable]
  set ztna-traffic [enable|disable]
  set http-transaction [enable|disable]
  set anomaly [enable|disable]
  set voip [enable|disable]
  set forti-switch [enable|disable]
  config free-style
    Description: Free style filters.
    edit <id>
      set category [traffic|event|...]
      set filter {string}
      set filter-type [include|exclude]
    next
  end
end
```

config log syslogd3 override-filter

Parameter	Description	Type	Size	Default
severity	Lowest severity level to log.	option	-	information
	Option	Description		
	emergency	Emergency level.		
	alert	Alert level.		
	critical	Critical level.		
	error	Error level.		
	warning	Warning level.		
	notification	Notification level.		
	information	Information level.		
debug	Debug level.			
forward-traffic	Enable/disable forward traffic logging.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable forward traffic logging.		
	<i>disable</i>	Disable forward traffic logging.		
local-traffic	Enable/disable local in or out traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable local in or out traffic logging.		
	<i>disable</i>	Disable local in or out traffic logging.		
multicast-traffic	Enable/disable multicast traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable multicast traffic logging.		
	<i>disable</i>	Disable multicast traffic logging.		
sniffer-traffic	Enable/disable sniffer traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable sniffer traffic logging.		
	<i>disable</i>	Disable sniffer traffic logging.		
ztna-traffic	Enable/disable ztna traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable ztna traffic logging.		
	<i>disable</i>	Disable ztna traffic logging.		
http-transaction	Enable/disable log http-transaction messages.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable http transaction logging.		
	<i>disable</i>	Disable http transaction logging.		
anomaly	Enable/disable anomaly logging.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable anomaly logging.		
	<i>disable</i>	Disable anomaly logging.		
voip	Enable/disable VoIP logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable VoIP logging.		
	<i>disable</i>	Disable VoIP logging.		
forti-switch	Enable/disable Forti-Switch logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable Forti-Switch logging.		
	<i>disable</i>	Disable Forti-Switch logging.		

config free-style

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
category	Log category.	option	-	traffic
	Option	Description		
	<i>traffic</i>	Traffic log.		
	<i>event</i>	Event log.		
	<i>virus</i>	Antivirus log.		
	<i>webfilter</i>	Web filter log.		
	<i>attack</i>	Attack log.		
	<i>spam</i>	Antispam log.		
	<i>anomaly</i>	Anomaly log.		
	<i>voip</i>	VoIP log.		
	<i>dlp</i>	DLP log.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>app-ctrl</i>	Application control log.		
	<i>waf</i>	Web application firewall log.		
	<i>dns</i>	DNS detail log.		
	<i>ssh</i>	SSH log.		
	<i>ssl</i>	SSL log.		
	<i>file-filter</i>	File filter log.		
	<i>icap</i>	ICAP log.		
	<i>virtual-patch</i>	Virtual patch log.		
filter	Free style filter string.	string	Maximum length: 1023	
filter-type	Include/exclude logs that match the filter.	option	-	include
	Option	Description		
	<i>include</i>	Include logs that match the filter.		
	<i>exclude</i>	Exclude logs that match the filter.		

config log syslogd3 override-setting

Override settings for remote syslog server.

```

config log syslogd3 override-setting
    Description: Override settings for remote syslog server.
    set status [enable|disable]
    set server {string}
    set mode [udp|legacy-reliable|...]
    set port {integer}
    set facility [kernel|user|...]
    set source-ip {string}
    set format [default|csv|...]
    set priority [default|low]
    set max-log-rate {integer}
    set enc-algorithm [high-medium|high|...]
    set ssl-min-proto-version [default|SSLv3|...]
    set certificate {string}
    config custom-field-name
        Description: Custom field name for CEF format logging.
        edit <id>
            set name {string}
            set custom {string}
        next
    end

```

```

set interface-select-method [auto|specify]
set interface {string}
config log-templates
  Description: Custom log templates.
  edit <id>
    set category [traffic|event|...]
    set empty-value-indicator {string}
    set template {string}
  next
end
end

```

config log syslogd3 override-setting

Parameter	Description	Type	Size	Default
status	Enable/disable remote syslog logging.	option	-	disable
	Option	Description		
	<i>enable</i>	Log to remote syslog server.		
	<i>disable</i>	Do not log to remote syslog server.		
server	Address of remote syslog server.	string	Maximum length: 127	
mode	Remote syslog logging over UDP/Reliable TCP.	option	-	udp
	Option	Description		
	<i>udp</i>	Enable syslogging over UDP.		
	<i>legacy-reliable</i>	Enable legacy reliable syslogging by RFC3195 (Reliable Delivery for Syslog).		
	<i>reliable</i>	Enable reliable syslogging by RFC6587 (Transmission of Syslog Messages over TCP).		
port	Server listen port.	integer	Minimum value: 0 Maximum value: 65535	514
facility	Remote syslog facility.	option	-	local7
	Option	Description		
	<i>kernel</i>	Kernel messages.		
	<i>user</i>	Random user-level messages.		
	<i>mail</i>	Mail system.		

Parameter	Description	Type	Size	Default																																												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>daemon</i></td><td>System daemons.</td></tr><tr><td><i>auth</i></td><td>Security/authorization messages.</td></tr><tr><td><i>syslog</i></td><td>Messages generated internally by syslog.</td></tr><tr><td><i>lpr</i></td><td>Line printer subsystem.</td></tr><tr><td><i>news</i></td><td>Network news subsystem.</td></tr><tr><td><i>uucp</i></td><td>Network news subsystem.</td></tr><tr><td><i>cron</i></td><td>Clock daemon.</td></tr><tr><td><i>authpriv</i></td><td>Security/authorization messages (private).</td></tr><tr><td><i>ftp</i></td><td>FTP daemon.</td></tr><tr><td><i>ntp</i></td><td>NTP daemon.</td></tr><tr><td><i>audit</i></td><td>Log audit.</td></tr><tr><td><i>alert</i></td><td>Log alert.</td></tr><tr><td><i>clock</i></td><td>Clock daemon.</td></tr><tr><td><i>local0</i></td><td>Reserved for local use.</td></tr><tr><td><i>local1</i></td><td>Reserved for local use.</td></tr><tr><td><i>local2</i></td><td>Reserved for local use.</td></tr><tr><td><i>local3</i></td><td>Reserved for local use.</td></tr><tr><td><i>local4</i></td><td>Reserved for local use.</td></tr><tr><td><i>local5</i></td><td>Reserved for local use.</td></tr><tr><td><i>local6</i></td><td>Reserved for local use.</td></tr><tr><td><i>local7</i></td><td>Reserved for local use.</td></tr></table>	Option	Description	<i>daemon</i>	System daemons.	<i>auth</i>	Security/authorization messages.	<i>syslog</i>	Messages generated internally by syslog.	<i>lpr</i>	Line printer subsystem.	<i>news</i>	Network news subsystem.	<i>uucp</i>	Network news subsystem.	<i>cron</i>	Clock daemon.	<i>authpriv</i>	Security/authorization messages (private).	<i>ftp</i>	FTP daemon.	<i>ntp</i>	NTP daemon.	<i>audit</i>	Log audit.	<i>alert</i>	Log alert.	<i>clock</i>	Clock daemon.	<i>local0</i>	Reserved for local use.	<i>local1</i>	Reserved for local use.	<i>local2</i>	Reserved for local use.	<i>local3</i>	Reserved for local use.	<i>local4</i>	Reserved for local use.	<i>local5</i>	Reserved for local use.	<i>local6</i>	Reserved for local use.	<i>local7</i>	Reserved for local use.			
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<i>local6</i>	Reserved for local use.																																															
<i>local7</i>	Reserved for local use.																																															
source-ip	Source IP address of syslog.	string	Maximum length: 63																																													
format	Log format.	option	-	default																																												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>default</i></td><td>Syslog format.</td></tr><tr><td><i>csv</i></td><td>CSV (Comma Separated Values) format.</td></tr><tr><td><i>cef</i></td><td>CEF (Common Event Format) format.</td></tr></table>	Option	Description	<i>default</i>	Syslog format.	<i>csv</i>	CSV (Comma Separated Values) format.	<i>cef</i>	CEF (Common Event Format) format.																																							
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Parameter	Description	Type	Size	Default
	Option	Description		
	<i>rfc5424</i>	Syslog RFC5424 format.		
	<i>json</i>	JSON (JavaScript Object Notation) format.		
	<i>custom</i>	Custom format.		
priority	Set log transmission priority.	option	-	default
	Option	Description		
	<i>default</i>	Set Syslog transmission priority to default.		
	<i>low</i>	Set Syslog transmission priority to low.		
max-log-rate	Syslog maximum log rate in MBps (0 = unlimited).	integer	Minimum value: 0 Maximum value: 100000	0
enc-algorithm	Enable/disable reliable syslogging with TLS encryption.	option	-	disable
	Option	Description		
	<i>high-medium</i>	SSL communication with high and medium encryption algorithms.		
	<i>high</i>	SSL communication with high encryption algorithms.		
	<i>low</i>	SSL communication with low encryption algorithms.		
	<i>disable</i>	Disable SSL communication.		
ssl-min-protocol-version	Minimum supported protocol version for SSL/TLS connections (default is to follow system global setting).	option	-	default
	Option	Description		
	<i>default</i>	Follow system global setting.		
	<i>SSLv3</i>	SSLv3.		
	<i>TLSv1</i>	TLSv1.		
	<i>TLSv1-1</i>	TLSv1.1.		
	<i>TLSv1-2</i>	TLSv1.2.		
	<i>TLSv1-3</i>	TLSv1.3.		
certificate	Certificate used to communicate with Syslog server.	string	Maximum length: 35	

Parameter	Description	Type	Size	Default						
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>auto</i></td><td>Set outgoing interface automatically.</td></tr><tr><td><i>specify</i></td><td>Set outgoing interface manually.</td></tr></table>				Option	Description	<i>auto</i>	Set outgoing interface automatically.	<i>specify</i>	Set outgoing interface manually.
Option	Description									
<i>auto</i>	Set outgoing interface automatically.									
<i>specify</i>	Set outgoing interface manually.									
interface	Specify outgoing interface to reach server.	string	Maximum length: 15							

config custom-field-name

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 255	0
name	Field name [A-Za-z0-9_].	string	Maximum length: 35	
custom	Field custom name [A-Za-z0-9_].	string	Maximum length: 35	

config log-templates

Parameter	Description	Type	Size	Default												
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0												
category	Log category.	option	-	traffic												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>traffic</td><td>Traffic log.</td></tr><tr><td>event</td><td>Event log.</td></tr><tr><td>virus</td><td>Antivirus log.</td></tr><tr><td>webfilter</td><td>Web filter log.</td></tr><tr><td>attack</td><td>Attack log.</td></tr></table>				Option	Description	traffic	Traffic log.	event	Event log.	virus	Antivirus log.	webfilter	Web filter log.	attack	Attack log.
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	virus	Antivirus log.														
	webfilter	Web filter log.														
attack	Attack log.															

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>spam</i>	Antispam log.		
	<i>anomaly</i>	Anomaly log.		
	<i>voip</i>	VoIP log.		
	<i>dlp</i>	DLP log.		
	<i>app-ctrl</i>	Application control log.		
	<i>waf</i>	Web application firewall log.		
	<i>dns</i>	DNS detail log.		
	<i>ssh</i>	SSH log.		
	<i>ssl</i>	SSL log.		
	<i>file-filter</i>	File filter log.		
	<i>icap</i>	ICAP log.		
	<i>virtual-patch</i>	Virtual patch log.		
empty-value-indicator	A character to indicate log field is empty.	string	Maximum length: 1	
template	Log template string.	string	Maximum length: 2047	

config log syslogd3 setting

Global settings for remote syslog server.

```
config log syslogd3 setting
    Description: Global settings for remote syslog server.
    set status [enable|disable]
    set server {string}
    set mode [udp|legacy-reliable|...]
    set port {integer}
    set facility [kernel|user|...]
    set source-ip {string}
    set format [default|csv|...]
    set priority [default|low]
    set max-log-rate {integer}
    set enc-algorithm [high-medium|high|...]
    set ssl-min-proto-version [default|SSLv3|...]
    set certificate {string}
    config custom-field-name
        Description: Custom field name for CEF format logging.
        edit <id>
            set name {string}
            set custom {string}
```

```

        next
    end
    set interface-select-method [auto|specify]
    set interface {string}
    config log-templates
        Description: Custom log templates.
        edit <id>
            set category [traffic|event|...]
            set empty-value-indicator {string}
            set template {string}
        next
    end
end
end

```

config log syslogd3 setting

Parameter	Description	Type	Size	Default								
status	Enable/disable remote syslog logging.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Log to remote syslog server.</td></tr><tr><td><i>disable</i></td><td>Do not log to remote syslog server.</td></tr></table>				Option	Description	<i>enable</i>	Log to remote syslog server.	<i>disable</i>	Do not log to remote syslog server.		
Option	Description											
<i>enable</i>	Log to remote syslog server.											
<i>disable</i>	Do not log to remote syslog server.											
server	Address of remote syslog server.	string	Maximum length: 127									
mode	Remote syslog logging over UDP/Reliable TCP.	option	-	udp								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>udp</i></td><td>Enable syslogging over UDP.</td></tr><tr><td><i>legacy-reliable</i></td><td>Enable legacy reliable syslogging by RFC3195 (Reliable Delivery for Syslog).</td></tr><tr><td><i>reliable</i></td><td>Enable reliable syslogging by RFC6587 (Transmission of Syslog Messages over TCP).</td></tr></table>				Option	Description	<i>udp</i>	Enable syslogging over UDP.	<i>legacy-reliable</i>	Enable legacy reliable syslogging by RFC3195 (Reliable Delivery for Syslog).	<i>reliable</i>	Enable reliable syslogging by RFC6587 (Transmission of Syslog Messages over TCP).
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<i>reliable</i>	Enable reliable syslogging by RFC6587 (Transmission of Syslog Messages over TCP).											
port	Server listen port.	integer	Minimum value: 0 Maximum value: 65535	514								
facility	Remote syslog facility.	option	-	local7								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>kernel</i></td><td>Kernel messages.</td></tr><tr><td><i>user</i></td><td>Random user-level messages.</td></tr></table>				Option	Description	<i>kernel</i>	Kernel messages.	<i>user</i>	Random user-level messages.		
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Parameter	Description	Type	Size	Default																																														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>mail</i></td><td>Mail system.</td></tr><tr><td><i>daemon</i></td><td>System daemons.</td></tr><tr><td><i>auth</i></td><td>Security/authorization messages.</td></tr><tr><td><i>syslog</i></td><td>Messages generated internally by syslog.</td></tr><tr><td><i>lpr</i></td><td>Line printer subsystem.</td></tr><tr><td><i>news</i></td><td>Network news subsystem.</td></tr><tr><td><i>uucp</i></td><td>Network news subsystem.</td></tr><tr><td><i>cron</i></td><td>Clock daemon.</td></tr><tr><td><i>authpriv</i></td><td>Security/authorization messages (private).</td></tr><tr><td><i>ftp</i></td><td>FTP daemon.</td></tr><tr><td><i>ntp</i></td><td>NTP daemon.</td></tr><tr><td><i>audit</i></td><td>Log audit.</td></tr><tr><td><i>alert</i></td><td>Log alert.</td></tr><tr><td><i>clock</i></td><td>Clock daemon.</td></tr><tr><td><i>local0</i></td><td>Reserved for local use.</td></tr><tr><td><i>local1</i></td><td>Reserved for local use.</td></tr><tr><td><i>local2</i></td><td>Reserved for local use.</td></tr><tr><td><i>local3</i></td><td>Reserved for local use.</td></tr><tr><td><i>local4</i></td><td>Reserved for local use.</td></tr><tr><td><i>local5</i></td><td>Reserved for local use.</td></tr><tr><td><i>local6</i></td><td>Reserved for local use.</td></tr><tr><td><i>local7</i></td><td>Reserved for local use.</td></tr></table>	Option	Description	<i>mail</i>	Mail system.	<i>daemon</i>	System daemons.	<i>auth</i>	Security/authorization messages.	<i>syslog</i>	Messages generated internally by syslog.	<i>lpr</i>	Line printer subsystem.	<i>news</i>	Network news subsystem.	<i>uucp</i>	Network news subsystem.	<i>cron</i>	Clock daemon.	<i>authpriv</i>	Security/authorization messages (private).	<i>ftp</i>	FTP daemon.	<i>ntp</i>	NTP daemon.	<i>audit</i>	Log audit.	<i>alert</i>	Log alert.	<i>clock</i>	Clock daemon.	<i>local0</i>	Reserved for local use.	<i>local1</i>	Reserved for local use.	<i>local2</i>	Reserved for local use.	<i>local3</i>	Reserved for local use.	<i>local4</i>	Reserved for local use.	<i>local5</i>	Reserved for local use.	<i>local6</i>	Reserved for local use.	<i>local7</i>	Reserved for local use.			
	Option	Description																																																
	<i>mail</i>	Mail system.																																																
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Parameter	Description	Type	Size	Default
	Option	Description		
	<i>cef</i>	CEF (Common Event Format) format.		
	<i>rfc5424</i>	Syslog RFC5424 format.		
	<i>json</i>	JSON (JavaScript Object Notation) format.		
	<i>custom</i>	Custom format.		
priority	Set log transmission priority.	option	-	default
	Option	Description		
	<i>default</i>	Set Syslog transmission priority to default.		
	<i>low</i>	Set Syslog transmission priority to low.		
max-log-rate	Syslog maximum log rate in MBps (0 = unlimited).	integer	Minimum value: 0 Maximum value: 100000	0
enc-algorithm	Enable/disable reliable syslogging with TLS encryption.	option	-	disable
	Option	Description		
	<i>high-medium</i>	SSL communication with high and medium encryption algorithms.		
	<i>high</i>	SSL communication with high encryption algorithms.		
	<i>low</i>	SSL communication with low encryption algorithms.		
	<i>disable</i>	Disable SSL communication.		
ssl-min-protocol-version	Minimum supported protocol version for SSL/TLS connections (default is to follow system global setting).	option	-	default
	Option	Description		
	<i>default</i>	Follow system global setting.		
	<i>SSLv3</i>	SSLv3.		
	<i>TLSv1</i>	TLSv1.		
	<i>TLSv1-1</i>	TLSv1.1.		
	<i>TLSv1-2</i>	TLSv1.2.		
	<i>TLSv1-3</i>	TLSv1.3.		
certificate	Certificate used to communicate with Syslog server.	string	Maximum length: 35	

Parameter	Description	Type	Size	Default
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto
	Option	Description		
	auto	Set outgoing interface automatically.		
	specify	Set outgoing interface manually.		
interface	Specify outgoing interface to reach server.	string	Maximum length: 15	

config custom-field-name

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 255	0
name	Field name [A-Za-z0-9_].	string	Maximum length: 35	
custom	Field custom name [A-Za-z0-9_].	string	Maximum length: 35	

config log-templates

Parameter	Description	Type	Size	Default												
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0												
category	Log category.	option	-	traffic												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>traffic</td><td>Traffic log.</td></tr><tr><td>event</td><td>Event log.</td></tr><tr><td>virus</td><td>Antivirus log.</td></tr><tr><td>webfilter</td><td>Web filter log.</td></tr><tr><td>attack</td><td>Attack log.</td></tr></table>				Option	Description	traffic	Traffic log.	event	Event log.	virus	Antivirus log.	webfilter	Web filter log.	attack	Attack log.
	Option	Description														
	traffic	Traffic log.														
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	attack	Attack log.														

Parameter	Description	Type	Size	Default																										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>spam</i></td><td>Antispam log.</td></tr><tr><td><i>anomaly</i></td><td>Anomaly log.</td></tr><tr><td><i>voip</i></td><td>VoIP log.</td></tr><tr><td><i>dlp</i></td><td>DLP log.</td></tr><tr><td><i>app-ctrl</i></td><td>Application control log.</td></tr><tr><td><i>waf</i></td><td>Web application firewall log.</td></tr><tr><td><i>dns</i></td><td>DNS detail log.</td></tr><tr><td><i>ssh</i></td><td>SSH log.</td></tr><tr><td><i>ssl</i></td><td>SSL log.</td></tr><tr><td><i>file-filter</i></td><td>File filter log.</td></tr><tr><td><i>icap</i></td><td>ICAP log.</td></tr><tr><td><i>virtual-patch</i></td><td>Virtual patch log.</td></tr></table>	Option	Description	<i>spam</i>	Antispam log.	<i>anomaly</i>	Anomaly log.	<i>voip</i>	VoIP log.	<i>dlp</i>	DLP log.	<i>app-ctrl</i>	Application control log.	<i>waf</i>	Web application firewall log.	<i>dns</i>	DNS detail log.	<i>ssh</i>	SSH log.	<i>ssl</i>	SSL log.	<i>file-filter</i>	File filter log.	<i>icap</i>	ICAP log.	<i>virtual-patch</i>	Virtual patch log.			
	Option	Description																												
	<i>spam</i>	Antispam log.																												
	<i>anomaly</i>	Anomaly log.																												
	<i>voip</i>	VoIP log.																												
	<i>dlp</i>	DLP log.																												
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	<i>ssl</i>	SSL log.																												
	<i>file-filter</i>	File filter log.																												
	<i>icap</i>	ICAP log.																												
<i>virtual-patch</i>	Virtual patch log.																													
empty-value-indicator	A character to indicate log field is empty.	string	Maximum length: 1																											
template	Log template string.	string	Maximum length: 2047																											

config log syslogd4 filter

Filters for remote system server.

```
config log syslogd4 filter
    Description: Filters for remote system server.
    set severity [emergency|alert|...]
    set forward-traffic [enable|disable]
    set local-traffic [enable|disable]
    set multicast-traffic [enable|disable]
    set sniffer-traffic [enable|disable]
    set ztna-traffic [enable|disable]
    set http-transaction [enable|disable]
    set anomaly [enable|disable]
    set voip [enable|disable]
    set forti-switch [enable|disable]
config free-style
    Description: Free style filters.
    edit <id>
        set category [traffic|event|...]
        set filter {string}
        set filter-type [include|exclude]
    next
```

end
end

config log syslogd4 filter

Parameter	Description	Type	Size	Default
severity	Lowest severity level to log.	option	-	information
	Option	Description		
	<i>emergency</i>	Emergency level.		
	<i>alert</i>	Alert level.		
	<i>critical</i>	Critical level.		
	<i>error</i>	Error level.		
	<i>warning</i>	Warning level.		
	<i>notification</i>	Notification level.		
	<i>information</i>	Information level.		
	<i>debug</i>	Debug level.		
forward-traffic	Enable/disable forward traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable forward traffic logging.		
	<i>disable</i>	Disable forward traffic logging.		
local-traffic	Enable/disable local in or out traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable local in or out traffic logging.		
	<i>disable</i>	Disable local in or out traffic logging.		
multicast-traffic	Enable/disable multicast traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable multicast traffic logging.		
	<i>disable</i>	Disable multicast traffic logging.		
sniffer-traffic	Enable/disable sniffer traffic logging.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable sniffer traffic logging.		
	<i>disable</i>	Disable sniffer traffic logging.		
ztna-traffic	Enable/disable ztna traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable ztna traffic logging.		
	<i>disable</i>	Disable ztna traffic logging.		
http-transaction	Enable/disable log http-transaction messages.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable http transaction logging.		
	<i>disable</i>	Disable http transaction logging.		
anomaly	Enable/disable anomaly logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable anomaly logging.		
	<i>disable</i>	Disable anomaly logging.		
voip	Enable/disable VoIP logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable VoIP logging.		
	<i>disable</i>	Disable VoIP logging.		
forti-switch	Enable/disable Forti-Switch logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable Forti-Switch logging.		
	<i>disable</i>	Disable Forti-Switch logging.		

config free-style

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
category	Log category.	option	-	traffic
	Option	Description		
	<i>traffic</i>	Traffic log.		
	<i>event</i>	Event log.		
	<i>virus</i>	Antivirus log.		
	<i>webfilter</i>	Web filter log.		
	<i>attack</i>	Attack log.		
	<i>spam</i>	Antispam log.		
	<i>anomaly</i>	Anomaly log.		
	<i>voip</i>	VoIP log.		
	<i>dlp</i>	DLP log.		
	<i>app-ctrl</i>	Application control log.		
	<i>waf</i>	Web application firewall log.		
	<i>dns</i>	DNS detail log.		
	<i>ssh</i>	SSH log.		
	<i>ssl</i>	SSL log.		
	<i>file-filter</i>	File filter log.		
	<i>icap</i>	ICAP log.		
<i>virtual-patch</i>	Virtual patch log.			
filter	Free style filter string.	string	Maximum length: 1023	
filter-type	Include/exclude logs that match the filter.	option	-	include
	Option	Description		
	<i>include</i>	Include logs that match the filter.		
	<i>exclude</i>	Exclude logs that match the filter.		

config log syslogd4 override-filter

Override filters for remote system server.

```
config log syslogd4 override-filter
  Description: Override filters for remote system server.
  set severity [emergency|alert|...]
  set forward-traffic [enable|disable]
  set local-traffic [enable|disable]
  set multicast-traffic [enable|disable]
  set sniffer-traffic [enable|disable]
  set ztna-traffic [enable|disable]
  set http-transaction [enable|disable]
  set anomaly [enable|disable]
  set voip [enable|disable]
  set forti-switch [enable|disable]
  config free-style
    Description: Free style filters.
    edit <id>
      set category [traffic|event|...]
      set filter {string}
      set filter-type [include|exclude]
    next
  end
end
```

config log syslogd4 override-filter

Parameter	Description	Type	Size	Default
severity	Lowest severity level to log.	option	-	information
	Option	Description		
	<i>emergency</i>	Emergency level.		
	<i>alert</i>	Alert level.		
	<i>critical</i>	Critical level.		
	<i>error</i>	Error level.		
	<i>warning</i>	Warning level.		
	<i>notification</i>	Notification level.		
	<i>information</i>	Information level.		
debug	Debug level.			
forward-traffic	Enable/disable forward traffic logging.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable forward traffic logging.		
	<i>disable</i>	Disable forward traffic logging.		
local-traffic	Enable/disable local in or out traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable local in or out traffic logging.		
	<i>disable</i>	Disable local in or out traffic logging.		
multicast-traffic	Enable/disable multicast traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable multicast traffic logging.		
	<i>disable</i>	Disable multicast traffic logging.		
sniffer-traffic	Enable/disable sniffer traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable sniffer traffic logging.		
	<i>disable</i>	Disable sniffer traffic logging.		
ztna-traffic	Enable/disable ztna traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable ztna traffic logging.		
	<i>disable</i>	Disable ztna traffic logging.		
http-transaction	Enable/disable log http-transaction messages.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable http transaction logging.		
	<i>disable</i>	Disable http transaction logging.		
anomaly	Enable/disable anomaly logging.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable anomaly logging.		
	<i>disable</i>	Disable anomaly logging.		
voip	Enable/disable VoIP logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable VoIP logging.		
	<i>disable</i>	Disable VoIP logging.		
forti-switch	Enable/disable Forti-Switch logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable Forti-Switch logging.		
	<i>disable</i>	Disable Forti-Switch logging.		

config free-style

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
category	Log category.	option	-	traffic
	Option	Description		
	<i>traffic</i>	Traffic log.		
	<i>event</i>	Event log.		
	<i>virus</i>	Antivirus log.		
	<i>webfilter</i>	Web filter log.		
	<i>attack</i>	Attack log.		
	<i>spam</i>	Antispam log.		
	<i>anomaly</i>	Anomaly log.		
	<i>voip</i>	VoIP log.		
	<i>dlp</i>	DLP log.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>app-ctrl</i>	Application control log.		
	<i>waf</i>	Web application firewall log.		
	<i>dns</i>	DNS detail log.		
	<i>ssh</i>	SSH log.		
	<i>ssl</i>	SSL log.		
	<i>file-filter</i>	File filter log.		
	<i>icap</i>	ICAP log.		
	<i>virtual-patch</i>	Virtual patch log.		
filter	Free style filter string.	string	Maximum length: 1023	
filter-type	Include/exclude logs that match the filter.	option	-	include
	Option	Description		
	<i>include</i>	Include logs that match the filter.		
	<i>exclude</i>	Exclude logs that match the filter.		

config log syslogd4 override-setting

Override settings for remote syslog server.

```

config log syslogd4 override-setting
    Description: Override settings for remote syslog server.
    set status [enable|disable]
    set server {string}
    set mode [udp|legacy-reliable|...]
    set port {integer}
    set facility [kernel|user|...]
    set source-ip {string}
    set format [default|csv|...]
    set priority [default|low]
    set max-log-rate {integer}
    set enc-algorithm [high-medium|high|...]
    set ssl-min-proto-version [default|SSLv3|...]
    set certificate {string}
    config custom-field-name
        Description: Custom field name for CEF format logging.
        edit <id>
            set name {string}
            set custom {string}
        next
    end

```



```

set interface-select-method [auto|specify]
set interface {string}
config log-templates
  Description: Custom log templates.
  edit <id>
    set category [traffic|event|...]
    set empty-value-indicator {string}
    set template {string}
  next
end
end

```

config log syslogd4 override-setting

Parameter	Description	Type	Size	Default								
status	Enable/disable remote syslog logging.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Log to remote syslog server.</td></tr><tr><td><i>disable</i></td><td>Do not log to remote syslog server.</td></tr></table>	Option	Description	<i>enable</i>	Log to remote syslog server.	<i>disable</i>	Do not log to remote syslog server.					
Option	Description											
<i>enable</i>	Log to remote syslog server.											
<i>disable</i>	Do not log to remote syslog server.											
server	Address of remote syslog server.	string	Maximum length: 127									
mode	Remote syslog logging over UDP/Reliable TCP.	option	-	udp								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>udp</i></td><td>Enable syslogging over UDP.</td></tr><tr><td><i>legacy-reliable</i></td><td>Enable legacy reliable syslogging by RFC3195 (Reliable Delivery for Syslog).</td></tr><tr><td><i>reliable</i></td><td>Enable reliable syslogging by RFC6587 (Transmission of Syslog Messages over TCP).</td></tr></table>	Option	Description	<i>udp</i>	Enable syslogging over UDP.	<i>legacy-reliable</i>	Enable legacy reliable syslogging by RFC3195 (Reliable Delivery for Syslog).	<i>reliable</i>	Enable reliable syslogging by RFC6587 (Transmission of Syslog Messages over TCP).			
Option	Description											
<i>udp</i>	Enable syslogging over UDP.											
<i>legacy-reliable</i>	Enable legacy reliable syslogging by RFC3195 (Reliable Delivery for Syslog).											
<i>reliable</i>	Enable reliable syslogging by RFC6587 (Transmission of Syslog Messages over TCP).											
port	Server listen port.	integer	Minimum value: 0 Maximum value: 65535	514								
facility	Remote syslog facility.	option	-	local7								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>kernel</i></td><td>Kernel messages.</td></tr><tr><td><i>user</i></td><td>Random user-level messages.</td></tr><tr><td><i>mail</i></td><td>Mail system.</td></tr></table>	Option	Description	<i>kernel</i>	Kernel messages.	<i>user</i>	Random user-level messages.	<i>mail</i>	Mail system.			
Option	Description											
<i>kernel</i>	Kernel messages.											
<i>user</i>	Random user-level messages.											
<i>mail</i>	Mail system.											

Parameter	Description	Type	Size	Default																																												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>daemon</i></td><td>System daemons.</td></tr><tr><td><i>auth</i></td><td>Security/authorization messages.</td></tr><tr><td><i>syslog</i></td><td>Messages generated internally by syslog.</td></tr><tr><td><i>lpr</i></td><td>Line printer subsystem.</td></tr><tr><td><i>news</i></td><td>Network news subsystem.</td></tr><tr><td><i>uucp</i></td><td>Network news subsystem.</td></tr><tr><td><i>cron</i></td><td>Clock daemon.</td></tr><tr><td><i>authpriv</i></td><td>Security/authorization messages (private).</td></tr><tr><td><i>ftp</i></td><td>FTP daemon.</td></tr><tr><td><i>ntp</i></td><td>NTP daemon.</td></tr><tr><td><i>audit</i></td><td>Log audit.</td></tr><tr><td><i>alert</i></td><td>Log alert.</td></tr><tr><td><i>clock</i></td><td>Clock daemon.</td></tr><tr><td><i>local0</i></td><td>Reserved for local use.</td></tr><tr><td><i>local1</i></td><td>Reserved for local use.</td></tr><tr><td><i>local2</i></td><td>Reserved for local use.</td></tr><tr><td><i>local3</i></td><td>Reserved for local use.</td></tr><tr><td><i>local4</i></td><td>Reserved for local use.</td></tr><tr><td><i>local5</i></td><td>Reserved for local use.</td></tr><tr><td><i>local6</i></td><td>Reserved for local use.</td></tr><tr><td><i>local7</i></td><td>Reserved for local use.</td></tr></table>	Option	Description	<i>daemon</i>	System daemons.	<i>auth</i>	Security/authorization messages.	<i>syslog</i>	Messages generated internally by syslog.	<i>lpr</i>	Line printer subsystem.	<i>news</i>	Network news subsystem.	<i>uucp</i>	Network news subsystem.	<i>cron</i>	Clock daemon.	<i>authpriv</i>	Security/authorization messages (private).	<i>ftp</i>	FTP daemon.	<i>ntp</i>	NTP daemon.	<i>audit</i>	Log audit.	<i>alert</i>	Log alert.	<i>clock</i>	Clock daemon.	<i>local0</i>	Reserved for local use.	<i>local1</i>	Reserved for local use.	<i>local2</i>	Reserved for local use.	<i>local3</i>	Reserved for local use.	<i>local4</i>	Reserved for local use.	<i>local5</i>	Reserved for local use.	<i>local6</i>	Reserved for local use.	<i>local7</i>	Reserved for local use.			
	Option	Description																																														
	<i>daemon</i>	System daemons.																																														
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	<i>local4</i>	Reserved for local use.																																														
	<i>local5</i>	Reserved for local use.																																														
	<i>local6</i>	Reserved for local use.																																														
<i>local7</i>	Reserved for local use.																																															
source-ip	Source IP address of syslog.	string	Maximum length: 63																																													
format	Log format.	option	-	default																																												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>default</i></td><td>Syslog format.</td></tr><tr><td><i>csv</i></td><td>CSV (Comma Separated Values) format.</td></tr><tr><td><i>cef</i></td><td>CEF (Common Event Format) format.</td></tr></table>	Option	Description	<i>default</i>	Syslog format.	<i>csv</i>	CSV (Comma Separated Values) format.	<i>cef</i>	CEF (Common Event Format) format.																																							
	Option	Description																																														
	<i>default</i>	Syslog format.																																														
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<i>cef</i>	CEF (Common Event Format) format.																																															

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>rfc5424</i>	Syslog RFC5424 format.		
	<i>json</i>	JSON (JavaScript Object Notation) format.		
	<i>custom</i>	Custom format.		
priority	Set log transmission priority.	option	-	default
	Option	Description		
	<i>default</i>	Set Syslog transmission priority to default.		
	<i>low</i>	Set Syslog transmission priority to low.		
max-log-rate	Syslog maximum log rate in MBps (0 = unlimited).	integer	Minimum value: 0 Maximum value: 100000	0
enc-algorithm	Enable/disable reliable syslogging with TLS encryption.	option	-	disable
	Option	Description		
	<i>high-medium</i>	SSL communication with high and medium encryption algorithms.		
	<i>high</i>	SSL communication with high encryption algorithms.		
	<i>low</i>	SSL communication with low encryption algorithms.		
	<i>disable</i>	Disable SSL communication.		
ssl-min-protocol-version	Minimum supported protocol version for SSL/TLS connections (default is to follow system global setting).	option	-	default
	Option	Description		
	<i>default</i>	Follow system global setting.		
	<i>SSLv3</i>	SSLv3.		
	<i>TLSv1</i>	TLSv1.		
	<i>TLSv1-1</i>	TLSv1.1.		
	<i>TLSv1-2</i>	TLSv1.2.		
	<i>TLSv1-3</i>	TLSv1.3.		
certificate	Certificate used to communicate with Syslog server.	string	Maximum length: 35	

Parameter	Description	Type	Size	Default
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto
	Option	Description		
	auto	Set outgoing interface automatically.		
	specify	Set outgoing interface manually.		
interface	Specify outgoing interface to reach server.	string	Maximum length: 15	

config custom-field-name

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 255	0
name	Field name [A-Za-z0-9_].	string	Maximum length: 35	
custom	Field custom name [A-Za-z0-9_].	string	Maximum length: 35	

config log-templates

Parameter	Description	Type	Size	Default												
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0												
category	Log category.	option	-	traffic												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>traffic</td><td>Traffic log.</td></tr><tr><td>event</td><td>Event log.</td></tr><tr><td>virus</td><td>Antivirus log.</td></tr><tr><td>webfilter</td><td>Web filter log.</td></tr><tr><td>attack</td><td>Attack log.</td></tr></table>				Option	Description	traffic	Traffic log.	event	Event log.	virus	Antivirus log.	webfilter	Web filter log.	attack	Attack log.
	Option	Description														
	traffic	Traffic log.														
	event	Event log.														
	virus	Antivirus log.														
	webfilter	Web filter log.														
attack	Attack log.															

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>spam</i>	Antispam log.		
	<i>anomaly</i>	Anomaly log.		
	<i>voip</i>	VoIP log.		
	<i>dlp</i>	DLP log.		
	<i>app-ctrl</i>	Application control log.		
	<i>waf</i>	Web application firewall log.		
	<i>dns</i>	DNS detail log.		
	<i>ssh</i>	SSH log.		
	<i>ssl</i>	SSL log.		
	<i>file-filter</i>	File filter log.		
	<i>icap</i>	ICAP log.		
	<i>virtual-patch</i>	Virtual patch log.		
empty-value-indicator	A character to indicate log field is empty.	string	Maximum length: 1	
template	Log template string.	string	Maximum length: 2047	

config log syslogd4 setting

Global settings for remote syslog server.

```
config log syslogd4 setting
    Description: Global settings for remote syslog server.
    set status [enable|disable]
    set server {string}
    set mode [udp|legacy-reliable|...]
    set port {integer}
    set facility [kernel|user|...]
    set source-ip {string}
    set format [default|csv|...]
    set priority [default|low]
    set max-log-rate {integer}
    set enc-algorithm [high-medium|high|...]
    set ssl-min-proto-version [default|SSLv3|...]
    set certificate {string}
    config custom-field-name
        Description: Custom field name for CEF format logging.
        edit <id>
            set name {string}
            set custom {string}
```

```

        next
    end
    set interface-select-method [auto|specify]
    set interface {string}
    config log-templates
        Description: Custom log templates.
        edit <id>
            set category [traffic|event|...]
            set empty-value-indicator {string}
            set template {string}
        next
    end
end
end

```

config log syslogd4 setting

Parameter	Description	Type	Size	Default
status	Enable/disable remote syslog logging.	option	-	disable
	Option	Description		
	<i>enable</i>	Log to remote syslog server.		
	<i>disable</i>	Do not log to remote syslog server.		
server	Address of remote syslog server.	string	Maximum length: 127	
mode	Remote syslog logging over UDP/Reliable TCP.	option	-	udp
	Option	Description		
	<i>udp</i>	Enable syslogging over UDP.		
	<i>legacy-reliable</i>	Enable legacy reliable syslogging by RFC3195 (Reliable Delivery for Syslog).		
	<i>reliable</i>	Enable reliable syslogging by RFC6587 (Transmission of Syslog Messages over TCP).		
port	Server listen port.	integer	Minimum value: 0 Maximum value: 65535	514
facility	Remote syslog facility.	option	-	local7
	Option	Description		
	<i>kernel</i>	Kernel messages.		
	<i>user</i>	Random user-level messages.		

Parameter	Description	Type	Size	Default																																														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>mail</i></td><td>Mail system.</td></tr><tr><td><i>daemon</i></td><td>System daemons.</td></tr><tr><td><i>auth</i></td><td>Security/authorization messages.</td></tr><tr><td><i>syslog</i></td><td>Messages generated internally by syslog.</td></tr><tr><td><i>lpr</i></td><td>Line printer subsystem.</td></tr><tr><td><i>news</i></td><td>Network news subsystem.</td></tr><tr><td><i>uucp</i></td><td>Network news subsystem.</td></tr><tr><td><i>cron</i></td><td>Clock daemon.</td></tr><tr><td><i>authpriv</i></td><td>Security/authorization messages (private).</td></tr><tr><td><i>ftp</i></td><td>FTP daemon.</td></tr><tr><td><i>ntp</i></td><td>NTP daemon.</td></tr><tr><td><i>audit</i></td><td>Log audit.</td></tr><tr><td><i>alert</i></td><td>Log alert.</td></tr><tr><td><i>clock</i></td><td>Clock daemon.</td></tr><tr><td><i>local0</i></td><td>Reserved for local use.</td></tr><tr><td><i>local1</i></td><td>Reserved for local use.</td></tr><tr><td><i>local2</i></td><td>Reserved for local use.</td></tr><tr><td><i>local3</i></td><td>Reserved for local use.</td></tr><tr><td><i>local4</i></td><td>Reserved for local use.</td></tr><tr><td><i>local5</i></td><td>Reserved for local use.</td></tr><tr><td><i>local6</i></td><td>Reserved for local use.</td></tr><tr><td><i>local7</i></td><td>Reserved for local use.</td></tr></table>	Option	Description	<i>mail</i>	Mail system.	<i>daemon</i>	System daemons.	<i>auth</i>	Security/authorization messages.	<i>syslog</i>	Messages generated internally by syslog.	<i>lpr</i>	Line printer subsystem.	<i>news</i>	Network news subsystem.	<i>uucp</i>	Network news subsystem.	<i>cron</i>	Clock daemon.	<i>authpriv</i>	Security/authorization messages (private).	<i>ftp</i>	FTP daemon.	<i>ntp</i>	NTP daemon.	<i>audit</i>	Log audit.	<i>alert</i>	Log alert.	<i>clock</i>	Clock daemon.	<i>local0</i>	Reserved for local use.	<i>local1</i>	Reserved for local use.	<i>local2</i>	Reserved for local use.	<i>local3</i>	Reserved for local use.	<i>local4</i>	Reserved for local use.	<i>local5</i>	Reserved for local use.	<i>local6</i>	Reserved for local use.	<i>local7</i>	Reserved for local use.			
	Option	Description																																																
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<i>local5</i>	Reserved for local use.																																																	
<i>local6</i>	Reserved for local use.																																																	
<i>local7</i>	Reserved for local use.																																																	
source-ip	Source IP address of syslog.	string	Maximum length: 63																																															
format	Log format.	option	-	default																																														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>default</i></td><td>Syslog format.</td></tr><tr><td><i>csv</i></td><td>CSV (Comma Separated Values) format.</td></tr></table>	Option	Description	<i>default</i>	Syslog format.	<i>csv</i>	CSV (Comma Separated Values) format.																																											
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Parameter	Description	Type	Size	Default
	Option	Description		
	<i>cef</i>	CEF (Common Event Format) format.		
	<i>rfc5424</i>	Syslog RFC5424 format.		
	<i>json</i>	JSON (JavaScript Object Notation) format.		
	<i>custom</i>	Custom format.		
priority	Set log transmission priority.	option	-	default
	Option	Description		
	<i>default</i>	Set Syslog transmission priority to default.		
	<i>low</i>	Set Syslog transmission priority to low.		
max-log-rate	Syslog maximum log rate in MBps (0 = unlimited).	integer	Minimum value: 0 Maximum value: 100000	0
enc-algorithm	Enable/disable reliable syslogging with TLS encryption.	option	-	disable
	Option	Description		
	<i>high-medium</i>	SSL communication with high and medium encryption algorithms.		
	<i>high</i>	SSL communication with high encryption algorithms.		
	<i>low</i>	SSL communication with low encryption algorithms.		
	<i>disable</i>	Disable SSL communication.		
ssl-min-protocol-version	Minimum supported protocol version for SSL/TLS connections (default is to follow system global setting).	option	-	default
	Option	Description		
	<i>default</i>	Follow system global setting.		
	<i>SSLv3</i>	SSLv3.		
	<i>TLSv1</i>	TLSv1.		
	<i>TLSv1-1</i>	TLSv1.1.		
	<i>TLSv1-2</i>	TLSv1.2.		
	<i>TLSv1-3</i>	TLSv1.3.		
certificate	Certificate used to communicate with Syslog server.	string	Maximum length: 35	

Parameter	Description	Type	Size	Default
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto
	Option	Description		
	auto	Set outgoing interface automatically.		
	specify	Set outgoing interface manually.		
interface	Specify outgoing interface to reach server.	string	Maximum length: 15	

config custom-field-name

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 255	0
name	Field name [A-Za-z0-9_].	string	Maximum length: 35	
custom	Field custom name [A-Za-z0-9_].	string	Maximum length: 35	

config log-templates

Parameter	Description	Type	Size	Default												
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0												
category	Log category.	option	-	traffic												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>traffic</td><td>Traffic log.</td></tr><tr><td>event</td><td>Event log.</td></tr><tr><td>virus</td><td>Antivirus log.</td></tr><tr><td>webfilter</td><td>Web filter log.</td></tr><tr><td>attack</td><td>Attack log.</td></tr></table>				Option	Description	traffic	Traffic log.	event	Event log.	virus	Antivirus log.	webfilter	Web filter log.	attack	Attack log.
	Option	Description														
	traffic	Traffic log.														
	event	Event log.														
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	webfilter	Web filter log.														
attack	Attack log.															

Parameter	Description	Type	Size	Default																										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>spam</i></td><td>Antispam log.</td></tr><tr><td><i>anomaly</i></td><td>Anomaly log.</td></tr><tr><td><i>voip</i></td><td>VoIP log.</td></tr><tr><td><i>dlp</i></td><td>DLP log.</td></tr><tr><td><i>app-ctrl</i></td><td>Application control log.</td></tr><tr><td><i>waf</i></td><td>Web application firewall log.</td></tr><tr><td><i>dns</i></td><td>DNS detail log.</td></tr><tr><td><i>ssh</i></td><td>SSH log.</td></tr><tr><td><i>ssl</i></td><td>SSL log.</td></tr><tr><td><i>file-filter</i></td><td>File filter log.</td></tr><tr><td><i>icap</i></td><td>ICAP log.</td></tr><tr><td><i>virtual-patch</i></td><td>Virtual patch log.</td></tr></table>	Option	Description	<i>spam</i>	Antispam log.	<i>anomaly</i>	Anomaly log.	<i>voip</i>	VoIP log.	<i>dlp</i>	DLP log.	<i>app-ctrl</i>	Application control log.	<i>waf</i>	Web application firewall log.	<i>dns</i>	DNS detail log.	<i>ssh</i>	SSH log.	<i>ssl</i>	SSL log.	<i>file-filter</i>	File filter log.	<i>icap</i>	ICAP log.	<i>virtual-patch</i>	Virtual patch log.			
	Option	Description																												
	<i>spam</i>	Antispam log.																												
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	<i>file-filter</i>	File filter log.																												
	<i>icap</i>	ICAP log.																												
<i>virtual-patch</i>	Virtual patch log.																													
empty-value-indicator	A character to indicate log field is empty.	string	Maximum length: 1																											
template	Log template string.	string	Maximum length: 2047																											

config log tacacs+accounting filter

Settings for TACACS+ accounting events filter.

```
config log tacacs+accounting filter
    Description: Settings for TACACS+ accounting events filter.
    set login-audit [enable|disable]
    set config-change-audit [enable|disable]
    set cli-cmd-audit [enable|disable]
end
```

config log tacacs+accounting filter

Parameter	Description	Type	Size	Default
login-audit	Enable/disable TACACS+ accounting for login events audit.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable TACACS+ accounting for login events audit.		
	<i>disable</i>	Disable TACACS+ accounting for login events audit.		
config-change-audit	Enable/disable TACACS+ accounting for configuration change events audit.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable TACACS+ accounting for configuration change events audit.		
	<i>disable</i>	Disable TACACS+ accounting for configuration change events audit.		
cli-cmd-audit	Enable/disable TACACS+ accounting for CLI commands audit.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable TACACS+ accounting for CLI commands audit.		
	<i>disable</i>	Disable TACACS+ accounting for CLI commands audit.		

config log tacacs+accounting setting

Settings for TACACS+ accounting.

```
config log tacacs+accounting setting
    Description: Settings for TACACS+ accounting.
    set status [enable|disable]
    set server {string}
    set server-key {password}
    set source-ip {string}
    set interface-select-method [auto|specify]
    set interface {string}
end
```

config log tacacs+accounting setting

Parameter	Description	Type	Size	Default
status	Enable/disable TACACS+ accounting.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable TACACS+ accounting.		
	<i>disable</i>	Disable TACACS+ accounting.		

Parameter	Description	Type	Size	Default						
server	Address of TACACS+ server.	string	Maximum length: 63							
server-key	Key to access the TACACS+ server.	password	Not Specified							
source-ip	Source IP address for communication to TACACS+ server.	string	Maximum length: 63							
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>auto</td><td>Set outgoing interface automatically.</td></tr><tr><td>specify</td><td>Set outgoing interface manually.</td></tr></table>				Option	Description	auto	Set outgoing interface automatically.	specify	Set outgoing interface manually.
	Option	Description								
	auto	Set outgoing interface automatically.								
specify	Set outgoing interface manually.									
interface	Specify outgoing interface to reach server.	string	Maximum length: 15							

config log tacacs+accounting2 filter

Settings for TACACS+ accounting events filter.

```
config log tacacs+accounting2 filter
    Description: Settings for TACACS+ accounting events filter.
    set login-audit [enable|disable]
    set config-change-audit [enable|disable]
    set cli-cmd-audit [enable|disable]
end
```

config log tacacs+accounting2 filter

Parameter	Description	Type	Size	Default						
login-audit	Enable/disable TACACS+ accounting for login events audit.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable TACACS+ accounting for login events audit.</td></tr><tr><td><i>disable</i></td><td>Disable TACACS+ accounting for login events audit.</td></tr></table>				Option	Description	<i>enable</i>	Enable TACACS+ accounting for login events audit.	<i>disable</i>	Disable TACACS+ accounting for login events audit.
Option	Description									
<i>enable</i>	Enable TACACS+ accounting for login events audit.									
<i>disable</i>	Disable TACACS+ accounting for login events audit.									
config-change-audit	Enable/disable TACACS+ accounting for configuration change events audit.	option	-	enable						

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable TACACS+ accounting for configuration change events audit.		
	<i>disable</i>	Disable TACACS+ accounting for configuration change events audit.		
cli-cmd-audit	Enable/disable TACACS+ accounting for CLI commands audit.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable TACACS+ accounting for CLI commands audit.		
	<i>disable</i>	Disable TACACS+ accounting for CLI commands audit.		

config log tacacs+accounting2 setting

Settings for TACACS+ accounting.

```

config log tacacs+accounting2 setting
    Description: Settings for TACACS+ accounting.
    set status [enable|disable]
    set server {string}
    set server-key {password}
    set source-ip {string}
    set interface-select-method [auto|specify]
    set interface {string}
end

```

config log tacacs+accounting2 setting

Parameter	Description	Type	Size	Default
status	Enable/disable TACACS+ accounting.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable TACACS+ accounting.		
	<i>disable</i>	Disable TACACS+ accounting.		
server	Address of TACACS+ server.	string	Maximum length: 63	
server-key	Key to access the TACACS+ server.	password	Not Specified	
source-ip	Source IP address for communication to TACACS+ server.	string	Maximum length: 63	

Parameter	Description	Type	Size	Default
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto
	Option	Description		
	auto	Set outgoing interface automatically.		
	specify	Set outgoing interface manually.		
interface	Specify outgoing interface to reach server.	string	Maximum length: 15	

config log tacacs+accounting3 filter

Settings for TACACS+ accounting events filter.

```
config log tacacs+accounting3 filter
    Description: Settings for TACACS+ accounting events filter.
    set login-audit [enable|disable]
    set config-change-audit [enable|disable]
    set cli-cmd-audit [enable|disable]
end
```

config log tacacs+accounting3 filter

Parameter	Description	Type	Size	Default						
login-audit	Enable/disable TACACS+ accounting for login events audit.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable TACACS+ accounting for login events audit.</td></tr><tr><td><i>disable</i></td><td>Disable TACACS+ accounting for login events audit.</td></tr></table>				Option	Description	<i>enable</i>	Enable TACACS+ accounting for login events audit.	<i>disable</i>	Disable TACACS+ accounting for login events audit.
Option	Description									
<i>enable</i>	Enable TACACS+ accounting for login events audit.									
<i>disable</i>	Disable TACACS+ accounting for login events audit.									
config-change-audit	Enable/disable TACACS+ accounting for configuration change events audit.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable TACACS+ accounting for configuration change events audit.</td></tr><tr><td><i>disable</i></td><td>Disable TACACS+ accounting for configuration change events audit.</td></tr></table>				Option	Description	<i>enable</i>	Enable TACACS+ accounting for configuration change events audit.	<i>disable</i>	Disable TACACS+ accounting for configuration change events audit.
Option	Description									
<i>enable</i>	Enable TACACS+ accounting for configuration change events audit.									
<i>disable</i>	Disable TACACS+ accounting for configuration change events audit.									
cli-cmd-audit	Enable/disable TACACS+ accounting for CLI commands audit.	option	-	disable						

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable TACACS+ accounting for CLI commands audit.		
	<i>disable</i>	Disable TACACS+ accounting for CLI commands audit.		

config log tacacs+accounting3 setting

Settings for TACACS+ accounting.

```
config log tacacs+accounting3 setting
    Description: Settings for TACACS+ accounting.
    set status [enable|disable]
    set server {string}
    set server-key {password}
    set source-ip {string}
    set interface-select-method [auto|specify]
    set interface {string}
end
```

config log tacacs+accounting3 setting

Parameter	Description	Type	Size	Default
status	Enable/disable TACACS+ accounting.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable TACACS+ accounting.		
	<i>disable</i>	Disable TACACS+ accounting.		
server	Address of TACACS+ server.	string	Maximum length: 63	
server-key	Key to access the TACACS+ server.	password	Not Specified	
source-ip	Source IP address for communication to TACACS+ server.	string	Maximum length: 63	
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto
	Option	Description		
	<i>auto</i>	Set outgoing interface automatically.		
	<i>specify</i>	Set outgoing interface manually.		

Parameter	Description	Type	Size	Default
interface	Specify outgoing interface to reach server.	string	Maximum length: 15	

config log threat-weight

Configure threat weight settings.

```

config log threat-weight
    Description: Configure threat weight settings.
    set status [enable|disable]
    config level
        Description: Score mapping for threat weight levels.
        set low {integer}
        set medium {integer}
        set high {integer}
        set critical {integer}
    end
    set blocked-connection [disable|low|...]
    set failed-connection [disable|low|...]
    set url-block-detected [disable|low|...]
    set botnet-connection-detected [disable|low|...]
    config malware
        Description: Anti-virus malware threat weight settings.
        set virus-infected [disable|low|...]
        set inline-block [disable|low|...]
        set file-blocked [disable|low|...]
        set command-blocked [disable|low|...]
        set oversized [disable|low|...]
        set virus-scan-error [disable|low|...]
        set switch-proto [disable|low|...]
        set mimefragmented [disable|low|...]
        set virus-file-type-executable [disable|low|...]
        set virus-outbreak-prevention [disable|low|...]
        set content-disarm [disable|low|...]
        set malware-list [disable|low|...]
        set ems-threat-feed [disable|low|...]
        set fsa-malicious [disable|low|...]
        set fsa-high-risk [disable|low|...]
        set fsa-medium-risk [disable|low|...]
    end
    config ips
        Description: IPS threat weight settings.
        set info-severity [disable|low|...]
        set low-severity [disable|low|...]
        set medium-severity [disable|low|...]
        set high-severity [disable|low|...]
        set critical-severity [disable|low|...]
    end
    config web
        Description: Web filtering threat weight settings.
        edit <id>
            set category {integer}

```



```

        set level [disable|low|...]
    next
end
config geolocation
    Description: Geolocation-based threat weight settings.
    edit <id>
        set country {string}
        set level [disable|low|...]
    next
end
config application
    Description: Application-control threat weight settings.
    edit <id>
        set category {integer}
        set level [disable|low|...]
    next
end
end
end

```

config log threat-weight

Parameter	Description	Type	Size	Default												
status	Enable/disable the threat weight feature.	option	-	enable												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable the threat weight feature.</td></tr><tr><td><i>disable</i></td><td>Disable the threat weight feature.</td></tr></table>	Option	Description	<i>enable</i>	Enable the threat weight feature.	<i>disable</i>	Disable the threat weight feature.									
Option	Description															
<i>enable</i>	Enable the threat weight feature.															
<i>disable</i>	Disable the threat weight feature.															
blocked-connection	Threat weight score for blocked connections.	option	-	high												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable threat weight scoring for blocked connections.</td></tr><tr><td><i>low</i></td><td>Use the low level score for blocked connections.</td></tr><tr><td><i>medium</i></td><td>Use the medium level score for blocked connections.</td></tr><tr><td><i>high</i></td><td>Use the high level score for blocked connections.</td></tr><tr><td><i>critical</i></td><td>Use the critical level score for blocked connections.</td></tr></table>	Option	Description	<i>disable</i>	Disable threat weight scoring for blocked connections.	<i>low</i>	Use the low level score for blocked connections.	<i>medium</i>	Use the medium level score for blocked connections.	<i>high</i>	Use the high level score for blocked connections.	<i>critical</i>	Use the critical level score for blocked connections.			
Option	Description															
<i>disable</i>	Disable threat weight scoring for blocked connections.															
<i>low</i>	Use the low level score for blocked connections.															
<i>medium</i>	Use the medium level score for blocked connections.															
<i>high</i>	Use the high level score for blocked connections.															
<i>critical</i>	Use the critical level score for blocked connections.															
failed-connection	Threat weight score for failed connections.	option	-	low												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable threat weight scoring for failed connections.</td></tr><tr><td><i>low</i></td><td>Use the low level score for failed connections.</td></tr></table>	Option	Description	<i>disable</i>	Disable threat weight scoring for failed connections.	<i>low</i>	Use the low level score for failed connections.									
Option	Description															
<i>disable</i>	Disable threat weight scoring for failed connections.															
<i>low</i>	Use the low level score for failed connections.															

Parameter	Description	Type	Size	Default												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>medium</i></td><td>Use the medium level score for failed connections.</td></tr><tr><td><i>high</i></td><td>Use the high level score for failed connections.</td></tr><tr><td><i>critical</i></td><td>Use the critical level score for failed connections.</td></tr></table>	Option	Description	<i>medium</i>	Use the medium level score for failed connections.	<i>high</i>	Use the high level score for failed connections.	<i>critical</i>	Use the critical level score for failed connections.							
	Option	Description														
	<i>medium</i>	Use the medium level score for failed connections.														
	<i>high</i>	Use the high level score for failed connections.														
<i>critical</i>	Use the critical level score for failed connections.															
url-block-detected	Threat weight score for URL blocking.	option	-	high												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable threat weight scoring for URL blocking.</td></tr><tr><td><i>low</i></td><td>Use the low level score for URL blocking.</td></tr><tr><td><i>medium</i></td><td>Use the medium level score for URL blocking.</td></tr><tr><td><i>high</i></td><td>Use the high level score for URL blocking.</td></tr><tr><td><i>critical</i></td><td>Use the critical level score for URL blocking.</td></tr></table>	Option	Description	<i>disable</i>	Disable threat weight scoring for URL blocking.	<i>low</i>	Use the low level score for URL blocking.	<i>medium</i>	Use the medium level score for URL blocking.	<i>high</i>	Use the high level score for URL blocking.	<i>critical</i>	Use the critical level score for URL blocking.			
	Option	Description														
	<i>disable</i>	Disable threat weight scoring for URL blocking.														
	<i>low</i>	Use the low level score for URL blocking.														
	<i>medium</i>	Use the medium level score for URL blocking.														
	<i>high</i>	Use the high level score for URL blocking.														
<i>critical</i>	Use the critical level score for URL blocking.															
botnet-connection-detected	Threat weight score for detected botnet connections.	option	-	critical												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable threat weight scoring for detected botnet connections.</td></tr><tr><td><i>low</i></td><td>Use the low level score for detected botnet connections.</td></tr><tr><td><i>medium</i></td><td>Use the medium level score for detected botnet connections.</td></tr><tr><td><i>high</i></td><td>Use the high level score for detected botnet connections.</td></tr></table>	Option	Description	<i>disable</i>	Disable threat weight scoring for detected botnet connections.	<i>low</i>	Use the low level score for detected botnet connections.	<i>medium</i>	Use the medium level score for detected botnet connections.	<i>high</i>	Use the high level score for detected botnet connections.					
	Option	Description														
	<i>disable</i>	Disable threat weight scoring for detected botnet connections.														
	<i>low</i>	Use the low level score for detected botnet connections.														
	<i>medium</i>	Use the medium level score for detected botnet connections.														
<i>high</i>	Use the high level score for detected botnet connections.															
	<table><tr><td><i>critical</i></td><td>Use the critical level score for detected botnet connections.</td></tr></table>	<i>critical</i>	Use the critical level score for detected botnet connections.													
<i>critical</i>	Use the critical level score for detected botnet connections.															

config level

Parameter	Description	Type	Size	Default
low	Low level score value (1 - 100).	integer	Minimum value: 1 Maximum value: 100	5
medium	Medium level score value (1 - 100).	integer	Minimum value: 1 Maximum value: 100	10

Parameter	Description	Type	Size	Default
high	High level score value (1 - 100).	integer	Minimum value: 1 Maximum value: 100	30
critical	Critical level score value (1 - 100).	integer	Minimum value: 1 Maximum value: 100	50

config malware

Parameter	Description	Type	Size	Default												
virus-infected	Threat weight score for virus (infected) detected.	option	-	critical												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>Disable threat weight scoring for virus (infected) detected.</td></tr><tr><td>low</td><td>Use the low level score for virus (infected) detected.</td></tr><tr><td>medium</td><td>Use the medium level score for virus (infected) detected.</td></tr><tr><td>high</td><td>Use the high level score for virus (infected) detected.</td></tr><tr><td>critical</td><td>Use the critical level score for virus (infected) detected.</td></tr></table>	Option	Description	disable	Disable threat weight scoring for virus (infected) detected.	low	Use the low level score for virus (infected) detected.	medium	Use the medium level score for virus (infected) detected.	high	Use the high level score for virus (infected) detected.	critical	Use the critical level score for virus (infected) detected.			
Option	Description															
disable	Disable threat weight scoring for virus (infected) detected.															
low	Use the low level score for virus (infected) detected.															
medium	Use the medium level score for virus (infected) detected.															
high	Use the high level score for virus (infected) detected.															
critical	Use the critical level score for virus (infected) detected.															
inline-block	Threat weight score for malware detected by inline block.	option	-	critical												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>Disable threat weight scoring for virus detected by inline block.</td></tr><tr><td>low</td><td>Use the low level score for virus detected by inline block.</td></tr><tr><td>medium</td><td>Use the medium level score for virus detected by inline block.</td></tr><tr><td>high</td><td>Use the high level score for virus detected by inline block.</td></tr><tr><td>critical</td><td>Use the critical level score for virus detected by inline block.</td></tr></table>	Option	Description	disable	Disable threat weight scoring for virus detected by inline block.	low	Use the low level score for virus detected by inline block.	medium	Use the medium level score for virus detected by inline block.	high	Use the high level score for virus detected by inline block.	critical	Use the critical level score for virus detected by inline block.			
Option	Description															
disable	Disable threat weight scoring for virus detected by inline block.															
low	Use the low level score for virus detected by inline block.															
medium	Use the medium level score for virus detected by inline block.															
high	Use the high level score for virus detected by inline block.															
critical	Use the critical level score for virus detected by inline block.															
file-blocked	Threat weight score for blocked file detected.	option	-	low												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>Disable threat weight scoring for blocked file detected.</td></tr><tr><td>low</td><td>Use the low level score for blocked file detected.</td></tr><tr><td>medium</td><td>Use the medium level score for blocked file detected.</td></tr></table>	Option	Description	disable	Disable threat weight scoring for blocked file detected.	low	Use the low level score for blocked file detected.	medium	Use the medium level score for blocked file detected.							
Option	Description															
disable	Disable threat weight scoring for blocked file detected.															
low	Use the low level score for blocked file detected.															
medium	Use the medium level score for blocked file detected.															

Parameter	Description	Type	Size	Default												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>high</i></td><td>Use the high level score for blocked file detected.</td></tr><tr><td><i>critical</i></td><td>Use the critical level score for blocked file detected.</td></tr></table>	Option	Description	<i>high</i>	Use the high level score for blocked file detected.	<i>critical</i>	Use the critical level score for blocked file detected.									
	Option	Description														
	<i>high</i>	Use the high level score for blocked file detected.														
<i>critical</i>	Use the critical level score for blocked file detected.															
command-blocked	Threat weight score for blocked command detected.	option	-	disable												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable threat weight scoring for blocked command detected.</td></tr><tr><td><i>low</i></td><td>Use the low level score for blocked command detected.</td></tr><tr><td><i>medium</i></td><td>Use the medium level score for blocked command detected.</td></tr><tr><td><i>high</i></td><td>Use the high level score for blocked command detected.</td></tr><tr><td><i>critical</i></td><td>Use the critical level score for blocked command detected.</td></tr></table>	Option	Description	<i>disable</i>	Disable threat weight scoring for blocked command detected.	<i>low</i>	Use the low level score for blocked command detected.	<i>medium</i>	Use the medium level score for blocked command detected.	<i>high</i>	Use the high level score for blocked command detected.	<i>critical</i>	Use the critical level score for blocked command detected.			
	Option	Description														
	<i>disable</i>	Disable threat weight scoring for blocked command detected.														
	<i>low</i>	Use the low level score for blocked command detected.														
	<i>medium</i>	Use the medium level score for blocked command detected.														
	<i>high</i>	Use the high level score for blocked command detected.														
<i>critical</i>	Use the critical level score for blocked command detected.															
oversized	Threat weight score for oversized file detected.	option	-	disable												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable threat weight scoring for oversized file detected.</td></tr><tr><td><i>low</i></td><td>Use the low level score for oversized file detected.</td></tr><tr><td><i>medium</i></td><td>Use the medium level score for oversized file detected.</td></tr><tr><td><i>high</i></td><td>Use the high level score for oversized file detected.</td></tr><tr><td><i>critical</i></td><td>Use the critical level score for oversized file detected.</td></tr></table>	Option	Description	<i>disable</i>	Disable threat weight scoring for oversized file detected.	<i>low</i>	Use the low level score for oversized file detected.	<i>medium</i>	Use the medium level score for oversized file detected.	<i>high</i>	Use the high level score for oversized file detected.	<i>critical</i>	Use the critical level score for oversized file detected.			
	Option	Description														
	<i>disable</i>	Disable threat weight scoring for oversized file detected.														
	<i>low</i>	Use the low level score for oversized file detected.														
	<i>medium</i>	Use the medium level score for oversized file detected.														
	<i>high</i>	Use the high level score for oversized file detected.														
<i>critical</i>	Use the critical level score for oversized file detected.															
virus-scan-error	Threat weight score for virus (scan error) detected.	option	-	high												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable threat weight scoring for virus (scan error) detected.</td></tr><tr><td><i>low</i></td><td>Use the low level score for virus (scan error) detected.</td></tr><tr><td><i>medium</i></td><td>Use the medium level score for virus (scan error) detected.</td></tr><tr><td><i>high</i></td><td>Use the high level score for virus (scan error) detected.</td></tr><tr><td><i>critical</i></td><td>Use the critical level score for virus (scan error) detected.</td></tr></table>	Option	Description	<i>disable</i>	Disable threat weight scoring for virus (scan error) detected.	<i>low</i>	Use the low level score for virus (scan error) detected.	<i>medium</i>	Use the medium level score for virus (scan error) detected.	<i>high</i>	Use the high level score for virus (scan error) detected.	<i>critical</i>	Use the critical level score for virus (scan error) detected.			
	Option	Description														
	<i>disable</i>	Disable threat weight scoring for virus (scan error) detected.														
	<i>low</i>	Use the low level score for virus (scan error) detected.														
	<i>medium</i>	Use the medium level score for virus (scan error) detected.														
	<i>high</i>	Use the high level score for virus (scan error) detected.														
<i>critical</i>	Use the critical level score for virus (scan error) detected.															
switch-proto	Threat weight score for switch proto detected.	option	-	disable												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable threat weight scoring for switch proto detected.</td></tr><tr><td><i>low</i></td><td>Use the low level score for switch proto detected.</td></tr></table>	Option	Description	<i>disable</i>	Disable threat weight scoring for switch proto detected.	<i>low</i>	Use the low level score for switch proto detected.									
	Option	Description														
	<i>disable</i>	Disable threat weight scoring for switch proto detected.														
<i>low</i>	Use the low level score for switch proto detected.															

Parameter	Description	Type	Size	Default												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>medium</i></td><td>Use the medium level score for switch proto detected.</td></tr><tr><td><i>high</i></td><td>Use the high level score for switch proto detected.</td></tr><tr><td><i>critical</i></td><td>Use the critical level score for switch proto detected.</td></tr></table>	Option	Description	<i>medium</i>	Use the medium level score for switch proto detected.	<i>high</i>	Use the high level score for switch proto detected.	<i>critical</i>	Use the critical level score for switch proto detected.							
	Option	Description														
	<i>medium</i>	Use the medium level score for switch proto detected.														
	<i>high</i>	Use the high level score for switch proto detected.														
<i>critical</i>	Use the critical level score for switch proto detected.															
mimefragmented	Threat weight score for mimefragmented detected.	option	-	disable												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable threat weight scoring for mimefragmented detected.</td></tr><tr><td><i>low</i></td><td>Use the low level score for mimefragmented detected.</td></tr><tr><td><i>medium</i></td><td>Use the medium level score for mimefragmented detected.</td></tr><tr><td><i>high</i></td><td>Use the high level score for mimefragmented detected.</td></tr><tr><td><i>critical</i></td><td>Use the critical level score for mimefragmented detected.</td></tr></table>	Option	Description	<i>disable</i>	Disable threat weight scoring for mimefragmented detected.	<i>low</i>	Use the low level score for mimefragmented detected.	<i>medium</i>	Use the medium level score for mimefragmented detected.	<i>high</i>	Use the high level score for mimefragmented detected.	<i>critical</i>	Use the critical level score for mimefragmented detected.			
	Option	Description														
	<i>disable</i>	Disable threat weight scoring for mimefragmented detected.														
	<i>low</i>	Use the low level score for mimefragmented detected.														
	<i>medium</i>	Use the medium level score for mimefragmented detected.														
	<i>high</i>	Use the high level score for mimefragmented detected.														
<i>critical</i>	Use the critical level score for mimefragmented detected.															
virus-file-type-executable	Threat weight score for virus (file type executable) detected.	option	-	medium												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable threat weight scoring for virus (filetype executable) detected.</td></tr><tr><td><i>low</i></td><td>Use the low level score for virus (filetype executable) detected.</td></tr><tr><td><i>medium</i></td><td>Use the medium level score for virus (filetype executable) detected.</td></tr><tr><td><i>high</i></td><td>Use the high level score for virus (filetype executable) detected.</td></tr><tr><td><i>critical</i></td><td>Use the critical level score for virus (filetype executable) detected.</td></tr></table>	Option	Description	<i>disable</i>	Disable threat weight scoring for virus (filetype executable) detected.	<i>low</i>	Use the low level score for virus (filetype executable) detected.	<i>medium</i>	Use the medium level score for virus (filetype executable) detected.	<i>high</i>	Use the high level score for virus (filetype executable) detected.	<i>critical</i>	Use the critical level score for virus (filetype executable) detected.			
	Option	Description														
	<i>disable</i>	Disable threat weight scoring for virus (filetype executable) detected.														
	<i>low</i>	Use the low level score for virus (filetype executable) detected.														
	<i>medium</i>	Use the medium level score for virus (filetype executable) detected.														
	<i>high</i>	Use the high level score for virus (filetype executable) detected.														
<i>critical</i>	Use the critical level score for virus (filetype executable) detected.															
virus-outbreak-prevention	Threat weight score for virus (outbreak prevention) event.	option	-	critical												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable threat weight scoring for virus (outbreak prevention) event.</td></tr><tr><td><i>low</i></td><td>Use the low level score for virus (outbreak prevention) event.</td></tr><tr><td><i>medium</i></td><td>Use the medium level score for virus (outbreak prevention) event.</td></tr><tr><td><i>high</i></td><td>Use the high level score for virus (outbreak prevention) event.</td></tr><tr><td><i>critical</i></td><td>Use the critical level score for virus (outbreak prevention) event.</td></tr></table>	Option	Description	<i>disable</i>	Disable threat weight scoring for virus (outbreak prevention) event.	<i>low</i>	Use the low level score for virus (outbreak prevention) event.	<i>medium</i>	Use the medium level score for virus (outbreak prevention) event.	<i>high</i>	Use the high level score for virus (outbreak prevention) event.	<i>critical</i>	Use the critical level score for virus (outbreak prevention) event.			
	Option	Description														
	<i>disable</i>	Disable threat weight scoring for virus (outbreak prevention) event.														
	<i>low</i>	Use the low level score for virus (outbreak prevention) event.														
	<i>medium</i>	Use the medium level score for virus (outbreak prevention) event.														
	<i>high</i>	Use the high level score for virus (outbreak prevention) event.														
<i>critical</i>	Use the critical level score for virus (outbreak prevention) event.															
content-disarm	Threat weight score for virus (content disarm) detected.	option	-	medium												

Parameter	Description	Type	Size	Default												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable threat weight scoring for virus (content disarm) detected.</td></tr><tr><td><i>low</i></td><td>Use the low level score for virus (content disarm) detected.</td></tr><tr><td><i>medium</i></td><td>Use the medium level score for virus (content disarm) detected.</td></tr><tr><td><i>high</i></td><td>Use the high level score for virus (content disarm) detected.</td></tr><tr><td><i>critical</i></td><td>Use the critical level score for virus (content disarm) detected.</td></tr></table>	Option	Description	<i>disable</i>	Disable threat weight scoring for virus (content disarm) detected.	<i>low</i>	Use the low level score for virus (content disarm) detected.	<i>medium</i>	Use the medium level score for virus (content disarm) detected.	<i>high</i>	Use the high level score for virus (content disarm) detected.	<i>critical</i>	Use the critical level score for virus (content disarm) detected.			
	Option	Description														
	<i>disable</i>	Disable threat weight scoring for virus (content disarm) detected.														
	<i>low</i>	Use the low level score for virus (content disarm) detected.														
	<i>medium</i>	Use the medium level score for virus (content disarm) detected.														
	<i>high</i>	Use the high level score for virus (content disarm) detected.														
	<i>critical</i>	Use the critical level score for virus (content disarm) detected.														
malware-list	Threat weight score for virus (malware list) detected.	option	-	medium												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable threat weight scoring for virus (malware list) detected.</td></tr><tr><td><i>low</i></td><td>Use the low level score for virus (malware list) detected.</td></tr><tr><td><i>medium</i></td><td>Use the medium level score for virus (malware list) detected.</td></tr><tr><td><i>high</i></td><td>Use the high level score for virus (malware list) detected.</td></tr><tr><td><i>critical</i></td><td>Use the critical level score for virus (malware list) detected.</td></tr></table>	Option	Description	<i>disable</i>	Disable threat weight scoring for virus (malware list) detected.	<i>low</i>	Use the low level score for virus (malware list) detected.	<i>medium</i>	Use the medium level score for virus (malware list) detected.	<i>high</i>	Use the high level score for virus (malware list) detected.	<i>critical</i>	Use the critical level score for virus (malware list) detected.			
	Option	Description														
	<i>disable</i>	Disable threat weight scoring for virus (malware list) detected.														
	<i>low</i>	Use the low level score for virus (malware list) detected.														
	<i>medium</i>	Use the medium level score for virus (malware list) detected.														
	<i>high</i>	Use the high level score for virus (malware list) detected.														
	<i>critical</i>	Use the critical level score for virus (malware list) detected.														
ems-threat-feed	Threat weight score for virus (EMS threat feed) detected.	option	-	medium												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable threat weight scoring for virus (EMS threat feed) detected.</td></tr><tr><td><i>low</i></td><td>Use the low level score for virus (EMS threat feed) detected.</td></tr><tr><td><i>medium</i></td><td>Use the medium level score for virus (EMS threat feed) detected.</td></tr><tr><td><i>high</i></td><td>Use the high level score for virus (EMS threat feed) detected.</td></tr><tr><td><i>critical</i></td><td>Use the critical level score for virus (EMS threat feed) detected.</td></tr></table>	Option	Description	<i>disable</i>	Disable threat weight scoring for virus (EMS threat feed) detected.	<i>low</i>	Use the low level score for virus (EMS threat feed) detected.	<i>medium</i>	Use the medium level score for virus (EMS threat feed) detected.	<i>high</i>	Use the high level score for virus (EMS threat feed) detected.	<i>critical</i>	Use the critical level score for virus (EMS threat feed) detected.			
	Option	Description														
	<i>disable</i>	Disable threat weight scoring for virus (EMS threat feed) detected.														
	<i>low</i>	Use the low level score for virus (EMS threat feed) detected.														
	<i>medium</i>	Use the medium level score for virus (EMS threat feed) detected.														
	<i>high</i>	Use the high level score for virus (EMS threat feed) detected.														
	<i>critical</i>	Use the critical level score for virus (EMS threat feed) detected.														
fsa-malicious	Threat weight score for FortiSandbox malicious malware detected.	option	-	critical												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable threat weight scoring for FortiSandbox malicious malware detected.</td></tr><tr><td><i>low</i></td><td>Use the low level score for FortiSandbox malicious malware detected.</td></tr><tr><td><i>medium</i></td><td>Use the medium level score for FortiSandbox malicious malware detected.</td></tr><tr><td><i>high</i></td><td>Use the high level score for FortiSandbox malicious malware detected.</td></tr></table>	Option	Description	<i>disable</i>	Disable threat weight scoring for FortiSandbox malicious malware detected.	<i>low</i>	Use the low level score for FortiSandbox malicious malware detected.	<i>medium</i>	Use the medium level score for FortiSandbox malicious malware detected.	<i>high</i>	Use the high level score for FortiSandbox malicious malware detected.					
	Option	Description														
	<i>disable</i>	Disable threat weight scoring for FortiSandbox malicious malware detected.														
	<i>low</i>	Use the low level score for FortiSandbox malicious malware detected.														
	<i>medium</i>	Use the medium level score for FortiSandbox malicious malware detected.														
<i>high</i>	Use the high level score for FortiSandbox malicious malware detected.															

Parameter	Description	Type	Size	Default													
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>critical</i></td><td>Use the critical level score for FortiSandbox malicious malware detected.</td></tr></table>		Option	Description	<i>critical</i>	Use the critical level score for FortiSandbox malicious malware detected.											
	Option	Description															
<i>critical</i>	Use the critical level score for FortiSandbox malicious malware detected.																
fsa-high-risk	Threat weight score for FortiSandbox high risk malware detected.	option	-	high													
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable threat weight scoring for FortiSandbox high risk malware detected.</td></tr><tr><td><i>low</i></td><td>Use the low level score for FortiSandbox high risk malware detected.</td></tr><tr><td><i>medium</i></td><td>Use the medium level score for FortiSandbox high risk malware detected.</td></tr><tr><td><i>high</i></td><td>Use the high level score for FortiSandbox high risk malware detected.</td></tr><tr><td><i>critical</i></td><td>Use the critical level score for FortiSandbox high risk malware detected.</td></tr></table>		Option	Description	<i>disable</i>	Disable threat weight scoring for FortiSandbox high risk malware detected.	<i>low</i>	Use the low level score for FortiSandbox high risk malware detected.	<i>medium</i>	Use the medium level score for FortiSandbox high risk malware detected.	<i>high</i>	Use the high level score for FortiSandbox high risk malware detected.	<i>critical</i>	Use the critical level score for FortiSandbox high risk malware detected.			
	Option	Description															
	<i>disable</i>	Disable threat weight scoring for FortiSandbox high risk malware detected.															
	<i>low</i>	Use the low level score for FortiSandbox high risk malware detected.															
	<i>medium</i>	Use the medium level score for FortiSandbox high risk malware detected.															
	<i>high</i>	Use the high level score for FortiSandbox high risk malware detected.															
<i>critical</i>	Use the critical level score for FortiSandbox high risk malware detected.																
fsa-medium-risk	Threat weight score for FortiSandbox medium risk malware detected.	option	-	medium													
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable threat weight scoring for FortiSandbox medium risk malware detected.</td></tr><tr><td><i>low</i></td><td>Use the low level score for FortiSandbox medium risk malware detected.</td></tr><tr><td><i>medium</i></td><td>Use the medium level score for FortiSandbox medium risk malware detected.</td></tr><tr><td><i>high</i></td><td>Use the high level score for FortiSandbox medium risk malware detected.</td></tr><tr><td><i>critical</i></td><td>Use the critical level score for FortiSandbox medium risk malware detected.</td></tr></table>		Option	Description	<i>disable</i>	Disable threat weight scoring for FortiSandbox medium risk malware detected.	<i>low</i>	Use the low level score for FortiSandbox medium risk malware detected.	<i>medium</i>	Use the medium level score for FortiSandbox medium risk malware detected.	<i>high</i>	Use the high level score for FortiSandbox medium risk malware detected.	<i>critical</i>	Use the critical level score for FortiSandbox medium risk malware detected.			
	Option	Description															
	<i>disable</i>	Disable threat weight scoring for FortiSandbox medium risk malware detected.															
	<i>low</i>	Use the low level score for FortiSandbox medium risk malware detected.															
	<i>medium</i>	Use the medium level score for FortiSandbox medium risk malware detected.															
	<i>high</i>	Use the high level score for FortiSandbox medium risk malware detected.															
<i>critical</i>	Use the critical level score for FortiSandbox medium risk malware detected.																

config ips

Parameter	Description	Type	Size	Default										
info-severity	Threat weight score for IPS info severity events.	option	-	disable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable threat weight scoring for IPS info severity events.</td></tr><tr><td><i>low</i></td><td>Use the low level score for IPS info severity events.</td></tr><tr><td><i>medium</i></td><td>Use the medium level score for IPS info severity events.</td></tr><tr><td><i>high</i></td><td>Use the high level score for IPS info severity events.</td></tr></table>				Option	Description	<i>disable</i>	Disable threat weight scoring for IPS info severity events.	<i>low</i>	Use the low level score for IPS info severity events.	<i>medium</i>	Use the medium level score for IPS info severity events.	<i>high</i>	Use the high level score for IPS info severity events.
	Option	Description												
	<i>disable</i>	Disable threat weight scoring for IPS info severity events.												
	<i>low</i>	Use the low level score for IPS info severity events.												
	<i>medium</i>	Use the medium level score for IPS info severity events.												
<i>high</i>	Use the high level score for IPS info severity events.													

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>critical</i>	Use the critical level score for IPS info severity events.		
low-severity	Threat weight score for IPS low severity events.	option	-	low
	Option	Description		
	<i>disable</i>	Disable threat weight scoring for IPS low severity events.		
	<i>low</i>	Use the low level score for IPS low severity events.		
	<i>medium</i>	Use the medium level score for IPS low severity events.		
	<i>high</i>	Use the high level score for IPS low severity events.		
	<i>critical</i>	Use the critical level score for IPS low severity events.		
medium-severity	Threat weight score for IPS medium severity events.	option	-	medium
	Option	Description		
	<i>disable</i>	Disable threat weight scoring for IPS medium severity events.		
	<i>low</i>	Use the low level score for IPS medium severity events.		
	<i>medium</i>	Use the medium level score for IPS medium severity events.		
	<i>high</i>	Use the high level score for IPS medium severity events.		
	<i>critical</i>	Use the critical level score for IPS medium severity events.		
high-severity	Threat weight score for IPS high severity events.	option	-	high
	Option	Description		
	<i>disable</i>	Disable threat weight scoring for IPS high severity events.		
	<i>low</i>	Use the low level score for IPS high severity events.		
	<i>medium</i>	Use the medium level score for IPS high severity events.		
	<i>high</i>	Use the high level score for IPS high severity events.		
	<i>critical</i>	Use the critical level score for IPS high severity events.		
critical-severity	Threat weight score for IPS critical severity events.	option	-	critical
	Option	Description		
	<i>disable</i>	Disable threat weight scoring for IPS critical severity events.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>low</i>	Use the low level score for IPS critical severity events.		
	<i>medium</i>	Use the medium level score for IPS critical severity events.		
	<i>high</i>	Use the high level score for IPS critical severity events.		
	<i>critical</i>	Use the critical level score for IPS critical severity events.		

config web

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 255	0
category	Threat weight score for web category filtering matches.	integer	Minimum value: 0 Maximum value: 255	0
level	Threat weight score for web category filtering matches.	option	-	low
	Option	Description		
	<i>disable</i>	Disable threat weight scoring for web category filtering matches.		
	<i>low</i>	Use the low level score for web category filtering matches.		
	<i>medium</i>	Use the medium level score for web category filtering matches.		
	<i>high</i>	Use the high level score for web category filtering matches.		
	<i>critical</i>	Use the critical level score for web category filtering matches.		

config geolocation

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 255	0
country	Country code.	string	Maximum length: 2	
level	Threat weight score for Geolocation-based events.	option	-	low

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable threat weight scoring for Geolocation-based events.		
	<i>low</i>	Use the low level score for Geolocation-based events.		
	<i>medium</i>	Use the medium level score for Geolocation-based events.		
	<i>high</i>	Use the high level score for Geolocation-based events.		
	<i>critical</i>	Use the critical level score for Geolocation-based events.		

config application

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 255	0
category	Application category.	integer	Minimum value: 0 Maximum value: 65535	0
level	Threat weight score for Application events.	option	-	low
	Option	Description		
	<i>disable</i>	Disable threat weight scoring for Application events.		
	<i>low</i>	Use the low level score for Application events.		
	<i>medium</i>	Use the medium level score for Application events.		
	<i>high</i>	Use the high level score for Application events.		
	<i>critical</i>	Use the critical level score for Application events.		

config log webtrends filter

Filters for WebTrends.

```
config log webtrends filter
  Description: Filters for WebTrends.
  set severity [emergency|alert|...]
  set forward-traffic [enable|disable]
  set local-traffic [enable|disable]
  set multicast-traffic [enable|disable]
  set sniffer-traffic [enable|disable]
```

```

set ztna-traffic [enable|disable]
set http-transaction [enable|disable]
set anomaly [enable|disable]
set voip [enable|disable]
set forti-switch [enable|disable]
config free-style
    Description: Free style filters.
    edit <id>
        set category [traffic|event|...]
        set filter {string}
        set filter-type [include|exclude]
    next
end
end

```

config log webtrends filter

Parameter	Description	Type	Size	Default																		
severity	Lowest severity level to log to WebTrends.	option	-	information																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>emergency</i></td><td>Emergency level.</td></tr><tr><td><i>alert</i></td><td>Alert level.</td></tr><tr><td><i>critical</i></td><td>Critical level.</td></tr><tr><td><i>error</i></td><td>Error level.</td></tr><tr><td><i>warning</i></td><td>Warning level.</td></tr><tr><td><i>notification</i></td><td>Notification level.</td></tr><tr><td><i>information</i></td><td>Information level.</td></tr><tr><td><i>debug</i></td><td>Debug level.</td></tr></table>	Option	Description	<i>emergency</i>	Emergency level.	<i>alert</i>	Alert level.	<i>critical</i>	Critical level.	<i>error</i>	Error level.	<i>warning</i>	Warning level.	<i>notification</i>	Notification level.	<i>information</i>	Information level.	<i>debug</i>	Debug level.			
Option	Description																					
<i>emergency</i>	Emergency level.																					
<i>alert</i>	Alert level.																					
<i>critical</i>	Critical level.																					
<i>error</i>	Error level.																					
<i>warning</i>	Warning level.																					
<i>notification</i>	Notification level.																					
<i>information</i>	Information level.																					
<i>debug</i>	Debug level.																					
forward-traffic	Enable/disable forward traffic logging.	option	-	enable																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable forward traffic logging.</td></tr><tr><td><i>disable</i></td><td>Disable forward traffic logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable forward traffic logging.	<i>disable</i>	Disable forward traffic logging.															
Option	Description																					
<i>enable</i>	Enable forward traffic logging.																					
<i>disable</i>	Disable forward traffic logging.																					
local-traffic	Enable/disable local in or out traffic logging.	option	-	enable																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable local in or out traffic logging.</td></tr><tr><td><i>disable</i></td><td>Disable local in or out traffic logging.</td></tr></table>	Option	Description	<i>enable</i>	Enable local in or out traffic logging.	<i>disable</i>	Disable local in or out traffic logging.															
Option	Description																					
<i>enable</i>	Enable local in or out traffic logging.																					
<i>disable</i>	Disable local in or out traffic logging.																					
multicast-traffic	Enable/disable multicast traffic logging.	option	-	enable																		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable multicast traffic logging.		
	<i>disable</i>	Disable multicast traffic logging.		
sniffer-traffic	Enable/disable sniffer traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable sniffer traffic logging.		
	<i>disable</i>	Disable sniffer traffic logging.		
ztna-traffic	Enable/disable ztna traffic logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable ztna traffic logging.		
	<i>disable</i>	Disable ztna traffic logging.		
http-transaction	Enable/disable log http-transaction messages.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable http transaction logging.		
	<i>disable</i>	Disable http transaction logging.		
anomaly	Enable/disable anomaly logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable anomaly logging.		
	<i>disable</i>	Disable anomaly logging.		
voip	Enable/disable VoIP logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable VoIP logging.		
	<i>disable</i>	Disable VoIP logging.		
forti-switch	Enable/disable Forti-Switch logging.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable Forti-Switch logging.		
	<i>disable</i>	Disable Forti-Switch logging.		

config free-style

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
category	Log category.	option	-	traffic
	Option	Description		
	<i>traffic</i>	Traffic log.		
	<i>event</i>	Event log.		
	<i>virus</i>	Antivirus log.		
	<i>webfilter</i>	Web filter log.		
	<i>attack</i>	Attack log.		
	<i>spam</i>	Antispam log.		
	<i>anomaly</i>	Anomaly log.		
	<i>voip</i>	VoIP log.		
	<i>dlp</i>	DLP log.		
	<i>app-ctrl</i>	Application control log.		
	<i>waf</i>	Web application firewall log.		
	<i>dns</i>	DNS detail log.		
	<i>ssh</i>	SSH log.		
	<i>ssl</i>	SSL log.		
	<i>file-filter</i>	File filter log.		
	<i>icap</i>	ICAP log.		
<i>virtual-patch</i>	Virtual patch log.			
filter	Free style filter string.	string	Maximum length: 1023	
filter-type	Include/exclude logs that match the filter.	option	-	include
	Option	Description		
	<i>include</i>	Include logs that match the filter.		
	<i>exclude</i>	Exclude logs that match the filter.		

config log webtrends setting

Settings for WebTrends.

```
config log webtrends setting
    Description: Settings for WebTrends.
    set status [enable|disable]
    set server {string}
end
```

config log webtrends setting

Parameter	Description	Type	Size	Default
status	Enable/disable logging to WebTrends.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable logging to WebTrends.		
	<i>disable</i>	Disable logging to WebTrends.		
server	Address of the remote WebTrends server.	string	Maximum length: 63	

mgmt-data

This section includes syntax for the following commands:

- [config mgmt-data status on page 691](#)

config mgmt-data status

Status for mgmt-data.

```
config mgmt-data status
    Description: Status for mgmt-data.
end
```

oaas

This section includes syntax for the following commands:

- [config oaas status on page 692](#)

config oaas status

Display detailed overlay-as-a-service status.

```
config oaas status
    Description: Display detailed overlay-as-a-service status.
end
```


report

This section includes syntax for the following commands:

- [config report layout on page 693](#)
- [config report setting on page 701](#)
- [config report sql status on page 702](#)

config report layout

Report layout configuration.

```
config report layout
  Description: Report layout configuration.
  edit <name>
    set title {string}
    set subtitle {string}
    set description {string}
    set style-theme {string}
    set options {option1}, {option2}, ...
    set format {option1}, {option2}, ...
    set schedule-type [demand|daily|...]
    set day [sunday|monday|...]
    set time {user}
    set cutoff-option [run-time|custom]
    set cutoff-time {user}
    set email-send [enable|disable]
    set email-recipients {string}
    set max-pdf-report {integer}
  config page
    Description: Configure report page.
    set paper [a4|letter]
    set column-break-before {option1}, {option2}, ...
    set page-break-before {option1}, {option2}, ...
    set options {option1}, {option2}, ...
  config header
    Description: Configure report page header.
    set style {string}
  config header-item
    Description: Configure report header item.
    edit <id>
      set description {string}
      set type [text|image]
      set style {string}
      set content {string}
      set img-src {string}
    next
  end
end
```

```

config footer
    Description: Configure report page footer.
    set style {string}
    config footer-item
        Description: Configure report footer item.
        edit <id>
            set description {string}
            set type [text|image]
            set style {string}
            set content {string}
            set img-src {string}
        next
    end
end
end
config body-item
    Description: Configure report body item.
    edit <id>
        set description {string}
        set type [text|image|...]
        set style {string}
        set top-n {integer}
        config parameters
            Description: Parameters.
            edit <id>
                set name {string}
                set value {string}
            next
        end
        set text-component [text|heading1|...]
        set content {string}
        set img-src {string}
        set chart {string}
        set chart-options {option1}, {option2}, ...
        set misc-component [hline|page-break|...]
        set title {string}
    next
end
next
end
end

```

config report layout

Parameter	Description	Type	Size	Default
name	Report layout name.	string	Maximum length: 35	
title	Report title.	string	Maximum length: 127	
subtitle	Report subtitle.	string	Maximum length: 127	

Parameter	Description	Type	Size	Default												
description	Description.	string	Maximum length: 127													
style-theme	Report style theme.	string	Maximum length: 35													
options	Report layout options.	option	-	include-table-of-content auto-numbering-heading view-chart-as-heading												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>include-table-of-content</i></td><td>Include table of content in the report.</td></tr><tr><td><i>auto-numbering-heading</i></td><td>Prepend heading with auto numbering.</td></tr><tr><td><i>view-chart-as-heading</i></td><td>Auto add heading for each chart.</td></tr><tr><td><i>show-html-navbar-before-heading</i></td><td>Show HTML navigation bar before each heading.</td></tr><tr><td><i>dummy-option</i></td><td>Use this option if you need none of the above options.</td></tr></table>				Option	Description	<i>include-table-of-content</i>	Include table of content in the report.	<i>auto-numbering-heading</i>	Prepend heading with auto numbering.	<i>view-chart-as-heading</i>	Auto add heading for each chart.	<i>show-html-navbar-before-heading</i>	Show HTML navigation bar before each heading.	<i>dummy-option</i>	Use this option if you need none of the above options.
Option	Description															
<i>include-table-of-content</i>	Include table of content in the report.															
<i>auto-numbering-heading</i>	Prepend heading with auto numbering.															
<i>view-chart-as-heading</i>	Auto add heading for each chart.															
<i>show-html-navbar-before-heading</i>	Show HTML navigation bar before each heading.															
<i>dummy-option</i>	Use this option if you need none of the above options.															
format	Report format.	option	-	pdf												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>pdf</i></td><td>PDF.</td></tr></table>				Option	Description	<i>pdf</i>	PDF.								
Option	Description															
<i>pdf</i>	PDF.															
schedule-type	Report schedule type.	option	-	daily												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>demand</i></td><td>Run on demand.</td></tr><tr><td><i>daily</i></td><td>Schedule daily.</td></tr><tr><td><i>weekly</i></td><td>Schedule weekly.</td></tr></table>				Option	Description	<i>demand</i>	Run on demand.	<i>daily</i>	Schedule daily.	<i>weekly</i>	Schedule weekly.				
Option	Description															
<i>demand</i>	Run on demand.															
<i>daily</i>	Schedule daily.															
<i>weekly</i>	Schedule weekly.															
day	Schedule days of week to generate report.	option	-	sunday												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>sunday</i></td><td>Sunday.</td></tr></table>				Option	Description	<i>sunday</i>	Sunday.								
Option	Description															
<i>sunday</i>	Sunday.															

Parameter	Description	Type	Size	Default														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>monday</i></td><td>Monday.</td></tr><tr><td><i>tuesday</i></td><td>Tuesday.</td></tr><tr><td><i>wednesday</i></td><td>Wednesday.</td></tr><tr><td><i>thursday</i></td><td>Thursday.</td></tr><tr><td><i>friday</i></td><td>Friday.</td></tr><tr><td><i>saturday</i></td><td>Saturday.</td></tr></table>	Option	Description	<i>monday</i>	Monday.	<i>tuesday</i>	Tuesday.	<i>wednesday</i>	Wednesday.	<i>thursday</i>	Thursday.	<i>friday</i>	Friday.	<i>saturday</i>	Saturday.			
	Option	Description																
	<i>monday</i>	Monday.																
	<i>tuesday</i>	Tuesday.																
	<i>wednesday</i>	Wednesday.																
	<i>thursday</i>	Thursday.																
	<i>friday</i>	Friday.																
<i>saturday</i>	Saturday.																	
time	Schedule time to generate report (format = hh:mm).	user	Not Specified															
cutoff-option	Cutoff-option is either run-time or custom.	option	-	run-time														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>run-time</i></td><td>Run time.</td></tr><tr><td><i>custom</i></td><td>Custom.</td></tr></table>	Option	Description	<i>run-time</i>	Run time.	<i>custom</i>	Custom.											
	Option	Description																
	<i>run-time</i>	Run time.																
<i>custom</i>	Custom.																	
cutoff-time	Custom cutoff time to generate report (format = hh:mm).	user	Not Specified															
email-send	Enable/disable sending emails after reports are generated.	option	-	disable														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable sending emails after generating reports.</td></tr><tr><td><i>disable</i></td><td>Disable sending emails after generating reports.</td></tr></table>	Option	Description	<i>enable</i>	Enable sending emails after generating reports.	<i>disable</i>	Disable sending emails after generating reports.											
	Option	Description																
	<i>enable</i>	Enable sending emails after generating reports.																
<i>disable</i>	Disable sending emails after generating reports.																	
email-recipients	Email recipients for generated reports.	string	Maximum length: 511															
max-pdf-report	Maximum number of PDF reports to keep at one time (oldest report is overwritten).	integer	Minimum value: 1 Maximum value: 365	31														

config page

Parameter	Description	Type	Size	Default
paper	Report page paper.	option	-	a4

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>a4</i>	A4 paper.		
	<i>letter</i>	Letter paper.		
column-break-before	Report page auto column break before heading.	option	-	
	Option	Description		
	<i>heading1</i>	Column break before heading 1.		
	<i>heading2</i>	Column break before heading 2.		
	<i>heading3</i>	Column break before heading 3.		
page-break-before	Report page auto page break before heading.	option	-	
	Option	Description		
	<i>heading1</i>	Page break before heading 1.		
	<i>heading2</i>	Page break before heading 2.		
	<i>heading3</i>	Page break before heading 3.		
options	Report page options.	option	-	
	Option	Description		
	<i>header-on-first-page</i>	Show header on first page.		
	<i>footer-on-first-page</i>	Show footer on first page.		

config header

Parameter	Description	Type	Size	Default
style	Report header style.	string	Maximum length: 71	

config header-item

Parameter	Description	Type	Size	Default						
id	Report item ID.	integer	Minimum value: 0 Maximum value: 4294967295	0						
description	Description.	string	Maximum length: 63							
type	Report item type.	option	-	text						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>text</i></td><td>Text.</td></tr><tr><td><i>image</i></td><td>Image.</td></tr></table>				Option	Description	<i>text</i>	Text.	<i>image</i>	Image.
	Option	Description								
	<i>text</i>	Text.								
<i>image</i>	Image.									
style	Report item style.	string	Maximum length: 71							
content	Report item text content.	string	Maximum length: 511							
img-src	Report item image file name.	string	Maximum length: 127							

config footer

Parameter	Description	Type	Size	Default
style	Report footer style.	string	Maximum length: 71	

config footer-item

Parameter	Description	Type	Size	Default
id	Report item ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
description	Description.	string	Maximum length: 63	
type	Report item type.	option	-	text

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>text</i>	Text.		
	<i>image</i>	Image.		
style	Report item style.	string	Maximum length: 71	
content	Report item text content.	string	Maximum length: 511	
img-src	Report item image file name.	string	Maximum length: 127	

config body-item

Parameter	Description	Type	Size	Default
id	Report item ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
description	Description.	string	Maximum length: 63	
type	Report item type.	option	-	text
	Option	Description		
	<i>text</i>	Text.		
	<i>image</i>	Image.		
	<i>chart</i>	Chart.		
	<i>misc</i>	Miscellaneous.		
style	Report item style.	string	Maximum length: 71	
top-n	Value of top.	integer	Minimum value: 0 Maximum value: 4294967295	0
text-component	Report item text component.	option	-	text

Parameter	Description	Type	Size	Default										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>text</i></td><td>Normal text.</td></tr><tr><td><i>heading1</i></td><td>Heading 1.</td></tr><tr><td><i>heading2</i></td><td>Heading 2.</td></tr><tr><td><i>heading3</i></td><td>Heading 3.</td></tr></table>	Option	Description	<i>text</i>	Normal text.	<i>heading1</i>	Heading 1.	<i>heading2</i>	Heading 2.	<i>heading3</i>	Heading 3.			
	Option	Description												
	<i>text</i>	Normal text.												
	<i>heading1</i>	Heading 1.												
	<i>heading2</i>	Heading 2.												
<i>heading3</i>	Heading 3.													
content	Report item text content.	string	Maximum length: 511											
img-src	Report item image file name.	string	Maximum length: 127											
chart	Report item chart name.	string	Maximum length: 71											
chart-options	Report chart options.	option	-	include-no-data hide-title show-caption										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>include-no-data</i></td><td>Include chart with no data.</td></tr><tr><td><i>hide-title</i></td><td>Hide chart title.</td></tr><tr><td><i>show-caption</i></td><td>Show chart caption.</td></tr></table>	Option	Description	<i>include-no-data</i>	Include chart with no data.	<i>hide-title</i>	Hide chart title.	<i>show-caption</i>	Show chart caption.					
	Option	Description												
	<i>include-no-data</i>	Include chart with no data.												
	<i>hide-title</i>	Hide chart title.												
<i>show-caption</i>	Show chart caption.													
misc-component	Report item miscellaneous component.	option	-	hline										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>hline</i></td><td>Horizontal line.</td></tr><tr><td><i>page-break</i></td><td>Page break.</td></tr><tr><td><i>column-break</i></td><td>Column break.</td></tr><tr><td><i>section-start</i></td><td>Section start.</td></tr></table>	Option	Description	<i>hline</i>	Horizontal line.	<i>page-break</i>	Page break.	<i>column-break</i>	Column break.	<i>section-start</i>	Section start.			
	Option	Description												
	<i>hline</i>	Horizontal line.												
	<i>page-break</i>	Page break.												
	<i>column-break</i>	Column break.												
<i>section-start</i>	Section start.													
title	Report section title.	string	Maximum length: 511											

config parameters

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
name	Field name that match field of parameters defined in dataset.	string	Maximum length: 127	
value	Value to replace corresponding field of parameters defined in dataset.	string	Maximum length: 1023	

config report setting

Report setting configuration.

```
config report setting
    Description: Report setting configuration.
    set pdf-report [enable|disable]
    set fortiview [enable|disable]
    set report-source {option1}, {option2}, ...
    set web-browsing-threshold {integer}
    set top-n {integer}
end
```

config report setting

Parameter	Description	Type	Size	Default						
pdf-report	Enable/disable PDF report.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable PDF report.</td></tr><tr><td><i>disable</i></td><td>Disable PDF report.</td></tr></table>	Option	Description	<i>enable</i>	Enable PDF report.	<i>disable</i>	Disable PDF report.			
	Option	Description								
	<i>enable</i>	Enable PDF report.								
<i>disable</i>	Disable PDF report.									
fortiview	Enable/disable historical FortiView.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable historical FortiView.</td></tr><tr><td><i>disable</i></td><td>Disable historical FortiView.</td></tr></table>	Option	Description	<i>enable</i>	Enable historical FortiView.	<i>disable</i>	Disable historical FortiView.			
	Option	Description								
	<i>enable</i>	Enable historical FortiView.								
<i>disable</i>	Disable historical FortiView.									
report-source	Report log source.	option	-	forward-traffic						

Parameter	Description	Type	Size	Default									
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>forward-traffic</i></td><td>Report includes forward traffic logs.</td></tr><tr><td><i>sniffer-traffic</i></td><td>Report includes sniffer traffic logs.</td></tr><tr><td><i>local-deny-traffic</i></td><td>Report includes local deny traffic logs.</td></tr></table>		Option	Description	<i>forward-traffic</i>	Report includes forward traffic logs.	<i>sniffer-traffic</i>	Report includes sniffer traffic logs.	<i>local-deny-traffic</i>	Report includes local deny traffic logs.			
	Option	Description											
	<i>forward-traffic</i>	Report includes forward traffic logs.											
	<i>sniffer-traffic</i>	Report includes sniffer traffic logs.											
	<i>local-deny-traffic</i>	Report includes local deny traffic logs.											
web-browsing-threshold	Web browsing time calculation threshold (3 - 15 min).	integer	Minimum value: 3 Maximum value: 15	3									
top-n	Number of items to populate (1000 - 20000).	integer	Minimum value: 1000 Maximum value: 20000	1000									

config report sql status

Show report database status.

```
config report sql status
    Description: Show report database status.
end
```

router

This section includes syntax for the following commands:

- [config router policy on page 703](#)
- [config router static on page 705](#)
- [config router static6 on page 707](#)

config router policy

Configure IPv4 routing policies.

```
config router policy
  Description: Configure IPv4 routing policies.
  edit <seq-num>
    set input-device <name1>, <name2>, ...
    set src <subnet1>, <subnet2>, ...
    set dst <subnet1>, <subnet2>, ...
    set action [deny|permit]
    set protocol {integer}
    set start-port {integer}
    set end-port {integer}
    set start-source-port {integer}
    set end-source-port {integer}
    set gateway {ipv4-address}
    set output-device {string}
    set status [enable|disable]
    set comments {var-string}
    set internet-service-id <id1>, <id2>, ...
    set internet-service-custom <name1>, <name2>, ...
  next
end
```

config router policy

Parameter	Description	Type	Size	Default
seq-num	Sequence number(1-65535).	integer	Minimum value: 1 Maximum value: 2048	0
input-device <name>	Incoming interface name. Interface name.	string	Maximum length: 79	

Parameter	Description	Type	Size	Default						
src <subnet>	Source IP and mask (x.x.x.x/x). IP and mask.	string	Maximum length: 79							
dst <subnet>	Destination IP and mask (x.x.x.x/x). IP and mask.	string	Maximum length: 79							
action	Action of the policy route.	option	-	permit						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>deny</td><td>Do not search policy route table.</td></tr><tr><td>permit</td><td>Use this policy route for forwarding.</td></tr></table>				Option	Description	deny	Do not search policy route table.	permit	Use this policy route for forwarding.
Option	Description									
deny	Do not search policy route table.									
permit	Use this policy route for forwarding.									
protocol	Protocol number (0 - 255).	integer	Minimum value: 0 Maximum value: 255	0						
start-port	Start destination port number (1 - 65534).	integer	Minimum value: 0 Maximum value: 65535	1						
end-port	End destination port number (1 - 65534).	integer	Minimum value: 0 Maximum value: 65535	65534						
start-source-port	Start source port number (1 - 65534).	integer	Minimum value: 0 Maximum value: 65535	1						
end-source-port	End source port number (1 - 65534).	integer	Minimum value: 0 Maximum value: 65535	65534						
gateway	IP address of the gateway.	ipv4- address	Not Specified	0.0.0.0						
output-device	Outgoing interface name.	string	Maximum length: 35							
status	Enable/disable this policy route.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable this policy route.</td></tr><tr><td>disable</td><td>Disable this policy route.</td></tr></table>				Option	Description	enable	Enable this policy route.	disable	Disable this policy route.
Option	Description									
enable	Enable this policy route.									
disable	Disable this policy route.									

Parameter	Description	Type	Size	Default
comments	Optional comments.	var-string	Maximum length: 255	
internet-service-id <id>	Destination Internet Service ID. Destination Internet Service ID.	integer	Minimum value: 0 Maximum value: 4294967295	
internet-service-custom <name>	Custom Destination Internet Service name. Custom Destination Internet Service name.	string	Maximum length: 79	

config router static

Configure IPv4 static routing tables.

```

config router static
    Description: Configure IPv4 static routing tables.
    edit <seq-num>
        set status [enable|disable]
        set dst {ipv4-classnet}
        set src {ipv4-classnet}
        set gateway {ipv4-address}
        set preferred-source {ipv4-address}
        set weight {integer}
        set priority {integer}
        set device {string}
        set comment {var-string}
        set blackhole [enable|disable]
        set sdwan-zone <name1>, <name2>, ...
        set dstaddr {string}
        set link-monitor-exempt [enable|disable]
        set tag {integer}
    next
end

```

config router static

Parameter	Description	Type	Size	Default
seq-num	Sequence number.	integer	Minimum value: 0 Maximum value: 4294967295	0

Parameter	Description	Type	Size	Default						
status	Enable/disable this static route.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable static route.</td></tr><tr><td><i>disable</i></td><td>Disable static route.</td></tr></table>	Option	Description	<i>enable</i>	Enable static route.	<i>disable</i>	Disable static route.			
	Option	Description								
	<i>enable</i>	Enable static route.								
<i>disable</i>	Disable static route.									
dst	Destination IP and mask for this route.	ipv4-classnet	Not Specified	0.0.0.0 0.0.0.0						
src	Source prefix for this route.	ipv4-classnet	Not Specified	0.0.0.0 0.0.0.0						
gateway	Gateway IP for this route.	ipv4-address	Not Specified	0.0.0.0						
preferred-source	Preferred source IP for this route.	ipv4-address	Not Specified	0.0.0.0						
weight	Administrative weight (0 - 255).	integer	Minimum value: 0 Maximum value: 255	0						
priority	Administrative priority (1 - 65535).	integer	Minimum value: 1 Maximum value: 65535	1						
device	Gateway out interface or tunnel.	string	Maximum length: 35							
comment	Optional comments.	var-string	Maximum length: 255							
blackhole	Enable/disable black hole.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable black hole.</td></tr><tr><td><i>disable</i></td><td>Disable black hole.</td></tr></table>	Option	Description	<i>enable</i>	Enable black hole.	<i>disable</i>	Disable black hole.			
	Option	Description								
	<i>enable</i>	Enable black hole.								
<i>disable</i>	Disable black hole.									
sdwan-zone <name>	Choose SD-WAN Zone. SD-WAN zone name.	string	Maximum length: 79							
dstaddr	Name of firewall address or address group.	string	Maximum length: 79							
link-monitor-exempt	Enable/disable withdrawal of this static route when link monitor or health check is down.	option	-	disable						

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Keep this static route when link monitor or health check is down.		
	<i>disable</i>	Withdraw this static route when link monitor or health check is down. (default)		
tag	Route tag.	integer	Minimum value: 0 Maximum value: 4294967295	0

config router static6

Configure IPv6 static routing tables.

```

config router static6
    Description: Configure IPv6 static routing tables.
    edit <seq-num>
        set status [enable|disable]
        set dst {ipv6-network}
        set gateway {ipv6-address}
        set device {string}
        set devindex {integer}
        set weight {integer}
        set priority {integer}
        set comment {var-string}
        set blackhole [enable|disable]
        set sdwan-zone <name1>, <name2>, ...
        set dstaddr {string}
        set link-monitor-exempt [enable|disable]
    next
end

```

config router static6

Parameter	Description	Type	Size	Default
seq-num	Sequence number.	integer	Minimum value: 0 Maximum value: 4294967295	0
status	Enable/disable this static route.	option	-	enable

Parameter	Description	Type	Size	Default						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable static route.</td></tr><tr><td><i>disable</i></td><td>Disable static route.</td></tr></table>	Option	Description	<i>enable</i>	Enable static route.	<i>disable</i>	Disable static route.			
	Option	Description								
	<i>enable</i>	Enable static route.								
<i>disable</i>	Disable static route.									
dst	Destination IPv6 prefix.	ipv6-network	Not Specified	::/0						
gateway	IPv6 address of the gateway.	ipv6-address	Not Specified	::						
device	Gateway out interface or tunnel.	string	Maximum length: 35							
devindex	Device index (0 - 4294967295).	integer	Minimum value: 0 Maximum value: 4294967295	0						
weight	Administrative weight (0 - 255).	integer	Minimum value: 0 Maximum value: 255	0						
priority	Administrative priority (1 - 65535).	integer	Minimum value: 1 Maximum value: 65535	1024						
comment	Optional comments.	var-string	Maximum length: 255							
blackhole	Enable/disable black hole.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable black hole.</td></tr><tr><td><i>disable</i></td><td>Disable black hole.</td></tr></table>	Option	Description	<i>enable</i>	Enable black hole.	<i>disable</i>	Disable black hole.			
	Option	Description								
	<i>enable</i>	Enable black hole.								
<i>disable</i>	Disable black hole.									
sdwan-zone <name>	Choose SD-WAN Zone. SD-WAN zone name.	string	Maximum length: 79							
dstaddr	Name of firewall address or address group.	string	Maximum length: 79							
link-monitor-exempt	Enable/disable withdrawal of this static route when link monitor or health check is down.	option	-	disable						

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Keep this static route when link monitor or health check is down.		
	<i>disable</i>	Withdraw this static route when link monitor or health check is down. (default)		

rule

This section includes syntax for the following commands:

- [config rule fmwp on page 710](#)
- [config rule otdt on page 712](#)
- [config rule otvp on page 714](#)

config rule fmwp

Show FMWP signatures.

```
config rule fmwp
  Description: Show FMWP signatures.
  edit <name>
    set log [disable|enable]
    set log-packet [disable|enable]
    set action [pass|block]
    set group {string}
    set severity {user}
    set location {user}
    set os {user}
    set application {user}
    set service {user}
    set rule-id {integer}
    set rev {integer}
    set date {integer}
    config metadata
      Description: Meta data.
      edit <id>
        set metaid {integer}
        set valueid {integer}
      next
    end
  next
end
```

config rule fmwp

Parameter	Description	Type	Size	Default
name	Rule name.	string	Maximum length: 63	
log	Enable/disable logging.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable logging.		
	<i>enable</i>	Enable logging.		
log-packet	Enable/disable packet logging.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable packet logging.		
	<i>enable</i>	Enable packet logging.		
action	Action.	option	-	pass
	Option	Description		
	<i>pass</i>	Pass or allow matching traffic.		
	<i>block</i>	Block or drop matching traffic.		
group	Group.	string	Maximum length: 63	
severity	Severity.	user	Not Specified	
location	Vulnerable location.	user	Not Specified	
os	Vulnerable operation systems.	user	Not Specified	
application	Vulnerable applications.	user	Not Specified	
service	Vulnerable service.	user	Not Specified	
rule-id	Rule ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
rev	Revision.	integer	Minimum value: 0 Maximum value: 4294967295	0
date	Date.	integer	Minimum value: 0 Maximum value: 4294967295	0

config metadata

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
metaid	Meta ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
valueid	Value ID.	integer	Minimum value: 0 Maximum value: 4294967295	0

config rule otdt

Show OT detection signatures.

```
config rule otdt
  Description: Show OT detection signatures.
  edit <name>
    set id {integer}
    set category {integer}
    set popularity {integer}
    set risk {integer}
    set weight {integer}
    set protocol {user}
    set technology {user}
    set behavior {user}
    set vendor {user}
    config parameters
      Description: Application parameters.
      edit <name>
        set default value {string}
      next
    end
  config metadata
    Description: Meta data.
    edit <id>
      set metaid {integer}
      set valueid {integer}
    next
  end
next
end
```

config rule otdt

Parameter	Description	Type	Size	Default
name	Application name.	string	Maximum length: 63	
id	Application ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
category	Application category ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
popularity	Application popularity.	integer	Minimum value: 0 Maximum value: 255	0
risk	Application risk.	integer	Minimum value: 0 Maximum value: 255	0
weight	Application weight.	integer	Minimum value: 0 Maximum value: 255	0
protocol	Application protocol.	user	Not Specified	
technology	Application technology.	user	Not Specified	
behavior	Application behavior.	user	Not Specified	
vendor	Application vendor.	user	Not Specified	

config parameters

Parameter	Description	Type	Size	Default
name	Parameter name.	string	Maximum length: 31	
default value	Parameter default value.	string	Maximum length: 199	

config metadata

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
metaid	Meta ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
valueid	Value ID.	integer	Minimum value: 0 Maximum value: 4294967295	0

config rule otpv

Show OT patch signatures.

```
config rule otpv
  Description: Show OT patch signatures.
  edit <name>
    set log [disable|enable]
    set log-packet [disable|enable]
    set action [pass|block]
    set group {string}
    set severity {user}
    set location {user}
    set os {user}
    set application {user}
    set service {user}
    set rule-id {integer}
    set rev {integer}
    set date {integer}
    config metadata
      Description: Meta data.
      edit <id>
        set metaid {integer}
        set valueid {integer}
      next
    end
  next
end
```

config rule otpv

Parameter	Description	Type	Size	Default						
name	Rule name.	string	Maximum length: 63							
log	Enable/disable logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable logging.</td></tr><tr><td><i>enable</i></td><td>Enable logging.</td></tr></table>				Option	Description	<i>disable</i>	Disable logging.	<i>enable</i>	Enable logging.
	Option	Description								
	<i>disable</i>	Disable logging.								
<i>enable</i>	Enable logging.									
log-packet	Enable/disable packet logging.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable packet logging.</td></tr><tr><td><i>enable</i></td><td>Enable packet logging.</td></tr></table>				Option	Description	<i>disable</i>	Disable packet logging.	<i>enable</i>	Enable packet logging.
	Option	Description								
	<i>disable</i>	Disable packet logging.								
<i>enable</i>	Enable packet logging.									
action	Action.	option	-	pass						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>pass</i></td><td>Pass or allow matching traffic.</td></tr><tr><td><i>block</i></td><td>Block or drop matching traffic.</td></tr></table>				Option	Description	<i>pass</i>	Pass or allow matching traffic.	<i>block</i>	Block or drop matching traffic.
	Option	Description								
	<i>pass</i>	Pass or allow matching traffic.								
<i>block</i>	Block or drop matching traffic.									
group	Group.	string	Maximum length: 63							
severity	Severity.	user	Not Specified							
location	Vulnerable location.	user	Not Specified							
os	Vulnerable operation systems.	user	Not Specified							
application	Vulnerable applications.	user	Not Specified							
service	Vulnerable service.	user	Not Specified							
rule-id	Rule ID.	integer	Minimum value: 0 Maximum value: 4294967295	0						
rev	Revision.	integer	Minimum value: 0 Maximum value: 4294967295	0						

Parameter	Description	Type	Size	Default
date	Date.	integer	Minimum value: 0 Maximum value: 4294967295	0

config metadata

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
metaid	Meta ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
valueid	Value ID.	integer	Minimum value: 0 Maximum value: 4294967295	0

ssh-filter

This section includes syntax for the following commands:

- [config ssh-filter profile on page 717](#)

config ssh-filter profile

Configure SSH filter profile.

```
config ssh-filter profile
  Description: Configure SSH filter profile.
  edit <name>
    set block {option1}, {option2}, ...
    set log {option1}, {option2}, ...
    set default-command-log [enable|disable]
    config shell-commands
      Description: SSH command filter.
      edit <id>
        set type [simple|regex]
        set pattern {string}
        set action [block|allow]
        set log [enable|disable]
        set alert [enable|disable]
        set severity [low|medium|...]
      next
    end
  next
end
```

config ssh-filter profile

Parameter	Description	Type	Size	Default								
name	SSH filter profile name.	string	Maximum length: 35									
block	SSH blocking options.	option	-									
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>x11</i></td><td>X server forwarding.</td></tr><tr><td><i>shell</i></td><td>SSH shell.</td></tr><tr><td><i>exec</i></td><td>SSH execution.</td></tr></table>				Option	Description	<i>x11</i>	X server forwarding.	<i>shell</i>	SSH shell.	<i>exec</i>	SSH execution.
Option	Description											
<i>x11</i>	X server forwarding.											
<i>shell</i>	SSH shell.											
<i>exec</i>	SSH execution.											

Parameter	Description	Type	Size	Default																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>port-forward</i></td><td>Port forwarding.</td></tr><tr><td><i>tun-forward</i></td><td>Tunnel forwarding.</td></tr><tr><td><i>sftp</i></td><td>SFTP.</td></tr><tr><td><i>scp</i></td><td>SCP.</td></tr><tr><td><i>unknown</i></td><td>Unknown channel.</td></tr></table>	Option	Description	<i>port-forward</i>	Port forwarding.	<i>tun-forward</i>	Tunnel forwarding.	<i>sftp</i>	SFTP.	<i>scp</i>	SCP.	<i>unknown</i>	Unknown channel.									
	Option	Description																				
	<i>port-forward</i>	Port forwarding.																				
	<i>tun-forward</i>	Tunnel forwarding.																				
	<i>sftp</i>	SFTP.																				
	<i>scp</i>	SCP.																				
	<i>unknown</i>	Unknown channel.																				
log	SSH logging options.	option	-																			
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>x11</i></td><td>X server forwarding.</td></tr><tr><td><i>shell</i></td><td>SSH shell.</td></tr><tr><td><i>exec</i></td><td>SSH execution.</td></tr><tr><td><i>port-forward</i></td><td>Port forwarding.</td></tr><tr><td><i>tun-forward</i></td><td>Tunnel forwarding.</td></tr><tr><td><i>sftp</i></td><td>SFTP.</td></tr><tr><td><i>scp</i></td><td>SCP.</td></tr><tr><td><i>unknown</i></td><td>Unknown channel.</td></tr></table>	Option	Description	<i>x11</i>	X server forwarding.	<i>shell</i>	SSH shell.	<i>exec</i>	SSH execution.	<i>port-forward</i>	Port forwarding.	<i>tun-forward</i>	Tunnel forwarding.	<i>sftp</i>	SFTP.	<i>scp</i>	SCP.	<i>unknown</i>	Unknown channel.			
	Option	Description																				
	<i>x11</i>	X server forwarding.																				
	<i>shell</i>	SSH shell.																				
	<i>exec</i>	SSH execution.																				
	<i>port-forward</i>	Port forwarding.																				
	<i>tun-forward</i>	Tunnel forwarding.																				
	<i>sftp</i>	SFTP.																				
	<i>scp</i>	SCP.																				
<i>unknown</i>	Unknown channel.																					
default-command-log	Enable/disable logging unmatched shell commands.	option	-	disable																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable log unmatched shell commands.</td></tr><tr><td><i>disable</i></td><td>Disable log unmatched shell commands.</td></tr></table>	Option	Description	<i>enable</i>	Enable log unmatched shell commands.	<i>disable</i>	Disable log unmatched shell commands.															
	Option	Description																				
	<i>enable</i>	Enable log unmatched shell commands.																				
<i>disable</i>	Disable log unmatched shell commands.																					

config shell-commands

Parameter	Description	Type	Size	Default
id	Id.	integer	Minimum value: 0 Maximum value: 4294967295	0
type	Matching type.	option	-	simple

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>simple</i>	Match single command.		
	<i>regex</i>	Match command line using regular expression.		
pattern	SSH shell command pattern.	string	Maximum length: 128	
action	Action to take for SSH shell command matches.	option	-	block
	Option	Description		
	<i>block</i>	Block the SSH shell command.		
	<i>allow</i>	Allow the SSH shell command.		
log	Enable/disable logging.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable logging.		
	<i>disable</i>	Disable logging.		
alert	Enable/disable alert.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable alert.		
	<i>disable</i>	Disable alert.		
severity	Log severity.	option	-	medium
	Option	Description		
	<i>low</i>	Severity low.		
	<i>medium</i>	Severity medium.		
	<i>high</i>	Severity high.		
	<i>critical</i>	Severity critical.		

system

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config system accprofile

Configure access profiles for system administrators.

```
config system accprofile
    Description: Configure access profiles for system administrators.
    edit <name>
        set scope [vdom|global]
        set comments {var-string}
        set secfabgrp [none|read|...]
        set ftviewgrp [none|read|...]
        set authgrp [none|read|...]
        set sysgrp [none|read|...]
        set netgrp [none|read|...]
        set loggrp [none|read|...]
        set fwgrp [none|read|...]
        set vpngrp [none|read|...]
        set utmgrp [none|read|...]
        set wanoptgrp [none|read|...]
        config netgrp-permission
            Description: Custom network permission.
            set cfg [none|read|...]
            set packet-capture [none|read|...]
            set route-cfg [none|read|...]
        end
        config sysgrp-permission
            Description: Custom system permission.
            set admin [none|read|...]
            set upd [none|read|...]
            set cfg [none|read|...]
            set mnt [none|read|...]
        end
        config fwgrp-permission
            Description: Custom firewall permission.
            set policy [none|read|...]
            set address [none|read|...]
```

```

        set service [none|read|...]
        set schedule [none|read|...]
        set others [none|read|...]
    end
    config loggrp-permission
        Description: Custom Log & Report permission.
        set config [none|read|...]
        set data-access [none|read|...]
        set report-access [none|read|...]
        set threat-weight [none|read|...]
    end
    config utmgrp-permission
        Description: Custom Security Profile permissions.
        set antivirus [none|read|...]
        set ips [none|read|...]
        set webfilter [none|read|...]
        set emailfilter [none|read|...]
        set dlp [none|read|...]
        set file-filter [none|read|...]
        set application-control [none|read|...]
        set icap [none|read|...]
        set voip [none|read|...]
        set waf [none|read|...]
        set dnsfilter [none|read|...]
        set endpoint-control [none|read|...]
        set videofilter [none|read|...]
        set virtual-patch [none|read|...]
        set casb [none|read|...]
    end
    set admintimeout-override [enable|disable]
    set admintimeout {integer}
    set cli-diagnose [enable|disable]
    set cli-get [enable|disable]
    set cli-show [enable|disable]
    set cli-exec [enable|disable]
    set cli-config [enable|disable]
    set system-execute-ssh [enable|disable]
    set system-execute-telnet [enable|disable]
next
end

```

config system accprofile

Parameter	Description	Type	Size	Default
name	Profile name.	string	Maximum length: 35	
scope	Scope of admin access: global or specific VDOM(s).	option	-	vdom
		Option	Description	
		<i>vdom</i>	VDOM access.	

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>global</i>	Global access.		
comments	Comment.	var-string	Maximum length: 255	
secfabgrp	Security Fabric.	option	-	none
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
ftviewgrp	FortiView.	option	-	none
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
authgrp	Administrator access to Users and Devices.	option	-	none
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
sysgrp	System Configuration.	option	-	none
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
	<i>custom</i>	Customized access.		
netgrp	Network Configuration.	option	-	none
	Option	Description		
	<i>none</i>	No access.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
	<i>custom</i>	Customized access.		
loggrp	Administrator access to Logging and Reporting including viewing log messages.	option	-	none
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
	<i>custom</i>	Customized access.		
fwgrp	Administrator access to the Firewall configuration.	option	-	none
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
	<i>custom</i>	Customized access.		
vpngrp	Administrator access to IPsec, SSL, PPTP, and L2TP VPN.	option	-	none
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
utmgrp	Administrator access to Security Profiles.	option	-	none
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
	<i>custom</i>	Customized access.		

Parameter	Description	Type	Size	Default								
wanoptgrp	Administrator access to WAN Opt & Cache.	option	-	none								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>none</i></td><td>No access.</td></tr><tr><td><i>read</i></td><td>Read access.</td></tr><tr><td><i>read-write</i></td><td>Read/write access.</td></tr></table>	Option	Description	<i>none</i>	No access.	<i>read</i>	Read access.	<i>read-write</i>	Read/write access.			
Option	Description											
<i>none</i>	No access.											
<i>read</i>	Read access.											
<i>read-write</i>	Read/write access.											
admintimeout-override	Enable/disable overriding the global administrator idle timeout.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable overriding the global administrator idle timeout.</td></tr><tr><td><i>disable</i></td><td>Disable overriding the global administrator idle timeout.</td></tr></table>	Option	Description	<i>enable</i>	Enable overriding the global administrator idle timeout.	<i>disable</i>	Disable overriding the global administrator idle timeout.					
Option	Description											
<i>enable</i>	Enable overriding the global administrator idle timeout.											
<i>disable</i>	Disable overriding the global administrator idle timeout.											
admintimeout	Administrator timeout for this access profile (0 - 480 min, default = 10, 0 means never timeout).	integer	Minimum value: 1 Maximum value: 480	10								
cli-diagnose	Enable/disable permission to run diagnostic commands.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable permission to run diagnostic commands.</td></tr><tr><td><i>disable</i></td><td>Disable permission to run diagnostic commands.</td></tr></table>	Option	Description	<i>enable</i>	Enable permission to run diagnostic commands.	<i>disable</i>	Disable permission to run diagnostic commands.					
Option	Description											
<i>enable</i>	Enable permission to run diagnostic commands.											
<i>disable</i>	Disable permission to run diagnostic commands.											
cli-get	Enable/disable permission to run get commands.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable permission to run get commands.</td></tr><tr><td><i>disable</i></td><td>Disable permission to run get commands.</td></tr></table>	Option	Description	<i>enable</i>	Enable permission to run get commands.	<i>disable</i>	Disable permission to run get commands.					
Option	Description											
<i>enable</i>	Enable permission to run get commands.											
<i>disable</i>	Disable permission to run get commands.											
cli-show	Enable/disable permission to run show commands.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable permission to run show commands.</td></tr><tr><td><i>disable</i></td><td>Disable permission to run show commands.</td></tr></table>	Option	Description	<i>enable</i>	Enable permission to run show commands.	<i>disable</i>	Disable permission to run show commands.					
Option	Description											
<i>enable</i>	Enable permission to run show commands.											
<i>disable</i>	Disable permission to run show commands.											
cli-exec	Enable/disable permission to run execute commands.	option	-	disable								

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable permission to run execute commands.		
	<i>disable</i>	Disable permission to run execute commands.		
cli-config	Enable/disable permission to run config commands.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable permission to run config commands.		
	<i>disable</i>	Disable permission to run config commands.		
system-execute-ssh	Enable/disable permission to execute SSH commands.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable permission to execute SSH commands.		
	<i>disable</i>	Disable permission to execute SSH commands.		
system-execute-telnet	Enable/disable permission to execute TELNET commands.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable permission to execute TELNET commands.		
	<i>disable</i>	Disable permission to execute TELNET commands.		

config netgrp-permission

Parameter	Description	Type	Size	Default
cfg	Network Configuration.	option	-	none
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
packet-capture	Packet Capture Configuration.	option	-	none
	Option	Description		
	<i>none</i>	No access.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
route-cfg	Router Configuration.	option	-	none
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		

config sysgrp-permission

Parameter	Description	Type	Size	Default
admin	Administrator Users.	option	-	none
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
upd	FortiGuard Updates.	option	-	none
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
cfg	System Configuration.	option	-	none
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
mnt	Maintenance.	option	-	none

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		

config fwgrp-permission

Parameter	Description	Type	Size	Default
policy	Policy Configuration.	option	-	none
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
address	Address Configuration.	option	-	none
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
service	Service Configuration.	option	-	none
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
schedule	Schedule Configuration.	option	-	none
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
others	Other Firewall Configuration.	option	-	none

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		

config loggrp-permission

Parameter	Description	Type	Size	Default
config	Log & Report configuration.	option	-	none
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
data-access	Log & Report Data Access.	option	-	none
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
report-access	Log & Report Report Access.	option	-	none
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
threat-weight	Log & Report Threat Weight.	option	-	none
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		

config utmgrp-permission

Parameter	Description	Type	Size	Default
antivirus	Antivirus profiles and settings.	option	-	none
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
ips	IPS profiles and settings.	option	-	none
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
webfilter	Web Filter profiles and settings.	option	-	none
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
emailfilter	Email Filter and settings.	option	-	none
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
dlp	DLP profiles and settings.	option	-	none
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
file-filter	File-filter profiles and settings.	option	-	none

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
application-control	Application Control profiles and settings.	option	-	none
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
icap	ICAP profiles and settings.	option	-	none
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
voip	VoIP profiles and settings.	option	-	none
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
waf	Web Application Firewall profiles and settings.	option	-	none
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
dnsfilter	DNS Filter profiles and settings.	option	-	none
	Option	Description		
	<i>none</i>	No access.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
endpoint-control	FortiClient Profiles.	option	-	none
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
videofilter	Video filter profiles and settings.	option	-	none
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
virtual-patch	Virtual patch profiles and settings.	option	-	none
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		
casb	Inline CASB filter profile and settings	option	-	none
	Option	Description		
	<i>none</i>	No access.		
	<i>read</i>	Read access.		
	<i>read-write</i>	Read/write access.		

config system acme

Configure ACME client.

```
config system acme
    Description: Configure ACME client.
    set interface <interface-name1>, <interface-name2>, ...
```

```

set use-ha-direct [enable|disable]
set source-ip {ipv4-address}
set source-ip6 {ipv6-address}
config accounts
    Description: ACME accounts list.
    edit <id>
        set status {string}
        set url {string}
        set ca_url {string}
        set email {string}
        set privatekey {string}
    next
end
end

```

config system acme

Parameter	Description	Type	Size	Default
interface <interface-name>	Interface(s) on which the ACME client will listen for challenges. Interface name.	string	Maximum length: 79	
use-ha-direct	Enable the use of 'ha-mgmt' interface to connect to the ACME server when 'ha-direct' is enabled in HA configuration	option	-	disable
	Option	Description		
	enable	Enable setting.		
	disable	Disable setting.		
source-ip	Source IPv4 address used to connect to the ACME server.	ipv4-address	Not Specified	0.0.0.0
source-ip6	Source IPv6 address used to connect to the ACME server.	ipv6-address	Not Specified	::

config accounts

Parameter	Description	Type	Size	Default
id	Account id.	string	Maximum length: 255	
status	Account status.	string	Maximum length: 127	
url	Account url.	string	Maximum length: 511	

Parameter	Description	Type	Size	Default
ca_url	Account ca_url.	string	Maximum length: 255	
email	Account email.	string	Maximum length: 255	
privatekey	Account Private Key.	string	Maximum length: 8191	

config system admin

Configure admin users.

```
config system admin
  Description: Configure admin users.
  edit <name>
    set wildcard [enable|disable]
    set remote-auth [enable|disable]
    set remote-group {string}
    set password {password-2}
    set peer-auth [enable|disable]
    set peer-group {string}
    set trusthost1 {ipv4-classnet}
    set trusthost2 {ipv4-classnet}
    set trusthost3 {ipv4-classnet}
    set trusthost4 {ipv4-classnet}
    set trusthost5 {ipv4-classnet}
    set trusthost6 {ipv4-classnet}
    set trusthost7 {ipv4-classnet}
    set trusthost8 {ipv4-classnet}
    set trusthost9 {ipv4-classnet}
    set trusthost10 {ipv4-classnet}
    set ip6-trusthost1 {ipv6-prefix}
    set ip6-trusthost2 {ipv6-prefix}
    set ip6-trusthost3 {ipv6-prefix}
    set ip6-trusthost4 {ipv6-prefix}
    set ip6-trusthost5 {ipv6-prefix}
    set ip6-trusthost6 {ipv6-prefix}
    set ip6-trusthost7 {ipv6-prefix}
    set ip6-trusthost8 {ipv6-prefix}
    set ip6-trusthost9 {ipv6-prefix}
    set ip6-trusthost10 {ipv6-prefix}
    set accprofile {string}
    set allow-remove-admin-session [enable|disable]
    set comments {var-string}
    set vdom <name1>, <name2>, ...
    set ssh-public-key1 {user}
    set ssh-public-key2 {user}
    set ssh-public-key3 {user}
    set ssh-certificate {string}
    set schedule {string}
    set accprofile-override [enable|disable]
```

```

set vdom-override [enable|disable]
set password-expire {user}
set force-password-change [enable|disable]
set two-factor [disable|fortitoken|...]
set two-factor-authentication [fortitoken|email|...]
set two-factor-notification [email|sms]
set fortitoken {string}
set email-to {string}
set sms-server [fortiguard|custom]
set sms-custom-server {string}
set sms-phone {string}
set guest-auth [disable|enable]
set guest-usergroups <name1>, <name2>, ...
set guest-lang {string}
config trusthosts
    Description: Table of trusthosts.
    edit <id>
        set type [ipv4|ipv6]
        set ipv4 {ipv4-classnet}
        set ipv6 {ipv6-prefix}
    next
end
next
end

```

config system admin

Parameter	Description	Type	Size	Default
name	User name.	string	Maximum length: 64	
wildcard	Enable/disable wildcard RADIUS authentication.	option	-	disable
	Option	Description		
	enable	Enable username wildcard.		
	disable	Disable username wildcard.		
remote-auth	Enable/disable authentication using a remote RADIUS, LDAP, or TACACS+ server.	option	-	disable
	Option	Description		
	enable	Enable remote authentication.		
	disable	Disable remote authentication.		
remote-group	User group name used for remote auth.	string	Maximum length: 35	
password	Admin user password.	password-2	Not Specified	

Parameter	Description	Type	Size	Default
peer-auth	Set to enable peer certificate authentication (for HTTPS admin access).	option	-	disable
	Option	Description		
	enable	Enable peer.		
	disable	Disable peer.		
peer-group	Name of peer group defined under config user group which has PKI members. Used for peer certificate authentication (for HTTPS admin access).	string	Maximum length: 35	
trusthost1	Any IPv4 address or subnet address and netmask from which the administrator can connect to the FortiProxy unit. Default allows access from any IPv4 address.	ipv4-classnet	Not Specified	0.0.0.0 0.0.0.0
trusthost2	Any IPv4 address or subnet address and netmask from which the administrator can connect to the FortiProxy unit. Default allows access from any IPv4 address.	ipv4-classnet	Not Specified	0.0.0.0 0.0.0.0
trusthost3	Any IPv4 address or subnet address and netmask from which the administrator can connect to the FortiProxy unit. Default allows access from any IPv4 address.	ipv4-classnet	Not Specified	0.0.0.0 0.0.0.0
trusthost4	Any IPv4 address or subnet address and netmask from which the administrator can connect to the FortiProxy unit. Default allows access from any IPv4 address.	ipv4-classnet	Not Specified	0.0.0.0 0.0.0.0
trusthost5	Any IPv4 address or subnet address and netmask from which the administrator can connect to the FortiProxy unit. Default allows access from any IPv4 address.	ipv4-classnet	Not Specified	0.0.0.0 0.0.0.0
trusthost6	Any IPv4 address or subnet address and netmask from which the administrator can connect to the FortiProxy unit. Default allows access from any IPv4 address.	ipv4-classnet	Not Specified	0.0.0.0 0.0.0.0
trusthost7	Any IPv4 address or subnet address and netmask from which the administrator can connect to the FortiProxy unit. Default allows access from any IPv4 address.	ipv4-classnet	Not Specified	0.0.0.0 0.0.0.0

Parameter	Description	Type	Size	Default
trusthost8	Any IPv4 address or subnet address and netmask from which the administrator can connect to the FortiProxy unit. Default allows access from any IPv4 address.	ipv4-classnet	Not Specified	0.0.0.0 0.0.0.0
trusthost9	Any IPv4 address or subnet address and netmask from which the administrator can connect to the FortiProxy unit. Default allows access from any IPv4 address.	ipv4-classnet	Not Specified	0.0.0.0 0.0.0.0
trusthost10	Any IPv4 address or subnet address and netmask from which the administrator can connect to the FortiProxy unit. Default allows access from any IPv4 address.	ipv4-classnet	Not Specified	0.0.0.0 0.0.0.0
ip6-trusthost1	Any IPv6 address from which the administrator can connect to the FortiProxy unit. Default allows access from any IPv6 address.	ipv6-prefix	Not Specified	::/0
ip6-trusthost2	Any IPv6 address from which the administrator can connect to the FortiProxy unit. Default allows access from any IPv6 address.	ipv6-prefix	Not Specified	::/0
ip6-trusthost3	Any IPv6 address from which the administrator can connect to the FortiProxy unit. Default allows access from any IPv6 address.	ipv6-prefix	Not Specified	::/0
ip6-trusthost4	Any IPv6 address from which the administrator can connect to the FortiProxy unit. Default allows access from any IPv6 address.	ipv6-prefix	Not Specified	::/0
ip6-trusthost5	Any IPv6 address from which the administrator can connect to the FortiProxy unit. Default allows access from any IPv6 address.	ipv6-prefix	Not Specified	::/0
ip6-trusthost6	Any IPv6 address from which the administrator can connect to the FortiProxy unit. Default allows access from any IPv6 address.	ipv6-prefix	Not Specified	::/0
ip6-trusthost7	Any IPv6 address from which the administrator can connect to the FortiProxy unit. Default allows access from any IPv6 address.	ipv6-prefix	Not Specified	::/0
ip6-trusthost8	Any IPv6 address from which the administrator can connect to the FortiProxy unit. Default allows access from any IPv6 address.	ipv6-prefix	Not Specified	::/0
ip6-trusthost9	Any IPv6 address from which the administrator can connect to the FortiProxy unit. Default allows access from any IPv6 address.	ipv6-prefix	Not Specified	::/0

Parameter	Description	Type	Size	Default						
ip6-trusthost10	Any IPv6 address from which the administrator can connect to the FortiProxy unit. Default allows access from any IPv6 address.	ipv6-prefix	Not Specified	::/0						
accprofile	Access profile for this administrator. Access profiles control administrator access to FortiProxy features.	string	Maximum length: 35							
allow-remove-admin-session	Enable/disable allow admin session to be removed by privileged admin users.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable allow-remove option.</td></tr><tr><td><i>disable</i></td><td>Disable allow-remove option.</td></tr></table>				Option	Description	<i>enable</i>	Enable allow-remove option.	<i>disable</i>	Disable allow-remove option.
Option	Description									
<i>enable</i>	Enable allow-remove option.									
<i>disable</i>	Disable allow-remove option.									
comments	Comment.	var-string	Maximum length: 255							
vdom <name>	Virtual domain(s) that the administrator can access. Virtual domain name.	string	Maximum length: 79							
ssh-public-key1	Public key of an SSH client. The client is authenticated without being asked for credentials. Create the public-private key pair in the SSH client application.	user	Not Specified							
ssh-public-key2	Public key of an SSH client. The client is authenticated without being asked for credentials. Create the public-private key pair in the SSH client application.	user	Not Specified							
ssh-public-key3	Public key of an SSH client. The client is authenticated without being asked for credentials. Create the public-private key pair in the SSH client application.	user	Not Specified							
ssh-certificate	Select the certificate to be used by the FortiProxy for authentication with an SSH client.	string	Maximum length: 35							
schedule	Firewall schedule used to restrict when the administrator can log in. No schedule means no restrictions.	string	Maximum length: 35							
accprofile-override	Enable to use the name of an access profile provided by the remote authentication server to control the FortiProxy features that this administrator can access.	option	-	disable						

Parameter	Description	Type	Size	Default												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable access profile override.</td></tr><tr><td><i>disable</i></td><td>Disable access profile override.</td></tr></table>	Option	Description	<i>enable</i>	Enable access profile override.	<i>disable</i>	Disable access profile override.									
Option	Description															
<i>enable</i>	Enable access profile override.															
<i>disable</i>	Disable access profile override.															
vdom-override	Enable to use the names of VDOMs provided by the remote authentication server to control the VDOMs that this administrator can access.	option	-	disable												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable VDOM override.</td></tr><tr><td><i>disable</i></td><td>Disable VDOM override.</td></tr></table>	Option	Description	<i>enable</i>	Enable VDOM override.	<i>disable</i>	Disable VDOM override.									
Option	Description															
<i>enable</i>	Enable VDOM override.															
<i>disable</i>	Disable VDOM override.															
password-expire	Password expire time.	user	Not Specified													
force-password-change	Enable/disable force password change on next login.	option	-	disable												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable force password change on next login.</td></tr><tr><td><i>disable</i></td><td>Disable force password change on next login.</td></tr></table>	Option	Description	<i>enable</i>	Enable force password change on next login.	<i>disable</i>	Disable force password change on next login.									
Option	Description															
<i>enable</i>	Enable force password change on next login.															
<i>disable</i>	Disable force password change on next login.															
two-factor	Enable/disable two-factor authentication.	option	-	disable												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable two-factor authentication.</td></tr><tr><td><i>fortitoken</i></td><td>Use FortiToken or FortiToken mobile two-factor authentication.</td></tr><tr><td><i>fortitoken-cloud</i></td><td>FortiToken Cloud Service.</td></tr><tr><td><i>email</i></td><td>Send a two-factor authentication code to the configured email-to email address.</td></tr><tr><td><i>sms</i></td><td>Send a two-factor authentication code to the configured sms-server and sms-phone.</td></tr></table>	Option	Description	<i>disable</i>	Disable two-factor authentication.	<i>fortitoken</i>	Use FortiToken or FortiToken mobile two-factor authentication.	<i>fortitoken-cloud</i>	FortiToken Cloud Service.	<i>email</i>	Send a two-factor authentication code to the configured email-to email address.	<i>sms</i>	Send a two-factor authentication code to the configured sms-server and sms-phone.			
Option	Description															
<i>disable</i>	Disable two-factor authentication.															
<i>fortitoken</i>	Use FortiToken or FortiToken mobile two-factor authentication.															
<i>fortitoken-cloud</i>	FortiToken Cloud Service.															
<i>email</i>	Send a two-factor authentication code to the configured email-to email address.															
<i>sms</i>	Send a two-factor authentication code to the configured sms-server and sms-phone.															
two-factor-authentication	Authentication method by FortiToken Cloud.	option	-													
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>fortitoken</i></td><td>FortiToken authentication.</td></tr><tr><td><i>email</i></td><td>Email one time password.</td></tr><tr><td><i>sms</i></td><td>SMS one time password.</td></tr></table>	Option	Description	<i>fortitoken</i>	FortiToken authentication.	<i>email</i>	Email one time password.	<i>sms</i>	SMS one time password.							
Option	Description															
<i>fortitoken</i>	FortiToken authentication.															
<i>email</i>	Email one time password.															
<i>sms</i>	SMS one time password.															

Parameter	Description	Type	Size	Default						
two-factor-notification	Notification method for user activation by FortiToken Cloud.	option	-							
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>email</td><td>Email notification for activation code.</td></tr><tr><td>sms</td><td>SMS notification for activation code.</td></tr></table>	Option	Description	email	Email notification for activation code.	sms	SMS notification for activation code.			
Option	Description									
email	Email notification for activation code.									
sms	SMS notification for activation code.									
fortitoken	This administrator's FortiToken serial number.	string	Maximum length: 16							
email-to	This administrator's email address.	string	Maximum length: 63							
sms-server	Send SMS messages using the FortiGuard SMS server or a custom server.	option	-	fortiguard						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>fortiguard</td><td>Send SMS by FortiGuard.</td></tr><tr><td>custom</td><td>Send SMS by custom server.</td></tr></table>	Option	Description	fortiguard	Send SMS by FortiGuard.	custom	Send SMS by custom server.			
Option	Description									
fortiguard	Send SMS by FortiGuard.									
custom	Send SMS by custom server.									
sms-custom-server	Custom SMS server to send SMS messages to.	string	Maximum length: 35							
sms-phone	Phone number on which the administrator receives SMS messages.	string	Maximum length: 15							
guest-auth	Enable/disable guest authentication.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>Disable guest authentication.</td></tr><tr><td>enable</td><td>Enable guest authentication.</td></tr></table>	Option	Description	disable	Disable guest authentication.	enable	Enable guest authentication.			
Option	Description									
disable	Disable guest authentication.									
enable	Enable guest authentication.									
guest-usergroups <name>	Select guest user groups. Select guest user groups.	string	Maximum length: 79							
guest-lang	Guest management portal language.	string	Maximum length: 35							

config trusthosts

Parameter	Description	Type	Size	Default
type	Trusthost type.	option	-	ipv4

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>ipv4</i>	IPv4 trusthost.		
	<i>ipv6</i>	IPv6 trusthost.		
ipv4	IPv4 trusthost.	ipv4-classnet	Not Specified	0.0.0.0 0.0.0.0
ipv6	IPv6 trusthost.	ipv6-prefix	Not Specified	::/0

config system affinity-interrupt

Configure interrupt affinity.

```
config system affinity-interrupt
    Description: Configure interrupt affinity.
    edit <id>
        set interrupt {string}
        set affinity-cpumask {string}
        set default-affinity-cpumask {string}
    next
end
```

config system affinity-interrupt

Parameter	Description	Type	Size	Default
id	ID of the interrupt affinity setting.	integer	Minimum value: 0 Maximum value: 4294967295	0
interrupt	Interrupt name.	string	Maximum length: 127	
affinity-cpumask	Affinity setting (64-bit hexadecimal value in the format of 0xxxxxxxxxxxxxxxxx).	string	Maximum length: 127	
default-affinity-cpumask	Default affinity setting (64-bit hexadecimal value in the format of 0xxxxxxxxxxxxxxxxx).	string	Maximum length: 127	

config system affinity-packet-redistribution

Configure packet redistribution.

```

config system affinity-packet-redistribution
  Description: Configure packet redistribution.
  edit <id>
    set interface {string}
    set rxqid {integer}
    set round-robin [enable|disable]
    set affinity-cpumask {string}
  next
end

```

config system affinity-packet-redistribution

Parameter	Description	Type	Size	Default						
id	ID of the packet redistribution setting.	integer	Minimum value: 0 Maximum value: 4294967295	0						
interface	Physical interface name on which to perform packet redistribution.	string	Maximum length: 15							
rxqid	ID of the receive queue (when the interface has multiple queues) on which to perform packet redistribution (255 = all queues).	integer	Minimum value: 0 Maximum value: 255	255						
round-robin	Enable/disable round-robin redistribution to multiple CPUs.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable round-robin redistribution.</td></tr><tr><td><i>disable</i></td><td>Disable round-robin redistribution.</td></tr></table>				Option	Description	<i>enable</i>	Enable round-robin redistribution.	<i>disable</i>	Disable round-robin redistribution.
	Option	Description								
	<i>enable</i>	Enable round-robin redistribution.								
<i>disable</i>	Disable round-robin redistribution.									
affinity-cpumask	Affinity setting for VM throughput (64-bit hexadecimal value in the format of 0xxxxxxxxxxxxxxxxx).	string	Maximum length: 127							

config system alarm

Configure alarm.

```

config system alarm
  Description: Configure alarm.
  set status [enable|disable]
  set audible [enable|disable]
  config groups
    Description: Alarm groups.
    edit <id>
      set period {integer}
    next
  next
end

```

```

set admin-auth-failure-threshold {integer}
set admin-auth-lockout-threshold {integer}
set user-auth-failure-threshold {integer}
set user-auth-lockout-threshold {integer}
set replay-attempt-threshold {integer}
set self-test-failure-threshold {integer}
set log-full-warning-threshold {integer}
set encryption-failure-threshold {integer}
set decryption-failure-threshold {integer}
config fw-policy-violations
    Description: Firewall policy violations.
    edit <id>
        set threshold {integer}
        set src-ip {ipv4-address}
        set dst-ip {ipv4-address}
        set src-port {integer}
        set dst-port {integer}
    next
end
set fw-policy-id {integer}
set fw-policy-id-threshold {integer}
next
end
end

```

config system alarm

Parameter	Description	Type	Size	Default						
status	Enable/disable alarm.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable alarm.</td></tr><tr><td><i>disable</i></td><td>Disable alarm.</td></tr></table>	Option	Description	<i>enable</i>	Enable alarm.	<i>disable</i>	Disable alarm.			
Option	Description									
<i>enable</i>	Enable alarm.									
<i>disable</i>	Disable alarm.									
audible	Enable/disable audible alarm.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable audible alarm.</td></tr><tr><td><i>disable</i></td><td>Disable audible alarm.</td></tr></table>	Option	Description	<i>enable</i>	Enable audible alarm.	<i>disable</i>	Disable audible alarm.			
Option	Description									
<i>enable</i>	Enable audible alarm.									
<i>disable</i>	Disable audible alarm.									

config groups

Parameter	Description	Type	Size	Default
id	Group ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
period	Time period in seconds (0 = from start up).	integer	Minimum value: 0 Maximum value: 4294967295	0
admin-auth-failure-threshold	Admin authentication failure threshold.	integer	Minimum value: 0 Maximum value: 1024	0
admin-auth-lockout-threshold	Admin authentication lockout threshold.	integer	Minimum value: 0 Maximum value: 1024	0
user-auth-failure-threshold	User authentication failure threshold.	integer	Minimum value: 0 Maximum value: 1024	0
user-auth-lockout-threshold	User authentication lockout threshold.	integer	Minimum value: 0 Maximum value: 1024	0
replay-attempt-threshold	Replay attempt threshold.	integer	Minimum value: 0 Maximum value: 1024	0
self-test-failure-threshold	Self-test failure threshold.	integer	Minimum value: 0 Maximum value: 1	0
log-full-warning-threshold	Log full warning threshold.	integer	Minimum value: 0 Maximum value: 1024	0

Parameter	Description	Type	Size	Default
encryption-failure-threshold	Encryption failure threshold.	integer	Minimum value: 0 Maximum value: 1024	0
decryption-failure-threshold	Decryption failure threshold.	integer	Minimum value: 0 Maximum value: 1024	0
fw-policy-id	Firewall policy ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
fw-policy-id-threshold	Firewall policy ID threshold.	integer	Minimum value: 0 Maximum value: 1024	0

config fw-policy-violations

Parameter	Description	Type	Size	Default
id	Firewall policy violations ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
threshold	Firewall policy violation threshold.	integer	Minimum value: 0 Maximum value: 1024	0
src-ip	Source IP (0=all).	ipv4-address	Not Specified	0.0.0.0
dst-ip	Destination IP (0=all).	ipv4-address	Not Specified	0.0.0.0
src-port	Source port (0=all).	integer	Minimum value: 0 Maximum value: 65535	0
dst-port	Destination port (0=all).	integer	Minimum value: 0 Maximum value: 65535	0

config system alias

Configure alias command.

```
config system alias
    Description: Configure alias command.
    edit <name>
        set command {var-string}
    next
end
```

config system alias

Parameter	Description	Type	Size	Default
name	Alias command name.	string	Maximum length: 35	
command	Command list to execute.	var-string	Maximum length: 255	

config system api-user

Configure API users.

```
config system api-user
    Description: Configure API users.
    edit <name>
        set comments {var-string}
        set api-key {password-2}
        set accprofile {string}
        set vdom <name1>, <name2>, ...
        set schedule {string}
        set cors-allow-origin {string}
        set peer-auth [enable|disable]
        set peer-group {string}
        config trusthost
            Description: Trusthost.
            edit <id>
                set type [ipv4-trusthost|ipv6-trusthost]
                set ipv4-trusthost {ipv4-classnet}
                set ipv6-trusthost {ipv6-prefix}
            next
        end
    next
end
```


config system api-user

Parameter	Description	Type	Size	Default						
name	User name.	string	Maximum length: 35							
comments	Comment.	var-string	Maximum length: 255							
api-key	Admin user password.	password-2	Not Specified							
accprofile	Admin user access profile.	string	Maximum length: 35							
vdom <name>	Virtual domains. Virtual domain name.	string	Maximum length: 79							
schedule	Schedule name.	string	Maximum length: 35							
cors-allow-origin	Value for Access-Control-Allow-Origin on API responses. Avoid using '*' if possible.	string	Maximum length: 269							
peer-auth	Enable/disable peer authentication.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable peer.</td></tr><tr><td><i>disable</i></td><td>Disable peer.</td></tr></table>				Option	Description	<i>enable</i>	Enable peer.	<i>disable</i>	Disable peer.
	Option	Description								
	<i>enable</i>	Enable peer.								
<i>disable</i>	Disable peer.									
peer-group	Peer group name.	string	Maximum length: 35							

config trusthost

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
type	Trusthost type.	option	-	ipv4-trusthost
	Option	Description		
	ipv4-trusthost	IPv4 trusthost.		
	ipv6-trusthost	IPv6 trusthost.		

Parameter	Description	Type	Size	Default
ipv4-trusthost	IPv4 trusted host address.	ipv4-classnet	Not Specified	0.0.0.0 0.0.0.0
ipv6-trusthost	IPv6 trusted host address.	ipv6-prefix	Not Specified	::/0

config system arp

IPv4 ARP table.

```
config system arp
    Description: IPv4 ARP table.
end
```

config system arp-table

Configure ARP table.

```
config system arp-table
    Description: Configure ARP table.
    edit <id>
        set interface {string}
        set ip {ipv4-address}
        set mac {mac-address}
    next
end
```

config system arp-table

Parameter	Description	Type	Size	Default
id	Unique integer ID of the entry.	integer	Minimum value: 0 Maximum value: 4294967295	0
interface	Interface name.	string	Maximum length: 15	
ip	IP address.	ipv4-address	Not Specified	0.0.0.0
mac	MAC address.	mac-address	Not Specified	00:00:00:00:00:00

config system automation-action

Action for automation stitches.

```
config system automation-action
  Description: Action for automation stitches.
  edit <name>
    set description {var-string}
    set action-type [email|fortiexplorer-notification|...]
    set system-action [reboot|shutdown|...]
    set tls-certificate {string}
    set forticare-email [enable|disable]
    set email-to <name1>, <name2>, ...
    set email-from {var-string}
    set email-subject {var-string}
    set minimum-interval {integer}
    set aws-api-key {password}
    set azure-function-authorization [anonymous|function|...]
    set azure-api-key {password}
    set alicloud-function-authorization [anonymous|function]
    set alicloud-access-key-id {string}
    set alicloud-access-key-secret {password}
    set message-type [text|json]
    set message {string}
    set replacement-message [enable|disable]
    set replacemsg-group {string}
    set protocol [http|https]
    set method [post|put|...]
    set uri {var-string}
    set http-body {var-string}
    set port {integer}
    config http-headers
      Description: Request headers.
      edit <id>
        set key {var-string}
        set value {var-string}
      next
    end
    set verify-host-cert [enable|disable]
    set script {var-string}
    set output-size {integer}
    set timeout {integer}
    set password {password}
    set execute-security-fabric [enable|disable]
    set accprofile {string}
    set security-tag {string}
    set sdn-connector <name1>, <name2>, ...
  next
end
```

config system automation-action

Parameter	Description	Type	Size	Default
name	Name.	string	Maximum length: 64	
description	Description.	var-string	Maximum length: 255	
action-type	Action type.	option	-	alert
	Option	Description		
	<i>email</i>	Send notification email.		
	<i>fortiexplorer-notification</i>	Send push notification to FortiExplorer.		
	<i>alert</i>	Generate FortiProxy dashboard alert.		
	<i>disable-ssid</i>	Disable interface.		
	<i>system-actions</i>	Perform immediate system operations on this FortiGate unit.		
	<i>quarantine</i>	Quarantine host.		
	<i>quarantine-forticlient</i>	Quarantine FortiClient by EMS.		
	<i>quarantine-nsx</i>	Quarantine NSX instance.		
	<i>quarantine-fortinac</i>	Quarantine host by FortiNAC.		
	<i>ban-ip</i>	Ban IP address.		
	<i>aws-lambda</i>	Send log data to integrated AWS service.		
	<i>azure-function</i>	Send log data to an Azure function.		
	<i>google-cloud-function</i>	Send log data to a Google Cloud function.		
	<i>alicloud-function</i>	Send log data to an AliCloud function.		
	<i>webhook</i>	Send an HTTP request.		
	<i>cli-script</i>	Run CLI script.		
<i>slack-notification</i>	Send a notification message to a Slack incoming webhook.			
<i>microsoft-teams-notification</i>	Send a notification message to a Microsoft Teams incoming webhook.			
system-action	System action type.	option	-	

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>reboot</i>	Reboot this FortiGate unit.		
	<i>shutdown</i>	Shutdown this FortiGate unit.		
	<i>backup-config</i>	Backup current configuration to the disk revisions.		
tls-certificate	Custom TLS certificate for API request.	string	Maximum length: 35	
forticare-email	Enable/disable use of your FortiCare email address as the email-to address.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable use of your FortiCare email address as the email-to address.		
	<i>disable</i>	Disable use of your FortiCare email address as the email-to address.		
email-to <name>	Email addresses. Email address.	string	Maximum length: 255	
email-from	Email sender name.	var-string	Maximum length: 127	
email-subject	Email subject.	var-string	Maximum length: 511	
minimum-interval	Limit execution to no more than once in this interval (in seconds).	integer	Minimum value: 0 Maximum value: 2592000	0
aws-api-key	AWS API Gateway API key.	password	Not Specified	
azure-function-authorization	Azure function authorization level.	option	-	anonymous
	Option	Description		
	<i>anonymous</i>	Anonymous authorization level (No authorization required).		
	<i>function</i>	Function authorization level (Function or Host Key required).		
	<i>admin</i>	Admin authorization level (Master Host Key required).		
azure-api-key	Azure function API key.	password	Not Specified	

Parameter	Description	Type	Size	Default						
alicloud-function-authorization	AliCloud function authorization type.	option	-	anonymous						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>anonymous</i></td><td>Anonymous authorization (No authorization required).</td></tr><tr><td><i>function</i></td><td>Function authorization (Authorization required).</td></tr></table>	Option	Description	<i>anonymous</i>	Anonymous authorization (No authorization required).	<i>function</i>	Function authorization (Authorization required).			
Option	Description									
<i>anonymous</i>	Anonymous authorization (No authorization required).									
<i>function</i>	Function authorization (Authorization required).									
alicloud-access-key-id	AliCloud AccessKey ID.	string	Maximum length: 35							
alicloud-access-key-secret	AliCloud AccessKey secret.	password	Not Specified							
message-type	Message type.	option	-	text						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>text</i></td><td>Plaintext.</td></tr><tr><td><i>json</i></td><td>Custom JSON.</td></tr></table>	Option	Description	<i>text</i>	Plaintext.	<i>json</i>	Custom JSON.			
Option	Description									
<i>text</i>	Plaintext.									
<i>json</i>	Custom JSON.									
message	Message content.	string	Maximum length: 4095	%%log%%						
replacement-message	Enable/disable replacement message.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable replacement message.</td></tr><tr><td><i>disable</i></td><td>Disable replacement message.</td></tr></table>	Option	Description	<i>enable</i>	Enable replacement message.	<i>disable</i>	Disable replacement message.			
Option	Description									
<i>enable</i>	Enable replacement message.									
<i>disable</i>	Disable replacement message.									
replacemsg-group	Replacement message group.	string	Maximum length: 35							
protocol	Request protocol.	option	-	http						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>http</i></td><td>HTTP.</td></tr><tr><td><i>https</i></td><td>HTTPS.</td></tr></table>	Option	Description	<i>http</i>	HTTP.	<i>https</i>	HTTPS.			
Option	Description									
<i>http</i>	HTTP.									
<i>https</i>	HTTPS.									
method	Request method (POST, PUT, GET, PATCH or DELETE).	option	-	post						

Parameter	Description	Type	Size	Default												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>post</i></td><td>POST.</td></tr><tr><td><i>put</i></td><td>PUT.</td></tr><tr><td><i>get</i></td><td>GET.</td></tr><tr><td><i>patch</i></td><td>PATCH.</td></tr><tr><td><i>delete</i></td><td>DELETE.</td></tr></table>	Option	Description	<i>post</i>	POST.	<i>put</i>	PUT.	<i>get</i>	GET.	<i>patch</i>	PATCH.	<i>delete</i>	DELETE.			
	Option	Description														
	<i>post</i>	POST.														
	<i>put</i>	PUT.														
	<i>get</i>	GET.														
	<i>patch</i>	PATCH.														
	<i>delete</i>	DELETE.														
uri	Request API URI.	var-string	Maximum length: 1023													
http-body	Request body (if necessary). Should be serialized json string.	var-string	Maximum length: 4095													
port	Protocol port.	integer	Minimum value: 1 Maximum value: 65535	0												
verify-host-cert	Enable/disable verification of the remote host certificate.	option	-	enable												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable verification of the remote host certificate.</td></tr><tr><td><i>disable</i></td><td>Disable verification of the remote host certificate.</td></tr></table>	Option	Description	<i>enable</i>	Enable verification of the remote host certificate.	<i>disable</i>	Disable verification of the remote host certificate.									
	Option	Description														
	<i>enable</i>	Enable verification of the remote host certificate.														
<i>disable</i>	Disable verification of the remote host certificate.															
script	CLI script.	var-string	Maximum length: 1023													
output-size	Number of megabytes to limit script output to (1 - 1024, default = 10).	integer	Minimum value: 1 Maximum value: 1024	10												
timeout	Maximum running time for this script in seconds (0 = no timeout).	integer	Minimum value: 0 Maximum value: 300	0												
password	Script password to replace %%PASSWD%% tag in the script. Use cases include replacing a password tag for sftp/ftp server password.	password	Not Specified													
execute-security-fabric	Enable/disable execution of CLI script on all or only one FortiGate unit in the Security Fabric.	option	-	disable												

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	CLI script executes on all FortiGate units in the Security Fabric.		
	<i>disable</i>	CLI script executes only on the FortiGate unit that the stitch is triggered.		
accprofile	Access profile for CLI script action to access FortiProxy features.	string	Maximum length: 35	
security-tag	NSX security tag.	string	Maximum length: 255	
sdn-connector <name>	NSX SDN connector names. SDN connector name.	string	Maximum length: 79	

config http-headers

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
key	Request header key.	var-string	Maximum length: 1023	
value	Request header value.	var-string	Maximum length: 4095	

config system automation-condition

Condition for automation stitches.

```

config system automation-condition
    Description: Condition for automation stitches.
    edit <name>
        set description {var-string}
        set condition-type [cpu|memory|...]
        set cpu-usage-percent {integer}
        set mem-usage-percent {integer}
        set vdom {string}
        set vpn-tunnel-name {string}
        set vpn-tunnel-state [tunnel-up|tunnel-down]
    next
end

```


config system automation-condition

Parameter	Description	Type	Size	Default								
name	Name.	string	Maximum length: 35									
description	Description.	var-string	Maximum length: 255									
condition-type	Condition type.	option	-	cpu								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>cpu</i></td><td>CPU usage condition,</td></tr><tr><td><i>memory</i></td><td>Memory usage condition,</td></tr><tr><td><i>vpn</i></td><td>VPN state condition.</td></tr></table>				Option	Description	<i>cpu</i>	CPU usage condition,	<i>memory</i>	Memory usage condition,	<i>vpn</i>	VPN state condition.
Option	Description											
<i>cpu</i>	CPU usage condition,											
<i>memory</i>	Memory usage condition,											
<i>vpn</i>	VPN state condition.											
cpu-usage-percent	CPU usage reaches specified percentage.	integer	Minimum value: 0 Maximum value: 100	0								
mem-usage-percent	Memory usage reaches specified percentage.	integer	Minimum value: 0 Maximum value: 100	0								
vdom	Virtual domain which the tunnel belongs to.	string	Maximum length: 31	root								
vpn-tunnel-name	VPN tunnel name.	string	Maximum length: 79									
vpn-tunnel-state	VPN tunnel state.	option	-	tunnel-up								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>tunnel-up</i></td><td>VPN tunnel is up.</td></tr><tr><td><i>tunnel-down</i></td><td>VPN tunnel is down.</td></tr></table>				Option	Description	<i>tunnel-up</i>	VPN tunnel is up.	<i>tunnel-down</i>	VPN tunnel is down.		
Option	Description											
<i>tunnel-up</i>	VPN tunnel is up.											
<i>tunnel-down</i>	VPN tunnel is down.											

config system automation-destination

Automation destinations.

```
config system automation-destination
  Description: Automation destinations.
  edit <name>
    set type [fortiproxy|ha-cluster]
    set destination <name1>, <name2>, ...
```

```

        set ha-group-id {integer}
    next
end

```

config system automation-destination

Parameter	Description	Type	Size	Default						
name	Name.	string	Maximum length: 35							
type	Destination type.	option	-	fortiproxy						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>fortiproxy</i></td><td>FortiProxy set as destination.</td></tr><tr><td><i>ha-cluster</i></td><td>HA cluster set as destination.</td></tr></table>				Option	Description	<i>fortiproxy</i>	FortiProxy set as destination.	<i>ha-cluster</i>	HA cluster set as destination.
	Option	Description								
	<i>fortiproxy</i>	FortiProxy set as destination.								
<i>ha-cluster</i>	HA cluster set as destination.									
destination <name>	Destinations. Destination.	string	Maximum length: 31							
ha-group-id	Cluster group ID set for this destination (default = 0).	integer	Minimum value: 0 Maximum value: 255	0						

config system automation-stitch

Automation stitches.

```

config system automation-stitch
    Description: Automation stitches.
    edit <name>
        set description {var-string}
        set status [enable|disable]
        set trigger {string}
        set condition <name1>, <name2>, ...
        set condition-logic [and|or]
        config actions
            Description: Configure stitch actions.
            edit <id>
                set action {string}
                set delay {integer}
                set required [enable|disable]
            next
        end
        set destination <name1>, <name2>, ...
    next
end

```

config system automation-stitch

Parameter	Description	Type	Size	Default						
name	Name.	string	Maximum length: 35							
description	Description.	var-string	Maximum length: 255							
status	Enable/disable this stitch.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable stitch.</td></tr><tr><td><i>disable</i></td><td>Disable stitch.</td></tr></table>				Option	Description	<i>enable</i>	Enable stitch.	<i>disable</i>	Disable stitch.
Option	Description									
<i>enable</i>	Enable stitch.									
<i>disable</i>	Disable stitch.									
trigger	Trigger name.	string	Maximum length: 35							
condition <name>	Automation conditions. Condition name.	string	Maximum length: 79							
condition-logic	Apply AND/OR logic to the specified automation conditions.	option	-	and						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>and</i></td><td>All specified conditions must be met.</td></tr><tr><td><i>or</i></td><td>At least one specified condition needs to be met.</td></tr></table>				Option	Description	<i>and</i>	All specified conditions must be met.	<i>or</i>	At least one specified condition needs to be met.
Option	Description									
<i>and</i>	All specified conditions must be met.									
<i>or</i>	At least one specified condition needs to be met.									
destination <name>	Serial number/HA group-name of destination devices. Destination name.	string	Maximum length: 79							

config actions

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
action	Action name.	string	Maximum length: 64	
delay	Delay before execution (in seconds).	integer	Minimum value: 0 Maximum value: 3600	0

Parameter	Description	Type	Size	Default
required	Required in action chain.	option	-	disable
	Option	Description		
	<i>enable</i>	Required in action chain.		
	<i>disable</i>	Not required in action chain.		

config system automation-trigger

Trigger for automation stitches.

```

config system automation-trigger
  Description: Trigger for automation stitches.
  edit <name>
    set description {var-string}
    set trigger-type [event-based|scheduled]
    set event-type [ioc|event-log|...]
    set vdom <name1>, <name2>, ...
    set license-type [forticare-support|fortiguard-webfilter|...]
    set report-type [posture|coverage|...]
    set logid <id1>, <id2>, ...
    set trigger-frequency [hourly|daily|...]
    set trigger-weekday [sunday|monday|...]
    set trigger-day {integer}
    set trigger-hour {integer}
    set trigger-minute {integer}
    set trigger-datetime {datetime}
    config fields
      Description: Customized trigger field settings.
      edit <id>
        set name {string}
        set value {var-string}
      next
    end
    set faz-event-name {var-string}
    set faz-event-severity {var-string}
    set faz-event-tags {var-string}
    set serial {var-string}
    set fabric-event-name {var-string}
    set fabric-event-severity {var-string}
  next
end

```

config system automation-trigger

Parameter	Description	Type	Size	Default																																
name	Name.	string	Maximum length: 35																																	
description	Description.	var-string	Maximum length: 255																																	
trigger-type	Trigger type.	option	-	event-based																																
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>event-based</i></td><td>Event based trigger.</td></tr><tr><td><i>scheduled</i></td><td>Scheduled trigger.</td></tr></table>				Option	Description	<i>event-based</i>	Event based trigger.	<i>scheduled</i>	Scheduled trigger.																										
	Option	Description																																		
	<i>event-based</i>	Event based trigger.																																		
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event-type	Event type.	option	-	ioc																																
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>ioc</i></td><td>Indicator of compromise detected.</td></tr><tr><td><i>event-log</i></td><td>Use log ID as trigger.</td></tr><tr><td><i>reboot</i></td><td>Device reboot.</td></tr><tr><td><i>low-memory</i></td><td>Conserve mode due to low memory.</td></tr><tr><td><i>high-cpu</i></td><td>High CPU usage.</td></tr><tr><td><i>license-near-expiry</i></td><td>License near expiration date.</td></tr><tr><td><i>local-cert-near-expiry</i></td><td>The local certificate near expiration date.</td></tr><tr><td><i>ha-failover</i></td><td>HA failover.</td></tr><tr><td><i>config-change</i></td><td>Configuration change.</td></tr><tr><td><i>security-rating-summary</i></td><td>Security rating summary.</td></tr><tr><td><i>virus-ips-db-updated</i></td><td>Virus and IPS database updated.</td></tr><tr><td><i>faz-event</i></td><td>FortiAnalyzer event.</td></tr><tr><td><i>incoming-webhook</i></td><td>Incoming webhook call.</td></tr><tr><td><i>fabric-event</i></td><td>Fabric connector event.</td></tr><tr><td><i>ips-logs</i></td><td>IPS logs.</td></tr></table>				Option	Description	<i>ioc</i>	Indicator of compromise detected.	<i>event-log</i>	Use log ID as trigger.	<i>reboot</i>	Device reboot.	<i>low-memory</i>	Conserve mode due to low memory.	<i>high-cpu</i>	High CPU usage.	<i>license-near-expiry</i>	License near expiration date.	<i>local-cert-near-expiry</i>	The local certificate near expiration date.	<i>ha-failover</i>	HA failover.	<i>config-change</i>	Configuration change.	<i>security-rating-summary</i>	Security rating summary.	<i>virus-ips-db-updated</i>	Virus and IPS database updated.	<i>faz-event</i>	FortiAnalyzer event.	<i>incoming-webhook</i>	Incoming webhook call.	<i>fabric-event</i>	Fabric connector event.	<i>ips-logs</i>	IPS logs.
	Option	Description																																		
	<i>ioc</i>	Indicator of compromise detected.																																		
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	<i>low-memory</i>	Conserve mode due to low memory.																																		
	<i>high-cpu</i>	High CPU usage.																																		
	<i>license-near-expiry</i>	License near expiration date.																																		
	<i>local-cert-near-expiry</i>	The local certificate near expiration date.																																		
	<i>ha-failover</i>	HA failover.																																		
	<i>config-change</i>	Configuration change.																																		
	<i>security-rating-summary</i>	Security rating summary.																																		
	<i>virus-ips-db-updated</i>	Virus and IPS database updated.																																		
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	<i>incoming-webhook</i>	Incoming webhook call.																																		
<i>fabric-event</i>	Fabric connector event.																																			
<i>ips-logs</i>	IPS logs.																																			

Parameter	Description	Type	Size	Default																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>anomaly-logs</i></td><td>Anomaly logs.</td></tr><tr><td><i>virus-logs</i></td><td>Virus logs.</td></tr><tr><td><i>ssh-logs</i></td><td>SSH logs.</td></tr><tr><td><i>webfilter-violation</i></td><td>Webfilter violation.</td></tr><tr><td><i>traffic-violation</i></td><td>Traffic violation.</td></tr></table>	Option	Description	<i>anomaly-logs</i>	Anomaly logs.	<i>virus-logs</i>	Virus logs.	<i>ssh-logs</i>	SSH logs.	<i>webfilter-violation</i>	Webfilter violation.	<i>traffic-violation</i>	Traffic violation.									
	Option	Description																				
	<i>anomaly-logs</i>	Anomaly logs.																				
	<i>virus-logs</i>	Virus logs.																				
	<i>ssh-logs</i>	SSH logs.																				
	<i>webfilter-violation</i>	Webfilter violation.																				
	<i>traffic-violation</i>	Traffic violation.																				
vdom <name>	Virtual domain(s) that this trigger is valid for. Virtual domain name.	string	Maximum length: 79																			
license-type	License type.	option	-	forticare-support																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>forticare-support</i></td><td>FortiCare support license.</td></tr><tr><td><i>fortiguard-webfilter</i></td><td>FortiGuard web filter license.</td></tr><tr><td><i>fortiguard-antispam</i></td><td>FortiGuard antispam license.</td></tr><tr><td><i>fortiguard-antivirus</i></td><td>FortiGuard AntiVirus license.</td></tr><tr><td><i>fortiguard-ips</i></td><td>FortiGuard IPS license.</td></tr><tr><td><i>fortiguard-management</i></td><td>FortiGuard management service license.</td></tr><tr><td><i>forticloud</i></td><td>FortiCloud license.</td></tr><tr><td><i>any</i></td><td>Any license.</td></tr></table>	Option	Description	<i>forticare-support</i>	FortiCare support license.	<i>fortiguard-webfilter</i>	FortiGuard web filter license.	<i>fortiguard-antispam</i>	FortiGuard antispam license.	<i>fortiguard-antivirus</i>	FortiGuard AntiVirus license.	<i>fortiguard-ips</i>	FortiGuard IPS license.	<i>fortiguard-management</i>	FortiGuard management service license.	<i>forticloud</i>	FortiCloud license.	<i>any</i>	Any license.			
	Option	Description																				
	<i>forticare-support</i>	FortiCare support license.																				
	<i>fortiguard-webfilter</i>	FortiGuard web filter license.																				
	<i>fortiguard-antispam</i>	FortiGuard antispam license.																				
	<i>fortiguard-antivirus</i>	FortiGuard AntiVirus license.																				
	<i>fortiguard-ips</i>	FortiGuard IPS license.																				
	<i>fortiguard-management</i>	FortiGuard management service license.																				
<i>forticloud</i>	FortiCloud license.																					
<i>any</i>	Any license.																					
report-type	Security Rating report.	option	-	posture																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>posture</i></td><td>Posture report.</td></tr><tr><td><i>coverage</i></td><td>Coverage report.</td></tr><tr><td><i>optimization</i></td><td>Optimization report</td></tr><tr><td><i>any</i></td><td>Any report.</td></tr></table>	Option	Description	<i>posture</i>	Posture report.	<i>coverage</i>	Coverage report.	<i>optimization</i>	Optimization report	<i>any</i>	Any report.											
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	<i>posture</i>	Posture report.																				
	<i>coverage</i>	Coverage report.																				
	<i>optimization</i>	Optimization report																				
<i>any</i>	Any report.																					

Parameter	Description	Type	Size	Default																
logid <id>	Log IDs to trigger event. Log ID.	integer	Minimum value: 1 Maximum value: 65535																	
trigger-frequency	Scheduled trigger frequency (default = daily).	option	-	daily																
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>hourly</td><td>Run hourly.</td></tr><tr><td>daily</td><td>Run daily.</td></tr><tr><td>weekly</td><td>Run weekly.</td></tr><tr><td>monthly</td><td>Run monthly.</td></tr><tr><td>once</td><td>Run once at specified date time.</td></tr></table>	Option	Description	hourly	Run hourly.	daily	Run daily.	weekly	Run weekly.	monthly	Run monthly.	once	Run once at specified date time.							
Option	Description																			
hourly	Run hourly.																			
daily	Run daily.																			
weekly	Run weekly.																			
monthly	Run monthly.																			
once	Run once at specified date time.																			
trigger-weekday	Day of week for trigger.	option	-																	
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>sunday</td><td>Sunday.</td></tr><tr><td>monday</td><td>Monday.</td></tr><tr><td>tuesday</td><td>Tuesday.</td></tr><tr><td>wednesday</td><td>Wednesday.</td></tr><tr><td>thursday</td><td>Thursday.</td></tr><tr><td>friday</td><td>Friday.</td></tr><tr><td>saturday</td><td>Saturday.</td></tr></table>	Option	Description	sunday	Sunday.	monday	Monday.	tuesday	Tuesday.	wednesday	Wednesday.	thursday	Thursday.	friday	Friday.	saturday	Saturday.			
Option	Description																			
sunday	Sunday.																			
monday	Monday.																			
tuesday	Tuesday.																			
wednesday	Wednesday.																			
thursday	Thursday.																			
friday	Friday.																			
saturday	Saturday.																			
trigger-day	Day within a month to trigger.	integer	Minimum value: 1 Maximum value: 31	1																
trigger-hour	Hour of the day on which to trigger (0 - 23, default = 1).	integer	Minimum value: 0 Maximum value: 23	0																
trigger-minute	Minute of the hour on which to trigger (0 - 59, default = 0).	integer	Minimum value: 0 Maximum value: 59	0																

Parameter	Description	Type	Size	Default
trigger-datetime	Trigger date and time (YYYY-MM-DD HH:MM:SS).	datetime	Not Specified	0000-00-00 00:00:00
faz-event-name	FortiAnalyzer event handler name.	var-string	Maximum length: 255	
faz-event-severity	FortiAnalyzer event severity.	var-string	Maximum length: 255	
faz-event-tags	FortiAnalyzer event tags.	var-string	Maximum length: 255	
serial	Fabric connector serial number.	var-string	Maximum length: 255	
fabric-event-name	Fabric connector event handler name.	var-string	Maximum length: 255	
fabric-event-severity	Fabric connector event severity.	var-string	Maximum length: 255	

config fields

Parameter	Description	Type	Size	Default
id	Entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
name	Name.	string	Maximum length: 35	
value	Value.	var-string	Maximum length: 63	

config system autoupdate schedule

Configure update schedule.

```
config system autoupdate schedule
    Description: Configure update schedule.
    set status [enable|disable]
    set frequency [every|daily|...]
    set time {user}
    set day [Sunday|Monday|...]
end
```


config system autoupdate schedule

Parameter	Description	Type	Size	Default
status	Enable/disable scheduled updates.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
frequency	Update frequency.	option	-	automatic
	Option	Description		
	<i>every</i>	Time interval.		
	<i>daily</i>	Every day.		
	<i>weekly</i>	Every week.		
	<i>automatic</i>	Update automatically within every one hour period.		
time	Update time.	user	Not Specified	
day	Update day.	option	-	Monday
	Option	Description		
	<i>Sunday</i>	Update every Sunday.		
	<i>Monday</i>	Update every Monday.		
	<i>Tuesday</i>	Update every Tuesday.		
	<i>Wednesday</i>	Update every Wednesday.		
	<i>Thursday</i>	Update every Thursday.		
	<i>Friday</i>	Update every Friday.		
	<i>Saturday</i>	Update every Saturday.		

config system autoupdate tunneling

Configure web proxy tunneling for the FDN.

```
config system autoupdate tunneling
  Description: Configure web proxy tunneling for the FDN.
  set status [enable|disable]
  set address {string}
  set port {integer}
  set username {string}
```

```

    set password {password}
end

```

config system autoupdate tunneling

Parameter	Description	Type	Size	Default						
status	Enable/disable web proxy tunneling.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>				Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.
	Option	Description								
	<i>enable</i>	Enable setting.								
<i>disable</i>	Disable setting.									
address	Web proxy IP address or FQDN.	string	Maximum length: 63							
port	Web proxy port.	integer	Minimum value: 0 Maximum value: 65535	0						
username	Web proxy username.	string	Maximum length: 49							
password	Web proxy password.	password	Not Specified							

config system auto-install

Configure USB auto installation.

```

config system auto-install
    Description: Configure USB auto installation.
    set auto-install-config [enable|disable]
    set auto-install-image [enable|disable]
    set default-config-file {string}
    set default-image-file {string}
end

```

config system auto-install

Parameter	Description	Type	Size	Default
auto-install-config	Enable/disable auto install the config in USB disk.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable config.		
	<i>disable</i>	Disable config.		
auto-install-image	Enable/disable auto install the image in USB disk.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable config.		
	<i>disable</i>	Disable config.		
default-config-file	Default config file name in USB disk.	string	Maximum length: 127	fpx_system.conf
default-image-file	Default image file name in USB disk.	string	Maximum length: 127	image.out

config system auto-script

Configure auto script.

```

config system auto-script
    Description: Configure auto script.
    edit <name>
        set interval {integer}
        set repeat {integer}
        set start [manual|auto]
        set script {var-string}
        set password {password}
        set output-size {integer}
        set timeout {integer}
    next
end

```

config system auto-script

Parameter	Description	Type	Size	Default
name	Auto script name.	string	Maximum length: 35	

Parameter	Description	Type	Size	Default
interval	Repeat interval in seconds.	integer	Minimum value: 0 Maximum value: 31557600	0
repeat	Number of times to repeat this script (0 = infinite).	integer	Minimum value: 0 Maximum value: 65535	1
start	Script starting mode.	option	-	manual
	Option	Description		
	manual	Starting manually.		
	auto	Starting automatically.		
script	List of FortiProxy CLI commands to repeat.	var-string	Maximum length: 1023	
password	Script password to replace %%PASSWD%% tag in the script. Use cases include replacing a password tag for sftp/ftp server password.	password	Not Specified	
output-size	Number of megabytes to limit script output to (10 - 1024, default = 10).	integer	Minimum value: 10 Maximum value: 1024	10
timeout	Maximum running time for this script in seconds (0 = no timeout).	integer	Minimum value: 0 Maximum value: 300	0

config system auto-update status

Status of automatic updates.

```
config system auto-update status
    Description: Status of automatic updates.
end
```

config system auto-update versions

Update object versions.

```

config system auto-update versions
    Description: Update object versions.
end

```

config system central-management

Configure central management.

```

config system central-management
    Description: Configure central management.
    set mode [normal|backup]
    set type [fortimanager|fortiguard|...]
    set fortigate-cloud-sso-default-profile {string}
    set schedule-config-restore [enable|disable]
    set schedule-script-restore [enable|disable]
    set allow-push-configuration [enable|disable]
    set allow-push-firmware [enable|disable]
    set allow-remote-firmware-upgrade [enable|disable]
    set allow-monitor [enable|disable]
    set serial-number {user}
    set fmg {user}
    set fmg-source-ip {ipv4-address}
    set fmg-source-ip6 {ipv6-address}
    set local-cert {string}
    set ca-cert {user}
    set vdom {string}
    config server-list
        Description: Additional servers that the FortiProxy can use for updates (for AV, IPS,
updates) and ratings (for web filter and antispam ratings) servers.
        edit <id>
            set server-type {option1}, {option2}, ...
            set addr-type [ipv4|ipv6|...]
            set server-address {ipv4-address}
            set server-address6 {ipv6-address}
            set fqdn {string}
        next
    end
    set fmg-update-port [8890|443]
    set include-default-servers [enable|disable]
    set enc-algorithm [default|high|...]
    set interface-select-method [auto|specify]
    set interface {string}
end

```

config system central-management

Parameter	Description	Type	Size	Default
mode	Central management mode.	option	-	normal

Parameter	Description	Type	Size	Default								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>normal</i></td><td>Manage and configure this FortiProxy from FortiManager.</td></tr><tr><td><i>backup</i></td><td>Manage and configure this FortiProxy locally and back up its configuration to FortiManager.</td></tr></table>	Option	Description	<i>normal</i>	Manage and configure this FortiProxy from FortiManager.	<i>backup</i>	Manage and configure this FortiProxy locally and back up its configuration to FortiManager.					
	Option	Description										
	<i>normal</i>	Manage and configure this FortiProxy from FortiManager.										
<i>backup</i>	Manage and configure this FortiProxy locally and back up its configuration to FortiManager.											
type	Central management type.	option	-	none								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>fortimanager</i></td><td>FortiManager.</td></tr><tr><td><i>fortiguard</i></td><td>Central management of this FortiProxy using FortiCloud.</td></tr><tr><td><i>none</i></td><td>No central management.</td></tr></table>	Option	Description	<i>fortimanager</i>	FortiManager.	<i>fortiguard</i>	Central management of this FortiProxy using FortiCloud.	<i>none</i>	No central management.			
	Option	Description										
	<i>fortimanager</i>	FortiManager.										
	<i>fortiguard</i>	Central management of this FortiProxy using FortiCloud.										
<i>none</i>	No central management.											
fortigate-cloud-sso-default-profile	Override access profile.	string	Maximum length: 35									
schedule-config-restore	Enable/disable allowing the central management server to restore the configuration of this FortiProxy.	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable scheduled configuration restore.</td></tr><tr><td><i>disable</i></td><td>Disable scheduled configuration restore.</td></tr></table>	Option	Description	<i>enable</i>	Enable scheduled configuration restore.	<i>disable</i>	Disable scheduled configuration restore.					
	Option	Description										
	<i>enable</i>	Enable scheduled configuration restore.										
<i>disable</i>	Disable scheduled configuration restore.											
schedule-script-restore	Enable/disable allowing the central management server to restore the scripts stored on this FortiProxy.	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable scheduled script restore.</td></tr><tr><td><i>disable</i></td><td>Disable scheduled script restore.</td></tr></table>	Option	Description	<i>enable</i>	Enable scheduled script restore.	<i>disable</i>	Disable scheduled script restore.					
	Option	Description										
	<i>enable</i>	Enable scheduled script restore.										
<i>disable</i>	Disable scheduled script restore.											
allow-push-configuration	Enable/disable allowing the central management server to push configuration changes to this FortiProxy.	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable push configuration.</td></tr><tr><td><i>disable</i></td><td>Disable push configuration.</td></tr></table>	Option	Description	<i>enable</i>	Enable push configuration.	<i>disable</i>	Disable push configuration.					
	Option	Description										
	<i>enable</i>	Enable push configuration.										
<i>disable</i>	Disable push configuration.											
allow-push-firmware	Enable/disable allowing the central management server to push firmware updates to this FortiProxy.	option	-	enable								

Parameter	Description	Type	Size	Default						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable push firmware.</td></tr><tr><td><i>disable</i></td><td>Disable push firmware.</td></tr></table>	Option	Description	<i>enable</i>	Enable push firmware.	<i>disable</i>	Disable push firmware.			
	Option	Description								
	<i>enable</i>	Enable push firmware.								
<i>disable</i>	Disable push firmware.									
allow-remote-firmware-upgrade	Enable/disable remotely upgrading the firmware on this FortiProxy from the central management server.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable remote firmware upgrade.</td></tr><tr><td><i>disable</i></td><td>Disable remote firmware upgrade.</td></tr></table>	Option	Description	<i>enable</i>	Enable remote firmware upgrade.	<i>disable</i>	Disable remote firmware upgrade.			
	Option	Description								
	<i>enable</i>	Enable remote firmware upgrade.								
<i>disable</i>	Disable remote firmware upgrade.									
allow-monitor	Enable/disable allowing the central management server to remotely monitor this FortiProxy unit.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable remote monitoring of device.</td></tr><tr><td><i>disable</i></td><td>Disable remote monitoring of device.</td></tr></table>	Option	Description	<i>enable</i>	Enable remote monitoring of device.	<i>disable</i>	Disable remote monitoring of device.			
	Option	Description								
	<i>enable</i>	Enable remote monitoring of device.								
<i>disable</i>	Disable remote monitoring of device.									
serial-number	Serial number.	user	Not Specified							
fmg	IP address or FQDN of the FortiManager.	user	Not Specified							
fmg-source-ip	IPv4 source address that this FortiProxy uses when communicating with FortiManager.	ipv4-address	Not Specified	0.0.0.0						
fmg-source-ip6	IPv6 source address that this FortiProxy uses when communicating with FortiManager.	ipv6-address	Not Specified	::						
local-cert	Certificate to be used by FGFM protocol.	string	Maximum length: 35							
ca-cert	CA certificate to be used by FGFM protocol.	user	Not Specified							
vdom	Virtual domain (VDM) name to use when communicating with FortiManager.	string	Maximum length: 31	root						
fmg-update-port	Port used to communicate with FortiManager that is acting as a FortiGuard update server.	option	-	8890						

Parameter	Description	Type	Size	Default								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>8890</td><td>Use port 8890 to communicate with FortiManager that is acting as a FortiGuard update server.</td></tr><tr><td>443</td><td>Use port 443 to communicate with FortiManager that is acting as a FortiGuard update server.</td></tr></table>	Option	Description	8890	Use port 8890 to communicate with FortiManager that is acting as a FortiGuard update server.	443	Use port 443 to communicate with FortiManager that is acting as a FortiGuard update server.					
	Option	Description										
	8890	Use port 8890 to communicate with FortiManager that is acting as a FortiGuard update server.										
443	Use port 443 to communicate with FortiManager that is acting as a FortiGuard update server.											
include-default-servers	Enable/disable inclusion of public FortiGuard servers in the override server list.	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable inclusion of public FortiGuard servers in the override server list.</td></tr><tr><td>disable</td><td>Disable inclusion of public FortiGuard servers in the override server list.</td></tr></table>	Option	Description	enable	Enable inclusion of public FortiGuard servers in the override server list.	disable	Disable inclusion of public FortiGuard servers in the override server list.					
	Option	Description										
	enable	Enable inclusion of public FortiGuard servers in the override server list.										
disable	Disable inclusion of public FortiGuard servers in the override server list.											
enc-algorithm	Encryption strength for communications between the FortiProxy and central management.	option	-	high								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>default</td><td>High strength algorithms and medium-strength 128-bit key length algorithms.</td></tr><tr><td>high</td><td>128-bit and larger key length algorithms.</td></tr><tr><td>low</td><td>64-bit or 56-bit key length algorithms without export restrictions.</td></tr></table>	Option	Description	default	High strength algorithms and medium-strength 128-bit key length algorithms.	high	128-bit and larger key length algorithms.	low	64-bit or 56-bit key length algorithms without export restrictions.			
	Option	Description										
	default	High strength algorithms and medium-strength 128-bit key length algorithms.										
	high	128-bit and larger key length algorithms.										
low	64-bit or 56-bit key length algorithms without export restrictions.											
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>auto</td><td>Set outgoing interface automatically.</td></tr><tr><td>specify</td><td>Set outgoing interface manually.</td></tr></table>	Option	Description	auto	Set outgoing interface automatically.	specify	Set outgoing interface manually.					
	Option	Description										
	auto	Set outgoing interface automatically.										
specify	Set outgoing interface manually.											
interface	Specify outgoing interface to reach server.	string	Maximum length: 15									

config server-list

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
server-type	FortiGuard service type.	option	-	

Parameter	Description	Type	Size	Default										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>update</i></td><td>AV, IPS, and AV-query update server.</td></tr><tr><td><i>rating</i></td><td>Web filter and anti-spam rating server.</td></tr><tr><td><i>iot-query</i></td><td>IoT query server.</td></tr><tr><td><i>iot-collect</i></td><td>IoT device collection server.</td></tr></table>	Option	Description	<i>update</i>	AV, IPS, and AV-query update server.	<i>rating</i>	Web filter and anti-spam rating server.	<i>iot-query</i>	IoT query server.	<i>iot-collect</i>	IoT device collection server.			
	Option	Description												
	<i>update</i>	AV, IPS, and AV-query update server.												
	<i>rating</i>	Web filter and anti-spam rating server.												
	<i>iot-query</i>	IoT query server.												
<i>iot-collect</i>	IoT device collection server.													
addr-type	Indicate whether the FortiProxy communicates with the override server using an IPv4 address, an IPv6 address or a FQDN.	option	-	ipv4										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>ipv4</i></td><td>IPv4 address.</td></tr><tr><td><i>ipv6</i></td><td>IPv6 address.</td></tr><tr><td><i>fqdn</i></td><td>FQDN.</td></tr></table>	Option	Description	<i>ipv4</i>	IPv4 address.	<i>ipv6</i>	IPv6 address.	<i>fqdn</i>	FQDN.					
	Option	Description												
	<i>ipv4</i>	IPv4 address.												
	<i>ipv6</i>	IPv6 address.												
<i>fqdn</i>	FQDN.													
server-address	IPv4 address of override server.	ipv4-address	Not Specified	0.0.0.0										
server-address6	IPv6 address of override server.	ipv6-address	Not Specified	::										
fqdn	FQDN address of override server.	string	Maximum length: 255											

config system central-mgmt

Configuration of Central Management Service.

```
config system central-mgmt
    Description: Configuration of Central Management Service.
end
```

config system checksum status

System checksum.

```
config system checksum status
    Description: System checksum.
end
```

config system cloud-service

Configure system cloud service.

```
config system cloud-service
  Description: Configure system cloud service.
  edit <name>
    set vendor [unknown|google-cloud-kms]
    set traffic-vdom {string}
    set gck-service-account {string}
    set gck-private-key {password_aes256}
    set gck-keyid {string}
    set gck-access-token-lifetime {integer}
  next
end
```

config system cloud-service

Parameter	Description	Type	Size	Default						
name	Name.	string	Maximum length: 35							
vendor	Cloud service vendor.	option	-	unknown						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>unknown</i></td><td>Unknown type of cloud service vendor.</td></tr><tr><td><i>google-cloud-kms</i></td><td>Google Cloud KMS service.</td></tr></table>	Option	Description	<i>unknown</i>	Unknown type of cloud service vendor.	<i>google-cloud-kms</i>	Google Cloud KMS service.			
Option	Description									
<i>unknown</i>	Unknown type of cloud service vendor.									
<i>google-cloud-kms</i>	Google Cloud KMS service.									
traffic-vdom	Vdom used to communicate with cloud service.	string	Maximum length: 31							
gck-service-account	Service account (e.g. "account-id@sampledomain.com").	string	Maximum length: 255							
gck-private-key	Service account private key in PEM format (e.g. "-----BEGIN PRIVATE KEY-----\ ...").	password_aes256	Not Specified							
gck-keyid	Key id, also referred as "kid".	string	Maximum length: 127							
gck-access-token-lifetime	Lifetime of automatically generated access tokens in minutes (default is 60 minutes).	integer	Minimum value: 1 Maximum value: 3600	60						

config system cmdb

System CMDB information.

```
config system cmdb
    Description: System CMDB information.
end
```

config system console

Configure console.

```
config system console
    Description: Configure console.
    set output [standard|more]
    set login [enable|disable]
end
```

config system console

Parameter	Description	Type	Size	Default						
output	Console output mode.	option	-	more						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>standard</i></td><td>Standard output.</td></tr><tr><td><i>more</i></td><td>More page output.</td></tr></table>	Option	Description	<i>standard</i>	Standard output.	<i>more</i>	More page output.			
Option	Description									
<i>standard</i>	Standard output.									
<i>more</i>	More page output.									
login	Enable/disable serial console and FortiExplorer.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Console login enable.</td></tr><tr><td><i>disable</i></td><td>Console login disable.</td></tr></table>	Option	Description	<i>enable</i>	Console login enable.	<i>disable</i>	Console login disable.			
Option	Description									
<i>enable</i>	Console login enable.									
<i>disable</i>	Console login disable.									

config system csf

Add this FortiProxy to a Security Fabric or set up a new Security Fabric on this FortiProxy.

```
config system csf
    Description: Add this FortiProxy to a Security Fabric or set up a new Security Fabric on
this FortiProxy.
    set status [enable|disable]
    set uid {string}
    set upstream {string}
    set source-ip {ipv4-address}
    set upstream-interface-select-method [auto|specify]
    set upstream-interface {string}
    set upstream-port {integer}
    set group-name {string}
    set group-password {password}
    set accept-auth-by-cert [disable|enable]
```

```

set log-unification [disable|enable]
set authorization-request-type [serial|certificate]
set certificate {string}
set fabric-workers {integer}
set downstream-access [enable|disable]
set license-sharing [enable|disable]
set preferred-seats {integer}
set legacy-authentication [disable|enable]
set downstream-accprofile {string}
set configuration-sync [default|local]
set fabric-object-unification [default|local]
set saml-configuration-sync [default|local]
config trusted-list
  Description: Pre-authorized and blocked security fabric nodes.
  edit <name>
    set authorization-type [serial|certificate]
    set serial {string}
    set certificate {var-string}
    set action [accept|deny]
    set ha-members {string}
    set downstream-authorization [enable|disable]
    set preferred-seats {integer}
    set index {integer}
  next
end
config fabric-connector
  Description: Fabric connector configuration.
  edit <serial>
    set accprofile {string}
    set configuration-write-access [enable|disable]
    set vdom <name1>, <name2>, ...
  next
end
set forticloud-account-enforcement [enable|disable]
set file-mgmt [enable|disable]
set file-quota {integer}
set file-quota-warning {integer}
end

```

config system csf

Parameter	Description	Type	Size	Default
status	Enable/disable Security Fabric.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable Security Fabric.		
	<i>disable</i>	Disable Security Fabric.		
uid	Unique ID of the current CSF node	string	Maximum length: 35	

Parameter	Description	Type	Size	Default						
upstream	IP/FQDN of the FortiProxy upstream from this FortiProxy in the Security Fabric.	string	Maximum length: 255							
source-ip	Source IP address for communication with the upstream FortiGate.	ipv4-address	Not Specified	0.0.0.0						
upstream-interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>auto</td><td>Set outgoing interface automatically.</td></tr><tr><td>specify</td><td>Set outgoing interface manually.</td></tr></table>				Option	Description	auto	Set outgoing interface automatically.	specify	Set outgoing interface manually.
Option	Description									
auto	Set outgoing interface automatically.									
specify	Set outgoing interface manually.									
upstream-interface	Specify outgoing interface to reach server.	string	Maximum length: 15							
upstream-port	The port number to use to communicate with the FortiProxy upstream from this FortiProxy in the Security Fabric (default = 8013).	integer	Minimum value: 1 Maximum value: 65535	8013						
group-name	Security Fabric group name. All FortiProxys in a Security Fabric must have the same group name.	string	Maximum length: 35							
group-password	Security Fabric group password. For legacy authentication, fabric members must have the same group password.	password	Not Specified							
accept-auth-by-cert	Accept connections with unknown certificates and ask admin for approval.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>Do not accept SSL connections with unknown certificates.</td></tr><tr><td>enable</td><td>Accept SSL connections without automatic certificate verification.</td></tr></table>				Option	Description	disable	Do not accept SSL connections with unknown certificates.	enable	Accept SSL connections without automatic certificate verification.
Option	Description									
disable	Do not accept SSL connections with unknown certificates.									
enable	Accept SSL connections without automatic certificate verification.									
log-unification	Enable/disable broadcast of discovery messages for log unification.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>Disable broadcast of discovery messages for log unification.</td></tr><tr><td>enable</td><td>Enable broadcast of discovery messages for log unification.</td></tr></table>				Option	Description	disable	Disable broadcast of discovery messages for log unification.	enable	Enable broadcast of discovery messages for log unification.
Option	Description									
disable	Disable broadcast of discovery messages for log unification.									
enable	Enable broadcast of discovery messages for log unification.									
authorization-request-type	Authorization request type.	option	-	serial						

Parameter	Description	Type	Size	Default						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>serial</i></td><td>Request verification by serial number.</td></tr><tr><td><i>certificate</i></td><td>Request verification by certificate.</td></tr></table>				Option	Description	<i>serial</i>	Request verification by serial number.	<i>certificate</i>	Request verification by certificate.
	Option	Description								
	<i>serial</i>	Request verification by serial number.								
<i>certificate</i>	Request verification by certificate.									
certificate	Certificate.	string	Maximum length: 35							
fabric-workers	Number of worker processes for Security Fabric daemon.	integer	Minimum value: 1 Maximum value: 4	2						
downstream-access	Enable/disable downstream device access to this device's configuration and data.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable downstream device access to this device's configuration and data.</td></tr><tr><td><i>disable</i></td><td>Disable downstream device access to this device's configuration and data.</td></tr></table>				Option	Description	<i>enable</i>	Enable downstream device access to this device's configuration and data.	<i>disable</i>	Disable downstream device access to this device's configuration and data.
	Option	Description								
	<i>enable</i>	Enable downstream device access to this device's configuration and data.								
<i>disable</i>	Disable downstream device access to this device's configuration and data.									
license-sharing	Enable/disable license sharing between FortiProxy devices.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable license sharing.</td></tr><tr><td><i>disable</i></td><td>Disable license sharing.</td></tr></table>				Option	Description	<i>enable</i>	Enable license sharing.	<i>disable</i>	Disable license sharing.
	Option	Description								
	<i>enable</i>	Enable license sharing.								
<i>disable</i>	Disable license sharing.									
preferred-seats	The number of seats this FortiProxy device as CSF root should be allocated with. The number of gurrantted seats is capped by minimum of the number of local purchased seats and the number of preferred seats. And the rest of preferred seats will be allocated from shared pool at higher priority.	integer	Minimum value: 0 Maximum value: 4294967295	0						
legacy-authentication	Enable/disable legacy authentication.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Do not accept legacy authentication requests.</td></tr><tr><td><i>enable</i></td><td>Accept legacy authentication requests.</td></tr></table>				Option	Description	<i>disable</i>	Do not accept legacy authentication requests.	<i>enable</i>	Accept legacy authentication requests.
	Option	Description								
	<i>disable</i>	Do not accept legacy authentication requests.								
<i>enable</i>	Accept legacy authentication requests.									
downstream-accpfile	Default access profile for requests from downstream devices.	string	Maximum length: 35							

Parameter	Description	Type	Size	Default						
configuration-sync	Configuration sync mode.	option	-	default						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>default</td><td>Synchronize configuration for IPAM, FortiAnalyzer, FortiSandbox, and Central Management to root node.</td></tr><tr><td>local</td><td>Do not synchronize configuration with root node.</td></tr></table>	Option	Description	default	Synchronize configuration for IPAM, FortiAnalyzer, FortiSandbox, and Central Management to root node.	local	Do not synchronize configuration with root node.			
Option	Description									
default	Synchronize configuration for IPAM, FortiAnalyzer, FortiSandbox, and Central Management to root node.									
local	Do not synchronize configuration with root node.									
fabric-object-unification	Fabric CMDB Object Unification.	option	-	default						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>default</td><td>Global CMDB objects will be synchronized in Security Fabric.</td></tr><tr><td>local</td><td>Global CMDB objects will not be synchronized to and from this device.</td></tr></table>	Option	Description	default	Global CMDB objects will be synchronized in Security Fabric.	local	Global CMDB objects will not be synchronized to and from this device.			
Option	Description									
default	Global CMDB objects will be synchronized in Security Fabric.									
local	Global CMDB objects will not be synchronized to and from this device.									
saml-configuration-sync	SAML setting configuration synchronization.	option	-	default						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>default</td><td>SAML setting for fabric members is created by fabric root.</td></tr><tr><td>local</td><td>Do not apply SAML configuration generated by root.</td></tr></table>	Option	Description	default	SAML setting for fabric members is created by fabric root.	local	Do not apply SAML configuration generated by root.			
Option	Description									
default	SAML setting for fabric members is created by fabric root.									
local	Do not apply SAML configuration generated by root.									
forticloud-account-enforcement	Fabric FortiCloud account unification.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable FortiCloud account ID matching for Security Fabric.</td></tr><tr><td>disable</td><td>Disable FortiCloud account ID matching for Security Fabric.</td></tr></table>	Option	Description	enable	Enable FortiCloud account ID matching for Security Fabric.	disable	Disable FortiCloud account ID matching for Security Fabric.			
Option	Description									
enable	Enable FortiCloud account ID matching for Security Fabric.									
disable	Disable FortiCloud account ID matching for Security Fabric.									
file-mgmt	Enable/disable Security Fabric daemon file management.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable daemon file management.</td></tr><tr><td>disable</td><td>Disable daemon file management.</td></tr></table>	Option	Description	enable	Enable daemon file management.	disable	Disable daemon file management.			
Option	Description									
enable	Enable daemon file management.									
disable	Disable daemon file management.									

Parameter	Description	Type	Size	Default
file-quota	Maximum amount of memory that can be used by the daemon files (in bytes).	integer	Minimum value: 0 Maximum value: 4294967295	0
file-quota-warning	Warn when the set percentage of quota has been used.	integer	Minimum value: 1 Maximum value: 99	90

config trusted-list

Parameter	Description	Type	Size	Default						
name	Name.	string	Maximum length: 35							
authorization-type	Authorization type.	option	-	serial						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>serial</i></td><td>Verify downstream by serial number.</td></tr><tr><td><i>certificate</i></td><td>Verify downstream by certificate.</td></tr></table>	Option	Description	<i>serial</i>	Verify downstream by serial number.	<i>certificate</i>	Verify downstream by certificate.			
Option	Description									
<i>serial</i>	Verify downstream by serial number.									
<i>certificate</i>	Verify downstream by certificate.									
serial	Serial.	string	Maximum length: 19							
certificate	Certificate.	var-string	Maximum length: 32767							
action	Security fabric authorization action.	option	-	accept						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>accept</i></td><td>Accept authorization request.</td></tr><tr><td><i>deny</i></td><td>Deny authorization request.</td></tr></table>	Option	Description	<i>accept</i>	Accept authorization request.	<i>deny</i>	Deny authorization request.			
Option	Description									
<i>accept</i>	Accept authorization request.									
<i>deny</i>	Deny authorization request.									
ha-members	HA members.	string	Maximum length: 19							
downstream-authorization	Trust authorizations by this node's administrator.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable downstream authorization.</td></tr><tr><td><i>disable</i></td><td>Disable downstream authorization.</td></tr></table>	Option	Description	<i>enable</i>	Enable downstream authorization.	<i>disable</i>	Disable downstream authorization.			
Option	Description									
<i>enable</i>	Enable downstream authorization.									
<i>disable</i>	Disable downstream authorization.									

Parameter	Description	Type	Size	Default
preferred-seats	The number of seats this FortiProxy device should be allocated with. The number of gurranttred seats is capped by minimum of the number of local purchased seats and the number of preferred seats. And the rest of preferred seats will be allocated from shared pool at higher priority.	integer	Minimum value: 0 Maximum value: 4294967295	0
index	Index of the downstream in tree.	integer	Minimum value: 1 Maximum value: 1024	0

config fabric-connector

Parameter	Description	Type	Size	Default						
serial	Serial.	string	Maximum length: 19							
accprofile	Override access profile.	string	Maximum length: 35							
configuration-write-access	Enable/disable downstream device write access to configuration.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable downstream device write access to configuration.</td></tr><tr><td><i>disable</i></td><td>Disable downstream device write access to configuration.</td></tr></table>				Option	Description	<i>enable</i>	Enable downstream device write access to configuration.	<i>disable</i>	Disable downstream device write access to configuration.
Option	Description									
<i>enable</i>	Enable downstream device write access to configuration.									
<i>disable</i>	Disable downstream device write access to configuration.									
vdom <name>	Virtual domains that the connector has access to. If none are set, the connector will only have access to the VDOM that it joins the Security Fabric through. Virtual domain name.	string	Maximum length: 79							

config system custom-language

Configure custom languages.

```
config system custom-language
    Description: Configure custom languages.
    edit <name>
        set filename {string}
        set comments {var-string}
    next
end
```

config system custom-language

Parameter	Description	Type	Size	Default
name	Name.	string	Maximum length: 35	
filename	Custom language file path.	string	Maximum length: 63	
comments	Comment.	var-string	Maximum length: 255	

config system ddns

Configure DDNS.

```
config system ddns
  Description: Configure DDNS.
  edit <ddnsid>
    set ddns-server [dyndns.org|dyns.net|...]
    set addr-type [ipv4|ipv6]
    set server-type [ipv4|ipv6]
    set ddns-server-addr <addr1>, <addr2>, ...
    set ddns-zone {string}
    set ddns-ttl {integer}
    set ddns-auth [disable|tsig]
    set ddns-keyname {string}
    set ddns-key {password_aes256}
    set ddns-domain {string}
    set ddns-username {string}
    set ddns-sn {string}
    set ddns-password {password}
    set use-public-ip [disable|enable]
    set update-interval {integer}
    set clear-text [disable|enable]
    set ssl-certificate {string}
    set bound-ip {string}
    set monitor-interface <interface-name1>, <interface-name2>, ...
  next
end
```

config system ddns

Parameter	Description	Type	Size	Default																								
ddnsid	DDNS ID.	integer	Minimum value: 0 Maximum value: 4294967295	0																								
ddns-server	Select a DDNS service provider.	option	-																									
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>dyndns.org</i></td><td>members.dyndns.org and dnsalias.com</td></tr><tr><td><i>dyns.net</i></td><td>www.dyns.net</td></tr><tr><td><i>tzo.com</i></td><td>rh.tzo.com</td></tr><tr><td><i>vavic.com</i></td><td>Peanut Hull</td></tr><tr><td><i>dipdns.net</i></td><td>dipdnsserver.dipdns.com</td></tr><tr><td><i>now.net.cn</i></td><td>ip.todayisp.com</td></tr><tr><td><i>dhs.org</i></td><td>members.dhs.org</td></tr><tr><td><i>easydns.com</i></td><td>members.easydns.com</td></tr><tr><td><i>genericDDNS</i></td><td>Generic DDNS based on RFC2136.</td></tr><tr><td><i>FortiGuardDDNS</i></td><td>FortiGuard DDNS service.</td></tr><tr><td><i>noip.com</i></td><td>dynupdate.no-ip.com</td></tr></table>	Option	Description	<i>dyndns.org</i>	members.dyndns.org and dnsalias.com	<i>dyns.net</i>	www.dyns.net	<i>tzo.com</i>	rh.tzo.com	<i>vavic.com</i>	Peanut Hull	<i>dipdns.net</i>	dipdnsserver.dipdns.com	<i>now.net.cn</i>	ip.todayisp.com	<i>dhs.org</i>	members.dhs.org	<i>easydns.com</i>	members.easydns.com	<i>genericDDNS</i>	Generic DDNS based on RFC2136.	<i>FortiGuardDDNS</i>	FortiGuard DDNS service.	<i>noip.com</i>	dynupdate.no-ip.com			
Option	Description																											
<i>dyndns.org</i>	members.dyndns.org and dnsalias.com																											
<i>dyns.net</i>	www.dyns.net																											
<i>tzo.com</i>	rh.tzo.com																											
<i>vavic.com</i>	Peanut Hull																											
<i>dipdns.net</i>	dipdnsserver.dipdns.com																											
<i>now.net.cn</i>	ip.todayisp.com																											
<i>dhs.org</i>	members.dhs.org																											
<i>easydns.com</i>	members.easydns.com																											
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<i>FortiGuardDDNS</i>	FortiGuard DDNS service.																											
<i>noip.com</i>	dynupdate.no-ip.com																											
addr-type	Address type of interface address in DDNS update.	option	-	ipv4																								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>ipv4</i></td><td>Use IPv4 address of the interface.</td></tr><tr><td><i>ipv6</i></td><td>Use IPv6 address of the interface.</td></tr></table>	Option	Description	<i>ipv4</i>	Use IPv4 address of the interface.	<i>ipv6</i>	Use IPv6 address of the interface.																					
Option	Description																											
<i>ipv4</i>	Use IPv4 address of the interface.																											
<i>ipv6</i>	Use IPv6 address of the interface.																											
server-type	Address type of the DDNS server.	option	-	ipv4																								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>ipv4</i></td><td>Use IPv4 addressing.</td></tr><tr><td><i>ipv6</i></td><td>Use IPv6 addressing.</td></tr></table>	Option	Description	<i>ipv4</i>	Use IPv4 addressing.	<i>ipv6</i>	Use IPv6 addressing.																					
Option	Description																											
<i>ipv4</i>	Use IPv4 addressing.																											
<i>ipv6</i>	Use IPv6 addressing.																											
ddns-server-addr <addr>	Generic DDNS server IP/FQDN list. IP address or FQDN of the server.	string	Maximum length: 256																									

Parameter	Description	Type	Size	Default						
ddns-zone	Zone of your domain name (for example, DDNS.com).	string	Maximum length: 64							
ddns-ttl	Time-to-live for DDNS packets.	integer	Minimum value: 60 Maximum value: 86400	300						
ddns-auth	Enable/disable TSIG authentication for your DDNS server.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable DDNS authentication.</td></tr><tr><td><i>tsig</i></td><td>Enable TSIG authentication based on RFC2845.</td></tr></table>				Option	Description	<i>disable</i>	Disable DDNS authentication.	<i>tsig</i>	Enable TSIG authentication based on RFC2845.
Option	Description									
<i>disable</i>	Disable DDNS authentication.									
<i>tsig</i>	Enable TSIG authentication based on RFC2845.									
ddns-keyname	DDNS update key name.	string	Maximum length: 64							
ddns-key	DDNS update key (base 64 encoding).	password_aes256	Not Specified							
ddns-domain	Your fully qualified domain name. For example, yourname.ddns.com.	string	Maximum length: 64							
ddns-username	DDNS user name.	string	Maximum length: 64							
ddns-sn	DDNS Serial Number.	string	Maximum length: 64							
ddns-password	DDNS password.	password	Not Specified							
use-public-ip	Enable/disable use of public IP address.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable use of public IP address.</td></tr><tr><td><i>enable</i></td><td>Enable use of public IP address.</td></tr></table>				Option	Description	<i>disable</i>	Disable use of public IP address.	<i>enable</i>	Enable use of public IP address.
Option	Description									
<i>disable</i>	Disable use of public IP address.									
<i>enable</i>	Enable use of public IP address.									
update-interval	DDNS update interval (60 - 2592000 sec, 0 means default).	integer	Minimum value: 60 Maximum value: 2592000	0						
clear-text	Enable/disable use of clear text connections.	option	-	disable						

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable use of clear text connections.		
	<i>enable</i>	Enable use of clear text connections.		
ssl-certificate	Name of local certificate for SSL connections.	string	Maximum length: 35	Fortinet_Factory
bound-ip	Bound IP address.	string	Maximum length: 46	
monitor-interface <interface-name>	Monitored interface. Interface name.	string	Maximum length: 79	

config system device-upgrade

Independent upgrades for managed devices.

```
config system device-upgrade
    Description: Independent upgrades for managed devices.
    edit <serial>
        set timing [immediate|scheduled]
        set maximum-minutes {integer}
        set time {user}
        set setup-time {user}
        set upgrade-path {user}
        set device-type [fortiproxy|fortiswitch|...]
        set status [disabled|initialized|...]
        set failure-reason [none|internal|...]
        set ha-reboot-controller {string}
        config known-ha-members
            Description: Known members of the HA cluster. If a member is missing at upgrade
time, the upgrade will be cancelled.
            edit <serial>
                next
            end
        end
    next
end
```

config system device-upgrade

Parameter	Description	Type	Size	Default
serial	Serial number of the node to include.	string	Maximum length: 79	
timing	Run immediately or at a scheduled time.	option	-	immediate

Parameter	Description	Type	Size	Default																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>immediate</i></td><td>Begin the upgrade immediately.</td></tr><tr><td><i>scheduled</i></td><td>Begin the upgrade at a configured time.</td></tr></table>	Option	Description	<i>immediate</i>	Begin the upgrade immediately.	<i>scheduled</i>	Begin the upgrade at a configured time.															
	Option	Description																				
	<i>immediate</i>	Begin the upgrade immediately.																				
<i>scheduled</i>	Begin the upgrade at a configured time.																					
maximum-minutes	Maximum number of minutes to allow for immediate upgrade preparation.	integer	Minimum value: 5 Maximum value: 10080	15																		
time	Scheduled upgrade execution time in UTC (hh:mm yyyy/mm/dd UTC).	user	Not Specified																			
setup-time	Upgrade preparation start time in UTC (hh:mm yyyy/mm/dd UTC).	user	Not Specified																			
upgrade-path	Fortinet OS image versions to upgrade through in major-minor-patch format, such as 7-0-4.	user	Not Specified																			
device-type	Fortinet device type.	option	-	fortiproxy																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>fortiproxy</i></td><td>This device is a FortiProxy.</td></tr><tr><td><i>fortiswitch</i></td><td>This device is a FortiSwitch.</td></tr><tr><td><i>fortiap</i></td><td>This device is a FortiAP.</td></tr><tr><td><i>fortiextender</i></td><td>This device is a FortiExtender.</td></tr></table>	Option	Description	<i>fortiproxy</i>	This device is a FortiProxy.	<i>fortiswitch</i>	This device is a FortiSwitch.	<i>fortiap</i>	This device is a FortiAP.	<i>fortiextender</i>	This device is a FortiExtender.											
	Option	Description																				
	<i>fortiproxy</i>	This device is a FortiProxy.																				
	<i>fortiswitch</i>	This device is a FortiSwitch.																				
	<i>fortiap</i>	This device is a FortiAP.																				
<i>fortiextender</i>	This device is a FortiExtender.																					
status	Current status of the upgrade.	option	-	disabled																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disabled</i></td><td>No federated upgrade has been configured.</td></tr><tr><td><i>initialized</i></td><td>The upgrade has been configured.</td></tr><tr><td><i>downloading</i></td><td>The image is downloading in preparation for the upgrade.</td></tr><tr><td><i>device-disconnected</i></td><td>The image downloads are complete, but one or more devices have disconnected.</td></tr><tr><td><i>ready</i></td><td>The image download finished and the upgrade is pending.</td></tr><tr><td><i>coordinating</i></td><td>The upgrade is coordinating with other running upgrades.</td></tr><tr><td><i>staging</i></td><td>The upgrade is confirmed and images are being staged.</td></tr><tr><td><i>final-check</i></td><td>The upgrade is ready and final checks are in progress.</td></tr></table>	Option	Description	<i>disabled</i>	No federated upgrade has been configured.	<i>initialized</i>	The upgrade has been configured.	<i>downloading</i>	The image is downloading in preparation for the upgrade.	<i>device-disconnected</i>	The image downloads are complete, but one or more devices have disconnected.	<i>ready</i>	The image download finished and the upgrade is pending.	<i>coordinating</i>	The upgrade is coordinating with other running upgrades.	<i>staging</i>	The upgrade is confirmed and images are being staged.	<i>final-check</i>	The upgrade is ready and final checks are in progress.			
	Option	Description																				
	<i>disabled</i>	No federated upgrade has been configured.																				
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	<i>downloading</i>	The image is downloading in preparation for the upgrade.																				
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<i>staging</i>	The upgrade is confirmed and images are being staged.																					
<i>final-check</i>	The upgrade is ready and final checks are in progress.																					

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>upgrade-devices</i>	The upgrade is ready and devices are being rebooted.		
	<i>cancelled</i>	The upgrade was cancelled due to the tree not being ready.		
	<i>confirmed</i>	The upgrade was confirmed and reboots are running.		
	<i>done</i>	The upgrade completed successfully.		
	<i>failed</i>	The upgrade failed due to a local issue.		
	failure-reason	Upgrade failure reason.	option	-
	Option	Description		
	<i>none</i>	No failure.		
	<i>internal</i>	An internal error occurred.		
	<i>timeout</i>	The upgrade timed out.		
	<i>device-type-unsupported</i>	The device type was not supported by the FortiGate.		
	<i>download-failed</i>	The image could not be downloaded.		
	<i>device-missing</i>	The device was disconnected from the FortiGate.		
	<i>version-unavailable</i>	An image matching the device and version could not be found.		
	<i>staging-failed</i>	The image could not be pushed to the device.		
	<i>reboot-failed</i>	The device could not be rebooted.		
	<i>device-not-reconnected</i>	The device did not reconnect after rebooting.		
	<i>node-not-ready</i>	A device in the Security Fabric tree was not ready.		
	<i>no-final-confirmation</i>	The coordinating FortiGate did not confirm the upgrade.		
	<i>no-confirmation-query</i>	A downstream FortiGate did not initiate final confirmation.		
	<i>config-error-log-nonempty</i>	Configuration errors encountered during the upgrade.		
<i>csf-tree-not-supported</i>	The Security Fabric is disabled on the root FortiProxy			
<i>node-failed</i>	A device in the Security Fabric tree failed.			

Parameter	Description	Type	Size	Default
ha-reboot-controller	Serial number of the FortiGate unit that will control the reboot process for the federated upgrade of the HA cluster.	string	Maximum length: 79	

config known-ha-members

Parameter	Description	Type	Size	Default
serial	Serial number of HA member	string	Maximum length: 79	

config system dhcp server

Configure DHCP servers.

```
config system dhcp server
    Description: Configure DHCP servers.
    edit <id>
        set status [disable|enable]
        set lease-time {integer}
        set mac-acl-default-action [assign|block]
        set forticlient-on-net-status [disable|enable]
        set dns-service [local|default|...]
        set dns-server1 {ipv4-address}
        set dns-server2 {ipv4-address}
        set dns-server3 {ipv4-address}
        set dns-server4 {ipv4-address}
        set wifi-ac-service [specify|local]
        set wifi-ac1 {ipv4-address}
        set wifi-ac2 {ipv4-address}
        set wifi-ac3 {ipv4-address}
        set ntp-service [local|default|...]
        set ntp-server1 {ipv4-address}
        set ntp-server2 {ipv4-address}
        set ntp-server3 {ipv4-address}
        set domain {string}
        set wins-server1 {ipv4-address}
        set wins-server2 {ipv4-address}
        set default-gateway {ipv4-address}
        set next-server {ipv4-address}
        set netmask {ipv4-netmask}
        set interface {string}
    config ip-range
        Description: DHCP IP range configuration.
        edit <id>
            set start-ip {ipv4-address}
            set end-ip {ipv4-address}
            set vci-match [disable|enable]
            set vci-string <vci-string1>, <vci-string2>, ...
            set uci-match [disable|enable]
```



```

        set uci-string <uci-string1>, <uci-string2>, ...
        set lease-time {integer}
    next
end
set timezone-option [disable|default|...]
set timezone {string}
set tftp-server <tftp-server1>, <tftp-server2>, ...
set filename {string}
config options
    Description: DHCP options.
    edit <id>
        set code {integer}
        set type [hex|string|...]
        set value {string}
        set ip {user}
        set vci-match [disable|enable]
        set vci-string <vci-string1>, <vci-string2>, ...
        set uci-match [disable|enable]
        set uci-string <uci-string1>, <uci-string2>, ...
    next
end
set server-type [regular|ipsec]
set ip-mode [range|usrgrp]
set conflicted-ip-timeout {integer}
set ipsec-lease-hold {integer}
set auto-configuration [disable|enable]
set dhcp-settings-from-fortiiipam [disable|enable]
set auto-managed-status [disable|enable]
set ddns-update [disable|enable]
set ddns-update-override [disable|enable]
set ddns-server-ip {ipv4-address}
set ddns-zone {string}
set ddns-auth [disable|tsig]
set ddns-keyname {string}
set ddns-key {password_aes256}
set ddns-ttl {integer}
set vci-match [disable|enable]
set vci-string <vci-string1>, <vci-string2>, ...
config exclude-range
    Description: Exclude one or more ranges of IP addresses from being assigned to
clients.
    edit <id>
        set start-ip {ipv4-address}
        set end-ip {ipv4-address}
        set vci-match [disable|enable]
        set vci-string <vci-string1>, <vci-string2>, ...
        set uci-match [disable|enable]
        set uci-string <uci-string1>, <uci-string2>, ...
        set lease-time {integer}
    next
end
set shared-subnet [disable|enable]
set relay-agent {ipv4-address}
config reserved-address
    Description: Options for the DHCP server to assign IP settings to specific MAC
addresses.

```

```

edit <id>
    set type [mac|option82]
    set ip {ipv4-address}
    set mac {mac-address}
    set action [assign|block|...]
    set circuit-id-type [hex|string]
    set circuit-id {string}
    set remote-id-type [hex|string]
    set remote-id {string}
    set description {var-string}
next
end
next
end

```

config system dhcp server

Parameter	Description	Type	Size	Default						
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0						
status	Enable/disable this DHCP configuration.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>Do not use this DHCP server configuration.</td></tr><tr><td>enable</td><td>Use this DHCP server configuration.</td></tr></table>				Option	Description	disable	Do not use this DHCP server configuration.	enable	Use this DHCP server configuration.
	Option	Description								
	disable	Do not use this DHCP server configuration.								
enable	Use this DHCP server configuration.									
lease-time	Lease time in seconds, 0 means unlimited.	integer	Minimum value: 300 Maximum value: 8640000	604800						
mac-acl-default-action	MAC access control default action (allow or block assigning IP settings).	option	-	assign						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>assign</td><td>Allow the DHCP server to assign IP settings to clients on the MAC access control list.</td></tr><tr><td>block</td><td>Block the DHCP server from assigning IP settings to clients on the MAC access control list.</td></tr></table>				Option	Description	assign	Allow the DHCP server to assign IP settings to clients on the MAC access control list.	block	Block the DHCP server from assigning IP settings to clients on the MAC access control list.
	Option	Description								
	assign	Allow the DHCP server to assign IP settings to clients on the MAC access control list.								
block	Block the DHCP server from assigning IP settings to clients on the MAC access control list.									
forticlient-on-net-status	Enable/disable FortiClient-On-Net service for this DHCP server.	option	-	enable						

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable FortiClient On-Net Status.		
	<i>enable</i>	Enable FortiClient On-Net Status.		
dns-service	Options for assigning DNS servers to DHCP clients.	option	-	specify
	Option	Description		
	<i>local</i>	IP address of the interface the DHCP server is added to becomes the client's DNS server IP address.		
	<i>default</i>	Clients are assigned the FortiProxy's configured DNS servers.		
	<i>specify</i>	Specify up to 3 DNS servers in the DHCP server configuration.		
dns-server1	DNS server 1.	ipv4-address	Not Specified	0.0.0.0
dns-server2	DNS server 2.	ipv4-address	Not Specified	0.0.0.0
dns-server3	DNS server 3.	ipv4-address	Not Specified	0.0.0.0
dns-server4	DNS server 4.	ipv4-address	Not Specified	0.0.0.0
wifi-ac-service	Options for assigning WiFi access controllers to DHCP clients.	option	-	specify
	Option	Description		
	<i>specify</i>	Specify up to 3 WiFi Access Controllers in the DHCP server configuration.		
	<i>local</i>	IP address of the interface the DHCP server is added to becomes the client's WiFi Access Controller IP address.		
wifi-ac1	WiFi Access Controller 1 IP address (DHCP option 138, RFC 5417).	ipv4-address	Not Specified	0.0.0.0
wifi-ac2	WiFi Access Controller 2 IP address (DHCP option 138, RFC 5417).	ipv4-address	Not Specified	0.0.0.0
wifi-ac3	WiFi Access Controller 3 IP address (DHCP option 138, RFC 5417).	ipv4-address	Not Specified	0.0.0.0
ntp-service	Options for assigning Network Time Protocol (NTP) servers to DHCP clients.	option	-	specify
	Option	Description		
	<i>local</i>	IP address of the interface the DHCP server is added to becomes the client's NTP server IP address.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>default</i>	Clients are assigned the FortiProxy's configured NTP servers.		
	<i>specify</i>	Specify up to 3 NTP servers in the DHCP server configuration.		
ntp-server1	NTP server 1.	ipv4-address	Not Specified	0.0.0.0
ntp-server2	NTP server 2.	ipv4-address	Not Specified	0.0.0.0
ntp-server3	NTP server 3.	ipv4-address	Not Specified	0.0.0.0
domain	Domain name suffix for the IP addresses that the DHCP server assigns to clients.	string	Maximum length: 35	
wins-server1	WINS server 1.	ipv4-address	Not Specified	0.0.0.0
wins-server2	WINS server 2.	ipv4-address	Not Specified	0.0.0.0
default-gateway	Default gateway IP address assigned by the DHCP server.	ipv4-address	Not Specified	0.0.0.0
next-server	IP address of a server (for example, a TFTP sever) that DHCP clients can download a boot file from.	ipv4-address	Not Specified	0.0.0.0
netmask	Netmask assigned by the DHCP server.	ipv4-netmask	Not Specified	0.0.0.0
interface	DHCP server can assign IP configurations to clients connected to this interface.	string	Maximum length: 15	
timezone-option	Options for the DHCP server to set the client's time zone.	option	-	disable
	Option	Description		
	<i>disable</i>	Do not set the client's time zone.		
	<i>default</i>	Clients are assigned the FortiProxy's configured time zone.		
	<i>specify</i>	Specify the time zone to be assigned to DHCP clients.		
timezone	Select the time zone to be assigned to DHCP clients.	string	Maximum length: 63	
tftp-server <tftp-server>	One or more hostnames or IP addresses of the TFTP servers in quotes separated by spaces. TFTP server.	string	Maximum length: 63	
filename	Name of the boot file on the TFTP server.	string	Maximum length: 127	
server-type	DHCP server can be a normal DHCP server or an IPsec DHCP server.	option	-	regular

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>regular</i>	Regular DHCP service.		
	<i>ipsec</i>	DHCP over IPsec service.		
ip-mode	Method used to assign client IP.	option	-	range
	Option	Description		
	<i>range</i>	Use range defined by start-ip/end-ip to assign client IP.		
	<i>usrgrp</i>	Use user-group defined method to assign client IP.		
conflicted-ip-timeout	Time in seconds to wait after a conflicted IP address is removed from the DHCP range before it can be reused.	integer	Minimum value: 60 Maximum value: 8640000	1800
ipsec-lease-hold	DHCP over IPsec leases expire this many seconds after tunnel down (0 to disable forced-expiry).	integer	Minimum value: 0 Maximum value: 8640000	60
auto-configuration	Enable/disable auto configuration.	option	-	enable
	Option	Description		
	<i>disable</i>	Disable auto configuration.		
	<i>enable</i>	Enable auto configuration.		
dhcp-settings-from-fortipam	Enable/disable populating of DHCP server settings from FortiPAM.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable populating of DHCP server settings from FortiPAM.		
	<i>enable</i>	Enable populating of DHCP server settings from FortiPAM.		
auto-managed-status	Enable/disable use of this DHCP server once this interface has been assigned an IP address from FortiPAM.	option	-	enable

Parameter	Description	Type	Size	Default						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable use of this DHCP server once this interface has been assigned an IP address from FortiIPAM.</td></tr><tr><td><i>enable</i></td><td>Enable use of this DHCP server once this interface has been assigned an IP address from FortiIPAM.</td></tr></table>	Option	Description	<i>disable</i>	Disable use of this DHCP server once this interface has been assigned an IP address from FortiIPAM.	<i>enable</i>	Enable use of this DHCP server once this interface has been assigned an IP address from FortiIPAM.			
	Option	Description								
	<i>disable</i>	Disable use of this DHCP server once this interface has been assigned an IP address from FortiIPAM.								
<i>enable</i>	Enable use of this DHCP server once this interface has been assigned an IP address from FortiIPAM.									
ddns-update	Enable/disable DDNS update for DHCP.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable DDNS update for DHCP.</td></tr><tr><td><i>enable</i></td><td>Enable DDNS update for DHCP.</td></tr></table>	Option	Description	<i>disable</i>	Disable DDNS update for DHCP.	<i>enable</i>	Enable DDNS update for DHCP.			
	Option	Description								
	<i>disable</i>	Disable DDNS update for DHCP.								
<i>enable</i>	Enable DDNS update for DHCP.									
ddns-update-override	Enable/disable DDNS update override for DHCP.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable DDNS update override for DHCP.</td></tr><tr><td><i>enable</i></td><td>Enable DDNS update override for DHCP.</td></tr></table>	Option	Description	<i>disable</i>	Disable DDNS update override for DHCP.	<i>enable</i>	Enable DDNS update override for DHCP.			
	Option	Description								
	<i>disable</i>	Disable DDNS update override for DHCP.								
<i>enable</i>	Enable DDNS update override for DHCP.									
ddns-server-ip	DDNS server IP.	ipv4-address	Not Specified	0.0.0.0						
ddns-zone	Zone of your domain name (ex. DDNS.com).	string	Maximum length: 64							
ddns-auth	DDNS authentication mode.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable DDNS authentication.</td></tr><tr><td><i>tsig</i></td><td>TSIG based on RFC2845.</td></tr></table>	Option	Description	<i>disable</i>	Disable DDNS authentication.	<i>tsig</i>	TSIG based on RFC2845.			
	Option	Description								
	<i>disable</i>	Disable DDNS authentication.								
<i>tsig</i>	TSIG based on RFC2845.									
ddns-keyname	DDNS update key name.	string	Maximum length: 64							
ddns-key	DDNS update key (base 64 encoding).	password_aes256	Not Specified							
ddns-ttl	TTL.	integer	Minimum value: 60 Maximum value: 86400	300						
vci-match	Enable/disable vendor class identifier (VCI) matching. When enabled only DHCP requests with a matching VCI are served.	option	-	disable						

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable VCI matching.		
	<i>enable</i>	Enable VCI matching.		
vci-string <vci-string>	One or more VCI strings in quotes separated by spaces. VCI strings.	string	Maximum length: 255	
shared-subnet	Enable/disable shared subnet.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable shared subnet.		
	<i>enable</i>	Enable shared subnet.		
relay-agent	Relay agent IP.	ipv4-address	Not Specified	0.0.0.0

config ip-range

Parameter	Description	Type	Size	Default						
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0						
start-ip	Start of IP range.	ipv4-address	Not Specified	0.0.0.0						
end-ip	End of IP range.	ipv4-address	Not Specified	0.0.0.0						
vci-match	Enable/disable vendor class identifier (VCI) matching. When enabled only DHCP requests with a matching VCI are served with this range.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable VCI matching.</td></tr><tr><td><i>enable</i></td><td>Enable VCI matching.</td></tr></table>				Option	Description	<i>disable</i>	Disable VCI matching.	<i>enable</i>	Enable VCI matching.
	Option	Description								
	<i>disable</i>	Disable VCI matching.								
<i>enable</i>	Enable VCI matching.									
vci-string <vci-string>	One or more VCI strings in quotes separated by spaces. VCI strings.	string	Maximum length: 255							

Parameter	Description	Type	Size	Default						
uci-match	Enable/disable user class identifier (UCI) matching. When enabled only DHCP requests with a matching UCI are served with this range.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable UCI matching.</td></tr><tr><td><i>enable</i></td><td>Enable UCI matching.</td></tr></table>	Option	Description	<i>disable</i>	Disable UCI matching.	<i>enable</i>	Enable UCI matching.			
Option	Description									
<i>disable</i>	Disable UCI matching.									
<i>enable</i>	Enable UCI matching.									
uci-string <uci-string>	One or more UCI strings in quotes separated by spaces. UCI strings.	string	Maximum length: 255							
lease-time	Lease time in seconds, 0 means default lease time.	integer	Minimum value: 300 Maximum value: 8640000	0						

config options

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
code	DHCP option code.	integer	Minimum value: 0 Maximum value: 255	0
type	DHCP option type.	option	-	hex
	Option	Description		
	<i>hex</i>	DHCP option in hex.		
	<i>string</i>	DHCP option in string.		
	<i>ip</i>	DHCP option in IP.		
	<i>fqdn</i>	DHCP option in domain search option format.		
value	DHCP option value.	string	Maximum length: 312	
ip	DHCP option IPs.	user	Not Specified	

Parameter	Description	Type	Size	Default						
vci-match	Enable/disable vendor class identifier (VCI) matching. When enabled only DHCP requests with a matching VCI are served with this option.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable VCI matching.</td></tr><tr><td><i>enable</i></td><td>Enable VCI matching.</td></tr></table>	Option	Description	<i>disable</i>	Disable VCI matching.	<i>enable</i>	Enable VCI matching.			
Option	Description									
<i>disable</i>	Disable VCI matching.									
<i>enable</i>	Enable VCI matching.									
vci-string <vci-string>	One or more VCI strings in quotes separated by spaces. VCI strings.	string	Maximum length: 255							
uci-match	Enable/disable user class identifier (UCI) matching. When enabled only DHCP requests with a matching UCI are served with this option.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable UCI matching.</td></tr><tr><td><i>enable</i></td><td>Enable UCI matching.</td></tr></table>	Option	Description	<i>disable</i>	Disable UCI matching.	<i>enable</i>	Enable UCI matching.			
Option	Description									
<i>disable</i>	Disable UCI matching.									
<i>enable</i>	Enable UCI matching.									
uci-string <uci-string>	One or more UCI strings in quotes separated by spaces. UCI strings.	string	Maximum length: 255							

config exclude-range

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
start-ip	Start of IP range.	ipv4-address	Not Specified	0.0.0.0
end-ip	End of IP range.	ipv4-address	Not Specified	0.0.0.0
vci-match	Enable/disable vendor class identifier (VCI) matching. When enabled only DHCP requests with a matching VCI are served with this range.	option	-	disable

Parameter	Description	Type	Size	Default						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable VCI matching.</td></tr><tr><td><i>enable</i></td><td>Enable VCI matching.</td></tr></table>				Option	Description	<i>disable</i>	Disable VCI matching.	<i>enable</i>	Enable VCI matching.
	Option	Description								
	<i>disable</i>	Disable VCI matching.								
<i>enable</i>	Enable VCI matching.									
vci-string <vci-string>	One or more VCI strings in quotes separated by spaces. VCI strings.	string	Maximum length: 255							
uci-match	Enable/disable user class identifier (UCI) matching. When enabled only DHCP requests with a matching UCI are served with this range.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable UCI matching.</td></tr><tr><td><i>enable</i></td><td>Enable UCI matching.</td></tr></table>				Option	Description	<i>disable</i>	Disable UCI matching.	<i>enable</i>	Enable UCI matching.
	Option	Description								
	<i>disable</i>	Disable UCI matching.								
<i>enable</i>	Enable UCI matching.									
uci-string <uci-string>	One or more UCI strings in quotes separated by spaces. UCI strings.	string	Maximum length: 255							
lease-time	Lease time in seconds, 0 means default lease time.	integer	Minimum value: 300 Maximum value: 8640000	0						

config reserved-address

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
type	DHCP reserved-address type.	option	-	mac
	Option	Description		
	mac	Match with MAC address.		
	option82	Match with DHCP option 82.		
ip	IP address to be reserved for the MAC address.	ipv4-address	Not Specified	0.0.0.0

Parameter	Description	Type	Size	Default								
mac	MAC address of the client that will get the reserved IP address.	mac-address	Not Specified	00:00:00:00:00:00								
action	Options for the DHCP server to configure the client with the reserved MAC address.	option	-	reserved								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>assign</i></td><td>Configure the client with this MAC address like any other client.</td></tr><tr><td><i>block</i></td><td>Block the DHCP server from assigning IP settings to the client with this MAC address.</td></tr><tr><td><i>reserved</i></td><td>Assign the reserved IP address to the client with this MAC address.</td></tr></table>	Option	Description	<i>assign</i>	Configure the client with this MAC address like any other client.	<i>block</i>	Block the DHCP server from assigning IP settings to the client with this MAC address.	<i>reserved</i>	Assign the reserved IP address to the client with this MAC address.			
Option	Description											
<i>assign</i>	Configure the client with this MAC address like any other client.											
<i>block</i>	Block the DHCP server from assigning IP settings to the client with this MAC address.											
<i>reserved</i>	Assign the reserved IP address to the client with this MAC address.											
circuit-id-type	DHCP option type.	option	-	string								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>hex</i></td><td>DHCP option in hex.</td></tr><tr><td><i>string</i></td><td>DHCP option in string.</td></tr></table>	Option	Description	<i>hex</i>	DHCP option in hex.	<i>string</i>	DHCP option in string.					
Option	Description											
<i>hex</i>	DHCP option in hex.											
<i>string</i>	DHCP option in string.											
circuit-id	Option 82 circuit-ID of the client that will get the reserved IP address.	string	Maximum length: 312									
remote-id-type	DHCP option type.	option	-	string								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>hex</i></td><td>DHCP option in hex.</td></tr><tr><td><i>string</i></td><td>DHCP option in string.</td></tr></table>	Option	Description	<i>hex</i>	DHCP option in hex.	<i>string</i>	DHCP option in string.					
Option	Description											
<i>hex</i>	DHCP option in hex.											
<i>string</i>	DHCP option in string.											
remote-id	Option 82 remote-ID of the client that will get the reserved IP address.	string	Maximum length: 312									
description	Description.	var-string	Maximum length: 255									

config system dhcp6 server

Configure DHCPv6 servers.

```
config system dhcp6 server
    Description: Configure DHCPv6 servers.
    edit <id>
        set status [disable|enable]
        set rapid-commit [disable|enable]
        set lease-time {integer}
        set dns-service [delegated|default|...]
        set dns-search-list [delegated|specify]
```

```

set dns-server1 {ipv6-address}
set dns-server2 {ipv6-address}
set dns-server3 {ipv6-address}
set dns-server4 {ipv6-address}
set domain {string}
set subnet {ipv6-prefix}
set interface {string}
set option1 {user}
set option2 {user}
set option3 {user}
set upstream-interface {string}
set delegated-prefix-iaid {integer}
set ip-mode [range|delegated]
set prefix-mode [dhcp6|ra]
config prefix-range
    Description: DHCP prefix configuration.
    edit <id>
        set start-prefix {ipv6-address}
        set end-prefix {ipv6-address}
        set prefix-length {integer}
    next
end
config ip-range
    Description: DHCP IP range configuration.
    edit <id>
        set start-ip {ipv6-address}
        set end-ip {ipv6-address}
    next
end
next
end

```

config system dhcp6 server

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
status	Enable/disable this DHCPv6 configuration.	option	-	enable
	Option Description			
	<i>disable</i>	Enable this DHCPv6 server configuration.		
	<i>enable</i>	Disable this DHCPv6 server configuration.		
rapid-commit	Enable/disable allow/disallow rapid commit.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Do not allow rapid commit.		
	<i>enable</i>	Allow rapid commit.		
lease-time	Lease time in seconds, 0 means unlimited.	integer	Minimum value: 300 Maximum value: 8640000	604800
dns-service	Options for assigning DNS servers to DHCPv6 clients.	option	-	specify
	Option	Description		
	<i>delegated</i>	Delegated DNS settings.		
	<i>default</i>	Clients are assigned the FortiProxy's configured DNS servers.		
	<i>specify</i>	Specify up to 3 DNS servers in the DHCPv6 server configuration.		
dns-search-list	DNS search list options.	option	-	specify
	Option	Description		
	<i>delegated</i>	Delegated the DNS search list.		
	<i>specify</i>	Specify the DNS search list.		
dns-server1	DNS server 1.	ipv6-address	Not Specified	::
dns-server2	DNS server 2.	ipv6-address	Not Specified	::
dns-server3	DNS server 3.	ipv6-address	Not Specified	::
dns-server4	DNS server 4.	ipv6-address	Not Specified	::
domain	Domain name suffix for the IP addresses that the DHCP server assigns to clients.	string	Maximum length: 35	
subnet	Subnet or subnet-id if the IP mode is delegated.	ipv6-prefix	Not Specified	::/0
interface	DHCP server can assign IP configurations to clients connected to this interface.	string	Maximum length: 15	
option1	Option 1.	user	Not Specified	
option2	Option 2.	user	Not Specified	

Parameter	Description	Type	Size	Default						
option3	Option 3.	user	Not Specified							
upstream-interface	Interface name from where delegated information is provided.	string	Maximum length: 15							
delegated-prefix-iaid	IAID of obtained delegated-prefix from the upstream interface.	integer	Minimum value: 0 Maximum value: 4294967295	0						
ip-mode	Method used to assign client IP.	option	-	range						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>range</i></td><td>Use range defined by start IP/end IP to assign client IP.</td></tr><tr><td><i>delegated</i></td><td>Use delegated prefix method to assign client IP.</td></tr></table>				Option	Description	<i>range</i>	Use range defined by start IP/end IP to assign client IP.	<i>delegated</i>	Use delegated prefix method to assign client IP.
Option	Description									
<i>range</i>	Use range defined by start IP/end IP to assign client IP.									
<i>delegated</i>	Use delegated prefix method to assign client IP.									
prefix-mode	Assigning a prefix from a DHCPv6 client or RA.	option	-	dhcp6						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>dhcp6</i></td><td>Use delegated prefix from a DHCPv6 client.</td></tr><tr><td><i>ra</i></td><td>Use prefix from RA.</td></tr></table>				Option	Description	<i>dhcp6</i>	Use delegated prefix from a DHCPv6 client.	<i>ra</i>	Use prefix from RA.
Option	Description									
<i>dhcp6</i>	Use delegated prefix from a DHCPv6 client.									
<i>ra</i>	Use prefix from RA.									

config prefix-range

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
start-prefix	Start of prefix range.	ipv6-address	Not Specified	::
end-prefix	End of prefix range.	ipv6-address	Not Specified	::
prefix-length	Prefix length.	integer	Minimum value: 1 Maximum value: 128	0

config ip-range

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
start-ip	Start of IP range.	ipv6-address	Not Specified	::
end-ip	End of IP range.	ipv6-address	Not Specified	::

config system dns

Configure DNS.

```
config system dns
    Description: Configure DNS.
    set primary {ipv4-address}
    set secondary {ipv4-address}
    set protocol {option1}, {option2}, ...
    set ssl-certificate {string}
    set server-hostname <hostname1>, <hostname2>, ...
    set domain <domain1>, <domain2>, ...
    set ip6-primary {ipv6-address}
    set ip6-secondary {ipv6-address}
    set timeout {integer}
    set retry {integer}
    set dns-cache-limit {integer}
    set dns-cache-ttl {integer}
    set cache-notfound-responses [disable|enable]
    set source-ip {ipv4-address}
    set interface-select-method [auto|specify]
    set interface {string}
    set server-select-method [least-rtt|failover]
    set alt-primary {ipv4-address}
    set alt-secondary {ipv4-address}
    set log [disable|error|...]
    set fqdn-cache-ttl {integer}
    set fqdn-max-refresh {integer}
    set fqdn-min-refresh {integer}
end
```

config system dns

Parameter	Description	Type	Size	Default								
primary	Primary DNS server IP address.	ipv4-address	Not Specified	0.0.0.0								
secondary	Secondary DNS server IP address.	ipv4-address	Not Specified	0.0.0.0								
protocol	DNS transport protocols.	option	-	cleartext								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>cleartext</td><td>DNS over UDP/53, DNS over TCP/53.</td></tr><tr><td>dot</td><td>DNS over TLS/853.</td></tr><tr><td>doh</td><td>DNS over HTTPS/443.</td></tr></table>				Option	Description	cleartext	DNS over UDP/53, DNS over TCP/53.	dot	DNS over TLS/853.	doh	DNS over HTTPS/443.
Option	Description											
cleartext	DNS over UDP/53, DNS over TCP/53.											
dot	DNS over TLS/853.											
doh	DNS over HTTPS/443.											
ssl-certificate	Name of local certificate for SSL connections.	string	Maximum length: 35	Fortinet_Factory								
server-hostname <hostname>	DNS server host name list. DNS server host name list separated by space (maximum 4 domains).	string	Maximum length: 127									
domain <domain>	Search suffix list for hostname lookup. DNS search domain list separated by space (maximum 8 domains).	string	Maximum length: 127									
ip6-primary	Primary DNS server IPv6 address.	ipv6-address	Not Specified	::								
ip6-secondary	Secondary DNS server IPv6 address.	ipv6-address	Not Specified	::								
timeout	DNS query timeout interval in seconds (1 - 10).	integer	Minimum value: 1 Maximum value: 10	5								
retry	Number of times to retry (0 - 5).	integer	Minimum value: 0 Maximum value: 5	2								
dns-cache-limit	Maximum number of records in the DNS cache.	integer	Minimum value: 0 Maximum value: 4294967295	5000								

Parameter	Description	Type	Size	Default								
dns-cache-ttl	Duration in seconds that the DNS cache retains information.	integer	Minimum value: 60 Maximum value: 86400	1800								
cache-notfound-responses	Enable/disable response from the DNS server when a record is not in cache.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable cache NOTFOUND responses from DNS server.</td></tr><tr><td><i>enable</i></td><td>Enable cache NOTFOUND responses from DNS server.</td></tr></table>	Option	Description	<i>disable</i>	Disable cache NOTFOUND responses from DNS server.	<i>enable</i>	Enable cache NOTFOUND responses from DNS server.					
Option	Description											
<i>disable</i>	Disable cache NOTFOUND responses from DNS server.											
<i>enable</i>	Enable cache NOTFOUND responses from DNS server.											
source-ip	IP address used by the DNS server as its source IP.	ipv4-address	Not Specified	0.0.0.0								
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>auto</i></td><td>Set outgoing interface automatically.</td></tr><tr><td><i>specify</i></td><td>Set outgoing interface manually.</td></tr></table>	Option	Description	<i>auto</i>	Set outgoing interface automatically.	<i>specify</i>	Set outgoing interface manually.					
Option	Description											
<i>auto</i>	Set outgoing interface automatically.											
<i>specify</i>	Set outgoing interface manually.											
interface	Specify outgoing interface to reach server.	string	Maximum length: 15									
server-select-method	Specify how configured servers are prioritized.	option	-	least-rtt								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>least-rtt</i></td><td>Select servers based on least round trip time.</td></tr><tr><td><i>failover</i></td><td>Select servers based on the order they are configured.</td></tr></table>	Option	Description	<i>least-rtt</i>	Select servers based on least round trip time.	<i>failover</i>	Select servers based on the order they are configured.					
Option	Description											
<i>least-rtt</i>	Select servers based on least round trip time.											
<i>failover</i>	Select servers based on the order they are configured.											
alt-primary	Alternate primary DNS server. This is not used as a failover DNS server.	ipv4-address	Not Specified	0.0.0.0								
alt-secondary	Alternate secondary DNS server. This is not used as a failover DNS server.	ipv4-address	Not Specified	0.0.0.0								
log	Local DNS log setting.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable.</td></tr><tr><td><i>error</i></td><td>Enable local DNS error log.</td></tr><tr><td><i>all</i></td><td>Enable local DNS log.</td></tr></table>	Option	Description	<i>disable</i>	Disable.	<i>error</i>	Enable local DNS error log.	<i>all</i>	Enable local DNS log.			
Option	Description											
<i>disable</i>	Disable.											
<i>error</i>	Enable local DNS error log.											
<i>all</i>	Enable local DNS log.											

Parameter	Description	Type	Size	Default
fqdn-cache-ttl	FQDN cache time to live in seconds (0 - 86400, default = 0).	integer	Minimum value: 0 Maximum value: 86400	0
fqdn-max-refresh	FQDN cache maximum refresh time in seconds (3600 - 86400, default = 3600).	integer	Minimum value: 3600 Maximum value: 86400	3600
fqdn-min-refresh	FQDN cache minimum refresh time in seconds (10 - 3600, default = 60).	integer	Minimum value: 10 Maximum value: 3600	60

config system dns-database

Configure DNS databases.

```
config system dns-database
  Description: Configure DNS databases.
  edit <name>
    set status [enable|disable]
    set domain {string}
    set allow-transfer {user}
    set type [primary|secondary]
    set view [shadow|public|...]
    set ip-primary {ipv4-address-any}
    set primary-name {string}
    set contact {string}
    set ttl {integer}
    set authoritative [enable|disable]
    set forwarder {user}
    set forwarder6 {ipv6-address}
    set source-ip {ipv4-address}
    set source-ip6 {ipv6-address}
    set rr-max {integer}
  config dns-entry
    Description: DNS entry.
    edit <id>
      set status [enable|disable]
      set type [A|NS|...]
      set ttl {integer}
      set preference {integer}
      set ip {ipv4-address-any}
      set ipv6 {ipv6-address}
      set hostname {string}
      set canonical-name {string}
    next
  end
```

next
end

config system dns-database

Parameter	Description	Type	Size	Default
name	Zone name.	string	Maximum length: 35	
status	Enable/disable this DNS zone.	option	-	enable
	Option	Description		
	enable	Enable setting.		
	disable	Disable setting.		
domain	Domain name.	string	Maximum length: 255	
allow-transfer	DNS zone transfer IP address list.	user	Not Specified	
type	Zone type (primary to manage entries directly, secondary to import entries from other zones).	option	-	primary
	Option	Description		
	primary	Primary DNS zone, to manage entries directly.		
	secondary	Secondary DNS zone, to import entries from other DNS zones.		
view	Zone view (public to serve public clients, shadow to serve internal clients).	option	-	shadow
	Option	Description		
	shadow	Shadow DNS zone to serve internal clients.		
	public	Public DNS zone to serve public clients.		
	shadow-ztna	implicit DNS zone for ztna dox tunnel.		
	proxy	Shadow DNS zone for internal proxy.		
ip-primary	IP address of primary DNS server. Entries in this primary DNS server and imported into the DNS zone.	ipv4-address-any	Not Specified	0.0.0.0
primary-name	Domain name of the default DNS server for this zone.	string	Maximum length: 255	dns

Parameter	Description	Type	Size	Default
contact	Email address of the administrator for this zone. You can specify only the username, such as admin or the full email address, such as admin@test.com When using only a username, the domain of the email will be this zone.	string	Maximum length: 255	host
ttd	Default time-to-live value for the entries of this DNS zone (0 - 2147483647 sec, default = 86400).	integer	Minimum value: 0 Maximum value: 2147483647	86400
authoritative	Enable/disable authoritative zone.	option	-	enable
	Option	Description		
	enable	Enable authoritative zone.		
	disable	Disable authoritative zone.		
forwarder	DNS zone forwarder IP address list.	user	Not Specified	
forwarder6	Forwarder IPv6 address.	ipv6-address	Not Specified	::
source-ip	Source IP for forwarding to DNS server.	ipv4-address	Not Specified	0.0.0.0
source-ip6	IPv6 source IP address for forwarding to DNS server.	ipv6-address	Not Specified	::
rr-max	Maximum number of resource records (10 - 65536, 0 means infinite).	integer	Minimum value: 10 Maximum value: 65536	16384

config dns-entry

Parameter	Description	Type	Size	Default				
id	DNS entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0				
status	Enable/disable resource record status.	option	-	enable				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable resource record status.</td></tr></table>				Option	Description	<i>enable</i>	Enable resource record status.
	Option	Description						
<i>enable</i>	Enable resource record status.							

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable resource record status.		
type	Resource record type.	option	-	A
	Option	Description		
	A	Host type.		
	NS	Name server type.		
	CNAME	Canonical name type.		
	MX	Mail exchange type.		
	AAAA	IPv6 host type.		
	PTR	Pointer type.		
	PTR_V6	IPv6 pointer type.		
ttl	Time-to-live for this entry (0 to 2147483647 sec, default = 0).	integer	Minimum value: 0 Maximum value: 2147483647	0
preference	DNS entry preference (0 - 65535, highest preference = 0, default = 10).	integer	Minimum value: 0 Maximum value: 65535	10
ip	IPv4 address of the host.	ipv4-address-any	Not Specified	0.0.0.0
ipv6	IPv6 address of the host.	ipv6-address	Not Specified	::
hostname	Name of the host.	string	Maximum length: 255	
canonical-name	Canonical name of the host.	string	Maximum length: 255	

config system dns-server

Configure DNS servers.

```
config system dns-server
    Description: Configure DNS servers.
    edit <name>
```

```

        set mode [recursive|non-recursive|...]
        set dnsfilter-profile {string}
        set doh [enable|disable]
        set doh3 [enable|disable]
        set doq [enable|disable]
    next
end

```

config system dns-server

Parameter	Description	Type	Size	Default								
name	DNS server name.	string	Maximum length: 15									
mode	DNS server mode.	option	-	recursive								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>recursive</i></td><td>Shadow DNS database and forward.</td></tr><tr><td><i>non-recursive</i></td><td>Public DNS database only.</td></tr><tr><td><i>forward-only</i></td><td>Forward only.</td></tr></table>	Option	Description	<i>recursive</i>	Shadow DNS database and forward.	<i>non-recursive</i>	Public DNS database only.	<i>forward-only</i>	Forward only.			
Option	Description											
<i>recursive</i>	Shadow DNS database and forward.											
<i>non-recursive</i>	Public DNS database only.											
<i>forward-only</i>	Forward only.											
dnsfilter-profile	DNS filter profile.	string	Maximum length: 35									
doh	Enable/disable DNS over HTTPS/443 (default = disable).	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable DNS over HTTPS.</td></tr><tr><td><i>disable</i></td><td>Disable DNS over HTTPS.</td></tr></table>	Option	Description	<i>enable</i>	Enable DNS over HTTPS.	<i>disable</i>	Disable DNS over HTTPS.					
Option	Description											
<i>enable</i>	Enable DNS over HTTPS.											
<i>disable</i>	Disable DNS over HTTPS.											
doh3	Enable/disable DNS over QUIC/HTTP3/443 (default = disable).	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable DNS over HTTP3/QUIC.</td></tr><tr><td><i>disable</i></td><td>Disable DNS over HTTP3/QUIC.</td></tr></table>	Option	Description	<i>enable</i>	Enable DNS over HTTP3/QUIC.	<i>disable</i>	Disable DNS over HTTP3/QUIC.					
Option	Description											
<i>enable</i>	Enable DNS over HTTP3/QUIC.											
<i>disable</i>	Disable DNS over HTTP3/QUIC.											
doq	Enable/disable DNS over QUIC/853 (default = disable).	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable DNS over QUIC.</td></tr><tr><td><i>disable</i></td><td>Disable DNS over QUIC.</td></tr></table>	Option	Description	<i>enable</i>	Enable DNS over QUIC.	<i>disable</i>	Disable DNS over QUIC.					
Option	Description											
<i>enable</i>	Enable DNS over QUIC.											
<i>disable</i>	Disable DNS over QUIC.											

config system dscp-based-priority

Configure DSCP based priority table.

```
config system dscp-based-priority
    Description: Configure DSCP based priority table.
    edit <id>
        set ds {integer}
        set priority [low|medium|...]
    next
end
```

config system dscp-based-priority

Parameter	Description	Type	Size	Default
id	Item ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
ds	DSCP(DiffServ) DS value (0 - 63).	integer	Minimum value: 0 Maximum value: 63	0
priority	DSCP based priority level.	option	-	high
	Option	Description		
	low	Low priority.		
	medium	Medium priority.		
	high	High priority.		

config system email-server

Configure the email server used by the FortiProxy various things. For example, for sending email messages to users to support user authentication features.

```
config system email-server
    Description: Configure the email server used by the FortiProxy various things. For
    example, for sending email messages to users to support user authentication features.
    set type {option}
    set server {string}
    set port {integer}
    set source-ip {ipv4-address}
    set source-ip6 {ipv6-address}
    set authenticate [enable|disable]
```

```

set validate-server [enable|disable]
set username {string}
set password {password}
set security [none|starttls|...]
set ssl-min-proto-version [default|SSLv3|...]
set interface-select-method [auto|specify]
set interface {string}
end

```

config system email-server

Parameter	Description	Type	Size	Default						
type	Use FortiGuard Message service or custom email server.	option	-	custom						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>custom</td><td>Use custom email server.</td></tr></table>				Option	Description	custom	Use custom email server.		
Option	Description									
custom	Use custom email server.									
server	SMTP server IP address or hostname.	string	Maximum length: 63							
port	SMTP server port.	integer	Minimum value: 1 Maximum value: 65535	25						
source-ip	SMTP server IPv4 source IP.	ipv4-address	Not Specified	0.0.0.0						
source-ip6	SMTP server IPv6 source IP.	ipv6-address	Not Specified	::						
authenticate	Enable/disable authentication.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable authentication.</td></tr><tr><td>disable</td><td>Disable authentication.</td></tr></table>				Option	Description	enable	Enable authentication.	disable	Disable authentication.
Option	Description									
enable	Enable authentication.									
disable	Disable authentication.									
validate-server	Enable/disable validation of server certificate.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable validation of server certificate.</td></tr><tr><td>disable</td><td>Disable validation of server certificate.</td></tr></table>				Option	Description	enable	Enable validation of server certificate.	disable	Disable validation of server certificate.
Option	Description									
enable	Enable validation of server certificate.									
disable	Disable validation of server certificate.									
username	SMTP server user name for authentication.	string	Maximum length: 255							

Parameter	Description	Type	Size	Default														
password	SMTP server user password for authentication.	password	Not Specified															
security	Connection security used by the email server.	option	-	none														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>none</i></td><td>None.</td></tr><tr><td><i>starttls</i></td><td>STARTTLS.</td></tr><tr><td><i>smtps</i></td><td>SSL/TLS.</td></tr></table>	Option	Description	<i>none</i>	None.	<i>starttls</i>	STARTTLS.	<i>smtps</i>	SSL/TLS.									
Option	Description																	
<i>none</i>	None.																	
<i>starttls</i>	STARTTLS.																	
<i>smtps</i>	SSL/TLS.																	
ssl-min-protocol-version	Minimum supported protocol version for SSL/TLS connections (default is to follow system global setting).	option	-	default														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>default</i></td><td>Follow system global setting.</td></tr><tr><td><i>SSLv3</i></td><td>SSLv3.</td></tr><tr><td><i>TLSv1</i></td><td>TLSv1.</td></tr><tr><td><i>TLSv1-1</i></td><td>TLSv1.1.</td></tr><tr><td><i>TLSv1-2</i></td><td>TLSv1.2.</td></tr><tr><td><i>TLSv1-3</i></td><td>TLSv1.3.</td></tr></table>	Option	Description	<i>default</i>	Follow system global setting.	<i>SSLv3</i>	SSLv3.	<i>TLSv1</i>	TLSv1.	<i>TLSv1-1</i>	TLSv1.1.	<i>TLSv1-2</i>	TLSv1.2.	<i>TLSv1-3</i>	TLSv1.3.			
Option	Description																	
<i>default</i>	Follow system global setting.																	
<i>SSLv3</i>	SSLv3.																	
<i>TLSv1</i>	TLSv1.																	
<i>TLSv1-1</i>	TLSv1.1.																	
<i>TLSv1-2</i>	TLSv1.2.																	
<i>TLSv1-3</i>	TLSv1.3.																	
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>auto</i></td><td>Set outgoing interface automatically.</td></tr><tr><td><i>specify</i></td><td>Set outgoing interface manually.</td></tr></table>	Option	Description	<i>auto</i>	Set outgoing interface automatically.	<i>specify</i>	Set outgoing interface manually.											
Option	Description																	
<i>auto</i>	Set outgoing interface automatically.																	
<i>specify</i>	Set outgoing interface manually.																	
interface	Specify outgoing interface to reach server.	string	Maximum length: 15															

config system external-resource

Configure external resource.

```
config system external-resource
  Description: Configure external resource.
  edit <name>
    set uuid {uuid}
    set status [enable|disable]
    set type [category|domain|...]
    set update-method [feed|push]
    set category {integer}
```

```

set username {string}
set password {password}
set comments {var-string}
set resource {string}
set user-agent {var-string}
set proxy {string}
set proxy-port {integer}
set proxy-username {string}
set proxy-password {password}
set server-identity-check [none|basic|...]
set refresh-rate {integer}
set source-ip {ipv4-address}
set interface-select-method [auto|specify]
set interface {string}
next
end

```

config system external-resource

Parameter	Description	Type	Size	Default
name	External resource name.	string	Maximum length: 35	
uuid	Universally Unique Identifier (UUID; automatically assigned but can be manually reset).	uuid	Not Specified	00000000-0000-0000-0000-000000000000
status	Enable/disable user resource.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable user resource.		
	<i>disable</i>	Disable user resource.		
type	User resource type.	option	-	category
	Option	Description		
	<i>category</i>	FortiGuard category.		
	<i>domain</i>	Domain Name.		
	<i>malware</i>	Malware hash.		
	<i>address</i>	Firewall IP address.		
	<i>data</i>	Data file.		
	<i>url</i>	URL List.		
update-method	External resource update method.	option	-	feed

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>feed</i>	FortiGate unit will pull update from the external resource.		
	<i>push</i>	External Resource update is pushed to the FortiGate unit through the FortiGate unit's RESTAPI/CLI.		
category	User resource category.	integer	Minimum value: 192 Maximum value: 221	0
username	HTTP basic authentication user name.	string	Maximum length: 64	
password	HTTP basic authentication password.	password	Not Specified	
comments	Comment.	var-string	Maximum length: 255	
resource	URL of external resource.	string	Maximum length: 511	
user-agent	HTTP User-Agent header (default = 'curl/7.58.0').	var-string	Maximum length: 255	
proxy	Proxy server host(ip or domain name).	string	Maximum length: 255	
proxy-port	Port number that the proxy server expects to receive HTTP sessions on (1 - 65535, default = 8080).	integer	Minimum value: 1 Maximum value: 65535	8080
proxy-username	HTTP proxy basic authentication user name.	string	Maximum length: 64	
proxy-password	HTTP proxy basic authentication password.	password	Not Specified	
server-identity-check	Certificate verification option.	option	-	none
	Option	Description		
	<i>none</i>	No certificate verification.		
	<i>basic</i>	Check server certificate only.		
	<i>full</i>	Check server certificate and verify the domain matches in the server certificate.		

Parameter	Description	Type	Size	Default						
refresh-rate	Time interval to refresh external resource (1 - 43200 min, default = 5 min).	integer	Minimum value: 1 Maximum value: 43200	5						
source-ip	Source IPv4 address used to communicate with server.	ipv4-address	Not Specified	0.0.0.0						
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>auto</i></td><td>Set outgoing interface automatically.</td></tr><tr><td><i>specify</i></td><td>Set outgoing interface manually.</td></tr></table>				Option	Description	<i>auto</i>	Set outgoing interface automatically.	<i>specify</i>	Set outgoing interface manually.
Option	Description									
<i>auto</i>	Set outgoing interface automatically.									
<i>specify</i>	Set outgoing interface manually.									
interface	Specify outgoing interface to reach server.	string	Maximum length: 15							

config system fabric-vpn

Setup for self orchestrated fabric auto discovery VPN.

```

config system fabric-vpn
  Description: Setup for self orchestrated fabric auto discovery VPN.
  set status [enable|disable]
  set sync-mode [enable|disable]
  set branch-name {string}
  set policy-rule [health-check|manual|...]
  set vpn-role [hub|spoke]
  config overlays
    Description: Local overlay interfaces table.
    edit <name>
      set overlay-tunnel-block {ipv4-classnet-host}
      set remote-gw {ipv4-address-any}
      set interface {string}
      set bgp-neighbor {string}
      set overlay-policy {integer}
      set bgp-network {integer}
      set route-policy {integer}
      set bgp-neighbor-group {string}
      set bgp-neighbor-range {integer}
      set ipsec-phase1 {string}
      set sdwan-member {integer}
    next
  end
  config advertised-subnets
    Description: Local advertised subnets.
    edit <id>
      set prefix {ipv4-classnet}

```

```

        set access [inbound|bidirectional]
        set bgp-network {integer}
        set firewall-address {string}
        set policies {integer}
    next
end
set loopback-address-block {ipv4-classnet-host}
set loopback-interface {string}
set loopback-advertised-subnet {integer}
set psksecret {password-3}
set bgp-as {integer}
set sdwan-zone {string}
set health-checks {string}
end

```

config system fabric-vpn

Parameter	Description	Type	Size	Default								
status	Enable/disable Fabric VPN.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable Fabric VPN.</td></tr><tr><td><i>disable</i></td><td>Disable Fabric VPN.</td></tr></table>	Option	Description	<i>enable</i>	Enable Fabric VPN.	<i>disable</i>	Disable Fabric VPN.					
Option	Description											
<i>enable</i>	Enable Fabric VPN.											
<i>disable</i>	Disable Fabric VPN.											
sync-mode	Setting synchronised by fabric or manual.	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable fabric led configuration synchronisation.</td></tr><tr><td><i>disable</i></td><td>Disable fabric led configuration synchronisation.</td></tr></table>	Option	Description	<i>enable</i>	Enable fabric led configuration synchronisation.	<i>disable</i>	Disable fabric led configuration synchronisation.					
Option	Description											
<i>enable</i>	Enable fabric led configuration synchronisation.											
<i>disable</i>	Disable fabric led configuration synchronisation.											
branch-name	Branch name.	string	Maximum length: 35									
policy-rule	Policy creation rule.	option	-	health-check								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>health-check</i></td><td>Create health check policy automatically.</td></tr><tr><td><i>manual</i></td><td>All policies will be created manually.</td></tr><tr><td><i>auto</i></td><td>Automatically create allow policies.</td></tr></table>	Option	Description	<i>health-check</i>	Create health check policy automatically.	<i>manual</i>	All policies will be created manually.	<i>auto</i>	Automatically create allow policies.			
Option	Description											
<i>health-check</i>	Create health check policy automatically.											
<i>manual</i>	All policies will be created manually.											
<i>auto</i>	Automatically create allow policies.											
vpn-role	Fabric VPN role.	option	-	hub								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>hub</i></td><td>VPN hub.</td></tr></table>	Option	Description	<i>hub</i>	VPN hub.							
Option	Description											
<i>hub</i>	VPN hub.											

Parameter	Description	Type	Size	Default
	Option	Description		
	spoke	VPN spoke.		
loopback-address-block	IPv4 address and subnet mask for hub's loopback address, syntax: X.X.X.X/24.	ipv4-classnet-host	Not Specified	0.0.0.0 0.0.0.0
loopback-interface	Loopback interface.	string	Maximum length: 15	
loopback-advertised-subnet	Loopback advertised subnet reference.	integer	Minimum value: 0 Maximum value: 4294967295	0
psksecret	Pre-shared secret for ADVPN.	password-3	Not Specified	
bgp-as	BGP Router AS number, valid from 1 to 4294967295.	integer	Minimum value: 0 Maximum value: 4294967295	0
sdwan-zone	Reference to created SD-WAN zone.	string	Maximum length: 35	
health-checks	Underlying health checks.	string	Maximum length: 35	

config overlays

Parameter	Description	Type	Size	Default
name	Overlay name.	string	Maximum length: 79	
overlay-tunnel-block	IPv4 address and subnet mask for the overlay tunnel , syntax: X.X.X.X/24.	ipv4-classnet-host	Not Specified	0.0.0.0 0.0.0.0
remote-gw	IP address of the hub gateway (Set by hub).	ipv4-address-any	Not Specified	0.0.0.0
interface	Underlying interface name.	string	Maximum length: 15	
bgp-neighbor	Underlying BGP neighbor entry.	string	Maximum length: 45	

Parameter	Description	Type	Size	Default
overlay-policy	The overlay policy to allow ADVPN thru traffic.	integer	Minimum value: 0 Maximum value: 4294967295	0
bgp-network	Underlying BGP network.	integer	Minimum value: 0 Maximum value: 4294967295	0
route-policy	Underlying router policy.	integer	Minimum value: 0 Maximum value: 4294967295	0
bgp-neighbor-group	Underlying BGP neighbor group entry.	string	Maximum length: 45	
bgp-neighbor-range	Underlying BGP neighbor range entry.	integer	Minimum value: 0 Maximum value: 4294967295	0
ipsec-phase1	IPsec interface.	string	Maximum length: 35	
sdwan-member	Reference to SD-WAN member entry.	integer	Minimum value: 0 Maximum value: 4294967295	0

config advertised-subnets

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967294	0
prefix	Network prefix.	ipv4-classnet	Not Specified	0.0.0.0 0.0.0.0
access	Access policy direction.	option	-	inbound

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>inbound</i>	Allow inbound traffic to subnet.		
	<i>bidirectional</i>	Allow inbound and outbound traffic to subnet.		
bgp-network	Underlying BGP network.	integer	Minimum value: 0 Maximum value: 4294967295	0
firewall-address	Underlying firewall address.	string	Maximum length: 79	
policies	Underlying policies.	integer	Minimum value: 0 Maximum value: 4294967295	

config system federated-upgrade

Coordinate federated upgrades within the Security Fabric.

```

config system federated-upgrade
    Description: Coordinate federated upgrades within the Security Fabric.
    set status [disabled|initialized|...]
    set source [user|auto-firmware-upgrade]
    set failure-reason [none|internal|...]
    set failure-device {string}
    set upgrade-id {integer}
    set next-path-index {integer}
    set ha-reboot-controller {string}
    config known-ha-members
        Description: Known members of the HA cluster. If a member is missing at upgrade
time, the upgrade will be cancelled.
        edit <serial>
            next
        end
    config node-list
        Description: Nodes which will be included in the upgrade.
        edit <serial>
            set timing [immediate|scheduled]
            set maximum-minutes {integer}
            set time {user}
            set setup-time {user}
            set upgrade-path {user}
            set device-type [fortiproxy|fortiswitch|...]
            set coordinating-fortiproxy {string}
        next
    next
end

```


end
end

config system federated-upgrade

Parameter	Description	Type	Size	Default
status	Current status of the upgrade.	option	-	disabled
	Option	Description		
	<i>disabled</i>	No federated upgrade has been configured.		
	<i>initialized</i>	The upgrade has been configured.		
	<i>downloading</i>	The image is downloading in preparation for the upgrade.		
	<i>device-disconnected</i>	The image downloads are complete, but one or more devices have disconnected.		
	<i>ready</i>	The image download finished and the upgrade is pending.		
	<i>coordinating</i>	The upgrade is coordinating with other running upgrades.		
	<i>staging</i>	The upgrade is confirmed and images are being staged.		
	<i>final-check</i>	The upgrade is ready and final checks are in progress.		
	<i>upgrade-devices</i>	The upgrade is ready and devices are being rebooted.		
	<i>cancelled</i>	The upgrade was cancelled due to the tree not being ready.		
	<i>confirmed</i>	The upgrade was confirmed and reboots are running.		
	<i>done</i>	The upgrade completed successfully.		
	<i>failed</i>	The upgrade failed due to a local issue.		
source	Source that set up the federated upgrade config.	option	-	user
	Option	Description		
	<i>user</i>	Upgrade configured based on user input.		
	<i>auto-firmware-upgrade</i>	Upgrade configured by the FortiGuard auto-firmware-upgrade feature.		
failure-reason	Reason for upgrade failure.	option	-	none
	Option	Description		
	<i>none</i>	No failure.		
	<i>internal</i>	An internal error occurred.		
	<i>timeout</i>	The upgrade timed out.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>device-type-unsupported</i>	The device type was not supported by the FortiGate.		
	<i>download-failed</i>	The image could not be downloaded.		
	<i>device-missing</i>	The device was disconnected from the FortiGate.		
	<i>version-unavailable</i>	An image matching the device and version could not be found.		
	<i>staging-failed</i>	The image could not be pushed to the device.		
	<i>reboot-failed</i>	The device could not be rebooted.		
	<i>device-not-reconnected</i>	The device did not reconnect after rebooting.		
	<i>node-not-ready</i>	A device in the Security Fabric tree was not ready.		
	<i>no-final-confirmation</i>	The coordinating FortiGate did not confirm the upgrade.		
	<i>no-confirmation-query</i>	A downstream FortiGate did not initiate final confirmation.		
	<i>config-error-log-nonempty</i>	Configuration errors encountered during the upgrade.		
<i>csf-tree-not-supported</i>	The Security Fabric is disabled on the root FortiProxy			
<i>node-failed</i>	A device in the Security Fabric tree failed.			
failure-device	Serial number of the node to include.	string	Maximum length: 79	
upgrade-id	Unique identifier for this upgrade.	integer	Minimum value: 0 Maximum value: 4294967295	0
next-path-index	The index of the next image to upgrade to.	integer	Minimum value: 0 Maximum value: 10	0
ha-reboot-controller	Serial number of the FortiGate unit that will control the reboot process for the federated upgrade of the HA cluster.	string	Maximum length: 79	

config known-ha-members

Parameter	Description	Type	Size	Default
serial	Serial number of HA member	string	Maximum length: 79	

config node-list

Parameter	Description	Type	Size	Default
serial	Serial number of the node to include.	string	Maximum length: 79	
timing	Run immediately or at a scheduled time.	option	-	immediate
	Option Description			
	<i>immediate</i>	Begin the upgrade immediately.		
	<i>scheduled</i>	Begin the upgrade at a configured time.		
maximum-minutes	Maximum number of minutes to allow for immediate upgrade preparation.	integer	Minimum value: 5 Maximum value: 10080	15
time	Scheduled upgrade execution time in UTC (hh:mm yyyy/mm/dd UTC).	user	Not Specified	
setup-time	Upgrade preparation start time in UTC (hh:mm yyyy/mm/dd UTC).	user	Not Specified	
upgrade-path	Fortinet OS image versions to upgrade through in major-minor-patch format, such as 7-0-4.	user	Not Specified	
device-type	Fortinet device type.	option	-	fortiproxy
	Option Description			
	<i>fortiproxy</i>	This device is a FortiProxy.		
	<i>fortiswitch</i>	This device is a FortiSwitch.		
	<i>fortiap</i>	This device is a FortiAP.		
	<i>fortiextender</i>	This device is a FortiExtender.		
coordinating-fortiproxy	Serial number of the FortiGate unit that controls this device.	string	Maximum length: 79	

config system fips-cc

Configure FIPS-CC mode.

```
config system fips-cc
    Description: Configure FIPS-CC mode.
    set status [enable|disable]
    set self-test-period {integer}
    set key-generation-self-test [enable|disable]
end
```

config system fips-cc

Parameter	Description	Type	Size	Default
status	Enable/disable ciphers for FIPS mode of operation.	option	-	disable
	Option Description			
	<i>enable</i>	Enable FIPS-CC mode.		
	<i>disable</i>	Disable FIPS-CC mode.		
self-test-period	Self test period.	integer	Minimum value: 1 Maximum value: 1440	1440
key-generation-self-test	Enable/disable self tests after key generation.	option	-	disable
	Option Description			
	<i>enable</i>	Enable self tests after key generation.		
	<i>disable</i>	Disable self tests after key generation.		

config system fortianalyzer-connectivity

FortiAnalyzer Connectivity.

```
config system fortianalyzer-connectivity
    Description: FortiAnalyzer Connectivity.
end
```

config system fortiguard

Configure FortiGuard services.

```

config system fortiguard
    Description: Configure FortiGuard services.
    set fortiguard-anycast [enable|disable]
    set fortiguard-anycast-source [fortinet|aws|...]
    set protocol [udp|http|...]
    set port [8888|53|...]
    set service-account-id {string}
    set load-balance-servers {integer}
    set auto-join-forticloud [enable|disable]
    set update-server-location [automatic|usa|...]
    set sandbox-region {string}
    set sandbox-inline-scan [enable|disable]
    set update-ffdb [enable|disable]
    set update-uwdb [enable|disable]
    set update-dldb [enable|disable]
    set update-extdb [enable|disable]
    set update-build-proxy [enable|disable]
    set persistent-connection [enable|disable]
    set vdom {string}
    set auto-firmware-upgrade [enable|disable]
    set auto-firmware-upgrade-day {option1}, {option2}, ...
    set auto-firmware-upgrade-delay {integer}
    set auto-firmware-upgrade-start-hour {integer}
    set auto-firmware-upgrade-end-hour {integer}
    set FDS-license-expiring-days {integer}
    set antispam-force-off [enable|disable]
    set antispam-cache [enable|disable]
    set antispam-cache-ttl {integer}
    set antispam-cache-mpermille {integer}
    set antispam-license {integer}
    set antispam-expiration {integer}
    set antispam-timeout {integer}
    set outbreak-prevention-force-off [enable|disable]
    set outbreak-prevention-cache [enable|disable]
    set outbreak-prevention-cache-ttl {integer}
    set outbreak-prevention-cache-mpermille {integer}
    set outbreak-prevention-license {integer}
    set outbreak-prevention-expiration {integer}
    set outbreak-prevention-timeout {integer}
    set fnbi-license {integer}
    set fnbi-expiration {integer}
    set webfilter-force-off [enable|disable]
    set webfilter-cache [enable|disable]
    set webfilter-cache-ttl {integer}
    set webfilter-license {integer}
    set webfilter-expiration {integer}
    set webfilter-timeout {integer}
    set sdns-server-ip {user}
    set sdns-server-port {integer}
    set anycast-sdns-server-ip {ipv4-address}
    set anycast-sdns-server-port {integer}
    set sdns-options {option1}, {option2}, ...
    set source-ip {ipv4-address}
    set source-ip6 {ipv6-address}
    set proxy-server-ip {string}
    set proxy-server-port {integer}

```

```

set proxy-username {string}
set proxy-password {password}
set ddns-server-ip {ipv4-address}
set ddns-server-ip6 {ipv6-address}
set ddns-server-port {integer}
set interface-select-method [auto|specify]
set interface {string}
end

```

end

config system fortiguard

Parameter	Description	Type	Size	Default
fortiguard-anycast	Enable/disable use of FortiGuard's Anycast network.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable use of FortiGuard's Anycast network.		
	<i>disable</i>	Disable use of FortiGuard's Anycast network.		
fortiguard-anycast-source	Configure which of Fortinet's servers to provide FortiGuard services in FortiGuard's anycast network. Default is Fortinet.	option	-	fortinet
	Option	Description		
	<i>fortinet</i>	Use Fortinet's servers to provide FortiGuard services in FortiGuard's anycast network.		
	<i>aws</i>	Use Fortinet's AWS servers to provide FortiGuard services in FortiGuard's anycast network.		
	<i>debug</i>	Use Fortinet's internal test servers to provide FortiGuard services in FortiGuard's anycast network.		
protocol	Protocol used to communicate with the FortiGuard servers.	option	-	https
	Option	Description		
	<i>udp</i>	UDP for server communication (for use by FortiGuard or FortiManager).		
	<i>http</i>	HTTP for server communication (for use only by FortiManager).		
	<i>https</i>	HTTPS for server communication (for use by FortiGuard or FortiManager).		
port	Port used to communicate with the FortiGuard servers.	option	-	443

Parameter	Description	Type	Size	Default											
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>8888</td><td>port 8888 for server communication.</td></tr><tr><td>53</td><td>port 53 for server communication.</td></tr><tr><td>80</td><td>port 80 for server communication.</td></tr><tr><td>443</td><td>port 443 for server communication.</td></tr></table>		Option	Description	8888	port 8888 for server communication.	53	port 53 for server communication.	80	port 80 for server communication.	443	port 443 for server communication.			
	Option	Description													
	8888	port 8888 for server communication.													
	53	port 53 for server communication.													
	80	port 80 for server communication.													
443	port 443 for server communication.														
service-account-id	Service account ID.	string	Maximum length: 50												
load-balance-servers	Number of servers to alternate between as first FortiGuard option.	integer	Minimum value: 1 Maximum value: 266	1											
auto-join-forticloud	Automatically connect to and login to FortiCloud.	option	-	disable											
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable automatic connection and login to FortiCloud.</td></tr><tr><td>disable</td><td>Disable automatic connection and login to FortiCloud.</td></tr></table>		Option	Description	enable	Enable automatic connection and login to FortiCloud.	disable	Disable automatic connection and login to FortiCloud.							
	Option	Description													
	enable	Enable automatic connection and login to FortiCloud.													
disable	Disable automatic connection and login to FortiCloud.														
update-server-location	Location from which to receive FortiGuard updates.	option	-	automatic											
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>automatic</td><td>FortiGuard servers chosen based on closest proximity to FortiGate unit.</td></tr><tr><td>usa</td><td>FortiGuard servers in United States.</td></tr><tr><td>eu</td><td>FortiGuard servers in the European Union.</td></tr></table>		Option	Description	automatic	FortiGuard servers chosen based on closest proximity to FortiGate unit.	usa	FortiGuard servers in United States.	eu	FortiGuard servers in the European Union.					
	Option	Description													
	automatic	FortiGuard servers chosen based on closest proximity to FortiGate unit.													
	usa	FortiGuard servers in United States.													
eu	FortiGuard servers in the European Union.														
sandbox-region	FortiCloud Sandbox region.	string	Maximum length: 63												
sandbox-inline-scan	Enable/disable FortiCloud Sandbox inline-scan.	option	-	disable											
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable FortiCloud Sandbox inline scan.</td></tr><tr><td>disable</td><td>Disable FortiCloud Sandbox inline scan.</td></tr></table>		Option	Description	enable	Enable FortiCloud Sandbox inline scan.	disable	Disable FortiCloud Sandbox inline scan.							
	Option	Description													
	enable	Enable FortiCloud Sandbox inline scan.													
disable	Disable FortiCloud Sandbox inline scan.														
update-ffdb	Enable/disable Internet Service Database update.	option	-	enable											

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable Internet Service Database update.		
	<i>disable</i>	Disable Internet Service Database update.		
update-uwdb	Enable/disable allowlist update.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable allowlist update.		
	<i>disable</i>	Disable allowlist update.		
update-dldb	Enable/disable DLP signature update.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable DLP signature update.		
	<i>disable</i>	Disable DLP signature update.		
update-extdb	Enable/disable external resource update.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable external resource update.		
	<i>disable</i>	Disable external resource update.		
update-build-proxy	Enable/disable proxy dictionary rebuild.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable proxy dictionary rebuild.		
	<i>disable</i>	Disable proxy dictionary rebuild.		
persistent-connection	Enable/disable use of persistent connection to receive update notification from FortiGuard.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable persistent connection to receive update notification from FortiGuard.		
	<i>disable</i>	Disable persistent connection to receive update notification from FortiGuard.		
vdom	FortiGuard Service virtual domain name.	string	Maximum length: 31	

Parameter	Description	Type	Size	Default																
auto-firmware-upgrade	Enable/disable automatic patch-level firmware upgrade from FortiGuard. The FortiGate unit searches for new patches only in the same major and minor version.	option	-	enable																
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable automatic patch-level firmware upgrade to latest version from FortiGuard.</td></tr><tr><td><i>disable</i></td><td>Disable automatic patch-level firmware upgrade to latest version from FortiGuard.</td></tr></table>	Option	Description	<i>enable</i>	Enable automatic patch-level firmware upgrade to latest version from FortiGuard.	<i>disable</i>	Disable automatic patch-level firmware upgrade to latest version from FortiGuard.													
Option	Description																			
<i>enable</i>	Enable automatic patch-level firmware upgrade to latest version from FortiGuard.																			
<i>disable</i>	Disable automatic patch-level firmware upgrade to latest version from FortiGuard.																			
auto-firmware-upgrade-day	Allowed day(s) of the week to install an automatic patch-level firmware upgrade from FortiGuard (default is none). Disallow any day of the week to use auto-firmware-upgrade-delay instead, which waits for designated days before installing an automatic patch-level firmware upgrade.	option	-																	
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>sunday</i></td><td>Sunday.</td></tr><tr><td><i>monday</i></td><td>Monday.</td></tr><tr><td><i>tuesday</i></td><td>Tuesday.</td></tr><tr><td><i>wednesday</i></td><td>Wednesday.</td></tr><tr><td><i>thursday</i></td><td>Thursday.</td></tr><tr><td><i>friday</i></td><td>Friday.</td></tr><tr><td><i>saturday</i></td><td>Saturday.</td></tr></table>	Option	Description	<i>sunday</i>	Sunday.	<i>monday</i>	Monday.	<i>tuesday</i>	Tuesday.	<i>wednesday</i>	Wednesday.	<i>thursday</i>	Thursday.	<i>friday</i>	Friday.	<i>saturday</i>	Saturday.			
Option	Description																			
<i>sunday</i>	Sunday.																			
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<i>thursday</i>	Thursday.																			
<i>friday</i>	Friday.																			
<i>saturday</i>	Saturday.																			
auto-firmware-upgrade-delay	Delay of day(s) before installing an automatic patch-level firmware upgrade from FortiGuard (default = 3). Set it 0 to use auto-firmware-upgrade-day instead, which selects allowed day (s) of the week for installing an automatic patch-level firmware upgrade.	integer	Minimum value: 0 Maximum value: 14	3																
auto-firmware-upgrade-start-hour	Start time in the designated time window for automatic patch-level firmware upgrade from FortiGuard in 24 hour time (0 ~ 23, default = 2). The actual upgrade time is selected randomly within the time window.	integer	Minimum value: 0 Maximum value: 23	1																

Parameter	Description	Type	Size	Default						
auto-firmware-upgrade-end-hour	End time in the designated time window for automatic patch-level firmware upgrade from FortiGuard in 24 hour time (0 ~ 23, default = 4). When the end time is smaller than the start time, the end time is interpreted as the next day. The actual upgrade time is selected randomly within the time window.	integer	Minimum value: 0 Maximum value: 23	4						
FDS-license-expiring-days	Threshold for number of days before FortiGuard license expiration to generate license expiring event log (1 - 100 days, default = 15).	integer	Minimum value: 1 Maximum value: 100	15						
antispam-force-off	Enable/disable turning off the FortiGuard antispam service.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Turn off the FortiGuard antispam service.</td></tr><tr><td><i>disable</i></td><td>Allow the FortiGuard antispam service.</td></tr></table>				Option	Description	<i>enable</i>	Turn off the FortiGuard antispam service.	<i>disable</i>	Allow the FortiGuard antispam service.
Option	Description									
<i>enable</i>	Turn off the FortiGuard antispam service.									
<i>disable</i>	Allow the FortiGuard antispam service.									
antispam-cache	Enable/disable FortiGuard antispam request caching. Uses a small amount of memory but improves performance.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable FortiGuard antispam request caching.</td></tr><tr><td><i>disable</i></td><td>Disable FortiGuard antispam request caching.</td></tr></table>				Option	Description	<i>enable</i>	Enable FortiGuard antispam request caching.	<i>disable</i>	Disable FortiGuard antispam request caching.
Option	Description									
<i>enable</i>	Enable FortiGuard antispam request caching.									
<i>disable</i>	Disable FortiGuard antispam request caching.									
antispam-cache-ttl	Time-to-live for antispam cache entries in seconds (300 - 86400). Lower times reduce the cache size. Higher times may improve performance since the cache will have more entries.	integer	Minimum value: 300 Maximum value: 86400	1800						
antispam-cache-mpermille	Maximum permille of FortiProxy memory the antispam cache is allowed to use (1 - 150).	integer	Minimum value: 1 Maximum value: 150	1						
antispam-license	Interval of time between license checks for the FortiGuard antispam contract.	integer	Minimum value: 0 Maximum value: 4294967295	4294967295						

Parameter	Description	Type	Size	Default
antispam-expiration	Expiration date of the FortiGuard antispam contract.	integer	Minimum value: 0 Maximum value: 4294967295	0
antispam-timeout	Antispam query time out (1 - 30 sec, default = 7).	integer	Minimum value: 1 Maximum value: 30	7
outbreak-prevention-force-off	Turn off FortiGuard Virus Outbreak Prevention service.	option	-	disable
	Option		Description	
	<i>enable</i>		Turn off FortiGuard antivirus service.	
	<i>disable</i>		Allow the FortiGuard antivirus service.	
outbreak-prevention-cache	Enable/disable FortiGuard Virus Outbreak Prevention cache.	option	-	enable
	Option		Description	
	<i>enable</i>		Enable FortiGuard antivirus caching.	
	<i>disable</i>		Disable FortiGuard antivirus caching.	
outbreak-prevention-cache-ttl	Time-to-live for FortiGuard Virus Outbreak Prevention cache entries (300 - 86400 sec, default = 300).	integer	Minimum value: 300 Maximum value: 86400	300
outbreak-prevention-cache-mpermille	Maximum permille of memory FortiGuard Virus Outbreak Prevention cache can use (1 - 150 permille, default = 1).	integer	Minimum value: 1 Maximum value: 150	1
outbreak-prevention-license	Interval of time between license checks for FortiGuard Virus Outbreak Prevention contract.	integer	Minimum value: 0 Maximum value: 4294967295	4294967295

Parameter	Description	Type	Size	Default						
outbreak-prevention-expiration	Expiration date of FortiGuard Virus Outbreak Prevention contract.	integer	Minimum value: 0 Maximum value: 4294967295	0						
outbreak-prevention-timeout	FortiGuard Virus Outbreak Prevention time out (1 - 30 sec, default = 7).	integer	Minimum value: 1 Maximum value: 30	7						
fnbi-license	License type.	integer	Minimum value: 0 Maximum value: 4294967295	0						
fnbi-expiration	License expiration.	integer	Minimum value: 0 Maximum value: 4294967295	0						
webfilter-force-off	Enable/disable turning off the FortiGuard web filtering service.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Turn off the FortiGuard web filtering service.</td></tr><tr><td><i>disable</i></td><td>Allow the FortiGuard web filtering service to operate.</td></tr></table>				Option	Description	<i>enable</i>	Turn off the FortiGuard web filtering service.	<i>disable</i>	Allow the FortiGuard web filtering service to operate.
Option	Description									
<i>enable</i>	Turn off the FortiGuard web filtering service.									
<i>disable</i>	Allow the FortiGuard web filtering service to operate.									
webfilter-cache	Enable/disable FortiGuard web filter caching.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable FortiGuard web filter caching.</td></tr><tr><td><i>disable</i></td><td>Disable FortiGuard web filter caching.</td></tr></table>				Option	Description	<i>enable</i>	Enable FortiGuard web filter caching.	<i>disable</i>	Disable FortiGuard web filter caching.
Option	Description									
<i>enable</i>	Enable FortiGuard web filter caching.									
<i>disable</i>	Disable FortiGuard web filter caching.									
webfilter-cache-ttl	Time-to-live for web filter cache entries in seconds (300 - 86400).	integer	Minimum value: 300 Maximum value: 86400	3600						
webfilter-license	Interval of time between license checks for the FortiGuard web filter contract.	integer	Minimum value: 0 Maximum value: 4294967295	4294967295						

Parameter	Description	Type	Size	Default				
webfilter-expiration	Expiration date of the FortiGuard web filter contract.	integer	Minimum value: 0 Maximum value: 4294967295	0				
webfilter-timeout	Web filter query time out (1 - 30 sec, default = 15).	integer	Minimum value: 1 Maximum value: 30	15				
sdns-server-ip	IP address of the FortiGuard DNS rating server.	user	Not Specified					
sdns-server-port	Port to connect to on the FortiGuard DNS rating server.	integer	Minimum value: 1 Maximum value: 65535	53				
anycast-sdns-server-ip	IP address of the FortiGuard anycast DNS rating server.	ipv4-address	Not Specified	0.0.0.0				
anycast-sdns-server-port	Port to connect to on the FortiGuard anycast DNS rating server.	integer	Minimum value: 1 Maximum value: 65535	853				
sdns-options	Customization options for the FortiGuard DNS service.	option	-					
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>include-question-section</i></td><td>Include DNS question section in the FortiGuard DNS setup message.</td></tr></table>				Option	Description	<i>include-question-section</i>	Include DNS question section in the FortiGuard DNS setup message.
Option	Description							
<i>include-question-section</i>	Include DNS question section in the FortiGuard DNS setup message.							
source-ip	Source IPv4 address used to communicate with FortiGuard.	ipv4-address	Not Specified	0.0.0.0				
source-ip6	Source IPv6 address used to communicate with FortiGuard.	ipv6-address	Not Specified	::				
proxy-server-ip	Hostname or IPv4 address of the proxy server.	string	Maximum length: 63					
proxy-server-port	Port used to communicate with the proxy server.	integer	Minimum value: 0 Maximum value: 65535	0				
proxy-username	Proxy user name.	string	Maximum length: 64					

Parameter	Description	Type	Size	Default						
proxy-password	Proxy user password.	password	Not Specified							
ddns-server-ip	IP address of the FortiDDNS server.	ipv4-address	Not Specified	0.0.0.0						
ddns-server-ip6	IPv6 address of the FortiDDNS server.	ipv6-address	Not Specified	::						
ddns-server-port	Port used to communicate with FortiDDNS servers.	integer	Minimum value: 1 Maximum value: 65535	443						
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>auto</i></td><td>Set outgoing interface automatically.</td></tr><tr><td><i>specify</i></td><td>Set outgoing interface manually.</td></tr></table>				Option	Description	<i>auto</i>	Set outgoing interface automatically.	<i>specify</i>	Set outgoing interface manually.
Option	Description									
<i>auto</i>	Set outgoing interface automatically.									
<i>specify</i>	Set outgoing interface manually.									
interface	Specify outgoing interface to reach server.	string	Maximum length: 15							

config system fortiguard-log-service

Configuration of FortiCloud log service.

```
config system fortiguard-log-service
    Description: Configuration of FortiCloud log service.
end
```

config system fortiguard-service

Configuration of FortiGuard services.

```
config system fortiguard-service
    Description: Configuration of FortiGuard services.
end
```

config system fortindr

Configure FortiNDR.

```
config system fortindr
    Description: Configure FortiNDR.
```

```

set status [disable|enable]
set source-ip {string}
set interface-select-method [auto|specify]
set interface {string}
end

```

config system fortindr

Parameter	Description	Type	Size	Default
status	Enable/disable FortiNDR.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable FortiNDR.		
	<i>enable</i>	Enable FortiNDR.		
source-ip	Source IP address for communications to FortiNDR.	string	Maximum length: 63	
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto
	Option	Description		
	<i>auto</i>	Set outgoing interface automatically.		
	<i>specify</i>	Set outgoing interface manually.		
interface	Specify outgoing interface to reach server.	string	Maximum length: 15	

config system fortisandbox

Configure FortiSandbox.

```

config system fortisandbox
  Description: Configure FortiSandbox.
  set status [enable|disable]
  set forticloud [enable|disable]
  set inline-scan [enable|disable]
  set server {string}
  set alt-server {string}
  set health-check-interval {integer}
  set source-ip {string}
  set interface-select-method [auto|specify]
  set interface {string}
  set enc-algorithm [default|high|...]
  set ssl-min-proto-version [default|SSLv3|...]
  set email {string}
end

```

config system fortisandbox

Parameter	Description	Type	Size	Default
status	Enable/disable FortiSandbox.	option	-	disable
	Option	Description		
	enable	Enable FortiSandbox.		
	disable	Disable FortiSandbox.		
forticloud	Enable/disable FortiSandbox Cloud.	option	-	disable
	Option	Description		
	enable	Enable FortiSandbox Cloud.		
	disable	Disable FortiSandbox Cloud.		
inline-scan	Enable/disable FortiSandbox inline scan.	option	-	disable
	Option	Description		
	enable	Enable FortiSandbox inline scan.		
	disable	Disable FortiSandbox inline scan.		
server	Server IP address or FQDN of the remote FortiSandbox.	string	Maximum length: 63	
alt-server	Server address of the alternative remote FortiSandbox.	string	Maximum length: 63	
health-check-interval	FortiSandbox failover health check interval in seconds.	integer	Minimum value: 1 Maximum value: 120	5
source-ip	Source IP address for communications to FortiSandbox.	string	Maximum length: 63	
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto
	Option	Description		
	auto	Set outgoing interface automatically.		
	specify	Set outgoing interface manually.		
interface	Specify outgoing interface to reach server.	string	Maximum length: 15	

Parameter	Description	Type	Size	Default
enc-algorithm	Configure the level of SSL protection for secure communication with FortiSandbox.	option	-	default
	Option	Description		
	<i>default</i>	SSL communication with high and medium encryption algorithms.		
	<i>high</i>	SSL communication with high encryption algorithms.		
	<i>low</i>	SSL communication with low encryption algorithms.		
ssl-min-protocol-version	Minimum supported protocol version for SSL/TLS connections (default is to follow system global setting).	option	-	default
	Option	Description		
	<i>default</i>	Follow system global setting.		
	<i>SSLv3</i>	SSLv3.		
	<i>TLSv1</i>	TLSv1.		
	<i>TLSv1-1</i>	TLSv1.1.		
	<i>TLSv1-2</i>	TLSv1.2.		
	<i>TLSv1-3</i>	TLSv1.3.		
email	Notifier email address.	string	Maximum length: 63	

config system fsso-polling

Configure Fortinet Single Sign On (FSSO) server.

```
config system fsso-polling
    Description: Configure Fortinet Single Sign On (FSSO) server.
    set status [enable|disable]
    set listening-port {integer}
    set authentication [enable|disable]
    set auth-password {password}
end
```

config system fsso-polling

Parameter	Description	Type	Size	Default
status	Enable/disable FSSO Polling Mode.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable FSSO Polling Mode.		
	<i>disable</i>	Disable FSSO Polling Mode.		
listening-port	Listening port to accept clients (1 - 65535).	integer	Minimum value: 1 Maximum value: 65535	8000
authentication	Enable/disable FSSO Agent Authentication.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable FSSO Agent Authentication.		
	<i>disable</i>	Disable FSSO Agent Authentication.		
auth-password	Password to connect to FSSO Agent.	password	Not Specified	

config system ftm-push

Configure FortiToken Mobile push services.

```
config system ftm-push
    Description: Configure FortiToken Mobile push services.
    set proxy [enable|disable]
    set server-port {integer}
    set server-cert {string}
    set server-ip {ipv4-address}
    set server {string}
    set status [enable|disable]
end
```

config system ftm-push

Parameter	Description	Type	Size	Default
proxy	Enable/disable communication to the proxy server in FortiGuard configuration.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable communication to the proxy server in FortiGuard configuration.		
	<i>disable</i>	Disable communication to the proxy server in FortiGuard configuration.		

Parameter	Description	Type	Size	Default
server-port	Port to communicate with FortiToken Mobile push services server (1 - 65535, default = 4433).	integer	Minimum value: 1 Maximum value: 65535	4433
server-cert	Name of the server certificate to be used for SSL.	string	Maximum length: 35	Fortinet_GUI_Server
server-ip	IPv4 address of FortiToken Mobile push services server (format: xxx.xxx.xxx.xxx).	ipv4-address	Not Specified	0.0.0.0
server	IPv4 address or domain name of FortiToken Mobile push services server.	string	Maximum length: 127	
status	Enable/disable the use of FortiToken Mobile push services.	option	-	disable

Option	Description
<i>enable</i>	Enable FortiToken Mobile push services.
<i>disable</i>	Disable FortiToken Mobile push services.

config system geoip-country

Define geoip country name-ID table.

```
config system geoip-country
    Description: Define geoip country name-ID table.
    edit <id>
        set name {string}
    next
end
```

config system geoip-country

Parameter	Description	Type	Size	Default
id	Country ID.	string	Maximum length: 2	
name	Country name.	string	Maximum length: 63	

config system geoip-override

Configure geographical location mapping for IP address(es) to override mappings from FortiGuard.

```

config system geoip-override
    Description: Configure geographical location mapping for IP address(es) to override
    mappings from FortiGuard.
    edit <name>
        set description {string}
        set country-id {string}
        config ip-range
            Description: Table of IP ranges assigned to country.
            edit <id>
                set start-ip {ipv4-address}
                set end-ip {ipv4-address}
            next
        end
        config ip6-range
            Description: Table of IPv6 ranges assigned to country.
            edit <id>
                set start-ip {ipv6-address}
                set end-ip {ipv6-address}
            next
        end
    next
end

```

config system geoip-override

Parameter	Description	Type	Size	Default
name	Location name.	string	Maximum length: 63	
description	Description.	string	Maximum length: 127	
country-id	Two character Country ID code.	string	Maximum length: 2	

config ip-range

Parameter	Description	Type	Size	Default
id	ID of individual entry in the IP range table.	integer	Minimum value: 0 Maximum value: 65535	0
start-ip	Starting IP address, inclusive, of the address range (format: xxx.xxx.xxx.xxx).	ipv4-address	Not Specified	0.0.0.0
end-ip	Ending IP address, inclusive, of the address range (format: xxx.xxx.xxx.xxx).	ipv4-address	Not Specified	0.0.0.0

config ip6-range

Parameter	Description	Type	Size	Default
id	ID of individual entry in the IPv6 range table.	integer	Minimum value: 0 Maximum value: 65535	0
start-ip	Starting IP address, inclusive, of the address range (format: xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx).	ipv6-address	Not Specified	::
end-ip	Ending IP address, inclusive, of the address range (format: xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx).	ipv6-address	Not Specified	::

config system global

Configure global attributes.

```
config system global
  Description: Configure global attributes.
  set language [english|french|...]
  set gui-allow-incompatible-fabric-ftg [enable|disable]
  set gui-ipv6 [enable|disable]
  set gui-replacement-message-groups [enable|disable]
  set gui-local-out [enable|disable]
  set gui-certificates [enable|disable]
  set gui-custom-language [enable|disable]
  set gui-app-detection-sdwan [enable|disable]
  set gui-display-hostname [enable|disable]
  set gui-fortigate-cloud-sandbox [enable|disable]
  set gui-firmware-upgrade-warning [enable|disable]
  set gui-forticare-registration-setup-warning [enable|disable]
  set gui-auto-upgrade-setup-warning [enable|disable]
  set gui-workflow-management [enable|disable]
  set gui-cdn-usage [enable|disable]
  set admin-https-ssl-versions {option1}, {option2}, ...
  set admin-https-ssl-ciphersuites {option1}, {option2}, ...
  set admin-https-ssl-banned-ciphers {option1}, {option2}, ...
  set admin-timeout {integer}
  set admin-console-timeout {integer}
  set ssd-trim-freq [never|hourly|...]
  set ssd-trim-hour {integer}
  set ssd-trim-min {integer}
  set ssd-trim-weekday [sunday|monday|...]
  set ssd-trim-date {integer}
  set admin-concurrent [enable|disable]
  set admin-lockout-threshold {integer}
  set admin-lockout-duration {integer}
  set refresh {integer}
  set interval {integer}
  set failtime {integer}
```

```
set purdue-level [1|1.5|...]
set daily-restart [enable|disable]
set restart-time {user}
set wad-restart-mode [none|time|...]
set wad-restart-start-time {user}
set wad-restart-end-time {user}
set radius-port {integer}
set speedtestd-server-port {integer}
set speedtestd-ctrl-port {integer}
set admin-login-max {integer}
set remoteauthtimeout {integer}
set ldapconntimeout {integer}
set batch-cmdb [enable|disable]
set multi-factor-authentication [optional|mandatory]
set ssl-min-proto-version [SSLv3|TLSv1|...]
set autorun-log-fsck [enable|disable]
set timezone {string}
set traffic-priority [tos|dscp]
set traffic-priority-level [low|medium|...]
set quic-congestion-control-algo [cubic|bbr|...]
set quic-max-datagram-size {integer}
set quic-udp-payload-size-shaping-per-cid [enable|disable]
set quic-ack-thresold {integer}
set quic-pmtud [enable|disable]
set quic-tls-handshake-timeout {integer}
set anti-replay [disable|loose|...]
set pmtu-discovery [enable|disable]
set revision-image-auto-backup [enable|disable]
set revision-backup-on-logout [enable|disable]
set hostname {string}
set alias {string}
set strong-crypto [enable|disable]
set ssl-static-key-ciphers [enable|disable]
set snat-route-change [enable|disable]
set speedtest-server [enable|disable]
set cli-audit-log [enable|disable]
set dh-params [1024|1536|...]
set fds-statistics [enable|disable]
set fds-statistics-period {integer}
set tcp-option [enable|disable]
set lldp-transmission [enable|disable]
set lldp-reception [enable|disable]
set proxy-auth-timeout {integer}
set proxy-keep-alive-mode [session|traffic|...]
set proxy-re-authentication-time {integer}
set proxy-auth-lifetime [enable|disable]
set proxy-auth-lifetime-timeout {integer}
set proxy-auth-machine-timeout {integer}
set proxy-resource-mode [enable|disable]
set proxy-cert-use-mgmt-vdom [enable|disable]
set update-tls-finger-print [enable|disable]
set sys-perf-log-interval {integer}
set check-protocol-header [loose|strict]
set vip-arp-range [unlimited|restricted]
set tcp-halfclose-timer {integer}
set tcp-halfopen-timer {integer}
```

```
set tcp-timewait-timer {integer}
set tcp-rst-timer {integer}
set udp-idle-timer {integer}
set block-session-timer {integer}
set ip-src-port-range {user}
set pre-login-banner [enable|disable]
set post-login-banner [disable|enable]
set tftp [enable|disable]
set av-failopen [pass|off|...]
set av-failopen-session [enable|disable]
set kernel-panic-timeout {integer}
set kernel-panic-debug [enable|disable]
set memory-use-threshold-extreme {integer}
set memory-use-threshold-red {integer}
set memory-use-threshold-green {integer}
set ip-fragment-mem-thresholds {integer}
set cpu-use-threshold {integer}
set log-single-cpu-high [enable|disable]
set check-reset-range [strict|disable]
set admin-port {integer}
set admin-sport {integer}
set admin-host {string}
set admin-https-redirect [enable|disable]
set admin-hsts-max-age {integer}
set admin-ssh-password [enable|disable]
set admin-restrict-local [enable|disable]
set admin-ssh-port {integer}
set admin-ssh-grace-time {integer}
set admin-ssh-v1 [enable|disable]
set admin-telnet [enable|disable]
set admin-telnet-port {integer}
set admin-forticloud-sso-login [enable|disable]
set admin-forticloud-sso-default-profile {string}
set default-service-source-port {user}
set admin-server-cert {string}
set admin-https-pki-required [enable|disable]
set auth-http-port {integer}
set auth-https-port {integer}
set auth-ike-saml-port {integer}
set auth-keepalive [enable|disable]
set policy-auth-concurrent {integer}
set auth-session-limit [block-new|logout-inactive]
set auth-cert {string}
set clt-cert-req [enable|disable]
set fortiservice-port {integer}
set cfg-save [automatic|manual|...]
set cfg-revert-timeout {integer}
set reboot-upon-config-restore [enable|disable]
set admin-scp [enable|disable]
set security-rating-run-on-schedule [enable|disable]
set fortiextender-data-port {integer}
set fortiextender [disable|enable]
set extender-controller-reserved-network {ipv4-classnet-host}
set fortiextender-discovery-lockdown [disable|enable]
set fortiextender-provision-on-authorization [enable|disable]
set dnsproxy-worker-count {integer}
```

```
set url-filter-count {integer}
set proxy-worker-count {integer}
set scanunit-count {integer}
set fgd-alert-subscription {option1}, {option2}, ...
set ipv6-accept-dad {integer}
set ipv6-allow-multicast-probe [enable|disable]
set ipv6-allow-local-in-silent-drop [enable|disable]
set csr-ca-attribute [enable|disable]
set wimax-4g-usb [enable|disable]
set cert-chain-max {integer}
set two-factor-ftk-expiry {integer}
set two-factor-email-expiry {integer}
set two-factor-sms-expiry {integer}
set two-factor-fac-expiry {integer}
set two-factor-ftm-expiry {integer}
set max-img-cache-size {integer}
set img-cache-mode [stop|rolling]
set per-user-bal [enable|disable]
set wad-worker-count {integer}
set wad-csvc-cs-count {integer}
set wad-csvc-db-count {integer}
set http-view [enable|disable]
set wad-source-affinity [disable|enable]
set wad-memory-change-granularity {integer}
set login-timestamp [enable|disable]
set miglogd-children {integer}
set special-file-23-support [disable|enable]
set log-uuid-address [enable|disable]
set log-ssl-connection [enable|disable]
set gui-rest-api-cache [enable|disable]
set rest-api-key-url-query [enable|disable]
set gui-cdn-domain-override {string}
set arp-max-entry {integer}
set ha-affinity {string}
set bfd-affinity {string}
set cmdbsvr-affinity {string}
set av-affinity {string}
set wad-affinity {string}
set ips-affinity {string}
set miglog-affinity {string}
set syslog-affinity {string}
set url-filter-affinity {string}
set ndp-max-entry {integer}
set br-fdb-max-entry {integer}
set max-route-cache-size {integer}
set ipsec-round-robin [enable|disable]
set device-idle-timeout {integer}
set user-device-store-max-devices {integer}
set user-device-store-max-users {integer}
set user-device-store-max-unified-mem {integer}
set gui-device-latitude {string}
set gui-device-longitude {string}
set v-tpm [disable|enable]
set private-data-encryption [disable|enable]
set auto-auth-extension-device [enable|disable]
set gui-theme [jade|neutrino|...]
```



```

set gui-date-format [yyyy/MM/dd|dd/MM/yyyy|...]
set gui-date-time-source [system|browser]
set igmp-state-limit {integer}
set cloud-communication [enable|disable]
set ipsec-ha-seqjump-rate {integer}
set fortitoken-cloud [enable|disable]
set fortitoken-cloud-push-status [enable|disable]
set fortitoken-cloud-sync-interval {integer}
set faz-disk-buffer-size {integer}
set irq-time-accounting [auto|force]
set management-ip {string}
set management-port {integer}
set management-port-use-admin-sport [enable|disable]
set forticonverter-integration [enable|disable]
set forticonverter-config-upload [once|disable]
set internet-service-database [mini|standard|...]
set internet-service-download-list <id1>, <id2>, ...
set early-tcp-npu-session [enable|disable]
set interface-subnet-usage [disable|enable]
set sflowd-max-children-num {integer}
set fortigs1b-integration [disable|enable]
set license-overlimit [bypass|block]
set max-session-per-user {integer}
set conntrack {integer}
set established-timeout {integer}
set time-wait-timeout {integer}
set fin-wait-timeout {integer}
set close-wait-timeout {integer}
set syn-sent-timeout {integer}
set syn-recv-timeout {integer}
set last-ack-timeout {integer}
set udp-timeout {integer}
set udp-stream-timeout {integer}
set username-case-sensitivity [enable|disable]

```

end

config system global

Parameter	Description	Type	Size	Default
language	GUI display language.	option	-	english
	Option	Description		
	<i>english</i>	English.		
	<i>french</i>	French.		
	<i>spanish</i>	Spanish.		
	<i>portuguese</i>	Portuguese.		
	<i>japanese</i>	Japanese.		

Parameter	Description	Type	Size	Default								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>trach</i></td><td>Traditional Chinese.</td></tr><tr><td><i>simch</i></td><td>Simplified Chinese.</td></tr><tr><td><i>korean</i></td><td>Korean.</td></tr></table>	Option	Description	<i>trach</i>	Traditional Chinese.	<i>simch</i>	Simplified Chinese.	<i>korean</i>	Korean.			
	Option	Description										
	<i>trach</i>	Traditional Chinese.										
	<i>simch</i>	Simplified Chinese.										
<i>korean</i>	Korean.											
gui-allow-incompatible-fabric-fgt	Enable/disable Allow FGT with incompatible firmware to be treated as compatible in security fabric on the GUI. May cause unexpected error.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Display the feature in GUI.</td></tr><tr><td><i>disable</i></td><td>Do not display the feature in GUI.</td></tr></table>	Option	Description	<i>enable</i>	Display the feature in GUI.	<i>disable</i>	Do not display the feature in GUI.					
	Option	Description										
	<i>enable</i>	Display the feature in GUI.										
<i>disable</i>	Do not display the feature in GUI.											
gui-ipv6	Enable/disable IPv6 settings on the GUI.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Display the feature in GUI.</td></tr><tr><td><i>disable</i></td><td>Do not display the feature in GUI.</td></tr></table>	Option	Description	<i>enable</i>	Display the feature in GUI.	<i>disable</i>	Do not display the feature in GUI.					
	Option	Description										
	<i>enable</i>	Display the feature in GUI.										
<i>disable</i>	Do not display the feature in GUI.											
gui-replacement-message-groups	Enable/disable replacement message groups on the GUI.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Display the feature in GUI.</td></tr><tr><td><i>disable</i></td><td>Do not display the feature in GUI.</td></tr></table>	Option	Description	<i>enable</i>	Display the feature in GUI.	<i>disable</i>	Do not display the feature in GUI.					
	Option	Description										
	<i>enable</i>	Display the feature in GUI.										
<i>disable</i>	Do not display the feature in GUI.											
gui-local-out	Enable/disable Local-out traffic on the GUI.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Display the feature in GUI.</td></tr><tr><td><i>disable</i></td><td>Do not display the feature in GUI.</td></tr></table>	Option	Description	<i>enable</i>	Display the feature in GUI.	<i>disable</i>	Do not display the feature in GUI.					
	Option	Description										
	<i>enable</i>	Display the feature in GUI.										
<i>disable</i>	Do not display the feature in GUI.											
gui-certificates	Enable/disable the System > Certificate GUI page, allowing you to add and configure certificates from the GUI.	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Display the feature in GUI.</td></tr></table>	Option	Description	<i>enable</i>	Display the feature in GUI.							
	Option	Description										
<i>enable</i>	Display the feature in GUI.											

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Do not display the feature in GUI.		
gui-custom-language	Enable/disable custom languages in GUI.	option	-	disable
	Option	Description		
	<i>enable</i>	Display the feature in GUI.		
	<i>disable</i>	Do not display the feature in GUI.		
gui-app-detection-sdwan	Enable/disable Allow app-detection based SD-WAN.	option	-	disable
	Option	Description		
	<i>enable</i>	Display the feature in GUI.		
	<i>disable</i>	Do not display the feature in GUI.		
gui-display-hostname	Enable/disable displaying the FortiProxy's hostname on the GUI login page.	option	-	disable
	Option	Description		
	<i>enable</i>	Display the feature in GUI.		
	<i>disable</i>	Do not display the feature in GUI.		
gui-fortigate-cloud-sandbox	Enable/disable displaying FortiProxy Cloud Sandbox on the GUI.	option	-	disable
	Option	Description		
	<i>enable</i>	Display the feature in GUI.		
	<i>disable</i>	Do not display the feature in GUI.		
gui-firmware-upgrade-warning	Enable/disable the firmware upgrade warning on the GUI.	option	-	enable
	Option	Description		
	<i>enable</i>	Display the feature in GUI.		
	<i>disable</i>	Do not display the feature in GUI.		
gui-forticare-registration-setup-warning	Enable/disable the FortiCare registration setup warning on the GUI.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Display the feature in GUI.		
	<i>disable</i>	Do not display the feature in GUI.		
gui-auto-upgrade-setup-warning	Enable/disable the automatic patch upgrade setup prompt on the GUI.	option	-	enable
	Option	Description		
	<i>enable</i>	Display the feature in GUI.		
	<i>disable</i>	Do not display the feature in GUI.		
gui-workflow-management	Enable/disable Workflow management features on the GUI.	option	-	disable
	Option	Description		
	<i>enable</i>	Display the feature in GUI.		
	<i>disable</i>	Do not display the feature in GUI.		
gui-cdn-usage	Enable/disable Load GUI static files from a CDN.	option	-	disable
	Option	Description		
	<i>enable</i>	Display the feature in GUI.		
	<i>disable</i>	Do not display the feature in GUI.		
admin-https-ssl-versions	Allowed TLS versions for web administration.	option	-	tlsv1-2 tlsv1-3
	Option	Description		
	<i>tlsv1-1</i>	TLS 1.1.		
	<i>tlsv1-2</i>	TLS 1.2.		
	<i>tlsv1-3</i>	TLS 1.3.		
admin-https-ssl-ciphersuites	Select one or more TLS 1.3 ciphersuites to enable. Does not affect ciphers in TLS 1.2 and below. At least one must be enabled. To disable all, remove TLS1.3 from admin-https-ssl-versions.	option	-	TLS-AES-128-GCM-SHA256 TLS-AES-256-GCM-SHA384 TLS-CHACHA20-POLY1305-SHA256

Parameter	Description	Type	Size	Default																												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>TLS-AES-128-GCM-SHA256</td><td>Enable TLS-AES-128-GCM-SHA256 in TLS 1.3.</td></tr><tr><td>TLS-AES-256-GCM-SHA384</td><td>Enable TLS-AES-256-GCM-SHA384 in TLS 1.3.</td></tr><tr><td>TLS-CHACHA20-POLY1305-SHA256</td><td>Enable TLS-CHACHA20-POLY1305-SHA256 in TLS 1.3.</td></tr><tr><td>TLS-AES-128-CCM-SHA256</td><td>Enable TLS-AES-128-CCM-SHA256 in TLS 1.3.</td></tr><tr><td>TLS-AES-128-CCM-8-SHA256</td><td>Enable TLS-AES-128-CCM-8-SHA256 in TLS 1.3.</td></tr></table>	Option	Description	TLS-AES-128-GCM-SHA256	Enable TLS-AES-128-GCM-SHA256 in TLS 1.3.	TLS-AES-256-GCM-SHA384	Enable TLS-AES-256-GCM-SHA384 in TLS 1.3.	TLS-CHACHA20-POLY1305-SHA256	Enable TLS-CHACHA20-POLY1305-SHA256 in TLS 1.3.	TLS-AES-128-CCM-SHA256	Enable TLS-AES-128-CCM-SHA256 in TLS 1.3.	TLS-AES-128-CCM-8-SHA256	Enable TLS-AES-128-CCM-8-SHA256 in TLS 1.3.																			
	Option	Description																														
	TLS-AES-128-GCM-SHA256	Enable TLS-AES-128-GCM-SHA256 in TLS 1.3.																														
	TLS-AES-256-GCM-SHA384	Enable TLS-AES-256-GCM-SHA384 in TLS 1.3.																														
	TLS-CHACHA20-POLY1305-SHA256	Enable TLS-CHACHA20-POLY1305-SHA256 in TLS 1.3.																														
	TLS-AES-128-CCM-SHA256	Enable TLS-AES-128-CCM-SHA256 in TLS 1.3.																														
TLS-AES-128-CCM-8-SHA256	Enable TLS-AES-128-CCM-8-SHA256 in TLS 1.3.																															
admin-https-ssl-banned-ciphers	Select one or more cipher technologies that cannot be used in GUI HTTPS negotiations. Only applies to TLS 1.2 and below.	option	-																													
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>RSA</td><td>Ban the use of cipher suites using RSA key.</td></tr><tr><td>DHE</td><td>Ban the use of cipher suites using authenticated ephemeral DH key agreement.</td></tr><tr><td>ECDHE</td><td>Ban the use of cipher suites using authenticated ephemeral ECDH key agreement.</td></tr><tr><td>DSS</td><td>Ban the use of cipher suites using DSS authentication.</td></tr><tr><td>ECDSA</td><td>Ban the use of cipher suites using ECDSA authentication.</td></tr><tr><td>AES</td><td>Ban the use of cipher suites using either 128 or 256 bit AES.</td></tr><tr><td>AESGCM</td><td>Ban the use of cipher suites using AES in Galois Counter Mode (GCM).</td></tr><tr><td>CAMELLIA</td><td>Ban the use of cipher suites using either 128 or 256 bit CAMELLIA.</td></tr><tr><td>3DES</td><td>Ban the use of cipher suites using triple DES.</td></tr><tr><td>SHA1</td><td>Ban the use of cipher suites using HMAC-SHA1.</td></tr><tr><td>SHA256</td><td>Ban the use of cipher suites using HMAC-SHA256.</td></tr><tr><td>SHA384</td><td>Ban the use of cipher suites using HMAC-SHA384.</td></tr><tr><td>STATIC</td><td>Ban the use of cipher suites using static keys.</td></tr></table>	Option	Description	RSA	Ban the use of cipher suites using RSA key.	DHE	Ban the use of cipher suites using authenticated ephemeral DH key agreement.	ECDHE	Ban the use of cipher suites using authenticated ephemeral ECDH key agreement.	DSS	Ban the use of cipher suites using DSS authentication.	ECDSA	Ban the use of cipher suites using ECDSA authentication.	AES	Ban the use of cipher suites using either 128 or 256 bit AES.	AESGCM	Ban the use of cipher suites using AES in Galois Counter Mode (GCM).	CAMELLIA	Ban the use of cipher suites using either 128 or 256 bit CAMELLIA.	3DES	Ban the use of cipher suites using triple DES.	SHA1	Ban the use of cipher suites using HMAC-SHA1.	SHA256	Ban the use of cipher suites using HMAC-SHA256.	SHA384	Ban the use of cipher suites using HMAC-SHA384.	STATIC	Ban the use of cipher suites using static keys.			
	Option	Description																														
	RSA	Ban the use of cipher suites using RSA key.																														
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Parameter	Description	Type	Size	Default												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>CHACHA20</td><td>Ban the use of cipher suites using ChaCha20.</td></tr><tr><td>ARIA</td><td>Ban the use of cipher suites using ARIA.</td></tr><tr><td>AESCCM</td><td>Ban the use of cipher suites using AESCCM.</td></tr></table>	Option	Description	CHACHA20	Ban the use of cipher suites using ChaCha20.	ARIA	Ban the use of cipher suites using ARIA.	AESCCM	Ban the use of cipher suites using AESCCM.							
	Option	Description														
	CHACHA20	Ban the use of cipher suites using ChaCha20.														
	ARIA	Ban the use of cipher suites using ARIA.														
AESCCM	Ban the use of cipher suites using AESCCM.															
admin-timeout	Number of minutes before an idle administrator session times out (1 - 480 minutes (8 hours), default = 5). A shorter idle timeout is more secure.	integer	Minimum value: 1 Maximum value: 480	5												
admin-console-timeout	Console login timeout that overrides the admin timeout value (15 - 300 seconds, default = 0, which disables the timeout).	integer	Minimum value: 15 Maximum value: 300	0												
ssd-trim-freq	How often to run SSD Trim (default = weekly). SSD Trim prevents SSD drive data loss by finding and isolating errors.	option	-	weekly												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>never</td><td>Never Run SSD Trim.</td></tr><tr><td>hourly</td><td>Run SSD Trim Hourly.</td></tr><tr><td>daily</td><td>Run SSD Trim Daily.</td></tr><tr><td>weekly</td><td>Run SSD Trim Weekly.</td></tr><tr><td>monthly</td><td>Run SSD Trim Monthly.</td></tr></table>	Option	Description	never	Never Run SSD Trim.	hourly	Run SSD Trim Hourly.	daily	Run SSD Trim Daily.	weekly	Run SSD Trim Weekly.	monthly	Run SSD Trim Monthly.			
	Option	Description														
	never	Never Run SSD Trim.														
	hourly	Run SSD Trim Hourly.														
	daily	Run SSD Trim Daily.														
	weekly	Run SSD Trim Weekly.														
monthly	Run SSD Trim Monthly.															
ssd-trim-hour	Hour of the day on which to run SSD Trim (0 - 23, default = 1).	integer	Minimum value: 0 Maximum value: 23	1												
ssd-trim-min	Minute of the hour on which to run SSD Trim (0 - 59, 60 for random).	integer	Minimum value: 0 Maximum value: 60	60												
ssd-trim-weekday	Day of week to run SSD Trim.	option	-	sunday												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>sunday</td><td>Sunday</td></tr><tr><td>monday</td><td>Monday</td></tr></table>	Option	Description	sunday	Sunday	monday	Monday									
	Option	Description														
	sunday	Sunday														
monday	Monday															

Parameter	Description	Type	Size	Default												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>tuesday</i></td><td>Tuesday</td></tr><tr><td><i>wednesday</i></td><td>Wednesday</td></tr><tr><td><i>thursday</i></td><td>Thursday</td></tr><tr><td><i>friday</i></td><td>Friday</td></tr><tr><td><i>saturday</i></td><td>Saturday</td></tr></table>	Option	Description	<i>tuesday</i>	Tuesday	<i>wednesday</i>	Wednesday	<i>thursday</i>	Thursday	<i>friday</i>	Friday	<i>saturday</i>	Saturday			
	Option	Description														
	<i>tuesday</i>	Tuesday														
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	<i>thursday</i>	Thursday														
	<i>friday</i>	Friday														
	<i>saturday</i>	Saturday														
ssd-trim-date	Date within a month to run ssd trim.	integer	Minimum value: 1 Maximum value: 31	1												
admin-concurrent	Enable/disable concurrent administrator logins. Use policy-auth-concurrent for firewall authenticated users.	option	-	enable												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable admin concurrent login.</td></tr><tr><td><i>disable</i></td><td>Disable admin concurrent login.</td></tr></table>	Option	Description	<i>enable</i>	Enable admin concurrent login.	<i>disable</i>	Disable admin concurrent login.									
	Option	Description														
	<i>enable</i>	Enable admin concurrent login.														
<i>disable</i>	Disable admin concurrent login.															
admin-lockout-threshold	Number of failed login attempts before an administrator account is locked out for the admin-lockout-duration.	integer	Minimum value: 1 Maximum value: 10	3												
admin-lockout-duration	Amount of time in seconds that an administrator account is locked out after reaching the admin-lockout-threshold for repeated failed login attempts.	integer	Minimum value: 1 Maximum value: 2147483647	60												
refresh	Statistics refresh interval second(s) in GUI.	integer	Minimum value: 0 Maximum value: 4294967295	0												
interval	Dead gateway detection interval.	integer	Minimum value: 0 Maximum value: 4294967295	5												

Parameter	Description	Type	Size	Default																				
failtime	Fail-time for server lost.	integer	Minimum value: 0 Maximum value: 4294967295	5																				
purdue-level	Purdue Level of this FortiGate.	option	-	3																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>1</td><td>Level 1 - Basic Control</td></tr><tr><td>1.5</td><td>Level 1.5</td></tr><tr><td>2</td><td>Level 2 - Area Supervisory Control</td></tr><tr><td>2.5</td><td>Level 2.5</td></tr><tr><td>3</td><td>Level 3 - Operations & Control</td></tr><tr><td>3.5</td><td>Level 3.5</td></tr><tr><td>4</td><td>Level 4 - Business Planning & Logistics</td></tr><tr><td>5</td><td>Level 5 - Enterprise Network</td></tr><tr><td>5.5</td><td>Level 5.5</td></tr></table>	Option	Description	1	Level 1 - Basic Control	1.5	Level 1.5	2	Level 2 - Area Supervisory Control	2.5	Level 2.5	3	Level 3 - Operations & Control	3.5	Level 3.5	4	Level 4 - Business Planning & Logistics	5	Level 5 - Enterprise Network	5.5	Level 5.5			
	Option	Description																						
	1	Level 1 - Basic Control																						
	1.5	Level 1.5																						
	2	Level 2 - Area Supervisory Control																						
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	3.5	Level 3.5																						
	4	Level 4 - Business Planning & Logistics																						
	5	Level 5 - Enterprise Network																						
5.5	Level 5.5																							
daily-restart	Enable/disable daily restart of FortiProxy unit. Use the restart-time option to set the time of day for the restart.	option	-	disable																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable daily reboot of the FortiProxy.</td></tr><tr><td>disable</td><td>Disable daily reboot of the FortiProxy.</td></tr></table>	Option	Description	enable	Enable daily reboot of the FortiProxy.	disable	Disable daily reboot of the FortiProxy.																	
	Option	Description																						
	enable	Enable daily reboot of the FortiProxy.																						
disable	Disable daily reboot of the FortiProxy.																							
restart-time	Daily restart time (hh:mm).	user	Not Specified																					
wad-restart-mode	WAD worker restart mode (default = none).	option	-	none																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>none</td><td>Disable restart of WAD workers.</td></tr><tr><td>time</td><td>Enable daily restart of WAD workers.</td></tr><tr><td>memory</td><td>Enable restart of WAD workers based on memory usage.</td></tr></table>	Option	Description	none	Disable restart of WAD workers.	time	Enable daily restart of WAD workers.	memory	Enable restart of WAD workers based on memory usage.															
	Option	Description																						
	none	Disable restart of WAD workers.																						
	time	Enable daily restart of WAD workers.																						
memory	Enable restart of WAD workers based on memory usage.																							
wad-restart-start-time	WAD workers daily restart time (hh:mm).	user	Not Specified																					

Parameter	Description	Type	Size	Default						
wad-restart-end-time	WAD workers daily restart end time (hh:mm).	user	Not Specified							
radius-port	RADIUS service port number.	integer	Minimum value: 1 Maximum value: 65535	1812						
speedtestd-server-port	Speedtest server port number.	integer	Minimum value: 1 Maximum value: 65535	5201						
speedtestd-ctrl-port	Speedtest server controller port number.	integer	Minimum value: 1 Maximum value: 65535	5200						
admin-login-max	Maximum number of administrators who can be logged in at the same time (1 - 100, default = 100).	integer	Minimum value: 1 Maximum value: 100	100						
remoteauthtimeout	Number of seconds that the FortiGate waits for responses from remote RADIUS, LDAP, or TACACS+ authentication servers. (1-300 sec, default = 5).	integer	Minimum value: 1 Maximum value: 300	5						
ldapconntimeout	Global timeout for connections with remote LDAP servers in milliseconds (1 - 300000, default 500).	integer	Minimum value: 1 Maximum value: 300000	500						
batch-cmdb	Enable/disable batch mode, allowing you to enter a series of CLI commands that will execute as a group once they are loaded.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable batch mode to execute in CMDB server.</td></tr><tr><td><i>disable</i></td><td>Disable batch mode to execute in CMDB server.</td></tr></table>				Option	Description	<i>enable</i>	Enable batch mode to execute in CMDB server.	<i>disable</i>	Disable batch mode to execute in CMDB server.
Option	Description									
<i>enable</i>	Enable batch mode to execute in CMDB server.									
<i>disable</i>	Disable batch mode to execute in CMDB server.									
multi-factor-authentication	Enforce all login methods to require an additional authentication factor (default = optional).	option	-	optional						

Parameter	Description	Type	Size	Default												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>optional</i></td><td>Do not enforce all login methods to require an additional authentication factor (controlled by user settings).</td></tr><tr><td><i>mandatory</i></td><td>Enforce all login methods to require an additional authentication factor.</td></tr></table>	Option	Description	<i>optional</i>	Do not enforce all login methods to require an additional authentication factor (controlled by user settings).	<i>mandatory</i>	Enforce all login methods to require an additional authentication factor.									
	Option	Description														
	<i>optional</i>	Do not enforce all login methods to require an additional authentication factor (controlled by user settings).														
<i>mandatory</i>	Enforce all login methods to require an additional authentication factor.															
ssl-min-proto-version	Minimum supported protocol version for SSL/TLS connections (default = TLSv1.2).	option	-	TLSv1-2												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>SSLv3</i></td><td>SSLv3.</td></tr><tr><td><i>TLSv1</i></td><td>TLSv1.</td></tr><tr><td><i>TLSv1-1</i></td><td>TLSv1.1.</td></tr><tr><td><i>TLSv1-2</i></td><td>TLSv1.2.</td></tr><tr><td><i>TLSv1-3</i></td><td>TLSv1.3.</td></tr></table>	Option	Description	<i>SSLv3</i>	SSLv3.	<i>TLSv1</i>	TLSv1.	<i>TLSv1-1</i>	TLSv1.1.	<i>TLSv1-2</i>	TLSv1.2.	<i>TLSv1-3</i>	TLSv1.3.			
	Option	Description														
	<i>SSLv3</i>	SSLv3.														
	<i>TLSv1</i>	TLSv1.														
	<i>TLSv1-1</i>	TLSv1.1.														
	<i>TLSv1-2</i>	TLSv1.2.														
<i>TLSv1-3</i>	TLSv1.3.															
autorun-log-fsck	Enable/disable automatic log partition check after ungraceful shutdown.	option	-	disable												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable automatic log partition check after ungraceful shutdown.</td></tr><tr><td><i>disable</i></td><td>Disable automatic log partition check after ungraceful shutdown.</td></tr></table>	Option	Description	<i>enable</i>	Enable automatic log partition check after ungraceful shutdown.	<i>disable</i>	Disable automatic log partition check after ungraceful shutdown.									
	Option	Description														
	<i>enable</i>	Enable automatic log partition check after ungraceful shutdown.														
<i>disable</i>	Disable automatic log partition check after ungraceful shutdown.															
timezone	Timezone database name. Enter ? to view the list of timezone.	string	Maximum length: 63													
traffic-priority	Choose Type of Service (ToS) or Differentiated Services Code Point (DSCP) for traffic prioritization in traffic shaping.	option	-	tos												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>tos</i></td><td>IP TOS.</td></tr><tr><td><i>dscp</i></td><td>DSCP (DiffServ) DS.</td></tr></table>	Option	Description	<i>tos</i>	IP TOS.	<i>dscp</i>	DSCP (DiffServ) DS.									
	Option	Description														
	<i>tos</i>	IP TOS.														
<i>dscp</i>	DSCP (DiffServ) DS.															
traffic-priority-level	Default system-wide level of priority for traffic prioritization.	option	-	medium												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>low</i></td><td>Low priority.</td></tr></table>	Option	Description	<i>low</i>	Low priority.											
	Option	Description														
<i>low</i>	Low priority.															

Parameter	Description	Type	Size	Default										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>medium</i></td><td>Medium priority.</td></tr><tr><td><i>high</i></td><td>High priority.</td></tr></table>	Option	Description	<i>medium</i>	Medium priority.	<i>high</i>	High priority.							
	Option	Description												
	<i>medium</i>	Medium priority.												
<i>high</i>	High priority.													
quic-congestion-control-algo	QUIC congestion control algorithm (default = cubic).	option	-	cubic										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>cubic</i></td><td>Cubic.</td></tr><tr><td><i>bbr</i></td><td>BBR.</td></tr><tr><td><i>bbr2</i></td><td>BBR2.</td></tr><tr><td><i>reno</i></td><td>Reno.</td></tr></table>	Option	Description	<i>cubic</i>	Cubic.	<i>bbr</i>	BBR.	<i>bbr2</i>	BBR2.	<i>reno</i>	Reno.			
	Option	Description												
	<i>cubic</i>	Cubic.												
	<i>bbr</i>	BBR.												
	<i>bbr2</i>	BBR2.												
<i>reno</i>	Reno.													
quic-max-datagram-size	Maximum transmit datagram size (1200 - 1500, default = 1500).	integer	Minimum value: 1200 Maximum value: 1500	1500										
quic-udp-payload-size-shaping-per-cid	Enable/disable UDP payload size shaping per connection ID (default = enable).	option	-	enable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable UDP payload size shaping per connection ID.</td></tr><tr><td><i>disable</i></td><td>Disable UDP payload size shaping per connection ID.</td></tr></table>	Option	Description	<i>enable</i>	Enable UDP payload size shaping per connection ID.	<i>disable</i>	Disable UDP payload size shaping per connection ID.							
	Option	Description												
	<i>enable</i>	Enable UDP payload size shaping per connection ID.												
<i>disable</i>	Disable UDP payload size shaping per connection ID.													
quic-ack-thresold	Maximum number of unacknowledged packets before sending ACK (2 - 5, default = 3).	integer	Minimum value: 2 Maximum value: 5	3										
quic-pmtud	Enable/disable path MTU discovery (default = enable).	option	-	enable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable path MTU discovery.</td></tr><tr><td><i>disable</i></td><td>Disable path MTU discovery.</td></tr></table>	Option	Description	<i>enable</i>	Enable path MTU discovery.	<i>disable</i>	Disable path MTU discovery.							
	Option	Description												
	<i>enable</i>	Enable path MTU discovery.												
<i>disable</i>	Disable path MTU discovery.													
quic-tls-handshake-timeout	Time-to-live (TTL) for TLS handshake in seconds (1 - 60, default = 5).	integer	Minimum value: 1 Maximum value: 60	5										

Parameter	Description	Type	Size	Default								
anti-replay	Level of checking for packet replay and TCP sequence checking.	option	-	strict								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable anti-replay check.</td></tr><tr><td><i>loose</i></td><td>Loose anti-replay check.</td></tr><tr><td><i>strict</i></td><td>Strict anti-replay check.</td></tr></table>	Option	Description	<i>disable</i>	Disable anti-replay check.	<i>loose</i>	Loose anti-replay check.	<i>strict</i>	Strict anti-replay check.			
Option	Description											
<i>disable</i>	Disable anti-replay check.											
<i>loose</i>	Loose anti-replay check.											
<i>strict</i>	Strict anti-replay check.											
pmtu-discovery	Enable/disable path MTU discovery.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable path MTU discovery.</td></tr><tr><td><i>disable</i></td><td>Disable path MTU discovery.</td></tr></table>	Option	Description	<i>enable</i>	Enable path MTU discovery.	<i>disable</i>	Disable path MTU discovery.					
Option	Description											
<i>enable</i>	Enable path MTU discovery.											
<i>disable</i>	Disable path MTU discovery.											
revision-image-auto-backup	Enable/disable back-up of the latest image revision after the firmware is upgraded.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable revision image backup automatically when upgrading image.</td></tr><tr><td><i>disable</i></td><td>Disable revision image backup automatically when upgrading image.</td></tr></table>	Option	Description	<i>enable</i>	Enable revision image backup automatically when upgrading image.	<i>disable</i>	Disable revision image backup automatically when upgrading image.					
Option	Description											
<i>enable</i>	Enable revision image backup automatically when upgrading image.											
<i>disable</i>	Disable revision image backup automatically when upgrading image.											
revision-backup-on-logout	Enable/disable back-up of the latest configuration revision when an administrator logs out of the CLI or GUI.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable revision config backup automatically when logout.</td></tr><tr><td><i>disable</i></td><td>Disable revision config backup automatically when logout.</td></tr></table>	Option	Description	<i>enable</i>	Enable revision config backup automatically when logout.	<i>disable</i>	Disable revision config backup automatically when logout.					
Option	Description											
<i>enable</i>	Enable revision config backup automatically when logout.											
<i>disable</i>	Disable revision config backup automatically when logout.											
hostname	FortiProxy unit's hostname. Most models will truncate names longer than 24 characters. Some models support hostnames up to 35 characters.	string	Maximum length: 35									
alias	Alias for your FortiProxy unit.	string	Maximum length: 35									
strong-crypto	Enable to use strong encryption and only allow strong ciphers and digest for HTTPS/SSH/TLS/SSL functions.	option	-	enable								

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable strong crypto for HTTPS/SSH/TLS/SSL.		
	<i>disable</i>	Disable strong crypto for HTTPS/SSH/TLS/SSL.		
ssl-static-key-ciphers	Enable/disable static key ciphers in SSL/TLS connections (e.g. AES128-SHA, AES256-SHA, AES128-SHA256, AES256-SHA256).	option	-	enable
	Option	Description		
	<i>enable</i>	Enable static key ciphers in SSL/TLS connections.		
	<i>disable</i>	Disable static key ciphers in SSL/TLS connections.		
snat-route-change	Enable/disable the ability to change the source NAT route.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable SNAT route change.		
	<i>disable</i>	Disable SNAT route change.		
speedtest-server	Enable/disable speed test server.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable speed test server service.		
	<i>disable</i>	Disable speed test server service.		
cli-audit-log	Enable/disable CLI audit log.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable CLI audit log.		
	<i>disable</i>	Disable CLI audit log.		
dh-params	Number of bits to use in the Diffie-Hellman exchange for HTTPS/SSH protocols.	option	-	2048
	Option	Description		
	<i>1024</i>	1024 bits.		
	<i>1536</i>	1536 bits.		
	<i>2048</i>	2048 bits.		

Parameter	Description	Type	Size	Default										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>3072</td><td>3072 bits.</td></tr><tr><td>4096</td><td>4096 bits.</td></tr><tr><td>6144</td><td>6144 bits.</td></tr><tr><td>8192</td><td>8192 bits.</td></tr></table>	Option	Description	3072	3072 bits.	4096	4096 bits.	6144	6144 bits.	8192	8192 bits.			
	Option	Description												
	3072	3072 bits.												
	4096	4096 bits.												
	6144	6144 bits.												
8192	8192 bits.													
fds-statistics	Enable/disable sending IPS, Application Control, and AntiVirus data to FortiGuard. This data is used to improve FortiGuard services and is not shared with external parties and is protected by Fortinet's privacy policy.	option	-	enable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable FortiGuard statistics.</td></tr><tr><td>disable</td><td>Disable FortiGuard statistics.</td></tr></table>	Option	Description	enable	Enable FortiGuard statistics.	disable	Disable FortiGuard statistics.							
	Option	Description												
	enable	Enable FortiGuard statistics.												
disable	Disable FortiGuard statistics.													
fds-statistics-period	FortiGuard statistics collection period in minutes. (1 - 1440 min (1 min to 24 hours), default = 60).	integer	Minimum value: 1 Maximum value: 1440	60										
tcp-option	Enable SACK, timestamp and MSS TCP options.	option	-	enable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable TCP option.</td></tr><tr><td>disable</td><td>Disable TCP option.</td></tr></table>	Option	Description	enable	Enable TCP option.	disable	Disable TCP option.							
	Option	Description												
	enable	Enable TCP option.												
disable	Disable TCP option.													
lldp-transmission	Enable/disable Link Layer Discovery Protocol (LLDP) transmission.	option	-	disable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable transmission of Link Layer Discovery Protocol (LLDP).</td></tr><tr><td>disable</td><td>Disable transmission of Link Layer Discovery Protocol (LLDP).</td></tr></table>	Option	Description	enable	Enable transmission of Link Layer Discovery Protocol (LLDP).	disable	Disable transmission of Link Layer Discovery Protocol (LLDP).							
	Option	Description												
	enable	Enable transmission of Link Layer Discovery Protocol (LLDP).												
disable	Disable transmission of Link Layer Discovery Protocol (LLDP).													
lldp-reception	Enable/disable Link Layer Discovery Protocol (LLDP) reception.	option	-	disable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable reception of Link Layer Discovery Protocol (LLDP).</td></tr></table>	Option	Description	enable	Enable reception of Link Layer Discovery Protocol (LLDP).									
	Option	Description												
enable	Enable reception of Link Layer Discovery Protocol (LLDP).													

Parameter	Description	Type	Size	Default								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable reception of Link Layer Discovery Protocol (LLDP).</td></tr></table>	Option	Description	<i>disable</i>	Disable reception of Link Layer Discovery Protocol (LLDP).							
	Option	Description										
<i>disable</i>	Disable reception of Link Layer Discovery Protocol (LLDP).											
proxy-auth-timeout	Authentication timeout in minutes for authenticated users (1 - 10000 min, default = 10).	integer	Minimum value: 1 Maximum value: 10000	10								
proxy-keep-alive-mode	Control if users must re-authenticate after a session is closed, traffic has been idle, or from the point at which the user was authenticated.	option	-	session								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>session</i></td><td>Proxy keep-alive timeout begins at the closure of the session.</td></tr><tr><td><i>traffic</i></td><td>Proxy keep-alive timeout begins after traffic has not been received.</td></tr><tr><td><i>re-authentication</i></td><td>Proxy keep-alive timeout begins when the user was authenticated.</td></tr></table>	Option	Description	<i>session</i>	Proxy keep-alive timeout begins at the closure of the session.	<i>traffic</i>	Proxy keep-alive timeout begins after traffic has not been received.	<i>re-authentication</i>	Proxy keep-alive timeout begins when the user was authenticated.			
	Option	Description										
	<i>session</i>	Proxy keep-alive timeout begins at the closure of the session.										
	<i>traffic</i>	Proxy keep-alive timeout begins after traffic has not been received.										
<i>re-authentication</i>	Proxy keep-alive timeout begins when the user was authenticated.											
proxy-re-authentication-time	The time limit that users must re-authenticate if proxy-keep-alive-mode is set to re-authenticate (1 - 86400 sec, default=30s.	integer	Minimum value: 1 Maximum value: 86400	30								
proxy-auth-lifetime	Enable/disable authenticated users lifetime control. This is a cap on the total time a proxy user can be authenticated for after which re-authentication will take place.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable authenticated users lifetime control.</td></tr><tr><td><i>disable</i></td><td>Disable authenticated users lifetime control.</td></tr></table>	Option	Description	<i>enable</i>	Enable authenticated users lifetime control.	<i>disable</i>	Disable authenticated users lifetime control.					
	Option	Description										
	<i>enable</i>	Enable authenticated users lifetime control.										
<i>disable</i>	Disable authenticated users lifetime control.											
proxy-auth-lifetime-timeout	Lifetime timeout in minutes for authenticated users (5 - 65535 min, default=480 (8 hours)).	integer	Minimum value: 5 Maximum value: 65535	480								
proxy-auth-machine-timeout	Machine account timeout in seconds for authenticated machines (5 - 30 seconds, default=15s).	integer	Minimum value: 5 Maximum value: 30	15								

Parameter	Description	Type	Size	Default						
proxy-resource-mode	Enable/disable use of the maximum memory usage on the FortiProxy unit's proxy processing of resources, such as block lists, allow lists, and external resources.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable use of the maximum memory usage.</td></tr><tr><td><i>disable</i></td><td>Disable use of the maximum memory usage.</td></tr></table>	Option	Description	<i>enable</i>	Enable use of the maximum memory usage.	<i>disable</i>	Disable use of the maximum memory usage.			
Option	Description									
<i>enable</i>	Enable use of the maximum memory usage.									
<i>disable</i>	Disable use of the maximum memory usage.									
proxy-cert-use-mgmt-vdom	Enable/disable using management VDOM to send requests.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									
update-tls-finger-print	Enable/disable update TLS fingerprint when deep-inspection is enabled.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									
sys-perf-log-interval	Time in minutes between updates of performance statistics logging. (1 - 15 min, default = 5, 0 = disabled).	integer	Minimum value: 0 Maximum value: 15	5						
check-protocol-header	Level of checking performed on protocol headers. Strict checking is more thorough but may affect performance. Loose checking is OK in most cases.	option	-	loose						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>loose</i></td><td>Check protocol header loosely.</td></tr><tr><td><i>strict</i></td><td>Check protocol header strictly.</td></tr></table>	Option	Description	<i>loose</i>	Check protocol header loosely.	<i>strict</i>	Check protocol header strictly.			
Option	Description									
<i>loose</i>	Check protocol header loosely.									
<i>strict</i>	Check protocol header strictly.									
vip-arp-range	Controls the number of ARPs that the FortiProxy sends for a Virtual IP (VIP) address range.	option	-	restricted						

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>unlimited</i>	Send ARPs for all addresses in VIP range.		
	<i>restricted</i>	Send ARPs for the first 8192 addresses in VIP range.		
tcp-halfclose-timer	Number of seconds the FortiProxy unit should wait to close a session after one peer has sent a FIN packet but the other has not responded (1 - 86400 sec (1 day), default = 120).	integer	Minimum value: 1 Maximum value: 86400	120
tcp-halfopen-timer	Number of seconds the FortiProxy unit should wait to close a session after one peer has sent an open session packet but the other has not responded (1 - 86400 sec (1 day), default = 10).	integer	Minimum value: 1 Maximum value: 86400	10
tcp-timewait-timer	Length of the TCP TIME-WAIT state in seconds (1 - 300 sec, default = 1).	integer	Minimum value: 0 Maximum value: 300	1
tcp-rst-timer	Length of the TCP CLOSE state in seconds (5 - 300 sec, default = 5).	integer	Minimum value: 5 Maximum value: 300	5
udp-idle-timer	UDP connection session timeout. This command can be useful in managing CPU and memory resources (1 - 86400 seconds (1 day), default = 60).	integer	Minimum value: 1 Maximum value: 86400	180
block-session-timer	Duration in seconds for blocked sessions (1 - 300 sec (5 minutes), default = 30).	integer	Minimum value: 1 Maximum value: 300	30
ip-src-port-range	IP source port range used for traffic originating from the FortiProxy unit.	user	Not Specified	1024-65001
pre-login-banner	Enable/disable displaying the administrator access disclaimer message on the login page before an administrator logs in.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable pre-login banner.		
	<i>disable</i>	Disable pre-login banner.		

Parameter	Description	Type	Size	Default								
post-login-banner	Enable/disable displaying the administrator access disclaimer message after an administrator successfully logs in.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable post-login banner.</td></tr><tr><td><i>enable</i></td><td>Enable post-login banner.</td></tr></table>	Option	Description	<i>disable</i>	Disable post-login banner.	<i>enable</i>	Enable post-login banner.					
Option	Description											
<i>disable</i>	Disable post-login banner.											
<i>enable</i>	Enable post-login banner.											
tftp	Enable/disable TFTP.	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable TFTP.</td></tr><tr><td><i>disable</i></td><td>Disable TFTP.</td></tr></table>	Option	Description	<i>enable</i>	Enable TFTP.	<i>disable</i>	Disable TFTP.					
Option	Description											
<i>enable</i>	Enable TFTP.											
<i>disable</i>	Disable TFTP.											
av-failopen	Set the action to take if the FortiProxy is running low on memory or the proxy connection limit has been reached.	option	-	pass								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>pass</i></td><td>Bypass the antivirus system when memory is low. Antivirus scanning resumes when the low memory condition is resolved.</td></tr><tr><td><i>off</i></td><td>Stop accepting new AV sessions when entering conserve mode, but continue to process current active sessions.</td></tr><tr><td><i>one-shot</i></td><td>Bypass the antivirus system when memory is low.</td></tr></table>	Option	Description	<i>pass</i>	Bypass the antivirus system when memory is low. Antivirus scanning resumes when the low memory condition is resolved.	<i>off</i>	Stop accepting new AV sessions when entering conserve mode, but continue to process current active sessions.	<i>one-shot</i>	Bypass the antivirus system when memory is low.			
Option	Description											
<i>pass</i>	Bypass the antivirus system when memory is low. Antivirus scanning resumes when the low memory condition is resolved.											
<i>off</i>	Stop accepting new AV sessions when entering conserve mode, but continue to process current active sessions.											
<i>one-shot</i>	Bypass the antivirus system when memory is low.											
av-failopen-session	When enabled and a proxy for a protocol runs out of room in its session table, that protocol goes into failopen mode and enacts the action specified by av-failopen.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable AV fail open session option.</td></tr><tr><td><i>disable</i></td><td>Disable AV fail open session option.</td></tr></table>	Option	Description	<i>enable</i>	Enable AV fail open session option.	<i>disable</i>	Disable AV fail open session option.					
Option	Description											
<i>enable</i>	Enable AV fail open session option.											
<i>disable</i>	Disable AV fail open session option.											
kernel-panic-timeout	Reboot timeout after kernel panic in seconds. Value of 0 means do not reboot.	integer	Minimum value: 0 Maximum value: 3600	5								
kernel-panic-debug	Enable/disable kernel panic debug messages.	option	-	enable								

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable kernel panic debug messages.		
	<i>disable</i>	Disable kernel panic debug messages.		
memory-use-threshold-extreme	Threshold at which memory usage is considered extreme (new sessions are dropped) (% of total RAM, default = 95).	integer	Minimum value: 70 Maximum value: 97	95
memory-use-threshold-red	Threshold at which memory usage forces the FortiProxy to enter conserve mode (% of total RAM, default = 88).	integer	Minimum value: 70 Maximum value: 97	88
memory-use-threshold-green	Threshold at which memory usage forces the FortiProxy to exit conserve mode (% of total RAM, default = 82).	integer	Minimum value: 70 Maximum value: 97	82
ip-fragment-mem-thresholds	Maximum memory (MB) used to reassemble IPv4/IPv6 fragments.	integer	Minimum value: 32 Maximum value: 2047	32
cpu-use-threshold	Threshold at which CPU usage is reported (% of total CPU, default = 90).	integer	Minimum value: 50 Maximum value: 99	90
log-single-cpu-high	Enable/disable logging the event of a single CPU core reaching CPU usage threshold.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable logging the event of a single CPU core reaching CPU usage threshold.		
	<i>disable</i>	Disable logging the event of a single CPU core reaching CPU usage threshold.		
check-reset-range	Configure ICMP error message verification. You can either apply strict RST range checking or disable it.	option	-	disable
	Option	Description		
	<i>strict</i>	Check RST range strictly.		
	<i>disable</i>	Disable RST range check.		

Parameter	Description	Type	Size	Default						
admin-port	Administrative access port for HTTP. (1 - 65535, default = 80).	integer	Minimum value: 1 Maximum value: 65535	80						
admin-sport	Administrative access port for HTTPS. (1 - 65535, default = 443).	integer	Minimum value: 1 Maximum value: 65535	443						
admin-host	Administrative host for HTTP and HTTPS. When set, will be used in lieu of the client's Host header for any redirection.	string	Maximum length: 255							
admin-https-redirect	Enable/disable redirection of HTTP administration access to HTTPS.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable redirecting HTTP administration access to HTTPS.</td></tr><tr><td><i>disable</i></td><td>Disable redirecting HTTP administration access to HTTPS.</td></tr></table>				Option	Description	<i>enable</i>	Enable redirecting HTTP administration access to HTTPS.	<i>disable</i>	Disable redirecting HTTP administration access to HTTPS.
Option	Description									
<i>enable</i>	Enable redirecting HTTP administration access to HTTPS.									
<i>disable</i>	Disable redirecting HTTP administration access to HTTPS.									
admin-hsts-max-age	HTTPS Strict-Transport-Security header max-age in seconds. A value of 0 will reset any HSTS records in the browser. When admin-https-redirect is disabled the header max-age will be 0.	integer	Minimum value: 0 Maximum value: 2147483647	63072000						
admin-ssh-password	Enable/disable password authentication for SSH admin access.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable password authentication for SSH admin access.</td></tr><tr><td><i>disable</i></td><td>Disable password authentication for SSH admin access.</td></tr></table>				Option	Description	<i>enable</i>	Enable password authentication for SSH admin access.	<i>disable</i>	Disable password authentication for SSH admin access.
Option	Description									
<i>enable</i>	Enable password authentication for SSH admin access.									
<i>disable</i>	Disable password authentication for SSH admin access.									
admin-restrict-local	Enable/disable local admin authentication restriction when remote authenticator is up and running (default = disable).	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable local admin authentication restriction.</td></tr><tr><td><i>disable</i></td><td>Disable local admin authentication restriction.</td></tr></table>				Option	Description	<i>enable</i>	Enable local admin authentication restriction.	<i>disable</i>	Disable local admin authentication restriction.
Option	Description									
<i>enable</i>	Enable local admin authentication restriction.									
<i>disable</i>	Disable local admin authentication restriction.									
admin-ssh-port	Administrative access port for SSH. (1 - 65535, default = 22).	integer	Minimum value: 1 Maximum value: 65535	22						

Parameter	Description	Type	Size	Default						
admin-ssh-grace-time	Maximum time in seconds permitted between making an SSH connection to the FortiProxy unit and authenticating (10 - 3600 sec (1 hour), default 120).	integer	Minimum value: 10 Maximum value: 3600	120						
admin-ssh-v1	Enable/disable SSH v1 compatibility.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable SSH v1 compatibility.</td></tr><tr><td><i>disable</i></td><td>Disable SSH v1 compatibility.</td></tr></table>	Option	Description	<i>enable</i>	Enable SSH v1 compatibility.	<i>disable</i>	Disable SSH v1 compatibility.			
Option	Description									
<i>enable</i>	Enable SSH v1 compatibility.									
<i>disable</i>	Disable SSH v1 compatibility.									
admin-telnet	Enable/disable TELNET service.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable TELNET service.</td></tr><tr><td><i>disable</i></td><td>Disable TELNET service.</td></tr></table>	Option	Description	<i>enable</i>	Enable TELNET service.	<i>disable</i>	Disable TELNET service.			
Option	Description									
<i>enable</i>	Enable TELNET service.									
<i>disable</i>	Disable TELNET service.									
admin-telnet-port	Administrative access port for TELNET . (1 - 65535, default = 23).	integer	Minimum value: 1 Maximum value: 65535	23						
admin-forticloud-sso-login	Enable/disable FortiCloud admin login via SSO.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable FortiCloud admin login via SSO.</td></tr><tr><td><i>disable</i></td><td>Disable FortiCloud admin login via SSO.</td></tr></table>	Option	Description	<i>enable</i>	Enable FortiCloud admin login via SSO.	<i>disable</i>	Disable FortiCloud admin login via SSO.			
Option	Description									
<i>enable</i>	Enable FortiCloud admin login via SSO.									
<i>disable</i>	Disable FortiCloud admin login via SSO.									
admin-forticloud-sso-default-profile	Override access profile.	string	Maximum length: 35							
default-service-source-port	Default service source port range (default = 1 - 65535).	user	Not Specified							
admin-server-cert	Server certificate that the FortiProxy uses for HTTPS administrative connections.	string	Maximum length: 35	Fortinet_GUI_Server						
admin-https-pki-required	Enable/disable admin login method. Enable to force administrators to provide a valid certificate to log in if PKI is enabled. Disable to allow administrators to log in with a certificate or password.	option	-	disable						

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Admin users must provide a valid certificate when PKI is enabled for HTTPS admin access.		
	<i>disable</i>	Admin users can login by providing a valid certificate or password.		
auth-http-port	User authentication HTTP port. (1 - 65535, default = 1000).	integer	Minimum value: 1 Maximum value: 65535	1000
auth-https-port	User authentication HTTPS port. (1 - 65535, default = 1003).	integer	Minimum value: 1 Maximum value: 65535	1003
auth-ike-saml-port	User IKE SAML authentication port (0 - 65535, default = 1001).	integer	Minimum value: 0 Maximum value: 65535	1001
auth-keepalive	Enable to prevent user authentication sessions from timing out when idle.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable use of keep alive to extend authentication.		
	<i>disable</i>	Disable use of keep alive to extend authentication.		
policy-auth-concurrent	Number of concurrent firewall use logins from the same user (1 - 100, default = 0 means no limit).	integer	Minimum value: 0 Maximum value: 100	0
auth-session-limit	Action to take when the number of allowed user authenticated sessions is reached.	option	-	block-new
	Option	Description		
	<i>block-new</i>	Block new user authentication attempts.		
	<i>logout-inactive</i>	Logout the most inactive user authenticated sessions.		
auth-cert	Server certificate that the FortiProxy uses for HTTPS firewall authentication connections.	string	Maximum length: 35	Fortinet_Factory
clt-cert-req	Enable/disable requiring administrators to have a client certificate to log into the GUI using HTTPS.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable require client certificate for GUI login.		
	<i>disable</i>	Disable require client certificate for GUI login.		
fortiservice-port	FortiService port (1 - 65535, default = 8013). Used by FortiClient endpoint compliance. Older versions of FortiClient used a different port.	integer	Minimum value: 1 Maximum value: 65535	8013
cfg-save	Configuration file save mode for CLI changes.	option	-	automatic
	Option	Description		
	<i>automatic</i>	Automatically save config.		
	<i>manual</i>	Manually save config.		
	<i>revert</i>	Manually save config and revert the config when timeout.		
cfg-revert-timeout	Time-out for reverting to the last saved configuration. (10 - 4294967295 seconds, default = 600).	integer	Minimum value: 10 Maximum value: 4294967295	600
reboot-upon-config-restore	Enable/disable reboot of system upon restoring configuration.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable reboot of system upon restoring configuration.		
	<i>disable</i>	Disable reboot of system upon restoring configuration.		
admin-scp	Enable/disable SCP support for system configuration backup, restore, and firmware file upload.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable SCP support for system configuration backup, restore, and firmware file upload.		
	<i>disable</i>	Disable SCP support for system configuration backup, restore, and firmware file upload.		
security-rating-run-on-schedule	Enable/disable scheduled runs of Security Rating.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable scheduled runs of Security Rating.		
	<i>disable</i>	Disable scheduled runs of Security Rating.		
fortiextender-data-port	FortiExtender data port (1024 - 49150, default = 25246).	integer	Minimum value: 1024 Maximum value: 49150	25246
fortiextender	Enable/disable FortiExtender.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable FortiExtender controller.		
	<i>enable</i>	Enable FortiExtender controller.		
extender-controller-reserved-network	Configure reserved network subnet for managed LAN extension FortiExtender units. This is available when the FortiExtender daemon is running.	ipv4-classnet-host	Not Specified	10.252.0.1 255.255.0.0
fortiextender-discovery-lockdown	Enable/disable FortiExtender CAPWAP lockdown.	option	-	disable
	Option	Description		
	<i>disable</i>	Unlock down new FortiExtender device discovery.		
	<i>enable</i>	Lock down new FortiExtender device discovery.		
fortiextender-provision-on-authorization	Enable/disable automatic provisioning of latest FortiExtender firmware on authorization.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable FortiExtender firmware provision on authorization.		
	<i>disable</i>	Disable FortiExtender firmware provision on authorization.		
dnsproxy-worker-count	DNS proxy worker count. For a FortiGate with multiple logical CPUs, you can set the DNS process number from 1 to the number of logical CPUs.	integer	Minimum value: 1 Maximum value: 255	1
url-filter-count	URL filter daemon count.	integer	Minimum value: 1 Maximum value: 10	1

Parameter	Description	Type	Size	Default														
proxy-worker-count	Proxy worker count.	integer	Minimum value: 1 Maximum value: 255	0														
scanunit-count	Number of scanunits. The range and the default depend on the number of CPUs. Only available on FortiProxy units with multiple CPUs.	integer	Minimum value: 1 Maximum value: 255	0														
fgd-alert-subscription	Type of alert to retrieve from FortiGuard.	option	-															
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>advisory</i></td><td>Retrieve FortiGuard advisories, report and news alerts.</td></tr><tr><td><i>latest-threat</i></td><td>Retrieve latest FortiGuard threats alerts.</td></tr><tr><td><i>latest-virus</i></td><td>Retrieve latest FortiGuard virus alerts.</td></tr><tr><td><i>latest-attack</i></td><td>Retrieve latest FortiGuard attack alerts.</td></tr><tr><td><i>new-antivirus-db</i></td><td>Retrieve FortiGuard AV database release alerts.</td></tr><tr><td><i>new-attack-db</i></td><td>Retrieve FortiGuard IPS database release alerts.</td></tr></table>				Option	Description	<i>advisory</i>	Retrieve FortiGuard advisories, report and news alerts.	<i>latest-threat</i>	Retrieve latest FortiGuard threats alerts.	<i>latest-virus</i>	Retrieve latest FortiGuard virus alerts.	<i>latest-attack</i>	Retrieve latest FortiGuard attack alerts.	<i>new-antivirus-db</i>	Retrieve FortiGuard AV database release alerts.	<i>new-attack-db</i>	Retrieve FortiGuard IPS database release alerts.
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<i>new-antivirus-db</i>	Retrieve FortiGuard AV database release alerts.																	
<i>new-attack-db</i>	Retrieve FortiGuard IPS database release alerts.																	
ipv6-accept-dad	Enable/disable acceptance of IPv6 Duplicate Address Detection (DAD).	integer	Minimum value: 0 Maximum value: 2	1														
ipv6-allow-multicast-probe	Enable/disable IPv6 address probe through Multicast.	option	-	disable														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable probing of IPv6 address space through Multicast.</td></tr><tr><td><i>disable</i></td><td>Disable probing of IPv6 address space through Multicast.</td></tr></table>				Option	Description	<i>enable</i>	Enable probing of IPv6 address space through Multicast.	<i>disable</i>	Disable probing of IPv6 address space through Multicast.								
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<i>enable</i>	Enable probing of IPv6 address space through Multicast.																	
<i>disable</i>	Disable probing of IPv6 address space through Multicast.																	
ipv6-allow-local-in-silent-drop	Enable/disable silent drop of IPv6 local-in traffic.	option	-	enable														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable silent drop of IPv6 local-in traffic.</td></tr><tr><td><i>disable</i></td><td>Disable silent drop of IPv6 local-in traffic.</td></tr></table>				Option	Description	<i>enable</i>	Enable silent drop of IPv6 local-in traffic.	<i>disable</i>	Disable silent drop of IPv6 local-in traffic.								
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<i>enable</i>	Enable silent drop of IPv6 local-in traffic.																	
<i>disable</i>	Disable silent drop of IPv6 local-in traffic.																	
csr-ca-attribute	Enable/disable the CA attribute in certificates. Some CA servers reject CSRs that have the CA attribute.	option	-	enable														

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable CA attribute in CSR.		
	<i>disable</i>	Disable CA attribute in CSR.		
wimax-4g-usb	Enable/disable comparability with WiMAX 4G USB devices.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable WiMax 4G.		
	<i>disable</i>	Disable WiMax 4G.		
cert-chain-max	Maximum number of certificates that can be traversed in a certificate chain.	integer	Minimum value: 1 Maximum value: 2147483647	8
two-factor-ftk-expiry	FortiToken authentication session timeout (60 - 600 sec (10 minutes), default = 60).	integer	Minimum value: 60 Maximum value: 600	60
two-factor-email-expiry	Email-based two-factor authentication session timeout (30 - 300 seconds (5 minutes), default = 60).	integer	Minimum value: 30 Maximum value: 300	60
two-factor-sms-expiry	SMS-based two-factor authentication session timeout (30 - 300 sec, default = 60).	integer	Minimum value: 30 Maximum value: 300	60
two-factor-fac-expiry	FortiAuthenticator token authentication session timeout (10 - 3600 seconds (1 hour), default = 60).	integer	Minimum value: 10 Maximum value: 3600	60
two-factor-ftm-expiry	FortiToken Mobile session timeout (1 - 168 hours (7 days), default = 72).	integer	Minimum value: 1 Maximum value: 168	72
max-img-cache-size	Maximum space (MB) can be used by image-analyzer to store blocked images into ram disk.	integer	Minimum value: 30 Maximum value: 300	60

Parameter	Description	Type	Size	Default
img-cache-mode	Select image cache mode for image-analyzer (default = rolling)	option	-	rolling
	Option	Description		
	stop	Stop caching blocked images into ram disk when limit reaches.		
	rolling	Evict old cached images when limit reaches.		
per-user-bal	Enable/disable per-user block/allow list filter.	option	-	disable
	Option	Description		
	enable	Enable per-user block/allow list filter.		
	disable	Disable per-user block/allow list filter.		
wad-worker-count	Number of explicit proxy WAN optimization daemon (WAD) processes. By default WAN optimization, explicit proxy, and web caching is handled by all of the CPU cores in a FortiGate unit.	integer	Minimum value: 0 Maximum value: 255	0
wad-csvc-cs-count	Number of concurrent WAD-cache-service object-cache processes.	integer	Minimum value: 1 Maximum value: 1	1
wad-csvc-db-count	Number of concurrent WAD-cache-service byte-cache processes.	integer	Minimum value: 0 Maximum value: 255	0
http-view	Enable/disable logging and viewing of HTTP/S cache traffic.	option	-	disable
	Option	Description		
	enable	Enable logging and viewing of HTTP/S cache traffic.		
	disable	Disable logging and viewing of HTTP/S cache traffic.		
wad-source-affinity	Enable/disable dispatching traffic to WAD workers based on source affinity.	option	-	enable
	Option	Description		
	disable	Disable dispatching traffic to WAD workers based on source affinity.		
	enable	Enable dispatching traffic to WAD workers based on source affinity.		

Parameter	Description	Type	Size	Default
wad-memory-change-granularity	Minimum percentage change in system memory usage detected by the wad daemon prior to adjusting TCP window size for any active connection.	integer	Minimum value: 5 Maximum value: 25	10
login-timestamp	Enable/disable login time recording.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable login time recording.		
	<i>disable</i>	Disable login time recording.		
miglogd-children	Number of logging (miglogd) processes to be allowed to run. Higher number can reduce performance; lower number can slow log processing time.	integer	Minimum value: 0 Maximum value: 15	0
special-file-23-support	Enable/disable detection of those special format files when using Data Loss Prevention.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable detection of those special format files when using Data Loss Prevention.		
	<i>enable</i>	Enable detection of those special format files when using Data Loss Prevention.		
log-uuid-address	Enable/disable insertion of address UUIDs to traffic logs.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable insertion of address UUID to traffic logs.		
	<i>disable</i>	Disable insertion of address UUID to traffic logs.		
log-ssl-connection	Enable/disable logging of SSL connection events.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable logging of SSL connection events.		
	<i>disable</i>	Disable logging of SSL connection events.		
gui-rest-api-cache	Enable/disable REST API result caching on FortiProxy.	option	-	enable

Parameter	Description	Type	Size	Default						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable REST API result caching on FortiProxy.</td></tr><tr><td><i>disable</i></td><td>Disable REST API result caching on FortiProxy.</td></tr></table>	Option	Description	<i>enable</i>	Enable REST API result caching on FortiProxy.	<i>disable</i>	Disable REST API result caching on FortiProxy.			
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	<i>enable</i>	Enable REST API result caching on FortiProxy.								
<i>disable</i>	Disable REST API result caching on FortiProxy.									
rest-api-key-url-query	Enable/disable support for passing REST API keys through URL query parameters.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable support for passing REST API keys through URL query parameters.</td></tr><tr><td><i>disable</i></td><td>Disable support for passing REST API keys through URL query parameters.</td></tr></table>	Option	Description	<i>enable</i>	Enable support for passing REST API keys through URL query parameters.	<i>disable</i>	Disable support for passing REST API keys through URL query parameters.			
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	<i>enable</i>	Enable support for passing REST API keys through URL query parameters.								
<i>disable</i>	Disable support for passing REST API keys through URL query parameters.									
gui-cdn-domain-override	Domain of CDN server.	string	Maximum length: 255							
arp-max-entry	Maximum number of dynamically learned MAC addresses that can be added to the ARP table (131072 - 2147483647, default = 131072).	integer	Minimum value: 131072 Maximum value: 2147483647	131072						
ha-affinity	Affinity setting for HA daemons (hexadecimal value up to 256 bits in the format of xxxxxxxxxxxxxxxxx).	string	Maximum length: 79	1						
bfd-affinity	Affinity setting for BFD daemon (hexadecimal value up to 256 bits in the format of xxxxxxxxxxxxxxxxx).	string	Maximum length: 79	1						
cmdbsvr-affinity	Affinity setting for cmdbsvr (hexadecimal value up to 256 bits in the format of xxxxxxxxxxxxxxxxx).	string	Maximum length: 79	1						
av-affinity	Affinity setting for AV scanning (hexadecimal value up to 256 bits in the format of xxxxxxxxxxxxxxxxx).	string	Maximum length: 79	0						
wad-affinity	Affinity setting for wad (hexadecimal value up to 256 bits in the format of xxxxxxxxxxxxxxxxx).	string	Maximum length: 79	0						
ips-affinity	Affinity setting for IPS (hexadecimal value up to 256 bits in the format of xxxxxxxxxxxxxxxxx; allowed CPUs must be less than total number of IPS engine daemons).	string	Maximum length: 79	0						

Parameter	Description	Type	Size	Default						
miglog-affinity	Affinity setting for logging (hexadecimal value up to 256 bits in the format of xxxxxxxxxxxxxxxxx).	string	Maximum length: 79	0						
syslog-affinity	Affinity setting for syslog (hexadecimal value up to 256 bits in the format of xxxxxxxxxxxxxxxxx).	string	Maximum length: 79	0						
url-filter-affinity	URL filter CPU affinity.	string	Maximum length: 79	0						
ndp-max-entry	Maximum number of NDP table entries (set to 65,536 or higher; if set to 0, kernel holds 65,536 entries).	integer	Minimum value: 65536 Maximum value: 2147483647	0						
br-fdb-max-entry	Maximum number of bridge forwarding database (FDB) entries.	integer	Minimum value: 8192 Maximum value: 2147483647	8192						
max-route-cache-size	Maximum number of IP route cache entries (0 - 2147483647).	integer	Minimum value: 0 Maximum value: 2147483647	0						
ipsec-round-robin	Enable/disable round-robin redistribution to multiple CPUs for IPsec VPN traffic.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable round-robin redistribution for IPsec VPN.</td></tr><tr><td><i>disable</i></td><td>Disable round-robin redistribution for IPsec VPN.</td></tr></table>				Option	Description	<i>enable</i>	Enable round-robin redistribution for IPsec VPN.	<i>disable</i>	Disable round-robin redistribution for IPsec VPN.
Option	Description									
<i>enable</i>	Enable round-robin redistribution for IPsec VPN.									
<i>disable</i>	Disable round-robin redistribution for IPsec VPN.									
device-idle-timeout	Time in seconds that a device must be idle to automatically log the device user out. (30 - 31536000 sec (30 sec to 1 year), default = 300).	integer	Minimum value: 30 Maximum value: 31536000	300						
user-device-store-max-devices	Maximum number of devices allowed in user device store.	integer	Minimum value: 20649 Maximum value: 58999	41299						

Parameter	Description	Type	Size	Default
user-device-store-max-users	Maximum number of users allowed in user device store.	integer	Minimum value: 20649 Maximum value: 58999	41299
user-device-store-max-unified-mem	Maximum unified memory allowed in user device store.	integer	Minimum value: 41299517 Maximum value: 412995174	206497587
gui-device-latitude	Add the latitude of the location of this FortiProxy to position it on the Threat Map.	string	Maximum length: 19	
gui-device-longitude	Add the longitude of the location of this FortiProxy to position it on the Threat Map.	string	Maximum length: 19	
v-tpm	Enable/disable vTPM on VM.	option	-	disable
	Option Description			
	<i>disable</i>	Disable vTPM.		
	<i>enable</i>	Enable vTPM		
private-data-encryption	Enable/disable private data encryption using an AES 128-bit key or passphrase.	option	-	disable
	Option Description			
	<i>disable</i>	Disable private data encryption using an AES 128-bit key.		
	<i>enable</i>	Enable private data encryption using an AES 128-bit key.		
auto-auth-extension-device	Enable/disable automatic authorization of dedicated Fortinet extension devices.	option	-	enable
	Option Description			
	<i>enable</i>	Enable automatic authorization of dedicated Fortinet extension device globally.		
	<i>disable</i>	Disable automatic authorization of dedicated Fortinet extension device globally.		
gui-theme	Color scheme for the administration GUI.	option	-	jade
	Option Description			
	<i>jade</i>	Jade theme.		

Parameter	Description	Type	Size	Default																						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>neutrino</i></td><td>Neutrino theme.</td></tr><tr><td><i>mariner</i></td><td>Mariner theme.</td></tr><tr><td><i>graphite</i></td><td>Graphite theme.</td></tr><tr><td><i>melongene</i></td><td>Melongene theme.</td></tr><tr><td><i>jet-stream</i></td><td>Jet Stream theme.</td></tr><tr><td><i>security-fabric</i></td><td>Security Fabric theme.</td></tr><tr><td><i>retro</i></td><td>FortiProxy v3 Retro theme.</td></tr><tr><td><i>dark-matter</i></td><td>Dark Matter theme.</td></tr><tr><td><i>onyx</i></td><td>Onyx theme.</td></tr><tr><td><i>eclipse</i></td><td>Eclipse theme.</td></tr></table>	Option	Description	<i>neutrino</i>	Neutrino theme.	<i>mariner</i>	Mariner theme.	<i>graphite</i>	Graphite theme.	<i>melongene</i>	Melongene theme.	<i>jet-stream</i>	Jet Stream theme.	<i>security-fabric</i>	Security Fabric theme.	<i>retro</i>	FortiProxy v3 Retro theme.	<i>dark-matter</i>	Dark Matter theme.	<i>onyx</i>	Onyx theme.	<i>eclipse</i>	Eclipse theme.			
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gui-date-format	Default date format used throughout GUI.	option	-	yyyy/MM/dd																						
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gui-date-time-source	Source from which the FortiProxy GUI uses to display date and time entries.	option	-	system																						
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	<i>system</i>	Use this FortiProxy unit's configured timezone.																								
<i>browser</i>	Use the web browser's timezone.																									
igmp-state-limit	Maximum number of IGMP memberships (96 - 64000, default = 3200).	integer	Minimum value: 96 Maximum value: 128000	3200																						
cloud-communication	Enable/disable all cloud communication.	option	-	enable																						

Parameter	Description	Type	Size	Default
	Option Description			
	<i>enable</i>	Allow cloud communication.		
	<i>disable</i>	Disable all cloud-related settings.		
ipsec-ha-seqjump-rate	ESP jump ahead rate (1G - 10G pps equivalent).	integer	Minimum value: 1 Maximum value: 10	10
fortitoken-cloud	Enable/disable FortiToken Cloud service.	option	-	enable
	Option Description			
	<i>enable</i>	Enable FortiToken Cloud service.		
	<i>disable</i>	Disable FortiToken Cloud service.		
fortitoken-cloud-push-status	Enable/disable FTM push service of FortiToken Cloud.	option	-	enable
	Option Description			
	<i>enable</i>	Enable FTM push service of FortiToken Cloud.		
	<i>disable</i>	Disable FTM push service of FortiToken Cloud.		
fortitoken-cloud-sync-interval	Interval in which to clean up remote users in FortiToken Cloud (0 - 336 hours (14 days), default = 24, disable = 0).	integer	Minimum value: 0 Maximum value: 336	24
faz-disk-buffer-size	Maximum disk buffer size to temporarily store logs destined for FortiAnalyzer. To be used in the event that FortiAnalyzer is unavailable.	integer	Not Specified	0
irq-time-accounting	Configure CPU IRQ time accounting mode.	option	-	auto
	Option Description			
	<i>auto</i>	Automatically switch CPU accounting mode.		
	<i>force</i>	Force the use of CPU IRQ time accounting mode.		
management-ip	Management IP address of this FortiProxy. Used to log into this FortiProxy from another FortiProxy in the Security Fabric.	string	Maximum length: 255	

Parameter	Description	Type	Size	Default
management-port	Overriding port for management connection (Overrides admin port).	integer	Minimum value: 1 Maximum value: 65535	443
management-port-use-admin-sport	Enable/disable use of the admin-sport setting for the management port. If disabled, FortiGate will allow user to specify management-port.	option	-	enable
	Option		Description	
	<i>enable</i>		Enable use of the admin-sport setting for the management port.	
	<i>disable</i>		Disable use of the admin-sport setting for the management port.	
forticonverter-integration	Enable/disable FortiConverter integration service.	option	-	disable
	Option		Description	
	<i>enable</i>		Enable FortiConverter integration service.	
	<i>disable</i>		Disable FortiConverter integration service.	
forticonverter-config-upload	Enable/disable config upload to FortiConverter.	option	-	disable
	Option		Description	
	<i>once</i>		Enable one-time config upload to FortiConverter.	
	<i>disable</i>		Disable config upload to FortiConverter.	
internet-service-database	Configure which Internet Service database size to download from FortiGuard and use.	option	-	full
	Option		Description	
	<i>mini</i>		Small sized Internet Service database with very limited IP addresses.	
	<i>standard</i>		Medium sized Internet Service database with most IP addresses.	
	<i>full</i>		Full sized Internet Service database with all IP addresses.	
	<i>on-demand</i>		Internet Service database with customer selected IP addresses.	
internet-service-download-list <id>	Configure which on-demand Internet Service IDs are to be downloaded. Internet Service ID.	integer	Minimum value: 0 Maximum value: 4294967295	

Parameter	Description	Type	Size	Default						
early-tcp-npu-session	Enable/disable early TCP NPU session.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable early TCP NPU session in order to guarantee packet order of 3-way handshake.</td></tr><tr><td><i>disable</i></td><td>Disable early TCP NPU session in order to guarantee packet order of 3-way handshake.</td></tr></table>	Option	Description	<i>enable</i>	Enable early TCP NPU session in order to guarantee packet order of 3-way handshake.	<i>disable</i>	Disable early TCP NPU session in order to guarantee packet order of 3-way handshake.			
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<i>enable</i>	Enable early TCP NPU session in order to guarantee packet order of 3-way handshake.									
<i>disable</i>	Disable early TCP NPU session in order to guarantee packet order of 3-way handshake.									
interface-subnet-usage	Enable/disable allowing use of interface-subnet setting in firewall addresses (default = enable).	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disallow use of the interface-subnet setting in firewall addresses. Use in conjunction with the FortiGate REST API and when a large number of firewall addresses exist in the configuration.</td></tr><tr><td><i>enable</i></td><td>Allow use of the interface-subnet setting in firewall addresses.</td></tr></table>	Option	Description	<i>disable</i>	Disallow use of the interface-subnet setting in firewall addresses. Use in conjunction with the FortiGate REST API and when a large number of firewall addresses exist in the configuration.	<i>enable</i>	Allow use of the interface-subnet setting in firewall addresses.			
Option	Description									
<i>disable</i>	Disallow use of the interface-subnet setting in firewall addresses. Use in conjunction with the FortiGate REST API and when a large number of firewall addresses exist in the configuration.									
<i>enable</i>	Allow use of the interface-subnet setting in firewall addresses.									
sflowd-max-children-num	Maximum number of sflowd child processes allowed to run.	integer	Minimum value: 0 Maximum value: 6	6						
fortigslb-integration	Enable/disable integration with the FortiGSLB cloud service.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable VIP and ZTNA server integration with the FortiGSLB cloud service.</td></tr><tr><td><i>enable</i></td><td>Enable VIP and ZTNA server integration with the FortiGSLB cloud service.</td></tr></table>	Option	Description	<i>disable</i>	Disable VIP and ZTNA server integration with the FortiGSLB cloud service.	<i>enable</i>	Enable VIP and ZTNA server integration with the FortiGSLB cloud service.			
Option	Description									
<i>disable</i>	Disable VIP and ZTNA server integration with the FortiGSLB cloud service.									
<i>enable</i>	Enable VIP and ZTNA server integration with the FortiGSLB cloud service.									
license-overlimit	System behaviour when max licensed proxy user is reached.	option	-	bypass						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>bypass</i></td><td>Bypass further traffic when licensed user is reached.</td></tr><tr><td><i>block</i></td><td>Block further traffic when licensed user is reached.</td></tr></table>	Option	Description	<i>bypass</i>	Bypass further traffic when licensed user is reached.	<i>block</i>	Block further traffic when licensed user is reached.			
Option	Description									
<i>bypass</i>	Bypass further traffic when licensed user is reached.									
<i>block</i>	Block further traffic when licensed user is reached.									

Parameter	Description	Type	Size	Default
max-session-per-user	Max UTM sessions per user.	integer	Minimum value: 0 Maximum value: 4294967295	0
conntack	Max numbers of conntack.	integer	Minimum value: 60000 Maximum value: 10000000	700000
established-timeout	Default established session timeout (seconds).	integer	Minimum value: 10 Maximum value: 432000	1800
time-wait-timeout	Default time-wait timeout (seconds).	integer	Minimum value: 10 Maximum value: 432000	60
fin-wait-timeout	Default fin-wait timeout (seconds).	integer	Minimum value: 10 Maximum value: 432000	60
close-wait-timeout	Default close-wait timeout (seconds).	integer	Minimum value: 10 Maximum value: 432000	30
syn-sent-timeout	Default syn-sent timeout (seconds).	integer	Minimum value: 10 Maximum value: 432000	60
syn-recv-timeout	Default syn-recv timeout (seconds).	integer	Minimum value: 10 Maximum value: 432000	30
last-ack-timeout	Default last-ack timeout (seconds).	integer	Minimum value: 10 Maximum value: 432000	15

Parameter	Description	Type	Size	Default
udp-timeout	Default last-ack timeout (seconds).	integer	Minimum value: 10 Maximum value: 432000	30
udp-stream-timeout	Default last-ack timeout (seconds).	integer	Minimum value: 10 Maximum value: 432000	180
username-case-sensitivity	Case sensitivity when performing username matching	option	-	enable
	Option	Description		
	<i>enable</i>	Check case when performing username matching		
	<i>disable</i>	Ignore case when performing username matching		

config system gre-tunnel

Configure GRE tunnel.

```
config system gre-tunnel
  Description: Configure GRE tunnel.
  edit <name>
    set interface {string}
    set remote-gw {ipv4-address}
    set local-gw {ipv4-address-any}
    set sequence-number-transmission [disable|enable]
    set sequence-number-reception [disable|enable]
    set checksum-transmission [disable|enable]
    set checksum-reception [disable|enable]
    set key-outbound {integer}
    set key-inbound {integer}
    set diffservcode {user}
    set keepalive-interval {integer}
    set keepalive-failtimes {integer}
  next
end
```

config system gre-tunnel

Parameter	Description	Type	Size	Default
name	Tunnel name.	string	Maximum length: 15	

Parameter	Description	Type	Size	Default						
interface	Interface name.	string	Maximum length: 15							
remote-gw	IP address of the remote gateway.	ipv4-address	Not Specified	0.0.0.0						
local-gw	IP address of the local gateway.	ipv4-address-any	Not Specified	0.0.0.0						
sequence-number-transmission	Enable/disable including of sequence numbers in transmitted GRE packets.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>Include sequence numbers in transmitted GRE packets.</td></tr><tr><td>enable</td><td>Do not include sequence numbers in transmitted GRE packets.</td></tr></table>				Option	Description	disable	Include sequence numbers in transmitted GRE packets.	enable	Do not include sequence numbers in transmitted GRE packets.
Option	Description									
disable	Include sequence numbers in transmitted GRE packets.									
enable	Do not include sequence numbers in transmitted GRE packets.									
sequence-number-reception	Enable/disable validating sequence numbers in received GRE packets.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>Do not validate sequence number in received GRE packets.</td></tr><tr><td>enable</td><td>Validate sequence numbers in received GRE packets.</td></tr></table>				Option	Description	disable	Do not validate sequence number in received GRE packets.	enable	Validate sequence numbers in received GRE packets.
Option	Description									
disable	Do not validate sequence number in received GRE packets.									
enable	Validate sequence numbers in received GRE packets.									
checksum-transmission	Enable/disable including checksums in transmitted GRE packets.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>Do not include checksums in transmitted GRE packets.</td></tr><tr><td>enable</td><td>Include checksums in transmitted GRE packets.</td></tr></table>				Option	Description	disable	Do not include checksums in transmitted GRE packets.	enable	Include checksums in transmitted GRE packets.
Option	Description									
disable	Do not include checksums in transmitted GRE packets.									
enable	Include checksums in transmitted GRE packets.									
checksum-reception	Enable/disable validating checksums in received GRE packets.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>Do not validate checksums in received GRE packets.</td></tr><tr><td>enable</td><td>Validate checksums in received GRE packets.</td></tr></table>				Option	Description	disable	Do not validate checksums in received GRE packets.	enable	Validate checksums in received GRE packets.
Option	Description									
disable	Do not validate checksums in received GRE packets.									
enable	Validate checksums in received GRE packets.									

Parameter	Description	Type	Size	Default
key-outbound	Include this key in transmitted GRE packets (0 - 4294967295).	integer	Minimum value: 0 Maximum value: 4294967295	0
key-inbound	Require received GRE packets contain this key (0 - 4294967295).	integer	Minimum value: 0 Maximum value: 4294967295	0
diffservcode	DiffServ setting to be applied to GRE tunnel outer IP header.	user	Not Specified	
keepalive-interval	Keepalive message interval (0 - 32767, 0 = disabled).	integer	Minimum value: 0 Maximum value: 32767	0
keepalive-failtimes	Number of consecutive unreturned keepalive messages before a GRE connection is considered down (1 - 255).	integer	Minimum value: 1 Maximum value: 255	10

config system ha

Configure HA.

```
config system ha
    Description: Configure HA.
    set group-id {integer}
    set group-name {string}
    set mode [standalone|config-sync-only|...]
    set sync-packet-balance [enable|disable]
    set password {password}
    set key {password}
    set hbdev {user}
    set unicast-hb [enable|disable]
    set unicast-hb-peerip {ipv4-address}
    set unicast-hb-netmask {ipv4-netmask}
    set route-ttl {integer}
    set route-wait {integer}
    set route-hold {integer}
    set multicast-ttl {integer}
    set evpn-ttl {integer}
    set encryption [enable|disable]
    set authentication [enable|disable]
    set hb-interval {integer}
    set hb-interval-in-milliseconds [100ms|10ms]
    set hb-lost-threshold {integer}
```

```

set hello-holddown {integer}
set gratuitous-arps [enable|disable]
set arps {integer}
set arps-interval {integer}
set link-failed-signal [enable|disable]
set upgrade-mode [simultaneous|uninterruptible|...]
set sequential-upgrade [enable|disable]
set uninterruptible-primary-wait {integer}
set primary-hold-before-reboot {integer}
set ha-mgmt-status [enable|disable]
config ha-mgmt-interfaces
    Description: Reserve interfaces to manage individual cluster units.
    edit <id>
        set interface {string}
        set dst {ipv4-classnet}
        set gateway {ipv4-address}
        set gateway6 {ipv6-address}
    next
end
set ha-uptime-diff-margin {integer}
set unicast-status [enable|disable]
set unicast-gateway {ipv4-address}
config unicast-peers
    Description: Number of unicast peers.
    edit <id>
        set peer-ip {ipv4-address}
    next
end
set weight {user}
set cpu-threshold {user}
set memory-threshold {user}
set http-proxy-threshold {user}
set ftp-proxy-threshold {user}
set imap-proxy-threshold {user}
set nntp-proxy-threshold {user}
set pop3-proxy-threshold {user}
set smtp-proxy-threshold {user}
set override [enable|disable]
set priority {integer}
set override-wait-time {integer}
set monitor {user}
set pingserver-monitor-interface {user}
set pingserver-failover-threshold {integer}
set pingserver-secondary-force-reset [enable|disable]
set pingserver-flip-timeout {integer}
set vcluster-status [enable|disable]
config vcluster
    Description: Virtual cluster table.
    edit <vcluster-id>
        set override [enable|disable]
        set priority {integer}
        set override-wait-time {integer}
        set monitor {user}
        set pingserver-monitor-interface {user}
        set pingserver-failover-threshold {integer}
        set pingserver-secondary-force-reset [enable|disable]

```



```

        set pingserver-flip-timeout {integer}
        set vdom <name1>, <name2>, ...
    next
end
set ha-direct [enable|disable]
set ssd-failover [enable|disable]
set memory-compatible-mode [enable|disable]
set memory-based-failover [enable|disable]
set memory-failover-threshold {integer}
set memory-failover-monitor-period {integer}
set memory-failover-sample-rate {integer}
set memory-failover-flip-timeout {integer}
set failover-hold-time {integer}
set ipsec-phase2-proposal {option1}, {option2}, ...
end

```

config system ha

Parameter	Description	Type	Size	Default
group-id	HA group ID (0 - 1023; or 0 - 7 when there are more than 2 vclusters). Must be the same for all members.	integer	Minimum value: 0 Maximum value: 1023	0
group-name	Cluster group name. Must be the same for all members.	string	Maximum length: 32	
mode	HA mode. Must be the same for all members. FGSP requires standalone.	option	-	standalone
	Option	Description		
	<i>standalone</i>	Disable HA feature.		
	<i>config-sync-only</i>	Enable Config sync only		
	<i>active-passive</i>	Enable Active-passive mode.		
sync-packet-balance	Enable/disable HA packet distribution to multiple CPUs.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable HA packet distribution to multiple CPUs.		
	<i>disable</i>	Disable HA packet distribution to multiple CPUs.		
password	Cluster password. Must be the same for all members.	password	Not Specified	
key	Key.	password	Not Specified	

Parameter	Description	Type	Size	Default
hbdev	Heartbeat interfaces. Must be the same for all members.	user	Not Specified	
unicast-hb	Enable/disable unicast heartbeat.	option	-	disable
	Option	Description		
	enable	Enable setting.		
	disable	Disable setting.		
unicast-hb-peerip	Unicast heartbeat peer IP.	ipv4-address	Not Specified	0.0.0.0
unicast-hb-netmask	Unicast heartbeat netmask.	ipv4-netmask	Not Specified	0.0.0.0
route-ttl	TTL for primary unit routes (5 - 3600 sec). Increase to maintain active routes during failover.	integer	Minimum value: 5 Maximum value: 3600	10
route-wait	Time to wait before sending new routes to the cluster (0 - 3600 sec).	integer	Minimum value: 0 Maximum value: 3600	0
route-hold	Time to wait between routing table updates to the cluster (0 - 3600 sec).	integer	Minimum value: 0 Maximum value: 3600	10
multicast-ttl	HA multicast TTL on primary (5 - 3600 sec).	integer	Minimum value: 5 Maximum value: 3600	600
evpn-ttl	HA EVPN FDB TTL on primary box (5 - 3600 sec).	integer	Minimum value: 5 Maximum value: 3600	60
encryption	Enable/disable heartbeat message encryption.	option	-	disable
	Option	Description		
	enable	Enable heartbeat message encryption.		
	disable	Disable heartbeat message encryption.		

Parameter	Description	Type	Size	Default						
authentication	Enable/disable heartbeat message authentication.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable heartbeat message authentication.</td></tr><tr><td><i>disable</i></td><td>Disable heartbeat message authentication.</td></tr></table>	Option	Description	<i>enable</i>	Enable heartbeat message authentication.	<i>disable</i>	Disable heartbeat message authentication.			
Option	Description									
<i>enable</i>	Enable heartbeat message authentication.									
<i>disable</i>	Disable heartbeat message authentication.									
hb-interval	Time between sending heartbeat packets (1 - 20). Increase to reduce false positives.	integer	Minimum value: 1 Maximum value: 20	2						
hb-interval-in-milliseconds	Units of heartbeat interval time between sending heartbeat packets. Default is 100ms.	option	-	100ms						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>100ms</i></td><td>Each heartbeat interval is 100ms.</td></tr><tr><td><i>10ms</i></td><td>Each heartbeat interval is 10ms.</td></tr></table>	Option	Description	<i>100ms</i>	Each heartbeat interval is 100ms.	<i>10ms</i>	Each heartbeat interval is 10ms.			
Option	Description									
<i>100ms</i>	Each heartbeat interval is 100ms.									
<i>10ms</i>	Each heartbeat interval is 10ms.									
hb-lost-threshold	Number of lost heartbeats to signal a failure (1 - 60). Increase to reduce false positives.	integer	Minimum value: 1 Maximum value: 60	20						
hello-holddown	Time to wait before changing from hello to work state (5 - 300 sec).	integer	Minimum value: 5 Maximum value: 300	20						
gratuitous-arps	Enable/disable gratuitous ARPs. Disable if link-failed-signal enabled.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable gratuitous ARPs.</td></tr><tr><td><i>disable</i></td><td>Disable gratuitous ARPs.</td></tr></table>	Option	Description	<i>enable</i>	Enable gratuitous ARPs.	<i>disable</i>	Disable gratuitous ARPs.			
Option	Description									
<i>enable</i>	Enable gratuitous ARPs.									
<i>disable</i>	Disable gratuitous ARPs.									
arps	Number of gratuitous ARPs (1 - 60). Lower to reduce traffic. Higher to reduce failover time.	integer	Minimum value: 1 Maximum value: 60	5						
arps-interval	Time between gratuitous ARPs (1 - 20 sec). Lower to reduce failover time. Higher to reduce traffic.	integer	Minimum value: 1 Maximum value: 20	8						

Parameter	Description	Type	Size	Default										
link-failed-signal	Enable to shut down all interfaces for 1 sec after a failover. Use if gratuitous ARPs do not update network.	option	-	disable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.							
Option	Description													
<i>enable</i>	Enable setting.													
<i>disable</i>	Disable setting.													
upgrade-mode	The mode to upgrade a cluster.	option	-	uninterruptible										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>simultaneous</i></td><td>Upgrade all HA members at the same time.</td></tr><tr><td><i>uninterruptible</i></td><td>Upgrade HA cluster without blocking network traffic.</td></tr><tr><td><i>local-only</i></td><td>Upgrade local member only.</td></tr><tr><td><i>secondary-only</i></td><td>Upgrade secondary member only.</td></tr></table>	Option	Description	<i>simultaneous</i>	Upgrade all HA members at the same time.	<i>uninterruptible</i>	Upgrade HA cluster without blocking network traffic.	<i>local-only</i>	Upgrade local member only.	<i>secondary-only</i>	Upgrade secondary member only.			
Option	Description													
<i>simultaneous</i>	Upgrade all HA members at the same time.													
<i>uninterruptible</i>	Upgrade HA cluster without blocking network traffic.													
<i>local-only</i>	Upgrade local member only.													
<i>secondary-only</i>	Upgrade secondary member only.													
sequential-upgrade	Enable to upgrade secondaries one by one.	option	-	enable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.							
Option	Description													
<i>enable</i>	Enable setting.													
<i>disable</i>	Disable setting.													
uninterruptible-primary-wait	Number of minutes the primary HA unit waits before the secondary HA unit is considered upgraded and the system is started before starting its own upgrade (15 - 300, default = 30).	integer	Minimum value: 15 Maximum value: 300	30										
primary-hold-before-reboot	Number of seconds the primary HA unit waits after the secondary HA unit upgraded and joined back HA then starts its own upgrade (0 - 600, default = 0).	integer	Minimum value: 0 Maximum value: 600	0										
ha-mgmt-status	Enable to reserve interfaces to manage individual cluster units.	option	-	disable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.							
Option	Description													
<i>enable</i>	Enable setting.													
<i>disable</i>	Disable setting.													

Parameter	Description	Type	Size	Default						
ha-uptime-diff-margin	Normally you would only reduce this value for failover testing.	integer	Minimum value: 1 Maximum value: 65535	300						
unicast-status	Enable/disable unicast connection.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>				Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.
	Option	Description								
	<i>enable</i>	Enable setting.								
<i>disable</i>	Disable setting.									
unicast-gateway	Default route gateway for unicast interface.	ipv4-address	Not Specified	0.0.0.0						
weight	Weight-round-robin weight for each cluster unit. Syntax <priority> <weight>.	user	Not Specified	0 40						
cpu-threshold	Dynamic weighted load balancing CPU usage weight and high and low thresholds.	user	Not Specified							
memory-threshold	Dynamic weighted load balancing memory usage weight and high and low thresholds.	user	Not Specified							
http-proxy-threshold	Dynamic weighted load balancing weight and high and low number of HTTP proxy sessions.	user	Not Specified							
ftp-proxy-threshold	Dynamic weighted load balancing weight and high and low number of FTP proxy sessions.	user	Not Specified							
imap-proxy-threshold	Dynamic weighted load balancing weight and high and low number of IMAP proxy sessions.	user	Not Specified							
nnntp-proxy-threshold	Dynamic weighted load balancing weight and high and low number of NNTP proxy sessions.	user	Not Specified							
pop3-proxy-threshold	Dynamic weighted load balancing weight and high and low number of POP3 proxy sessions.	user	Not Specified							
smtp-proxy-threshold	Dynamic weighted load balancing weight and high and low number of SMTP proxy sessions.	user	Not Specified							
override	Enable and increase the priority of the unit that should always be primary (master).	option	-	disable						

Parameter	Description	Type	Size	Default						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
	Option	Description								
	<i>enable</i>	Enable setting.								
<i>disable</i>	Disable setting.									
priority	Increase the priority to select the primary unit (0 - 255).	integer	Minimum value: 0 Maximum value: 255	128						
override-wait-time	Delay negotiating if override is enabled (0 - 3600 sec). Reduces how often the cluster negotiates.	integer	Minimum value: 0 Maximum value: 3600	0						
monitor	Interfaces to check for port monitoring (or link failure).	user	Not Specified							
pingserver-monitor-interface	Interfaces to check for remote IP monitoring.	user	Not Specified							
pingserver-failover-threshold	Remote IP monitoring failover threshold (0 - 50).	integer	Minimum value: 0 Maximum value: 50	0						
pingserver-secondary-force-reset	Enable to force the cluster to negotiate after a remote IP monitoring failover.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable force reset of secondary member after PING server failure.</td></tr><tr><td><i>disable</i></td><td>Disable force reset of secondary member after PING server failure.</td></tr></table>	Option	Description	<i>enable</i>	Enable force reset of secondary member after PING server failure.	<i>disable</i>	Disable force reset of secondary member after PING server failure.			
	Option	Description								
	<i>enable</i>	Enable force reset of secondary member after PING server failure.								
<i>disable</i>	Disable force reset of secondary member after PING server failure.									
pingserver-flip-timeout	Time to wait in minutes before renegotiating after a remote IP monitoring failover.	integer	Minimum value: 6 Maximum value: 2147483647	60						
vcluster-status	Enable/disable virtual cluster for virtual clustering.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
	Option	Description								
	<i>enable</i>	Enable setting.								
<i>disable</i>	Disable setting.									

Parameter	Description	Type	Size	Default
ha-direct	Enable/disable using ha-mgmt interface for syslog, remote authentication (RADIUS), FortiAnalyzer, FortiSandbox.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable using ha-mgmt interface for syslog, SNMP, remote authentication (RADIUS), FortiAnalyzer, FortiSandbox.		
	<i>disable</i>	Disable using ha-mgmt interface for syslog, SNMP, remote authentication (RADIUS), FortiAnalyzer, FortiSandbox.		
ssd-failover	Enable/disable automatic HA failover on SSD disk failure.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
memory-compatible-mode	Enable/disable memory compatible mode.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
memory-based-failover	Enable/disable memory based failover.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
memory-failover-threshold	Memory usage threshold to trigger memory based failover (0 means using conserve mode threshold in system.global).	integer	Minimum value: 0 Maximum value: 95	0
memory-failover-monitor-period	Duration of high memory usage before memory based failover is triggered in seconds (1 - 300, default = 60).	integer	Minimum value: 1 Maximum value: 300	60

Parameter	Description	Type	Size	Default
memory-failover-sample-rate	Rate at which memory usage is sampled in order to measure memory usage in seconds (1 - 60, default = 1).	integer	Minimum value: 1 Maximum value: 60	1
memory-failover-flip-timeout	Time to wait between subsequent memory based failovers in minutes (6 - 2147483647, default = 6).	integer	Minimum value: 6 Maximum value: 2147483647	6
failover-hold-time	Time to wait before failover (0 - 300 sec, default = 0), to avoid flip.	integer	Minimum value: 0 Maximum value: 300	0
ipsec-phase2-proposal	IPsec phase2 proposal.	option	-	

Option	Description
<i>aes128-sha1</i>	aes128-sha1
<i>aes128-sha256</i>	aes128-sha256
<i>aes128-sha384</i>	aes128-sha384
<i>aes128-sha512</i>	aes128-sha512
<i>aes192-sha1</i>	aes192-sha1
<i>aes192-sha256</i>	aes192-sha256
<i>aes192-sha384</i>	aes192-sha384
<i>aes192-sha512</i>	aes192-sha512
<i>aes256-sha1</i>	aes256-sha1
<i>aes256-sha256</i>	aes256-sha256
<i>aes256-sha384</i>	aes256-sha384
<i>aes256-sha512</i>	aes256-sha512
<i>aes128gcm</i>	aes128gcm
<i>aes256gcm</i>	aes256gcm
<i>chacha20poly1305</i>	chacha20poly1305

config ha-mgmt-interfaces

Parameter	Description	Type	Size	Default
id	Table ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
interface	Interface to reserve for HA management.	string	Maximum length: 15	
dst	Default route destination for reserved HA management interface.	ipv4-classnet	Not Specified	0.0.0.0 0.0.0.0
gateway	Default route gateway for reserved HA management interface.	ipv4-address	Not Specified	0.0.0.0
gateway6	Default IPv6 gateway for reserved HA management interface.	ipv6-address	Not Specified	::

config unicast-peers

Parameter	Description	Type	Size	Default
id	Table ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
peer-ip	Unicast peer IP.	ipv4-address	Not Specified	0.0.0.0

config vcluster

Parameter	Description	Type	Size	Default
vcluster-id	ID.	integer	Minimum value: 1 Maximum value: 30	1
override	Enable and increase the priority of the unit that should always be primary (master).	option	-	disable
		Option	Description	
		enable	Enable setting.	
		disable	Disable setting.	

Parameter	Description	Type	Size	Default						
priority	Increase the priority to select the primary unit (0 - 255).	integer	Minimum value: 0 Maximum value: 255	128						
override-wait-time	Delay negotiating if override is enabled (0 - 3600 sec). Reduces how often the cluster negotiates.	integer	Minimum value: 0 Maximum value: 3600	0						
monitor	Interfaces to check for port monitoring (or link failure).	user	Not Specified							
pingserver-monitor-interface	Interfaces to check for remote IP monitoring.	user	Not Specified							
pingserver-failover-threshold	Remote IP monitoring failover threshold (0 - 50).	integer	Minimum value: 0 Maximum value: 50	0						
pingserver-secondary-force-reset	Enable to force the cluster to negotiate after a remote IP monitoring failover.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable force reset of secondary member after PING server failure.</td></tr><tr><td><i>disable</i></td><td>Disable force reset of secondary member after PING server failure.</td></tr></table>				Option	Description	<i>enable</i>	Enable force reset of secondary member after PING server failure.	<i>disable</i>	Disable force reset of secondary member after PING server failure.
Option	Description									
<i>enable</i>	Enable force reset of secondary member after PING server failure.									
<i>disable</i>	Disable force reset of secondary member after PING server failure.									
pingserver-flip-timeout	Time to wait in minutes before renegotiating after a remote IP monitoring failover.	integer	Minimum value: 6 Maximum value: 2147483647	60						
vdom <name>	Virtual domain(s) in the virtual cluster. Virtual domain name.	string	Maximum length: 79							

config system ha-lic

ha-lic

```

config system ha-lic
  Description: ha-lic
  edit <serial-num>
    set last-sync-time {password}
    set last-sync-seat {password}
    set last-sync-seat-fnbi {password}
    set last-sync-seat-fcas {password}

```

```
next
end
```

config system ha-lic

Parameter	Description	Type	Size	Default
serial-num	The Serial Number that joined an HA cluster.	string	Maximum length: 16	
last-sync-time	Last time_t when SN updated the user seats.	password	Not Specified	
last-sync-seat	Last seats when SN updated the user seats.	password	Not Specified	
last-sync-seat-fnbi	Last seats when SN updated the isolator seats.	password	Not Specified	
last-sync-seat-fcas	Last seats when SN updated the image AI seats.	password	Not Specified	

config system ha-monitor

Configure HA monitor.

```
config system ha-monitor
  Description: Configure HA monitor.
  set monitor-vlan [enable|disable]
  set vlan-hb-interval {integer}
  set vlan-hb-lost-threshold {integer}
end
```

config system ha-monitor

Parameter	Description	Type	Size	Default						
monitor-vlan	Enable/disable monitor VLAN interfaces.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable monitor VLAN interfaces.</td></tr><tr><td><i>disable</i></td><td>Disable monitor VLAN interfaces.</td></tr></table>				Option	Description	<i>enable</i>	Enable monitor VLAN interfaces.	<i>disable</i>	Disable monitor VLAN interfaces.
	Option	Description								
	<i>enable</i>	Enable monitor VLAN interfaces.								
	<i>disable</i>	Disable monitor VLAN interfaces.								
vlan-hb-interval	Configure heartbeat interval (seconds).	integer	Minimum value: 1 Maximum value: 30	5						

Parameter	Description	Type	Size	Default
vlan-hb-lost-threshold	VLAN lost heartbeat threshold (1 - 60).	integer	Minimum value: 1 Maximum value: 60	3

config system ha-nonsync-csum

System checksum for FortiManager use only.

```
config system ha-nonsync-csum
    Description: System checksum for FortiManager use only.
end
```

config system info admin ssh

Show SSH status.

```
config system info admin ssh
    Description: Show SSH status.
end
```

config system info admin status

Show logged in administrators.

```
config system info admin status
    Description: Show logged in administrators.
end
```

config system interface

Configure interfaces.

```
config system interface
    Description: Configure interfaces.
    edit <name>
        set vdom {string}
        set cli-conn-status {integer}
        set mode [static|dhcp|...]
        config client-options
            Description: DHCP client options.
            edit <id>
                set code {integer}
                set type [hex|string|...]
                set value {string}
            end
        end
    end
```

```

        set ip {user}
    next
end
set distance {integer}
set priority {integer}
set dhcp-relay-interface-select-method [auto|specify]
set dhcp-relay-interface {string}
set dhcp-broadcast-flag [disable|enable]
set dhcp-relay-service [disable|enable]
set dhcp-relay-ip {user}
set dhcp-relay-source-ip {ipv4-address}
set dhcp-relay-circuit-id {string}
set dhcp-relay-link-selection {ipv4-address}
set dhcp-relay-request-all-server [disable|enable]
set dhcp-relay-allow-no-end-option [disable|enable]
set dhcp-relay-type [regular|ipsec]
set dhcp-smart-relay [disable|enable]
set dhcp-relay-agent-option [enable|disable]
set dhcp-classless-route-addition [enable|disable]
set management-ip {ipv4-classnet-host}
set ip {ipv4-classnet-host}
set allowaccess {option1}, {option2}, ...
set gwdetect [enable|disable]
set ping-serv-status {integer}
set detectserver {user}
set detectprotocol {option1}, {option2}, ...
set ha-priority {integer}
set fail-detect [enable|disable]
set fail-detect-option {option1}, {option2}, ...
set fail-alert-method [link-failed-signal|link-down]
set fail-action-on-extender [soft-restart|hard-restart|...]
set fail-alert-interfaces <name1>, <name2>, ...
set dhcp-client-identifier {string}
set dhcp-renew-time {integer}
set ipunnumbered {ipv4-address}
set username {string}
set pppoe-egress-cos [cos0|cos1|...]
set pppoe-unnumbered-negotiate [enable|disable]
set password {password}
set idle-timeout {integer}
set detected-peer-mtu {integer}
set disc-retry-timeout {integer}
set padt-retry-timeout {integer}
set service-name {string}
set ac-name {string}
set lcp-echo-interval {integer}
set lcp-max-echo-fails {integer}
set defaultgw [enable|disable]
set dns-server-override [enable|disable]
set dns-server-protocol {option1}, {option2}, ...
set auth-type [auto|pap|...]
set pptp-client [enable|disable]
set pptp-user {string}
set pptp-password {password}
set pptp-server-ip {ipv4-address}
set pptp-auth-type [auto|pap|...]

```

```
set pptp-timeout {integer}
set arpforward [enable|disable]
set broadcast-forward [enable|disable]
set bfd [global|enable|...]
set bfd-desired-min-tx {integer}
set bfd-detect-mult {integer}
set bfd-required-min-rx {integer}
set l2forward [enable|disable]
set icmp-send-redirect [enable|disable]
set icmp-accept-redirect [enable|disable]
set stpforward [enable|disable]
set stpforward-mode [rpl-all-ext-id|rpl-bridge-ext-id|...]
set macaddr {mac-address}
set substitute-dst-mac {mac-address}
set large-receive-offload [enable|disable]
set generic-receive-offload [enable|disable]
set speed [auto|10full|...]
set status [up|down]
set netbios-forward [disable|enable]
set wins-ip {ipv4-address}
set type [physical|vlan|...]
set dedicated-to [none|management]
set trust-ip-1 {ipv4-classnet-any}
set trust-ip-2 {ipv4-classnet-any}
set trust-ip-3 {ipv4-classnet-any}
set trust-ip6-1 {ipv6-prefix}
set trust-ip6-2 {ipv6-prefix}
set trust-ip6-3 {ipv6-prefix}
set ring-rx {integer}
set ring-tx {integer}
set wccp [enable|disable]
set drop-overlapped-fragment [enable|disable]
set drop-fragment [enable|disable]
set src-check [enable|disable]
set explicit-web-proxy [enable|disable]
set explicit-ftp-proxy [enable|disable]
set proxy-captive-portal [enable|disable]
set tcp-mss {integer}
set inbandwidth {integer}
set outbandwidth {integer}
set egress-shaping-profile {string}
set ingress-shaping-profile {string}
set spillover-threshold {integer}
set ingress-spillover-threshold {integer}
set weight {integer}
set interface {string}
set external [enable|disable]
set mtu-override [enable|disable]
set mtu {integer}
set vlan-protocol [8021q|8021ad]
set vlanid {integer}
set forward-domain {integer}
set remote-ip {ipv4-classnet-host}
set member <interface-name1>, <interface-name2>, ...
set lacp-mode {option}
set lacp-ha-secondary [enable|disable]
```

```

set system-id-type [auto|user]
set system-id {mac-address}
set lacp-speed [slow|fast]
set min-links {integer}
set min-links-down [operational|administrative]
set algorithm [L2|L3|...]
set link-up-delay {integer}
set aggregate-type [physical|vxlan]
set priority-override [enable|disable]
set aggregate {string}
set redundant-interface {string}
set devindex {integer}
set switch {string}
set description {var-string}
set alias {string}
set security-mode [none|captive-portal|...]
set security-mac-auth-bypass [mac-auth-only|enable|...]
set security-external-web {var-string}
set security-external-logout {string}
set replacemsg-override-group {string}
set security-redirect-url {var-string}
set auth-cert {string}
set auth-portal-addr {string}
set security-exempt-list {string}
set security-groups <name1>, <name2>, ...
set ike-saml-server {string}
config phy-setting
    Description: PHY settings
    set signal-ok-threshold-value {integer}
end
set role [lan|wan|...]
set snmp-index {integer}
set secondary-IP [enable|disable]
config secondaryip
    Description: Second IP address of interface.
    edit <id>
        set ip {ipv4-classnet-host}
        set secip-relay-ip {user}
        set allowaccess {option1}, {option2}, ...
        set gwdetect [enable|disable]
        set ping-serv-status {integer}
        set detectserver {user}
        set detectprotocol {option1}, {option2}, ...
        set ha-priority {integer}
    next
end
set color {integer}
config tagging
    Description: Config object tagging.
    edit <name>
        set category {string}
        set tags <name1>, <name2>, ...
    next
end
set eap-supPLICANT [enable|disable]
set eap-method [tls|peap]

```

```

set eap-identity {string}
set eap-password {password}
set eap-ca-cert {string}
set eap-user-cert {string}
set default-purdue-level [1|1.5|...]
config ipv6
    Description: IPv6 of interface.
    set ip6-mode [static|dhcp|...]
    set nd-mode [basic|SEND-compatible]
    set nd-cert {string}
    set nd-security-level {integer}
    set nd-timestamp-delta {integer}
    set nd-timestamp-fuzz {integer}
    set nd-cga-modifier {user}
    set ip6-dns-server-override [enable|disable]
    set ip6-address {ipv6-prefix}
    config ip6-extra-addr
        Description: Extra IPv6 address prefixes of interface.
        edit <prefix>
            next
        end
    set ip6-allowaccess {option1}, {option2}, ...
    set ip6-send-adv [enable|disable]
    set icmp6-send-redirect [enable|disable]
    set ip6-manage-flag [enable|disable]
    set ip6-other-flag [enable|disable]
    set ip6-max-interval {integer}
    set ip6-min-interval {integer}
    set ip6-link-mtu {integer}
    set ra-send-mtu [enable|disable]
    set ip6-reachable-time {integer}
    set ip6-retrans-time {integer}
    set ip6-default-life {integer}
    set ip6-hop-limit {integer}
    set autoconf [enable|disable]
    set unique-autoconf-addr [enable|disable]
    set interface-identifier {ipv6-address}
    set ip6-prefix-mode [dhcp6|ra]
    set ip6-delegated-prefix-iaid {integer}
    set ip6-upstream-interface {string}
    set ip6-subnet {ipv6-prefix}
    config ip6-prefix-list
        Description: Advertised prefix list.
        edit <prefix>
            set autonomous-flag [enable|disable]
            set onlink-flag [enable|disable]
            set valid-life-time {integer}
            set preferred-life-time {integer}
            set rdns {user}
            set dnssl <domain1>, <domain2>, ...
        next
    end
    config ip6-delegated-prefix-list
        Description: Advertised IPv6 delegated prefix list.
        edit <prefix-id>
            set upstream-interface {string}

```



```

        set delegated-prefix-iaid {integer}
        set autonomous-flag [enable|disable]
        set onlink-flag [enable|disable]
        set subnet {ipv6-network}
        set rdns-service [delegated|default|...]
        set rdns {user}
    next
end
set dhcp6-relay-service [disable|enable]
set dhcp6-relay-type {option}
set dhcp6-relay-source-interface [disable|enable]
set dhcp6-relay-ip {user}
set dhcp6-relay-source-ip {ipv6-address}
set dhcp6-relay-interface-id {string}
set dhcp6-client-options {option1}, {option2}, ...
set dhcp6-prefix-delegation [enable|disable]
set dhcp6-information-request [enable|disable]
config dhcp6-iapd-list
    Description: DHCPv6 IA-PD list.
    edit <iaid>
        set prefix-hint {ipv6-network}
        set prefix-hint-plt {integer}
        set prefix-hint-vlt {integer}
    next
end
set cli-conn6-status {integer}
end
next
end

```

config system interface

Parameter	Description	Type	Size	Default
name	Name.	string	Maximum length: 15	
vdom	Interface is in this virtual domain (VDOM).	string	Maximum length: 31	
cli-conn-status	CLI connection status.	integer	Minimum value: 0 Maximum value: 4294967295	0
mode	Addressing mode (static, DHCP, PPPoE).	option	-	static
		Option	Description	
		<i>static</i>	Static setting.	
		<i>dhcp</i>	External DHCP client mode.	

Parameter	Description	Type	Size	Default						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>pppoe</i></td><td>External PPPoE mode.</td></tr></table>	Option	Description	<i>pppoe</i>	External PPPoE mode.					
Option	Description									
<i>pppoe</i>	External PPPoE mode.									
distance	Distance for routes learned through PPPoE or DHCP , lower distance indicates preferred route.	integer	Minimum value: 1 Maximum value: 255	5						
priority	Priority of learned routes.	integer	Minimum value: 1 Maximum value: 65535	0						
dhcp-relay-interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>auto</i></td><td>Set outgoing interface automatically.</td></tr><tr><td><i>specify</i></td><td>Set outgoing interface manually.</td></tr></table>	Option	Description	<i>auto</i>	Set outgoing interface automatically.	<i>specify</i>	Set outgoing interface manually.			
Option	Description									
<i>auto</i>	Set outgoing interface automatically.									
<i>specify</i>	Set outgoing interface manually.									
dhcp-relay-interface	Specify outgoing interface to reach server.	string	Maximum length: 15							
dhcp-broadcast-flag	Enable/disable setting of the broadcast flag in messages sent by the DHCP client (default = enable).	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable broadcast flag.</td></tr><tr><td><i>enable</i></td><td>Enable broadcast flag.</td></tr></table>	Option	Description	<i>disable</i>	Disable broadcast flag.	<i>enable</i>	Enable broadcast flag.			
Option	Description									
<i>disable</i>	Disable broadcast flag.									
<i>enable</i>	Enable broadcast flag.									
dhcp-relay-service	Enable/disable allowing this interface to act as a DHCP relay.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>None.</td></tr><tr><td><i>enable</i></td><td>DHCP relay agent.</td></tr></table>	Option	Description	<i>disable</i>	None.	<i>enable</i>	DHCP relay agent.			
Option	Description									
<i>disable</i>	None.									
<i>enable</i>	DHCP relay agent.									
dhcp-relay-ip	DHCP relay IP address.	user	Not Specified							
dhcp-relay-source-ip	IP address used by the DHCP relay as its source IP.	ipv4-address	Not Specified	0.0.0.0						

Parameter	Description	Type	Size	Default						
dhcp-relay-circuit-id	DHCP relay circuit ID.	string	Maximum length: 64							
dhcp-relay-link-selection	DHCP relay link selection.	ipv4-address	Not Specified	0.0.0.0						
dhcp-relay-request-all-server	Enable/disable sending of DHCP requests to all servers.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>Send DHCP requests only to a matching server.</td></tr><tr><td>enable</td><td>Send DHCP requests to all servers.</td></tr></table>	Option	Description	disable	Send DHCP requests only to a matching server.	enable	Send DHCP requests to all servers.			
Option	Description									
disable	Send DHCP requests only to a matching server.									
enable	Send DHCP requests to all servers.									
dhcp-relay-allow-no-end-option	Enable/disable relaying DHCP messages with no end option.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>Disable relaying DHCP messages with no end option.</td></tr><tr><td>enable</td><td>Enable relaying DHCP messages with no end option.</td></tr></table>	Option	Description	disable	Disable relaying DHCP messages with no end option.	enable	Enable relaying DHCP messages with no end option.			
Option	Description									
disable	Disable relaying DHCP messages with no end option.									
enable	Enable relaying DHCP messages with no end option.									
dhcp-relay-type	DHCP relay type (regular or IPsec).	option	-	regular						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>regular</td><td>Regular DHCP relay.</td></tr><tr><td>ipsec</td><td>DHCP relay for IPsec.</td></tr></table>	Option	Description	regular	Regular DHCP relay.	ipsec	DHCP relay for IPsec.			
Option	Description									
regular	Regular DHCP relay.									
ipsec	DHCP relay for IPsec.									
dhcp-smart-relay	Enable/disable DHCP smart relay.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>disable</td><td>Disable DHCP smart relay.</td></tr><tr><td>enable</td><td>Enable DHCP smart relay.</td></tr></table>	Option	Description	disable	Disable DHCP smart relay.	enable	Enable DHCP smart relay.			
Option	Description									
disable	Disable DHCP smart relay.									
enable	Enable DHCP smart relay.									
dhcp-relay-agent-option	Enable/disable DHCP relay agent option.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable DHCP relay agent option.</td></tr><tr><td>disable</td><td>Disable DHCP relay agent option.</td></tr></table>	Option	Description	enable	Enable DHCP relay agent option.	disable	Disable DHCP relay agent option.			
Option	Description									
enable	Enable DHCP relay agent option.									
disable	Disable DHCP relay agent option.									
dhcp-classless-route-addition	Enable/disable addition of classless static routes retrieved from DHCP server.	option	-	enable						

Parameter	Description	Type	Size	Default																										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable addition of classless static routes retrieved from DHCP server.</td></tr><tr><td><i>disable</i></td><td>Disable addition of classless static routes retrieved from DHCP server.</td></tr></table>	Option	Description	<i>enable</i>	Enable addition of classless static routes retrieved from DHCP server.	<i>disable</i>	Disable addition of classless static routes retrieved from DHCP server.																							
	Option	Description																												
	<i>enable</i>	Enable addition of classless static routes retrieved from DHCP server.																												
<i>disable</i>	Disable addition of classless static routes retrieved from DHCP server.																													
management-ip	High Availability in-band management IP address of this interface.	ipv4-classnet-host	Not Specified	0.0.0.0 0.0.0.0																										
ip	Interface IPv4 address and subnet mask, syntax: X.X.X.X/24.	ipv4-classnet-host	Not Specified	0.0.0.0 0.0.0.0																										
allowaccess	Permitted types of management access to this interface.	option	-																											
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>ping</i></td><td>PING access.</td></tr><tr><td><i>https</i></td><td>HTTPS access.</td></tr><tr><td><i>ssh</i></td><td>SSH access.</td></tr><tr><td><i>snmp</i></td><td>SNMP access.</td></tr><tr><td><i>http</i></td><td>HTTP access.</td></tr><tr><td><i>telnet</i></td><td>TELNET access.</td></tr><tr><td><i>fgfm</i></td><td>FortiManager access.</td></tr><tr><td><i>radius-acct</i></td><td>RADIUS accounting access.</td></tr><tr><td><i>probe-response</i></td><td>Probe access.</td></tr><tr><td><i>fabric</i></td><td>Security Fabric access.</td></tr><tr><td><i>ftm</i></td><td>FTM access.</td></tr><tr><td><i>speed-test</i></td><td>Speed test access.</td></tr></table>	Option	Description	<i>ping</i>	PING access.	<i>https</i>	HTTPS access.	<i>ssh</i>	SSH access.	<i>snmp</i>	SNMP access.	<i>http</i>	HTTP access.	<i>telnet</i>	TELNET access.	<i>fgfm</i>	FortiManager access.	<i>radius-acct</i>	RADIUS accounting access.	<i>probe-response</i>	Probe access.	<i>fabric</i>	Security Fabric access.	<i>ftm</i>	FTM access.	<i>speed-test</i>	Speed test access.			
	Option	Description																												
	<i>ping</i>	PING access.																												
	<i>https</i>	HTTPS access.																												
	<i>ssh</i>	SSH access.																												
	<i>snmp</i>	SNMP access.																												
	<i>http</i>	HTTP access.																												
	<i>telnet</i>	TELNET access.																												
	<i>fgfm</i>	FortiManager access.																												
	<i>radius-acct</i>	RADIUS accounting access.																												
	<i>probe-response</i>	Probe access.																												
	<i>fabric</i>	Security Fabric access.																												
	<i>ftm</i>	FTM access.																												
<i>speed-test</i>	Speed test access.																													
gwdetect	Enable/disable detect gateway alive for first.	option	-	disable																										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable detect gateway alive for first.</td></tr><tr><td><i>disable</i></td><td>Disable detect gateway alive for first.</td></tr></table>	Option	Description	<i>enable</i>	Enable detect gateway alive for first.	<i>disable</i>	Disable detect gateway alive for first.																							
	Option	Description																												
	<i>enable</i>	Enable detect gateway alive for first.																												
<i>disable</i>	Disable detect gateway alive for first.																													

Parameter	Description	Type	Size	Default								
ping-serv-status	PING server status.	integer	Minimum value: 0 Maximum value: 255	0								
detectserver	Gateway's ping server for this IP.	user	Not Specified									
detectprotocol	Protocols used to detect the server.	option	-	ping								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>ping</i></td><td>PING.</td></tr><tr><td><i>tcp-echo</i></td><td>TCP echo.</td></tr><tr><td><i>udp-echo</i></td><td>UDP echo.</td></tr></table>	Option	Description	<i>ping</i>	PING.	<i>tcp-echo</i>	TCP echo.	<i>udp-echo</i>	UDP echo.			
Option	Description											
<i>ping</i>	PING.											
<i>tcp-echo</i>	TCP echo.											
<i>udp-echo</i>	UDP echo.											
ha-priority	HA election priority for the PING server.	integer	Minimum value: 1 Maximum value: 50	1								
fail-detect	Enable/disable fail detection features for this interface.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable interface failed option status.</td></tr><tr><td><i>disable</i></td><td>Disable interface failed option status.</td></tr></table>	Option	Description	<i>enable</i>	Enable interface failed option status.	<i>disable</i>	Disable interface failed option status.					
Option	Description											
<i>enable</i>	Enable interface failed option status.											
<i>disable</i>	Disable interface failed option status.											
fail-detect-option	Options for detecting that this interface has failed.	option	-	link-down								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>detectserver</i></td><td>Use a ping server to determine if the interface has failed.</td></tr><tr><td><i>link-down</i></td><td>Use port detection to determine if the interface has failed.</td></tr></table>	Option	Description	<i>detectserver</i>	Use a ping server to determine if the interface has failed.	<i>link-down</i>	Use port detection to determine if the interface has failed.					
Option	Description											
<i>detectserver</i>	Use a ping server to determine if the interface has failed.											
<i>link-down</i>	Use port detection to determine if the interface has failed.											
fail-alert-method	Select link-failed-signal or link-down method to alert about a failed link.	option	-	link-down								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>link-failed-signal</i></td><td>Link-failed-signal.</td></tr><tr><td><i>link-down</i></td><td>Link-down.</td></tr></table>	Option	Description	<i>link-failed-signal</i>	Link-failed-signal.	<i>link-down</i>	Link-down.					
Option	Description											
<i>link-failed-signal</i>	Link-failed-signal.											
<i>link-down</i>	Link-down.											
fail-action-on-extender	Action on FortiExtender when interface fail.	option	-	soft-restart								

Parameter	Description	Type	Size	Default																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>soft-restart</i></td><td>Soft-restart-on-extender.</td></tr><tr><td><i>hard-restart</i></td><td>Hard-restart-on-extender.</td></tr><tr><td><i>reboot</i></td><td>Reboot-on-extender.</td></tr></table>	Option	Description	<i>soft-restart</i>	Soft-restart-on-extender.	<i>hard-restart</i>	Hard-restart-on-extender.	<i>reboot</i>	Reboot-on-extender.													
	Option	Description																				
	<i>soft-restart</i>	Soft-restart-on-extender.																				
	<i>hard-restart</i>	Hard-restart-on-extender.																				
<i>reboot</i>	Reboot-on-extender.																					
fail-alert-interfaces <name>	Names of the FortiProxy interfaces to which the link failure alert is sent. Names of the non-virtual interface.	string	Maximum length: 15																			
dhcp-client-identifier	DHCP client identifier.	string	Maximum length: 48																			
dhcp-renew-time	DHCP renew time in seconds (300-604800), 0 means use the renew time provided by the server.	integer	Minimum value: 300 Maximum value: 604800	0																		
ipunnumbered	Unnumbered IP used for PPPoE interfaces for which no unique local address is provided.	ipv4-address	Not Specified	0.0.0.0																		
username	Username of the PPPoE account, provided by your ISP.	string	Maximum length: 64																			
pppoe-egress-cos	CoS in VLAN tag for outgoing PPPoE/PPP packets.	option	-	cos0																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>cos0</i></td><td>CoS 0.</td></tr><tr><td><i>cos1</i></td><td>CoS 1.</td></tr><tr><td><i>cos2</i></td><td>CoS 2.</td></tr><tr><td><i>cos3</i></td><td>CoS 3.</td></tr><tr><td><i>cos4</i></td><td>CoS 4.</td></tr><tr><td><i>cos5</i></td><td>CoS 5.</td></tr><tr><td><i>cos6</i></td><td>CoS 6.</td></tr><tr><td><i>cos7</i></td><td>CoS 7.</td></tr></table>	Option	Description	<i>cos0</i>	CoS 0.	<i>cos1</i>	CoS 1.	<i>cos2</i>	CoS 2.	<i>cos3</i>	CoS 3.	<i>cos4</i>	CoS 4.	<i>cos5</i>	CoS 5.	<i>cos6</i>	CoS 6.	<i>cos7</i>	CoS 7.			
	Option	Description																				
	<i>cos0</i>	CoS 0.																				
	<i>cos1</i>	CoS 1.																				
	<i>cos2</i>	CoS 2.																				
	<i>cos3</i>	CoS 3.																				
	<i>cos4</i>	CoS 4.																				
	<i>cos5</i>	CoS 5.																				
	<i>cos6</i>	CoS 6.																				
<i>cos7</i>	CoS 7.																					
pppoe-unnumbered-negotiate	Enable/disable PPPoE unnumbered negotiation.	option	-	enable																		

Parameter	Description	Type	Size	Default						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable IP address negotiating for unnumbered.</td></tr><tr><td><i>disable</i></td><td>Disable IP address negotiating for unnumbered.</td></tr></table>	Option	Description	<i>enable</i>	Enable IP address negotiating for unnumbered.	<i>disable</i>	Disable IP address negotiating for unnumbered.			
	Option	Description								
	<i>enable</i>	Enable IP address negotiating for unnumbered.								
<i>disable</i>	Disable IP address negotiating for unnumbered.									
password	PPPoE account's password.	password	Not Specified							
idle-timeout	PPPoE auto disconnect after idle timeout seconds, 0 means no timeout.	integer	Minimum value: 0 Maximum value: 32767	0						
detected-peer-mtu	MTU of detected peer (0 - 4294967295).	integer	Minimum value: 0 Maximum value: 4294967295	0						
disc-retry-timeout	Time in seconds to wait before retrying to start a PPPoE discovery, 0 means no timeout.	integer	Minimum value: 0 Maximum value: 4294967295	1						
padt-retry-timeout	PPPoE Active Discovery Terminate (PADT) used to terminate sessions after an idle time.	integer	Minimum value: 0 Maximum value: 4294967295	1						
service-name	PPPoE service name.	string	Maximum length: 63							
ac-name	PPPoE server name.	string	Maximum length: 63							
lcp-echo-interval	Time in seconds between PPPoE Link Control Protocol (LCP) echo requests.	integer	Minimum value: 0 Maximum value: 32767	5						
lcp-max-echo-fails	Maximum missed LCP echo messages before disconnect.	integer	Minimum value: 0 Maximum value: 32767	3						
defaultgw	Enable to get the gateway IP from the DHCP or PPPoE server.	option	-	enable						

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable default gateway.		
	<i>disable</i>	Disable default gateway.		
dns-server-override	Enable/disable use DNS acquired by DHCP or PPPoE.	option	-	enable
	Option	Description		
	<i>enable</i>	Use DNS acquired by DHCP or PPPoE.		
	<i>disable</i>	No not use DNS acquired by DHCP or PPPoE.		
dns-server-protocol	DNS transport protocols.	option	-	cleartext
	Option	Description		
	<i>cleartext</i>	DNS over UDP/53, DNS over TCP/53.		
	<i>dot</i>	DNS over TLS/853.		
	<i>doh</i>	DNS over HTTPS/443.		
auth-type	PPP authentication type to use.	option	-	auto
	Option	Description		
	<i>auto</i>	Automatically choose authentication.		
	<i>pap</i>	PAP authentication.		
	<i>chap</i>	CHAP authentication.		
	<i>mschapv1</i>	MS-CHAPv1 authentication.		
	<i>mschapv2</i>	MS-CHAPv2 authentication.		
pptp-client	Enable/disable PPTP client.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable PPTP client.		
	<i>disable</i>	Disable PPTP client.		
pptp-user	PPTP user name.	string	Maximum length: 64	
pptp-password	PPTP password.	password	Not Specified	

Parameter	Description	Type	Size	Default												
pptp-server-ip	PPTP server IP address.	ipv4-address	Not Specified	0.0.0.0												
pptp-auth-type	PPTP authentication type.	option	-	auto												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>auto</td><td>Automatically choose authentication.</td></tr><tr><td>pap</td><td>PAP authentication.</td></tr><tr><td>chap</td><td>CHAP authentication.</td></tr><tr><td>mschapv1</td><td>MS-CHAPv1 authentication.</td></tr><tr><td>mschapv2</td><td>MS-CHAPv2 authentication.</td></tr></table>	Option	Description	auto	Automatically choose authentication.	pap	PAP authentication.	chap	CHAP authentication.	mschapv1	MS-CHAPv1 authentication.	mschapv2	MS-CHAPv2 authentication.			
Option	Description															
auto	Automatically choose authentication.															
pap	PAP authentication.															
chap	CHAP authentication.															
mschapv1	MS-CHAPv1 authentication.															
mschapv2	MS-CHAPv2 authentication.															
pptp-timeout	Idle timer in minutes (0 for disabled).	integer	Minimum value: 0 Maximum value: 65535	0												
arpforward	Enable/disable ARP forwarding.	option	-	enable												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable ARP forwarding.</td></tr><tr><td>disable</td><td>Disable ARP forwarding.</td></tr></table>	Option	Description	enable	Enable ARP forwarding.	disable	Disable ARP forwarding.									
Option	Description															
enable	Enable ARP forwarding.															
disable	Disable ARP forwarding.															
broadcast-forward	Enable/disable broadcast forwarding.	option	-	disable												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable broadcast forwarding.</td></tr><tr><td>disable</td><td>Disable broadcast forwarding.</td></tr></table>	Option	Description	enable	Enable broadcast forwarding.	disable	Disable broadcast forwarding.									
Option	Description															
enable	Enable broadcast forwarding.															
disable	Disable broadcast forwarding.															
bfd	Bidirectional Forwarding Detection (BFD) settings.	option	-	global												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>global</td><td>BFD behavior of this interface will be based on global configuration.</td></tr><tr><td>enable</td><td>Enable BFD on this interface and ignore global configuration.</td></tr><tr><td>disable</td><td>Disable BFD on this interface and ignore global configuration.</td></tr></table>	Option	Description	global	BFD behavior of this interface will be based on global configuration.	enable	Enable BFD on this interface and ignore global configuration.	disable	Disable BFD on this interface and ignore global configuration.							
Option	Description															
global	BFD behavior of this interface will be based on global configuration.															
enable	Enable BFD on this interface and ignore global configuration.															
disable	Disable BFD on this interface and ignore global configuration.															
bfd-desired-min-tx	BFD desired minimal transmit interval.	integer	Minimum value: 1 Maximum value: 100000	250												

Parameter	Description	Type	Size	Default								
bfd-detect-mult	BFD detection multiplier.	integer	Minimum value: 1 Maximum value: 50	3								
bfd-required-min-rx	BFD required minimal receive interval.	integer	Minimum value: 1 Maximum value: 100000	250								
l2forward	Enable/disable l2 forwarding.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable L2 forwarding.</td></tr><tr><td>disable</td><td>Disable L2 forwarding.</td></tr></table>	Option	Description	enable	Enable L2 forwarding.	disable	Disable L2 forwarding.					
Option	Description											
enable	Enable L2 forwarding.											
disable	Disable L2 forwarding.											
icmp-send-redirect	Enable/disable sending of ICMP redirects.	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable sending of ICMP redirects.</td></tr><tr><td>disable</td><td>Disable sending of ICMP redirects.</td></tr></table>	Option	Description	enable	Enable sending of ICMP redirects.	disable	Disable sending of ICMP redirects.					
Option	Description											
enable	Enable sending of ICMP redirects.											
disable	Disable sending of ICMP redirects.											
icmp-accept-redirect	Enable/disable ICMP accept redirect.	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable ICMP accept redirect.</td></tr><tr><td>disable</td><td>Disable ICMP accept redirect.</td></tr></table>	Option	Description	enable	Enable ICMP accept redirect.	disable	Disable ICMP accept redirect.					
Option	Description											
enable	Enable ICMP accept redirect.											
disable	Disable ICMP accept redirect.											
stpforward	Enable/disable STP forwarding.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable STP forwarding.</td></tr><tr><td>disable</td><td>Disable STP forwarding.</td></tr></table>	Option	Description	enable	Enable STP forwarding.	disable	Disable STP forwarding.					
Option	Description											
enable	Enable STP forwarding.											
disable	Disable STP forwarding.											
stpforward-mode	Configure STP forwarding mode.	option	-	rpl-all-ext-id								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>rpl-all-ext-id</td><td>Replace all extension IDs (root, bridge).</td></tr><tr><td>rpl-bridge-ext-id</td><td>Replace the bridge extension ID only.</td></tr><tr><td>rpl-nothing</td><td>Replace nothing.</td></tr></table>	Option	Description	rpl-all-ext-id	Replace all extension IDs (root, bridge).	rpl-bridge-ext-id	Replace the bridge extension ID only.	rpl-nothing	Replace nothing.			
Option	Description											
rpl-all-ext-id	Replace all extension IDs (root, bridge).											
rpl-bridge-ext-id	Replace the bridge extension ID only.											
rpl-nothing	Replace nothing.											

Parameter	Description	Type	Size	Default																												
macaddr	Change the interface's MAC address.	mac-address	Not Specified	00:00:00:00:00:00																												
substitute-dst-mac	Destination MAC address that all packets are sent to from this interface.	mac-address	Not Specified	00:00:00:00:00:00																												
large-receive-offload	Enable/disable large-receive-offload.	option	-	disable																												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable large-receive-offload.</td></tr><tr><td><i>disable</i></td><td>Disable large-receive-offload.</td></tr></table>	Option	Description	<i>enable</i>	Enable large-receive-offload.	<i>disable</i>	Disable large-receive-offload.																									
Option	Description																															
<i>enable</i>	Enable large-receive-offload.																															
<i>disable</i>	Disable large-receive-offload.																															
generic-receive-offload	Enable/disable generic-receive-offload.	option	-	disable																												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable generic-receive-offload.</td></tr><tr><td><i>disable</i></td><td>Disable generic-receive-offload.</td></tr></table>	Option	Description	<i>enable</i>	Enable generic-receive-offload.	<i>disable</i>	Disable generic-receive-offload.																									
Option	Description																															
<i>enable</i>	Enable generic-receive-offload.																															
<i>disable</i>	Disable generic-receive-offload.																															
speed	Interface speed. The default setting and the options available depend on the interface hardware.	option	-	auto																												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>auto</i></td><td>Automatically adjust speed.</td></tr><tr><td><i>10full</i></td><td>10M full-duplex.</td></tr><tr><td><i>10half</i></td><td>10M half-duplex.</td></tr><tr><td><i>100full</i></td><td>100M full-duplex.</td></tr><tr><td><i>100half</i></td><td>100M half-duplex.</td></tr><tr><td><i>100auto</i></td><td>100M auto-negotiation.</td></tr><tr><td><i>1000full</i></td><td>1000M full-duplex.</td></tr><tr><td><i>1000auto</i></td><td>1000M auto adjust.</td></tr><tr><td><i>2500auto</i></td><td>2500M auto-negotiation.</td></tr><tr><td><i>5000auto</i></td><td>5000M auto-negotiation.</td></tr><tr><td><i>50000full</i></td><td>50G full-duplex.</td></tr><tr><td><i>50000auto</i></td><td>50G auto-negotiation.</td></tr><tr><td><i>200Gfull</i></td><td>200G full-duplex.</td></tr></table>	Option	Description	<i>auto</i>	Automatically adjust speed.	<i>10full</i>	10M full-duplex.	<i>10half</i>	10M half-duplex.	<i>100full</i>	100M full-duplex.	<i>100half</i>	100M half-duplex.	<i>100auto</i>	100M auto-negotiation.	<i>1000full</i>	1000M full-duplex.	<i>1000auto</i>	1000M auto adjust.	<i>2500auto</i>	2500M auto-negotiation.	<i>5000auto</i>	5000M auto-negotiation.	<i>50000full</i>	50G full-duplex.	<i>50000auto</i>	50G auto-negotiation.	<i>200Gfull</i>	200G full-duplex.			
Option	Description																															
<i>auto</i>	Automatically adjust speed.																															
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<i>200Gfull</i>	200G full-duplex.																															

Parameter	Description	Type	Size	Default																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>200Gauto</i></td><td>200G auto-negotiation.</td></tr></table>	Option	Description	<i>200Gauto</i>	200G auto-negotiation.																	
	Option	Description																				
<i>200Gauto</i>	200G auto-negotiation.																					
status	Bring the interface up or shut the interface down.	option	-	up																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>up</i></td><td>Bring the interface up.</td></tr><tr><td><i>down</i></td><td>Shut the interface down.</td></tr></table>	Option	Description	<i>up</i>	Bring the interface up.	<i>down</i>	Shut the interface down.															
	Option	Description																				
	<i>up</i>	Bring the interface up.																				
<i>down</i>	Shut the interface down.																					
netbios-forward	Enable/disable NETBIOS forwarding.	option	-	disable																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable NETBIOS forwarding.</td></tr><tr><td><i>enable</i></td><td>Enable NETBIOS forwarding.</td></tr></table>	Option	Description	<i>disable</i>	Disable NETBIOS forwarding.	<i>enable</i>	Enable NETBIOS forwarding.															
	Option	Description																				
	<i>disable</i>	Disable NETBIOS forwarding.																				
<i>enable</i>	Enable NETBIOS forwarding.																					
wins-ip	WINS server IP.	ipv4-address	Not Specified	0.0.0.0																		
type	Interface type.	option	-	vlan																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>physical</i></td><td>Physical interface.</td></tr><tr><td><i>vlan</i></td><td>VLAN interface.</td></tr><tr><td><i>aggregate</i></td><td>Aggregate interface.</td></tr><tr><td><i>redundant</i></td><td>Redundant interface.</td></tr><tr><td><i>tunnel</i></td><td>Tunnel interface.</td></tr><tr><td><i>loopback</i></td><td>Loopback interface.</td></tr><tr><td><i>vdom-link</i></td><td>VDOM link interface.</td></tr><tr><td><i>vxlan</i></td><td>VXLAN interface.</td></tr></table>	Option	Description	<i>physical</i>	Physical interface.	<i>vlan</i>	VLAN interface.	<i>aggregate</i>	Aggregate interface.	<i>redundant</i>	Redundant interface.	<i>tunnel</i>	Tunnel interface.	<i>loopback</i>	Loopback interface.	<i>vdom-link</i>	VDOM link interface.	<i>vxlan</i>	VXLAN interface.			
	Option	Description																				
	<i>physical</i>	Physical interface.																				
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	<i>loopback</i>	Loopback interface.																				
<i>vdom-link</i>	VDOM link interface.																					
<i>vxlan</i>	VXLAN interface.																					
dedicated-to	Configure interface for single purpose.	option	-	none																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>none</i></td><td>Interface not dedicated for any purpose.</td></tr><tr><td><i>management</i></td><td>Dedicate this interface for management purposes only.</td></tr></table>	Option	Description	<i>none</i>	Interface not dedicated for any purpose.	<i>management</i>	Dedicate this interface for management purposes only.															
	Option	Description																				
	<i>none</i>	Interface not dedicated for any purpose.																				
<i>management</i>	Dedicate this interface for management purposes only.																					

Parameter	Description	Type	Size	Default						
trust-ip-1	Trusted host for dedicated management traffic (0.0.0.0/24 for all hosts).	ipv4-classnet-any	Not Specified	0.0.0.0 0.0.0.0						
trust-ip-2	Trusted host for dedicated management traffic (0.0.0.0/24 for all hosts).	ipv4-classnet-any	Not Specified	0.0.0.0 0.0.0.0						
trust-ip-3	Trusted host for dedicated management traffic (0.0.0.0/24 for all hosts).	ipv4-classnet-any	Not Specified	0.0.0.0 0.0.0.0						
trust-ip6-1	Trusted IPv6 host for dedicated management traffic (::/0 for all hosts).	ipv6-prefix	Not Specified	::/0						
trust-ip6-2	Trusted IPv6 host for dedicated management traffic (::/0 for all hosts).	ipv6-prefix	Not Specified	::/0						
trust-ip6-3	Trusted IPv6 host for dedicated management traffic (::/0 for all hosts).	ipv6-prefix	Not Specified	::/0						
ring-rx	RX ring size.	integer	Minimum value: 0 Maximum value: 4294967295	0						
ring-tx	TX ring size.	integer	Minimum value: 0 Maximum value: 4294967295	0						
wccp	Enable/disable WCCP on this interface. Used for encapsulated WCCP communication between WCCP clients and servers.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable WCCP protocol on this interface.</td></tr><tr><td>disable</td><td>Disable WCCP protocol on this interface.</td></tr></table>				Option	Description	enable	Enable WCCP protocol on this interface.	disable	Disable WCCP protocol on this interface.
Option	Description									
enable	Enable WCCP protocol on this interface.									
disable	Disable WCCP protocol on this interface.									
drop-overlapped-fragment	Enable/disable drop overlapped fragment packets.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable drop of overlapped fragment packets.</td></tr><tr><td>disable</td><td>Disable drop of overlapped fragment packets.</td></tr></table>				Option	Description	enable	Enable drop of overlapped fragment packets.	disable	Disable drop of overlapped fragment packets.
Option	Description									
enable	Enable drop of overlapped fragment packets.									
disable	Disable drop of overlapped fragment packets.									

Parameter	Description	Type	Size	Default						
drop-fragment	Enable/disable drop fragment packets.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable/disable drop fragment packets.</td></tr><tr><td><i>disable</i></td><td>Do not drop fragment packets.</td></tr></table>	Option	Description	<i>enable</i>	Enable/disable drop fragment packets.	<i>disable</i>	Do not drop fragment packets.			
Option	Description									
<i>enable</i>	Enable/disable drop fragment packets.									
<i>disable</i>	Do not drop fragment packets.									
src-check	Enable/disable source IP check.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable source IP check.</td></tr><tr><td><i>disable</i></td><td>Disable source IP check.</td></tr></table>	Option	Description	<i>enable</i>	Enable source IP check.	<i>disable</i>	Disable source IP check.			
Option	Description									
<i>enable</i>	Enable source IP check.									
<i>disable</i>	Disable source IP check.									
explicit-web-proxy	Enable/disable the explicit web proxy on this interface.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable explicit Web proxy on this interface.</td></tr><tr><td><i>disable</i></td><td>Disable explicit Web proxy on this interface.</td></tr></table>	Option	Description	<i>enable</i>	Enable explicit Web proxy on this interface.	<i>disable</i>	Disable explicit Web proxy on this interface.			
Option	Description									
<i>enable</i>	Enable explicit Web proxy on this interface.									
<i>disable</i>	Disable explicit Web proxy on this interface.									
explicit-ftp-proxy	Enable/disable the explicit FTP proxy on this interface.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable explicit FTP proxy on this interface.</td></tr><tr><td><i>disable</i></td><td>Disable explicit FTP proxy on this interface.</td></tr></table>	Option	Description	<i>enable</i>	Enable explicit FTP proxy on this interface.	<i>disable</i>	Disable explicit FTP proxy on this interface.			
Option	Description									
<i>enable</i>	Enable explicit FTP proxy on this interface.									
<i>disable</i>	Disable explicit FTP proxy on this interface.									
proxy-captive-portal	Enable/disable proxy captive portal on this interface.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable proxy captive portal on this interface.</td></tr><tr><td><i>disable</i></td><td>Disable proxy captive portal on this interface.</td></tr></table>	Option	Description	<i>enable</i>	Enable proxy captive portal on this interface.	<i>disable</i>	Disable proxy captive portal on this interface.			
Option	Description									
<i>enable</i>	Enable proxy captive portal on this interface.									
<i>disable</i>	Disable proxy captive portal on this interface.									
tcp-mss	TCP maximum segment size. 0 means do not change segment size.	integer	Minimum value: 48 Maximum value: 65535	0						
inbandwidth	Bandwidth limit for incoming traffic (0 - 80000000 kbps), 0 means unlimited.	integer	Minimum value: 0 Maximum value: 80000000	0						

Parameter	Description	Type	Size	Default						
outbandwidth	Bandwidth limit for outgoing traffic (0 - 80000000 kbps).	integer	Minimum value: 0 Maximum value: 80000000	0						
egress-shaping-profile	Outgoing traffic shaping profile.	string	Maximum length: 35							
ingress-shaping-profile	Incoming traffic shaping profile.	string	Maximum length: 35							
spillover-threshold	Egress Spillover threshold (0 - 16776000 kbps), 0 means unlimited.	integer	Minimum value: 0 Maximum value: 16776000	0						
ingress-spillover-threshold	Ingress Spillover threshold (0 - 16776000 kbps), 0 means unlimited.	integer	Minimum value: 0 Maximum value: 16776000	0						
weight	Default weight for static routes (if route has no weight configured).	integer	Minimum value: 0 Maximum value: 255	0						
interface	Interface name.	string	Maximum length: 15							
external	Enable/disable identifying the interface as an external interface (which usually means it's connected to the Internet).	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable identifying the interface as an external interface.</td></tr><tr><td><i>disable</i></td><td>Disable identifying the interface as an external interface.</td></tr></table>				Option	Description	<i>enable</i>	Enable identifying the interface as an external interface.	<i>disable</i>	Disable identifying the interface as an external interface.
Option	Description									
<i>enable</i>	Enable identifying the interface as an external interface.									
<i>disable</i>	Disable identifying the interface as an external interface.									
mtu-override	Enable to set a custom MTU for this interface.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Override default MTU.</td></tr><tr><td><i>disable</i></td><td>Use default MTU.</td></tr></table>				Option	Description	<i>enable</i>	Override default MTU.	<i>disable</i>	Use default MTU.
Option	Description									
<i>enable</i>	Override default MTU.									
<i>disable</i>	Use default MTU.									

Parameter	Description	Type	Size	Default						
mtu	MTU value for this interface.	integer	Minimum value: 0 Maximum value: 4294967295	1500						
vlan-protocol	Ethernet protocol of VLAN.	option	-	8021q						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>8021q</td><td>IEEE 802.1Q.</td></tr><tr><td>8021ad</td><td>IEEE 802.1AD.</td></tr></table>	Option	Description	8021q	IEEE 802.1Q.	8021ad	IEEE 802.1AD.			
Option	Description									
8021q	IEEE 802.1Q.									
8021ad	IEEE 802.1AD.									
vlanid	VLAN ID (1 - 4094).	integer	Minimum value: 1 Maximum value: 4094	0						
forward-domain	Transparent mode forward domain.	integer	Minimum value: 1 Maximum value: 4094	1						
remote-ip	Remote IP address of tunnel.	ipv4-classnet-host	Not Specified	0.0.0.0 0.0.0.0						
member <interface-name>	Physical interfaces that belong to the aggregate or redundant interface. Physical interface name.	string	Maximum length: 79							
lacp-mode	LACP mode.	option	-							
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>static</td><td>Use static aggregation, do not send and ignore any LACP messages.</td></tr></table>	Option	Description	static	Use static aggregation, do not send and ignore any LACP messages.					
Option	Description									
static	Use static aggregation, do not send and ignore any LACP messages.									
lacp-ha-secondary	LACP HA secondary member.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Allow HA secondary member to send/receive LACP messages.</td></tr><tr><td>disable</td><td>Block HA secondary member from sending/receiving LACP messages.</td></tr></table>	Option	Description	enable	Allow HA secondary member to send/receive LACP messages.	disable	Block HA secondary member from sending/receiving LACP messages.			
Option	Description									
enable	Allow HA secondary member to send/receive LACP messages.									
disable	Block HA secondary member from sending/receiving LACP messages.									
system-id-type	Method in which system ID is generated.	option	-	auto						

Parameter	Description	Type	Size	Default
	Option Description			
	<i>auto</i>	Use the MAC address of the first member.		
	<i>user</i>	User-defined system ID.		
system-id	Define a system ID for the aggregate interface.	mac-address	Not Specified	00:00:00:00:00:00
lacp-speed	How often the interface sends LACP messages.	option	-	slow
	Option Description			
	<i>slow</i>	Send LACP message every 30 seconds.		
	<i>fast</i>	Send LACP message every second.		
min-links	Minimum number of aggregated ports that must be up.	integer	Minimum value: 1 Maximum value: 32	1
min-links-down	Action to take when less than the configured minimum number of links are active.	option	-	operational
	Option Description			
	<i>operational</i>	Set the aggregate operationally down.		
	<i>administrative</i>	Set the aggregate administratively down.		
algorithm	Frame distribution algorithm.	option	-	L4
	Option Description			
	<i>L2</i>	Use layer 2 address for distribution.		
	<i>L3</i>	Use layer 3 address for distribution.		
	<i>L4</i>	Use layer 4 information for distribution.		
	<i>Source-MAC</i>	Use source MAC address for distribution.		
link-up-delay	Number of milliseconds to wait before considering a link is up.	integer	Minimum value: 50 Maximum value: 3600000	50
aggregate-type	Type of aggregation.	option	-	physical

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>physical</i>	Physical interface aggregation.		
	<i>vxlan</i>	VXLAN interface aggregation.		
priority-override	Enable/disable fail back to higher priority port once recovered.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable fail back to higher priority port once recovered.		
	<i>disable</i>	Disable fail back to higher priority port once recovered.		
aggregate	Aggregate interface.	string	Maximum length: 15	
redundant-interface	Redundant interface.	string	Maximum length: 15	
devindex	Device Index.	integer	Minimum value: 0 Maximum value: 4294967295	0
switch	Contained in switch.	string	Maximum length: 15	
description	Description.	var-string	Maximum length: 255	
alias	Alias will be displayed with the interface name to make it easier to distinguish.	string	Maximum length: 25	
security-mode	Turn on captive portal authentication for this interface.	option	-	none
	Option	Description		
	<i>none</i>	No security option.		
	<i>captive-portal</i>	Captive portal authentication.		
	<i>802.1X</i>	802.1X port-based authentication.		
security-mac-auth-bypass	Enable/disable MAC authentication bypass.	option	-	disable

Parameter	Description	Type	Size	Default										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>mac-auth-only</i></td><td>Enable MAC authentication bypass without EAP.</td></tr><tr><td><i>enable</i></td><td>Enable MAC authentication bypass.</td></tr><tr><td><i>disable</i></td><td>Disable MAC authentication bypass.</td></tr></table>	Option	Description	<i>mac-auth-only</i>	Enable MAC authentication bypass without EAP.	<i>enable</i>	Enable MAC authentication bypass.	<i>disable</i>	Disable MAC authentication bypass.					
	Option	Description												
	<i>mac-auth-only</i>	Enable MAC authentication bypass without EAP.												
	<i>enable</i>	Enable MAC authentication bypass.												
<i>disable</i>	Disable MAC authentication bypass.													
security-external-web	URL of external authentication web server.	var-string	Maximum length: 1023											
security-external-logout	URL of external authentication logout server.	string	Maximum length: 127											
replacemsg-override-group	Replacement message override group.	string	Maximum length: 35											
security-redirect-url	URL redirection after disclaimer/authentication.	var-string	Maximum length: 1023											
auth-cert	HTTPS server certificate.	string	Maximum length: 35											
auth-portal-addr	Address of captive portal.	string	Maximum length: 63											
security-exempt-list	Name of security-exempt-list.	string	Maximum length: 35											
security-groups<name>	User groups that can authenticate with the captive portal. Names of user groups that can authenticate with the captive portal.	string	Maximum length: 79											
ike-saml-server	Configure IKE authentication SAML server.	string	Maximum length: 35											
role	Interface role.	option	-	undefined										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>lan</i></td><td>Connected to local network of endpoints.</td></tr><tr><td><i>wan</i></td><td>Connected to Internet.</td></tr><tr><td><i>dmz</i></td><td>Connected to server zone.</td></tr><tr><td><i>undefined</i></td><td>Interface has no specific role.</td></tr></table>	Option	Description	<i>lan</i>	Connected to local network of endpoints.	<i>wan</i>	Connected to Internet.	<i>dmz</i>	Connected to server zone.	<i>undefined</i>	Interface has no specific role.			
	Option	Description												
	<i>lan</i>	Connected to local network of endpoints.												
	<i>wan</i>	Connected to Internet.												
<i>dmz</i>	Connected to server zone.													
<i>undefined</i>	Interface has no specific role.													
snmp-index	Permanent SNMP Index of the interface.	integer	Minimum value: 1 Maximum value: 2147483647	0										

Parameter	Description	Type	Size	Default
secondary-IP	Enable/disable adding a secondary IP to this interface.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable secondary IP.		
	<i>disable</i>	Disable secondary IP.		
color	Color of icon on the GUI.	integer	Minimum value: 0 Maximum value: 32	0
eap-suppliant	Enable/disable EAP-Suppliant.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable EAP Suppliant.		
	<i>disable</i>	Disable EAP Suppliant.		
eap-method	EAP method.	option	-	
	Option	Description		
	<i>tls</i>	TLS.		
	<i>peap</i>	PEAP.		
eap-identity	EAP identity.	string	Maximum length: 35	
eap-password	EAP password.	password	Not Specified	
eap-ca-cert	EAP CA certificate name.	string	Maximum length: 79	
eap-user-cert	EAP user certificate name.	string	Maximum length: 35	
default-purdue-level	default purdue level of device detected on this interface.	option	-	3
	Option	Description		
	1	Level 1 - Basic Control		
	1.5	Level 1.5		
	2	Level 2 - Area Supervisory Control		
	2.5	Level 2.5		

Parameter	Description	Type	Size	Default
	Option	Description		
	3	Level 3 - Operations & Control		
	3.5	Level 3.5		
	4	Level 4 - Business Planning & Logistics		
	5	Level 5 - Enterprise Network		
	5.5	Level 5.5		

config client-options

Parameter	Description	Type	Size	Default										
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0										
code	DHCP client option code.	integer	Minimum value: 0 Maximum value: 255	0										
type	DHCP client option type.	option	-	hex										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>hex</i></td><td>DHCP option in hex.</td></tr><tr><td><i>string</i></td><td>DHCP option in string.</td></tr><tr><td><i>ip</i></td><td>DHCP option in IP.</td></tr><tr><td><i>fqdn</i></td><td>DHCP option in domain search option format.</td></tr></table>				Option	Description	<i>hex</i>	DHCP option in hex.	<i>string</i>	DHCP option in string.	<i>ip</i>	DHCP option in IP.	<i>fqdn</i>	DHCP option in domain search option format.
	Option	Description												
	<i>hex</i>	DHCP option in hex.												
	<i>string</i>	DHCP option in string.												
	<i>ip</i>	DHCP option in IP.												
<i>fqdn</i>	DHCP option in domain search option format.													
value	DHCP client option value.	string	Maximum length: 312											
ip	DHCP option IPs.	user	Not Specified											

config phy-setting

Parameter	Description	Type	Size	Default
signal-ok-threshold-value	Signal-ok-threshold value(0 - 12).	integer	Minimum value: 0 Maximum value: 12	0

config secondaryip

Parameter	Description	Type	Size	Default																										
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0																										
ip	Secondary IP address of the interface.	ipv4-classnet-host	Not Specified	0.0.0.0 0.0.0.0																										
secip-relay-ip	DHCP relay IP address.	user	Not Specified																											
allowaccess	Management access settings for the secondary IP address.	option	-																											
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>ping</td><td>PING access.</td></tr><tr><td>https</td><td>HTTPS access.</td></tr><tr><td>ssh</td><td>SSH access.</td></tr><tr><td>snmp</td><td>SNMP access.</td></tr><tr><td>http</td><td>HTTP access.</td></tr><tr><td>telnet</td><td>TELNET access.</td></tr><tr><td>fgfm</td><td>FortiManager access.</td></tr><tr><td>radius-acct</td><td>RADIUS accounting access.</td></tr><tr><td>probe-response</td><td>Probe access.</td></tr><tr><td>fabric</td><td>Security Fabric access.</td></tr><tr><td>ftm</td><td>FTM access.</td></tr><tr><td>speed-test</td><td>Speed test access.</td></tr></table>				Option	Description	ping	PING access.	https	HTTPS access.	ssh	SSH access.	snmp	SNMP access.	http	HTTP access.	telnet	TELNET access.	fgfm	FortiManager access.	radius-acct	RADIUS accounting access.	probe-response	Probe access.	fabric	Security Fabric access.	ftm	FTM access.	speed-test	Speed test access.
	Option	Description																												
	ping	PING access.																												
	https	HTTPS access.																												
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	telnet	TELNET access.																												
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	probe-response	Probe access.																												
	fabric	Security Fabric access.																												
ftm	FTM access.																													
speed-test	Speed test access.																													
gwdetect	Enable/disable detect gateway alive for first.	option	-	disable																										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable detect gateway alive for first.</td></tr><tr><td>disable</td><td>Disable detect gateway alive for first.</td></tr></table>				Option	Description	enable	Enable detect gateway alive for first.	disable	Disable detect gateway alive for first.																				
	Option	Description																												
	enable	Enable detect gateway alive for first.																												
disable	Disable detect gateway alive for first.																													
ping-serv-status	PING server status.	integer	Minimum value: 0 Maximum value: 255	0																										

Parameter	Description	Type	Size	Default								
detectserver	Gateway's ping server for this IP.	user	Not Specified									
detectprotocol	Protocols used to detect the server.	option	-	ping								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>ping</i></td><td>PING.</td></tr><tr><td><i>tcp-echo</i></td><td>TCP echo.</td></tr><tr><td><i>udp-echo</i></td><td>UDP echo.</td></tr></table>				Option	Description	<i>ping</i>	PING.	<i>tcp-echo</i>	TCP echo.	<i>udp-echo</i>	UDP echo.
	Option	Description										
	<i>ping</i>	PING.										
	<i>tcp-echo</i>	TCP echo.										
<i>udp-echo</i>	UDP echo.											
ha-priority	HA election priority for the PING server.	integer	Minimum value: 1 Maximum value: 50	1								

config tagging

Parameter	Description	Type	Size	Default
name	Tagging entry name.	string	Maximum length: 63	
category	Tag category.	string	Maximum length: 63	
tags <name>	Tags. Tag name.	string	Maximum length: 79	

config ipv6

Parameter	Description	Type	Size	Default										
ip6-mode	Addressing mode (static, DHCP, delegated).	option	-	static										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>static</i></td><td>Static setting.</td></tr><tr><td><i>dhcp</i></td><td>DHCPv6 client mode.</td></tr><tr><td><i>pppoe</i></td><td>IPv6 over PPPoE mode.</td></tr><tr><td><i>delegated</i></td><td>IPv6 address with delegated prefix.</td></tr></table>	Option	Description	<i>static</i>	Static setting.	<i>dhcp</i>	DHCPv6 client mode.	<i>pppoe</i>	IPv6 over PPPoE mode.	<i>delegated</i>	IPv6 address with delegated prefix.			
Option	Description													
<i>static</i>	Static setting.													
<i>dhcp</i>	DHCPv6 client mode.													
<i>pppoe</i>	IPv6 over PPPoE mode.													
<i>delegated</i>	IPv6 address with delegated prefix.													
nd-mode	Neighbor discovery mode.	option	-	basic										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>basic</i></td><td>Do not support SEND.</td></tr></table>	Option	Description	<i>basic</i>	Do not support SEND.									
Option	Description													
<i>basic</i>	Do not support SEND.													

Parameter	Description	Type	Size	Default										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>SEND-compatible</i></td><td>Support SEND.</td></tr></table>	Option	Description	<i>SEND-compatible</i>	Support SEND.									
	Option	Description												
<i>SEND-compatible</i>	Support SEND.													
nd-cert	Neighbor discovery certificate.	string	Maximum length: 35											
nd-security-level	Neighbor discovery security level (0 - 7; 0 = least secure, default = 0).	integer	Minimum value: 0 Maximum value: 7	0										
nd-timestamp-delta	Neighbor discovery timestamp delta value (1 - 3600 sec; default = 300).	integer	Minimum value: 1 Maximum value: 3600	300										
nd-timestamp-fuzz	Neighbor discovery timestamp fuzz factor (1 - 60 sec; default = 1).	integer	Minimum value: 1 Maximum value: 60	1										
nd-cga-modifier	Neighbor discovery CGA modifier.	user	Not Specified											
ip6-dns-server-override	Enable/disable using the DNS server acquired by DHCP.	option	-	enable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable using the DNS server acquired by DHCP.</td></tr><tr><td><i>disable</i></td><td>Disable using the DNS server acquired by DHCP.</td></tr></table>	Option	Description	<i>enable</i>	Enable using the DNS server acquired by DHCP.	<i>disable</i>	Disable using the DNS server acquired by DHCP.							
	Option	Description												
	<i>enable</i>	Enable using the DNS server acquired by DHCP.												
<i>disable</i>	Disable using the DNS server acquired by DHCP.													
ip6-address	Primary IPv6 address prefix. Syntax: xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx/xxx.	ipv6-prefix	Not Specified	::/0										
ip6-allowaccess	Allow management access to the interface.	option	-											
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>ping</i></td><td>PING access.</td></tr><tr><td><i>https</i></td><td>HTTPS access.</td></tr><tr><td><i>ssh</i></td><td>SSH access.</td></tr><tr><td><i>snmp</i></td><td>SNMP access.</td></tr></table>	Option	Description	<i>ping</i>	PING access.	<i>https</i>	HTTPS access.	<i>ssh</i>	SSH access.	<i>snmp</i>	SNMP access.			
	Option	Description												
	<i>ping</i>	PING access.												
	<i>https</i>	HTTPS access.												
	<i>ssh</i>	SSH access.												
<i>snmp</i>	SNMP access.													

Parameter	Description	Type	Size	Default										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>http</i></td><td>HTTP access.</td></tr><tr><td><i>telnet</i></td><td>TELNET access.</td></tr><tr><td><i>fgfm</i></td><td>FortiManager access.</td></tr><tr><td><i>fabric</i></td><td>Fabric access.</td></tr></table>	Option	Description	<i>http</i>	HTTP access.	<i>telnet</i>	TELNET access.	<i>fgfm</i>	FortiManager access.	<i>fabric</i>	Fabric access.			
	Option	Description												
	<i>http</i>	HTTP access.												
	<i>telnet</i>	TELNET access.												
	<i>fgfm</i>	FortiManager access.												
<i>fabric</i>	Fabric access.													
ip6-send-adv	Enable/disable sending advertisements about the interface.	option	-	disable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable sending advertisements about this interface.</td></tr><tr><td><i>disable</i></td><td>Disable sending advertisements about this interface.</td></tr></table>	Option	Description	<i>enable</i>	Enable sending advertisements about this interface.	<i>disable</i>	Disable sending advertisements about this interface.							
	Option	Description												
	<i>enable</i>	Enable sending advertisements about this interface.												
<i>disable</i>	Disable sending advertisements about this interface.													
icmp6-send-redirect	Enable/disable sending of ICMPv6 redirects.	option	-	enable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable sending of ICMPv6 redirects.</td></tr><tr><td><i>disable</i></td><td>Disable sending of ICMPv6 redirects.</td></tr></table>	Option	Description	<i>enable</i>	Enable sending of ICMPv6 redirects.	<i>disable</i>	Disable sending of ICMPv6 redirects.							
	Option	Description												
	<i>enable</i>	Enable sending of ICMPv6 redirects.												
<i>disable</i>	Disable sending of ICMPv6 redirects.													
ip6-manage-flag	Enable/disable the managed flag.	option	-	disable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable the managed IPv6 flag.</td></tr><tr><td><i>disable</i></td><td>Disable the managed IPv6 flag.</td></tr></table>	Option	Description	<i>enable</i>	Enable the managed IPv6 flag.	<i>disable</i>	Disable the managed IPv6 flag.							
	Option	Description												
	<i>enable</i>	Enable the managed IPv6 flag.												
<i>disable</i>	Disable the managed IPv6 flag.													
ip6-other-flag	Enable/disable the other IPv6 flag.	option	-	disable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable the other IPv6 flag.</td></tr><tr><td><i>disable</i></td><td>Disable the other IPv6 flag.</td></tr></table>	Option	Description	<i>enable</i>	Enable the other IPv6 flag.	<i>disable</i>	Disable the other IPv6 flag.							
	Option	Description												
	<i>enable</i>	Enable the other IPv6 flag.												
<i>disable</i>	Disable the other IPv6 flag.													
ip6-max-interval	IPv6 maximum interval (4 to 1800 sec).	integer	Minimum value: 4 Maximum value: 1800	600										

Parameter	Description	Type	Size	Default						
ip6-min-interval	IPv6 minimum interval (3 to 1350 sec).	integer	Minimum value: 3 Maximum value: 1350	198						
ip6-link-mtu	IPv6 link MTU.	integer	Minimum value: 1280 Maximum value: 16000	0						
ra-send-mtu	Enable/disable sending link MTU in RA packet.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable sending link MTU in RA packet.</td></tr><tr><td><i>disable</i></td><td>Disable sending link MTU in RA packet.</td></tr></table>				Option	Description	<i>enable</i>	Enable sending link MTU in RA packet.	<i>disable</i>	Disable sending link MTU in RA packet.
	Option	Description								
	<i>enable</i>	Enable sending link MTU in RA packet.								
<i>disable</i>	Disable sending link MTU in RA packet.									
ip6-reachable-time	IPv6 reachable time (milliseconds; 0 means unspecified).	integer	Minimum value: 0 Maximum value: 3600000	0						
ip6-retrans-time	IPv6 retransmit time (milliseconds; 0 means unspecified).	integer	Minimum value: 0 Maximum value: 4294967295	0						
ip6-default-life	Default life (sec).	integer	Minimum value: 0 Maximum value: 9000	1800						
ip6-hop-limit	Hop limit (0 means unspecified).	integer	Minimum value: 0 Maximum value: 255	0						
autoconf	Enable/disable address auto config.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable auto-configuration.</td></tr><tr><td><i>disable</i></td><td>Disable auto-configuration.</td></tr></table>				Option	Description	<i>enable</i>	Enable auto-configuration.	<i>disable</i>	Disable auto-configuration.
	Option	Description								
	<i>enable</i>	Enable auto-configuration.								
<i>disable</i>	Disable auto-configuration.									
unique-autoconf-addr	Enable/disable unique auto config address.	option	-	disable						

Parameter	Description	Type	Size	Default
	Option Description			
	<i>enable</i>	Enable unique auto-configuration address.		
	<i>disable</i>	Disable unique auto-configuration address.		
interface-identifier	IPv6 interface identifier.	ipv6-address	Not Specified	::
ip6-prefix-mode	Assigning a prefix from DHCP or RA.	option	-	dhcp6
	Option Description			
	<i>dhcp6</i>	Use delegated prefix from a DHCPv6 client to form a delegated IPv6 address.		
	<i>ra</i>	Use prefix from RA to form a delegated IPv6 address.		
ip6-delegated-prefix-iaid	IAID of obtained delegated-prefix from the upstream interface.	integer	Minimum value: 0 Maximum value: 4294967295	0
ip6-upstream-interface	Interface name providing delegated information.	string	Maximum length: 15	
ip6-subnet	Subnet to routing prefix. Syntax: xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx/xxx.	ipv6-prefix	Not Specified	::/0
dhcp6-relay-service	Enable/disable DHCPv6 relay.	option	-	disable
	Option Description			
	<i>disable</i>	Disable DHCPv6 relay		
	<i>enable</i>	Enable DHCPv6 relay.		
dhcp6-relay-type	DHCPv6 relay type.	option	-	regular
	Option Description			
	<i>regular</i>	Regular DHCP relay.		
dhcp6-relay-source-interface	Enable/disable use of address on this interface as the source address of the relay message.	option	-	disable

Parameter	Description	Type	Size	Default								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Use address of the egress interface as source address of the relay message.</td></tr><tr><td><i>enable</i></td><td>Use address of this interface as source address of the relay message.</td></tr></table>				Option	Description	<i>disable</i>	Use address of the egress interface as source address of the relay message.	<i>enable</i>	Use address of this interface as source address of the relay message.		
	Option	Description										
	<i>disable</i>	Use address of the egress interface as source address of the relay message.										
<i>enable</i>	Use address of this interface as source address of the relay message.											
dhcp6-relay-ip	DHCPv6 relay IP address.	user	Not Specified									
dhcp6-relay-source-ip	IPv6 address used by the DHCPv6 relay as its source IP.	ipv6-address	Not Specified	::								
dhcp6-relay-interface-id	DHCPv6 relay interface ID.	string	Maximum length: 64									
dhcp6-client-options	DHCPv6 client options.	option	-									
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>rapid</i></td><td>Send rapid commit option.</td></tr><tr><td><i>iapd</i></td><td>Send including IA-PD option.</td></tr><tr><td><i>iana</i></td><td>Send including IA-NA option.</td></tr></table>				Option	Description	<i>rapid</i>	Send rapid commit option.	<i>iapd</i>	Send including IA-PD option.	<i>iana</i>	Send including IA-NA option.
	Option	Description										
	<i>rapid</i>	Send rapid commit option.										
	<i>iapd</i>	Send including IA-PD option.										
<i>iana</i>	Send including IA-NA option.											
dhcp6-prefix-delegation	Enable/disable DHCPv6 prefix delegation.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable DHCPv6 prefix delegation.</td></tr><tr><td><i>disable</i></td><td>Disable DHCPv6 prefix delegation.</td></tr></table>				Option	Description	<i>enable</i>	Enable DHCPv6 prefix delegation.	<i>disable</i>	Disable DHCPv6 prefix delegation.		
	Option	Description										
	<i>enable</i>	Enable DHCPv6 prefix delegation.										
<i>disable</i>	Disable DHCPv6 prefix delegation.											
dhcp6-information-request	Enable/disable DHCPv6 information request.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable DHCPv6 information request.</td></tr><tr><td><i>disable</i></td><td>Disable DHCPv6 information request.</td></tr></table>				Option	Description	<i>enable</i>	Enable DHCPv6 information request.	<i>disable</i>	Disable DHCPv6 information request.		
	Option	Description										
	<i>enable</i>	Enable DHCPv6 information request.										
<i>disable</i>	Disable DHCPv6 information request.											
cli-conn6-status	CLI IPv6 connection status.	integer	Minimum value: 0 Maximum value: 4294967295	0								

config ip6-extra-addr

Parameter	Description	Type	Size	Default
prefix	IPv6 address prefix.	ipv6-prefix	Not Specified	::/0

config ip6-prefix-list

Parameter	Description	Type	Size	Default
prefix	IPv6 prefix.	ipv6-network	Not Specified	::/0
autonomous-flag	Enable/disable the autonomous flag.	option	-	enable
	Option	Description		
	enable	Enable the autonomous flag.		
	disable	Disable the autonomous flag.		
onlink-flag	Enable/disable the onlink flag.	option	-	enable
	Option	Description		
	enable	Enable the onlink flag.		
	disable	Disable the onlink flag.		
valid-life-time	Valid life time (sec).	integer	Minimum value: 0 Maximum value: 4294967295	2592000
preferred-life-time	Preferred life time (sec).	integer	Minimum value: 0 Maximum value: 4294967295	604800
rdnss	Recursive DNS server option.	user	Not Specified	
dnssl <domain>	DNS search list option. Domain name.	string	Maximum length: 79	

config ip6-delegated-prefix-list

Parameter	Description	Type	Size	Default								
prefix-id	Prefix ID.	integer	Minimum value: 0 Maximum value: 4294967295	0								
upstream-interface	Name of the interface that provides delegated information.	string	Maximum length: 15									
delegated-prefix-iaid	IAID of obtained delegated-prefix from the upstream interface.	integer	Minimum value: 0 Maximum value: 4294967295	0								
autonomous-flag	Enable/disable the autonomous flag.	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable the autonomous flag.</td></tr><tr><td><i>disable</i></td><td>Disable the autonomous flag.</td></tr></table>				Option	Description	<i>enable</i>	Enable the autonomous flag.	<i>disable</i>	Disable the autonomous flag.		
Option	Description											
<i>enable</i>	Enable the autonomous flag.											
<i>disable</i>	Disable the autonomous flag.											
onlink-flag	Enable/disable the onlink flag.	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable the onlink flag.</td></tr><tr><td><i>disable</i></td><td>Disable the onlink flag.</td></tr></table>				Option	Description	<i>enable</i>	Enable the onlink flag.	<i>disable</i>	Disable the onlink flag.		
Option	Description											
<i>enable</i>	Enable the onlink flag.											
<i>disable</i>	Disable the onlink flag.											
subnet	Add subnet ID to routing prefix.	ipv6-network	Not Specified	::/0								
rdnss-service	Recursive DNS service option.	option	-	specify								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>delegated</i></td><td>Delegated RDNSS settings.</td></tr><tr><td><i>default</i></td><td>System RDNSS settings.</td></tr><tr><td><i>specify</i></td><td>Specify recursive DNS servers.</td></tr></table>				Option	Description	<i>delegated</i>	Delegated RDNSS settings.	<i>default</i>	System RDNSS settings.	<i>specify</i>	Specify recursive DNS servers.
Option	Description											
<i>delegated</i>	Delegated RDNSS settings.											
<i>default</i>	System RDNSS settings.											
<i>specify</i>	Specify recursive DNS servers.											
rdnss	Recursive DNS server option.	user	Not Specified									

config dhcp6-iapd-list

Parameter	Description	Type	Size	Default
iaid	Identity association identifier.	integer	Minimum value: 0 Maximum value: 4294967295	0
prefix-hint	DHCPv6 prefix that will be used as a hint to the upstream DHCPv6 server.	ipv6-network	Not Specified	::/0
prefix-hint-plt	DHCPv6 prefix hint preferred life time (sec), 0 means unlimited lease time.	integer	Minimum value: 0 Maximum value: 4294967295	604800
prefix-hint-vlt	DHCPv6 prefix hint valid life time (sec).	integer	Minimum value: 0 Maximum value: 4294967295	2592000

config system ipam

Configure IP address management services.

```
config system ipam
  Description: Configure IP address management services.
  set status [enable|disable]
  set server-type {option}
  set automatic-conflict-resolution [disable|enable]
  set require-subnet-size-match [disable|enable]
  set manage-lan-addresses [disable|enable]
  set manage-lan-extension-addresses [disable|enable]
  set manage-ssid-addresses [disable|enable]
  config pools
    Description: Configure IPAM pools.
    edit <name>
      set description {string}
      set subnet {ipv4-classnet}
      config exclude
        Description: Configure pool exclude subnets.
        edit <ID>
          set exclude-subnet {ipv4-classnet}
        next
      end
    next
  end
end
config rules
  Description: Configure IPAM allocation rules.
```

```

edit <name>
  set description {string}
  set device <name1>, <name2>, ...
  set interface <name1>, <name2>, ...
  set role [any|lan|...]
  set pool <name1>, <name2>, ...
  set dhcp [enable|disable]
next
end
end

```

config system ipam

Parameter	Description	Type	Size	Default						
status	Enable/disable IP address management services.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable integration with IP address management services.</td></tr><tr><td><i>disable</i></td><td>Disable integration with IP address management services.</td></tr></table>	Option	Description	<i>enable</i>	Enable integration with IP address management services.	<i>disable</i>	Disable integration with IP address management services.			
Option	Description									
<i>enable</i>	Enable integration with IP address management services.									
<i>disable</i>	Disable integration with IP address management services.									
server-type	Configure the type of IPAM server to use.	option	-	fabric-root						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>fabric-root</i></td><td>Use the IPAM server running on the Security Fabric root.</td></tr></table>	Option	Description	<i>fabric-root</i>	Use the IPAM server running on the Security Fabric root.					
Option	Description									
<i>fabric-root</i>	Use the IPAM server running on the Security Fabric root.									
automatic-conflict-resolution	Enable/disable automatic conflict resolution.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable automatic conflict resolution.</td></tr><tr><td><i>enable</i></td><td>Enable automatic conflict resolution.</td></tr></table>	Option	Description	<i>disable</i>	Disable automatic conflict resolution.	<i>enable</i>	Enable automatic conflict resolution.			
Option	Description									
<i>disable</i>	Disable automatic conflict resolution.									
<i>enable</i>	Enable automatic conflict resolution.									
require-subnet-size-match	Enable/disable reassignment of subnets to make requested and actual sizes match.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable requiring subnet sizes to match.</td></tr><tr><td><i>enable</i></td><td>Enable requiring subnet sizes to match.</td></tr></table>	Option	Description	<i>disable</i>	Disable requiring subnet sizes to match.	<i>enable</i>	Enable requiring subnet sizes to match.			
Option	Description									
<i>disable</i>	Disable requiring subnet sizes to match.									
<i>enable</i>	Enable requiring subnet sizes to match.									
manage-lan-addresses	Enable/disable default management of LAN interface addresses.	option	-	disable						

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable LAN interface address management by default.		
	<i>enable</i>	Enable LAN interface address management by default.		
manage-lan-extension-addresses	Enable/disable default management of FortiExtender LAN extension interface addresses.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable FortiExtender LAN extension interface address management by default.		
	<i>enable</i>	Enable FortiExtender LAN extension interface address management by default.		
manage-ssid-addresses	Enable/disable default management of FortiAP SSID addresses.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable FortiAP SSID address management by default.		
	<i>enable</i>	Enable FortiAP SSID address management by default.		

config pools

Parameter	Description	Type	Size	Default
name	IPAM pool name.	string	Maximum length: 79	
description	Description.	string	Maximum length: 127	
subnet	Configure IPAM pool subnet, Class A - Class B subnet.	ipv4-classnet	Not Specified	0.0.0.0 0.0.0.0

config exclude

Parameter	Description	Type	Size	Default
ID	Exclude ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
exclude-subnet	Configure subnet to exclude from the IPAM pool.	ipv4-classnet	Not Specified	0.0.0.0 0.0.0.0

config rules

Parameter	Description	Type	Size	Default												
name	IPAM rule name.	string	Maximum length: 79													
description	Description.	string	Maximum length: 127													
device <name>	Configure serial number or wildcard of FortiGate to match. FortiGate serial number or wildcard.	string	Maximum length: 79													
interface <name>	Configure name or wildcard of interface to match. Interface name or wildcard.	string	Maximum length: 79													
role	Configure role of interface to match.	option	-	any												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>any</td><td>Match any interface role.</td></tr><tr><td>lan</td><td>Match interface role lan.</td></tr><tr><td>wan</td><td>Match interface role wan.</td></tr><tr><td>dmz</td><td>Match interface role dmz.</td></tr><tr><td>undefined</td><td>Match interface role undefined.</td></tr></table>				Option	Description	any	Match any interface role.	lan	Match interface role lan.	wan	Match interface role wan.	dmz	Match interface role dmz.	undefined	Match interface role undefined.
Option	Description															
any	Match any interface role.															
lan	Match interface role lan.															
wan	Match interface role wan.															
dmz	Match interface role dmz.															
undefined	Match interface role undefined.															
pool <name>	Configure name of IPAM pool to use. IPAM pool name.	string	Maximum length: 79													
dhcp	Enable/disable DHCP server for matching IPAM interfaces.	option	-	disable												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable DHCP server on matched IPAM interface.</td></tr><tr><td>disable</td><td>Disable DHCP server on matched IPAM interface.</td></tr></table>				Option	Description	enable	Enable DHCP server on matched IPAM interface.	disable	Disable DHCP server on matched IPAM interface.						
Option	Description															
enable	Enable DHCP server on matched IPAM interface.															
disable	Disable DHCP server on matched IPAM interface.															

config system ips

Configure IPS system settings.

```
config system ips
    Description: Configure IPS system settings.
    set signature-hold-time {user}
    set override-signature-hold-by-id [enable|disable]
end
```

config system ips

Parameter	Description	Type	Size	Default
signature-hold-time	Time to hold and monitor IPS signatures. Format <#d##h> (day range: 0 - 7, hour range: 0 - 23, max hold time: 7d0h, default hold time: 0d0h).	user	Not Specified	0h
override-signature-hold-by-id	Enable/disable override of hold of triggering signatures that are specified by IDs regardless of hold.	option	-	enable
		Option	Description	
		enable	Allow the signatures specified by IDs to be triggered even if they are on hold.	
		disable	Do not trigger the signatures that are on hold.	

config system ips-urlfilter-dns

Configure IPS URL filter DNS servers.

```
config system ips-urlfilter-dns
  Description: Configure IPS URL filter DNS servers.
  edit <address>
    set status [enable|disable]
    set ipv6-capability [enable|disable]
  next
end
```

config system ips-urlfilter-dns

Parameter	Description	Type	Size	Default
address	DNS server IP address.	ipv4-address	Not Specified	0.0.0.0
status	Enable/disable using this DNS server for IPS URL filter DNS queries.	option	-	enable
		Option	Description	
		enable	Enable this DNS server for IPS URL filter DNS queries.	
		disable	Disable this DNS server for IPS URL filter DNS queries.	
ipv6-capability	Enable/disable this server for IPv6 queries.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		

config system ips-urlfilter-dns6

Configure IPS URL filter IPv6 DNS servers.

```
config system ips-urlfilter-dns6
    Description: Configure IPS URL filter IPv6 DNS servers.
    edit <address6>
        set status [enable|disable]
    next
end
```

config system ips-urlfilter-dns6

Parameter	Description	Type	Size	Default
address6	IPv6 address of DNS server.	ipv6-address	Not Specified	::
status	Enable/disable this server for IPv6 DNS queries.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		

config system ipv6-neighbor-cache

Configure IPv6 neighbor cache table.

```
config system ipv6-neighbor-cache
    Description: Configure IPv6 neighbor cache table.
    edit <id>
        set interface {string}
        set ipv6 {ipv6-address}
        set mac {mac-address}
    next
end
```

config system ipv6-neighbor-cache

Parameter	Description	Type	Size	Default
id	Unique integer ID of the entry.	integer	Minimum value: 0 Maximum value: 4294967295	0
interface	Select the associated interface name from available options.	string	Maximum length: 15	
ipv6	IPv6 address (format: xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx).	ipv6-address	Not Specified	::
mac	MAC address (format: xx:xx:xx:xx:xx:xx).	mac-address	Not Specified	00:00:00:00:00:00

config system ip-conflict status

List interface names and IP addresses in conflict.

```
config system ip-conflict status
    Description: List interface names and IP addresses in conflict.
end
```

config system link-monitor

Configure Link Health Monitor.

```
config system link-monitor
    Description: Configure Link Health Monitor.
    edit <name>
        set addr-mode [ipv4|ipv6]
        set srcintf {string}
        set server-config [default|individual]
        set server-type [static|dynamic]
        set server <address1>, <address2>, ...
        set protocol {option1}, {option2}, ...
        set port {integer}
        set gateway-ip {ipv4-address-any}
        set gateway-ip6 {ipv6-address}
        set route <subnet1>, <subnet2>, ...
        set source-ip {ipv4-address-any}
        set source-ip6 {ipv6-address}
        set http-get {string}
        set http-agent {string}
        set http-match {string}
        set interval {integer}
        set probe-timeout {integer}
    end
```

```

set failtime {integer}
set recoverytime {integer}
set probe-count {integer}
set security-mode [none|authentication]
set password {password}
set packet-size {integer}
set ha-priority {integer}
set fail-weight {integer}
set update-cascade-interface [enable|disable]
set update-static-route [enable|disable]
set update-policy-route [enable|disable]
set status [enable|disable]
set diffservcode {user}
set class-id {integer}
set service-detection [enable|disable]
config server-list
    Description: Servers for link-monitor to monitor.
    edit <id>
        set dst {string}
        set protocol {option1}, {option2}, ...
        set port {integer}
        set weight {integer}
    next
end
next
end

```

config system link-monitor

Parameter	Description	Type	Size	Default						
name	Link monitor name.	string	Maximum length: 35							
addr-mode	Address mode (IPv4 or IPv6).	option	-	ipv4						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>ipv4</td><td>IPv4 mode.</td></tr><tr><td>ipv6</td><td>IPv6 mode.</td></tr></table>				Option	Description	ipv4	IPv4 mode.	ipv6	IPv6 mode.
	Option	Description								
	ipv4	IPv4 mode.								
ipv6	IPv6 mode.									
srcintf	Interface that receives the traffic to be monitored.	string	Maximum length: 15							
server-config	Mode of server configuration.	option	-	default						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>default</td><td>All servers share the same attributes.</td></tr><tr><td>individual</td><td>Some attributes can be specified for individual servers.</td></tr></table>				Option	Description	default	All servers share the same attributes.	individual	Some attributes can be specified for individual servers.
	Option	Description								
	default	All servers share the same attributes.								
individual	Some attributes can be specified for individual servers.									
server-type	Server type (static or dynamic).	option	-	static						

Parameter	Description	Type	Size	Default														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>static</i></td><td>Static servers.</td></tr><tr><td><i>dynamic</i></td><td>Dynamic servers.</td></tr></table>	Option	Description	<i>static</i>	Static servers.	<i>dynamic</i>	Dynamic servers.											
	Option	Description																
	<i>static</i>	Static servers.																
<i>dynamic</i>	Dynamic servers.																	
server <address>	IP address of the server(s) to be monitored. Server address.	string	Maximum length: 79															
protocol	Protocols used to monitor the server.	option	-	ping														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>ping</i></td><td>PING link monitor.</td></tr><tr><td><i>tcp-echo</i></td><td>TCP echo link monitor.</td></tr><tr><td><i>udp-echo</i></td><td>UDP echo link monitor.</td></tr><tr><td><i>http</i></td><td>HTTP-GET link monitor.</td></tr><tr><td><i>https</i></td><td>HTTPS-GET link monitor.</td></tr><tr><td><i>twamp</i></td><td>TWAMP link monitor.</td></tr></table>	Option	Description	<i>ping</i>	PING link monitor.	<i>tcp-echo</i>	TCP echo link monitor.	<i>udp-echo</i>	UDP echo link monitor.	<i>http</i>	HTTP-GET link monitor.	<i>https</i>	HTTPS-GET link monitor.	<i>twamp</i>	TWAMP link monitor.			
	Option	Description																
	<i>ping</i>	PING link monitor.																
	<i>tcp-echo</i>	TCP echo link monitor.																
	<i>udp-echo</i>	UDP echo link monitor.																
	<i>http</i>	HTTP-GET link monitor.																
	<i>https</i>	HTTPS-GET link monitor.																
<i>twamp</i>	TWAMP link monitor.																	
port	Port number of the traffic to be used to monitor the server.	integer	Minimum value: 1 Maximum value: 65535	0														
gateway-ip	Gateway IP address used to probe the server.	ipv4- address- any	Not Specified	0.0.0.0														
gateway-ip6	Gateway IPv6 address used to probe the server.	ipv6- address	Not Specified	::														
route <subnet>	Subnet to monitor. IP and netmask (x.x.x.x/y).	string	Maximum length: 79															
source-ip	Source IP address used in packet to the server.	ipv4- address- any	Not Specified	0.0.0.0														
source-ip6	Source IPv6 address used in packet to the server.	ipv6- address	Not Specified	::														
http-get	If you are monitoring an HTML server you can send an HTTP-GET request with a custom string. Use this option to define the string.	string	Maximum length: 1024	/														
http-agent	String in the http-agent field in the HTTP header.	string	Maximum length: 1024	Chrome/ Safari/														

Parameter	Description	Type	Size	Default						
http-match	String that you expect to see in the HTTP-GET requests of the traffic to be monitored.	string	Maximum length: 1024							
interval	Detection interval in milliseconds (20 - 3600 * 1000 msec, default = 500).	integer	Minimum value: 20 Maximum value: 3600000	500						
probe-timeout	Time to wait before a probe packet is considered lost (20 - 5000 msec, default = 500).	integer	Minimum value: 20 Maximum value: 5000	500						
failtime	Number of retry attempts before the server is considered down (1 - 3600, default = 5).	integer	Minimum value: 1 Maximum value: 3600	5						
recoverytime	Number of successful responses received before server is considered recovered (1 - 3600, default = 5).	integer	Minimum value: 1 Maximum value: 3600	5						
probe-count	Number of most recent probes that should be used to calculate latency and jitter (5 - 30, default = 30).	integer	Minimum value: 5 Maximum value: 30	30						
security-mode	Twamp controller security mode.	option	-	none						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>none</i></td><td>Unauthenticated mode.</td></tr><tr><td><i>authentication</i></td><td>Authenticated mode.</td></tr></table>				Option	Description	<i>none</i>	Unauthenticated mode.	<i>authentication</i>	Authenticated mode.
Option	Description									
<i>none</i>	Unauthenticated mode.									
<i>authentication</i>	Authenticated mode.									
password	TWAMP controller password in authentication mode.	password	Not Specified							
packet-size	Packet size of a TWAMP test session (124/158 - 1024).	integer	Minimum value: 0 Maximum value: 65535	124						
ha-priority	HA election priority (1 - 50).	integer	Minimum value: 1 Maximum value: 50	1						

Parameter	Description	Type	Size	Default						
fail-weight	Threshold weight to trigger link failure alert.	integer	Minimum value: 0 Maximum value: 255	0						
update-cascade-interface	Enable/disable update cascade interface.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable update cascade interface.</td></tr><tr><td>disable</td><td>Disable update cascade interface.</td></tr></table>	Option	Description	enable	Enable update cascade interface.	disable	Disable update cascade interface.			
Option	Description									
enable	Enable update cascade interface.									
disable	Disable update cascade interface.									
update-static-route	Enable/disable updating the static route.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable updating the static route.</td></tr><tr><td>disable</td><td>Disable updating the static route.</td></tr></table>	Option	Description	enable	Enable updating the static route.	disable	Disable updating the static route.			
Option	Description									
enable	Enable updating the static route.									
disable	Disable updating the static route.									
update-policy-route	Enable/disable updating the policy route.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable updating the policy route.</td></tr><tr><td>disable</td><td>Disable updating the policy route.</td></tr></table>	Option	Description	enable	Enable updating the policy route.	disable	Disable updating the policy route.			
Option	Description									
enable	Enable updating the policy route.									
disable	Disable updating the policy route.									
status	Enable/disable this link monitor.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable this link monitor.</td></tr><tr><td>disable</td><td>Disable this link monitor.</td></tr></table>	Option	Description	enable	Enable this link monitor.	disable	Disable this link monitor.			
Option	Description									
enable	Enable this link monitor.									
disable	Disable this link monitor.									
diffservcode	Differentiated services code point (DSCP) in the IP header of the probe packet.	user	Not Specified							
class-id	Traffic class ID.	integer	Minimum value: 0 Maximum value: 4294967295	0						

Parameter	Description	Type	Size	Default
service-detection	Only use monitor to read quality values. If enabled, static routes and cascade interfaces will not be updated.	option	-	disable
	Option	Description		
	enable	Only use monitor for service-detection.		
	disable	Monitor will update routes/interfaces on link failure.		

config server-list

Parameter	Description	Type	Size	Default
id	Server ID.	integer	Minimum value: 1 Maximum value: 32	0
dst	IP address of the server to be monitored.	string	Maximum length: 64	
protocol	Protocols used to monitor the server.	option	-	ping
	Option		Description	
	<i>ping</i>	PING link monitor.		
	<i>tcp-echo</i>	TCP echo link monitor.		
	<i>udp-echo</i>	UDP echo link monitor.		
	<i>http</i>	HTTP-GET link monitor.		
	<i>https</i>	HTTPS-GET link monitor.		
	<i>twamp</i>	TWAMP link monitor.		
port	Port number of the traffic to be used to monitor the server.	integer	Minimum value: 1 Maximum value: 65535	0
weight	Weight of the monitor to this dst (0 - 255).	integer	Minimum value: 0 Maximum value: 255	0

config system management-tunnel

Management tunnel configuration.

```
config system management-tunnel
  Description: Management tunnel configuration.
  set status [enable|disable]
  set allow-config-restore [enable|disable]
  set allow-push-configuration [enable|disable]
  set allow-push-firmware [enable|disable]
  set allow-collect-statistics [enable|disable]
  set authorized-manager-only [enable|disable]
  set serial-number {user}
end
```

config system management-tunnel

Parameter	Description	Type	Size	Default						
status	Enable/disable FGFM tunnel.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable management tunnel.</td></tr><tr><td><i>disable</i></td><td>Disable management tunnel.</td></tr></table>	Option	Description	<i>enable</i>	Enable management tunnel.	<i>disable</i>	Disable management tunnel.			
Option	Description									
<i>enable</i>	Enable management tunnel.									
<i>disable</i>	Disable management tunnel.									
allow-config-restore	Enable/disable allow config restore.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable allow config restore.</td></tr><tr><td><i>disable</i></td><td>Disable allow config restore.</td></tr></table>	Option	Description	<i>enable</i>	Enable allow config restore.	<i>disable</i>	Disable allow config restore.			
Option	Description									
<i>enable</i>	Enable allow config restore.									
<i>disable</i>	Disable allow config restore.									
allow-push-configuration	Enable/disable push configuration.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable push configuration.</td></tr><tr><td><i>disable</i></td><td>Disable push configuration.</td></tr></table>	Option	Description	<i>enable</i>	Enable push configuration.	<i>disable</i>	Disable push configuration.			
Option	Description									
<i>enable</i>	Enable push configuration.									
<i>disable</i>	Disable push configuration.									
allow-push-firmware	Enable/disable push firmware.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable push firmware.</td></tr><tr><td><i>disable</i></td><td>Disable push firmware.</td></tr></table>	Option	Description	<i>enable</i>	Enable push firmware.	<i>disable</i>	Disable push firmware.			
Option	Description									
<i>enable</i>	Enable push firmware.									
<i>disable</i>	Disable push firmware.									

Parameter	Description	Type	Size	Default
allow-collect-statistics	Enable/disable collection of run time statistics.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable collection of run time statistics.		
	<i>disable</i>	Disable collection of run time statistics.		
authorized-manager-only	Enable/disable restriction of authorized manager only.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable restriction of authorized manager only.		
	<i>disable</i>	Disable restriction of authorized manager only.		
serial-number	Serial number.	user	Not Specified	

config system mgmt-csum

System checksum for FortiManager use only.

```
config system mgmt-csum
    Description: System checksum for FortiManager use only.
end
```

config system nethsm

Configure system nethsm.

```
config system nethsm
    Description: Configure system nethsm.
    set status [enable|disable]
    set vendor {option}
    set interface {string}
    set receivetimeout {integer}
    config servers
        Description: NetHSM server list.
        edit <name>
            set server {string}
            set port {integer}
            set server-cert {user}
            set ht1 [enable|disable]
        next
    end
    config slots
        Description: NetHSM slot list.
```

```

        edit <name>
            set id {integer}
            set password {password}
            set for-ha [yes|no]
        next
    end
    set ha [enable|disable]
    set ha-status-pulling-interval {integer}
    config hgroups
        Description: NetHSM HA group list.
        edit <name>
            set member <name1>, <name2>, ...
        next
    end
    set rsa-mech-remap [enable|disable]
end

```

config system nethsm

Parameter	Description	Type	Size	Default
status	Status.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable system network HSM.		
	<i>disable</i>	Disable system network HSM.		
vendor	Vendor.	option	-	SafeNet
	Option	Description		
	<i>SafeNet</i>	SafeNet		
interface	Outgoing interface	string	Maximum length: 15	
receivetimeout	Receive timeout, specified in ms (default=20000).	integer	Minimum value: 0 Maximum value: 4294967295	20000
ha	HA option (default=disable).	option	-	disable
	Option	Description		
	<i>enable</i>	Enable HA.		
	<i>disable</i>	Disable HA.		

Parameter	Description	Type	Size	Default						
ha-status-pulling-interval	Interval to pull HA status in minutes (default=1).	integer	Minimum value: 0 Maximum value: 60	1						
rsa-mech-remap	RSA Mechanism Remap option (default=disable). Enable it if Luna server is running in FIPS mode and firmware version is 6.22.* or greater.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable RSA Mechanism Remap.</td></tr><tr><td><i>disable</i></td><td>Disable RSA Mechanism Remap.</td></tr></table>				Option	Description	<i>enable</i>	Enable RSA Mechanism Remap.	<i>disable</i>	Disable RSA Mechanism Remap.
Option	Description									
<i>enable</i>	Enable RSA Mechanism Remap.									
<i>disable</i>	Disable RSA Mechanism Remap.									

config servers

Parameter	Description	Type	Size	Default						
name	NetHSM server name.	string	Maximum length: 35							
server	{<name_str ip_str>} NetHSM server domain name or IP.	string	Maximum length: 63							
port	NetHSM server port (default=1792).	integer	Minimum value: 1 Maximum value: 65535	1792						
server-cert	NetHSM server certificate.	user	Not Specified							
htl	HTL option (default=disable).	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable HTL.</td></tr><tr><td><i>disable</i></td><td>Disable HTL.</td></tr></table>				Option	Description	<i>enable</i>	Enable HTL.	<i>disable</i>	Disable HTL.
Option	Description									
<i>enable</i>	Enable HTL.									
<i>disable</i>	Disable HTL.									

config slots

Parameter	Description	Type	Size	Default
name	NetHSM slot name.	string	Maximum length: 35	

Parameter	Description	Type	Size	Default
id	NetHSM slot ID (0 - 4294967295).	integer	Minimum value: 0 Maximum value: 4294967295	0
password	NetHSM slot access password.	password	Not Specified	
for-ha	HA option.	option	-	no
	Option	Description		
	yes	HA slot.		
	no	Regular slot.		

config hagroups

Parameter	Description	Type	Size	Default
name	NetHSM HA group name.	string	Maximum length: 35	
member <name>	HA group members. NetHSM HA group member (slot names).	string	Maximum length: 79	

config system network-visibility

Configure network visibility settings.

```
config system network-visibility
    Description: Configure network visibility settings.
    set destination-visibility [disable|enable]
    set source-location [disable|enable]
    set destination-hostname-visibility [disable|enable]
    set hostname-ttl {integer}
    set hostname-limit {integer}
    set destination-location [disable|enable]
end
```

config system network-visibility

Parameter	Description	Type	Size	Default
destination-visibility	Enable/disable logging of destination visibility.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable logging of destination visibility.		
	<i>enable</i>	Enable logging of destination visibility.		
source-location	Enable/disable logging of source geographical location visibility.	option	-	enable
	Option	Description		
	<i>disable</i>	Disable logging of source geographical location visibility.		
	<i>enable</i>	Enable logging of source geographical location visibility.		
destination-hostname-visibility	Enable/disable logging of destination hostname visibility.	option	-	enable
	Option	Description		
	<i>disable</i>	Disable logging of destination hostname visibility.		
	<i>enable</i>	Enable logging of destination hostname visibility.		
hostname-ttl	TTL of hostname table entries (60 - 86400).	integer	Minimum value: 60 Maximum value: 86400	86400
hostname-limit	Limit of the number of hostname table entries (0 - 50000).	integer	Minimum value: 0 Maximum value: 50000	5000
destination-location	Enable/disable logging of destination geographical location visibility.	option	-	enable
	Option	Description		
	<i>disable</i>	Disable logging of destination geographical location visibility.		
	<i>enable</i>	Enable logging of destination geographical location visibility.		

config system ntp

Configure system NTP information.


```

config system ntp
    Description: Configure system NTP information.
    set ntpsync [enable|disable]
    set type [fortiguard|custom]
    set syncinterval {integer}
    config ntpserver
        Description: Configure the FortiProxy to connect to any available third-party NTP
server.
        edit <id>
            set server {string}
            set ntpv3 [enable|disable]
            set authentication [enable|disable]
            set key-type [MD5|SHA1|...]
            set key {password}
            set key-id {integer}
            set ip-type [IPv6|IPv4|...]
            set interface-select-method [auto|specify]
            set interface {string}
        next
    end
    set source-ip {ipv4-address}
    set source-ip6 {ipv6-address}
    set server-mode [enable|disable]
    set authentication [enable|disable]
    set key-type [MD5|SHA1|...]
    set key {password}
    set key-id {integer}
    set interface <interface-name1>, <interface-name2>, ...
end

```

config system ntp

Parameter	Description	Type	Size	Default						
ntpsync	Enable/disable setting the FortiProxy system time by synchronizing with an NTP Server.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable synchronization with NTP Server.</td></tr><tr><td><i>disable</i></td><td>Disable synchronization with NTP Server.</td></tr></table>	Option	Description	<i>enable</i>	Enable synchronization with NTP Server.	<i>disable</i>	Disable synchronization with NTP Server.			
Option	Description									
<i>enable</i>	Enable synchronization with NTP Server.									
<i>disable</i>	Disable synchronization with NTP Server.									
type	Use the FortiGuard NTP server or any other available NTP Server.	option	-	fortiguard						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>fortiguard</i></td><td>Use the FortiGuard NTP server.</td></tr><tr><td><i>custom</i></td><td>Use any other available NTP server.</td></tr></table>	Option	Description	<i>fortiguard</i>	Use the FortiGuard NTP server.	<i>custom</i>	Use any other available NTP server.			
Option	Description									
<i>fortiguard</i>	Use the FortiGuard NTP server.									
<i>custom</i>	Use any other available NTP server.									

Parameter	Description	Type	Size	Default								
syncinterval	NTP synchronization interval (1 - 1440 min).	integer	Minimum value: 1 Maximum value: 1440	60								
source-ip	Source IP address for communication to the NTP server.	ipv4-address	Not Specified	0.0.0.0								
source-ip6	Source IPv6 address for communication to the NTP server.	ipv6-address	Not Specified	::								
server-mode	Enable/disable FortiProxy NTP Server Mode. Your FortiProxy becomes an NTP server for other devices on your network. The FortiProxy relays NTP requests to its configured NTP server.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable FortiProxy NTP Server Mode.</td></tr><tr><td>disable</td><td>Disable FortiProxy NTP Server Mode.</td></tr></table>				Option	Description	enable	Enable FortiProxy NTP Server Mode.	disable	Disable FortiProxy NTP Server Mode.		
Option	Description											
enable	Enable FortiProxy NTP Server Mode.											
disable	Disable FortiProxy NTP Server Mode.											
authentication	Enable/disable authentication.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable authentication.</td></tr><tr><td>disable</td><td>Disable authentication.</td></tr></table>				Option	Description	enable	Enable authentication.	disable	Disable authentication.		
Option	Description											
enable	Enable authentication.											
disable	Disable authentication.											
key-type	Key type for authentication (MD5, SHA1, SHA256).	option	-	MD5								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>MD5</td><td>Use MD5 to authenticate the message.</td></tr><tr><td>SHA1</td><td>Use SHA1 to authenticate the message.</td></tr><tr><td>SHA256</td><td>Use SHA256 to authenticate the message.</td></tr></table>				Option	Description	MD5	Use MD5 to authenticate the message.	SHA1	Use SHA1 to authenticate the message.	SHA256	Use SHA256 to authenticate the message.
Option	Description											
MD5	Use MD5 to authenticate the message.											
SHA1	Use SHA1 to authenticate the message.											
SHA256	Use SHA256 to authenticate the message.											
key	Key for authentication.	password	Not Specified									
key-id	Key ID for authentication.	integer	Minimum value: 0 Maximum value: 4294967295	0								
interface <interface-name>	FortiProxy interface(s) with NTP server mode enabled. Devices on your network can contact these interfaces for NTP services. Interface name.	string	Maximum length: 79									

config ntpserver

Parameter	Description	Type	Size	Default								
id	NTP server ID.	integer	Minimum value: 0 Maximum value: 4294967295	0								
server	IP address or hostname of the NTP Server.	string	Maximum length: 63									
ntp3	Enable to use NTPv3 instead of NTPv4.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable NTPv3.</td></tr><tr><td><i>disable</i></td><td>Disable NTPv3 (use NTPv4).</td></tr></table>	Option	Description	<i>enable</i>	Enable NTPv3.	<i>disable</i>	Disable NTPv3 (use NTPv4).					
Option	Description											
<i>enable</i>	Enable NTPv3.											
<i>disable</i>	Disable NTPv3 (use NTPv4).											
authentication	Enable/disable authentication.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable authentication.</td></tr><tr><td><i>disable</i></td><td>Disable authentication.</td></tr></table>	Option	Description	<i>enable</i>	Enable authentication.	<i>disable</i>	Disable authentication.					
Option	Description											
<i>enable</i>	Enable authentication.											
<i>disable</i>	Disable authentication.											
key-type	Select NTP authentication type.	option	-	MD5								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>MD5</i></td><td>Enable MD5(NTPv3) authentication.</td></tr><tr><td><i>SHA1</i></td><td>Enable SHA1(NTPv4) authentication.</td></tr><tr><td><i>SHA256</i></td><td>Enable SHA256(NTPv4) authentication.</td></tr></table>	Option	Description	<i>MD5</i>	Enable MD5(NTPv3) authentication.	<i>SHA1</i>	Enable SHA1(NTPv4) authentication.	<i>SHA256</i>	Enable SHA256(NTPv4) authentication.			
Option	Description											
<i>MD5</i>	Enable MD5(NTPv3) authentication.											
<i>SHA1</i>	Enable SHA1(NTPv4) authentication.											
<i>SHA256</i>	Enable SHA256(NTPv4) authentication.											
key	Key for MD5(NTPv3)/SHA1(NTPv4)/SHA256 (NTPv4) authentication.	password	Not Specified									
key-id	Key ID for authentication.	integer	Minimum value: 0 Maximum value: 4294967295	0								
ip-type	Choose to connect to IPv4 or/and IPv6 NTP server.	option	-	Both								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>IPv6</i></td><td>Enable look up for IPv6 NTP server.</td></tr><tr><td><i>IPv4</i></td><td>Enable look up for IPv4 NTP server.</td></tr><tr><td><i>Both</i></td><td>Enable look up for both IPv4 and IPv6 NTP server.</td></tr></table>	Option	Description	<i>IPv6</i>	Enable look up for IPv6 NTP server.	<i>IPv4</i>	Enable look up for IPv4 NTP server.	<i>Both</i>	Enable look up for both IPv4 and IPv6 NTP server.			
Option	Description											
<i>IPv6</i>	Enable look up for IPv6 NTP server.											
<i>IPv4</i>	Enable look up for IPv4 NTP server.											
<i>Both</i>	Enable look up for both IPv4 and IPv6 NTP server.											

Parameter	Description	Type	Size	Default
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto
	Option	Description		
	<i>auto</i>	Set outgoing interface automatically.		
	<i>specify</i>	Set outgoing interface manually.		
interface	Specify outgoing interface to reach server.	string	Maximum length: 15	

config system object-tagging

Configure object tagging.

```

config system object-tagging
    Description: Configure object tagging.
    edit <category>
        set address [disable|mandatory|...]
        set device [disable|mandatory|...]
        set interface [disable|mandatory|...]
        set multiple [enable|disable]
        set color {integer}
        set tags <name1>, <name2>, ...
    next
end

```

config system object-tagging

Parameter	Description	Type	Size	Default
category	Tag Category.	string	Maximum length: 63	
address	Address.	option	-	optional
	Option	Description		
	<i>disable</i>	Disable.		
	<i>mandatory</i>	Mandatory.		
	<i>optional</i>	Optional.		
device	Device.	option	-	optional

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable.		
	<i>mandatory</i>	Mandatory.		
	<i>optional</i>	Optional.		
interface	Interface.	option	-	optional
	Option	Description		
	<i>disable</i>	Disable.		
	<i>mandatory</i>	Mandatory.		
	<i>optional</i>	Optional.		
multiple	Allow multiple tag selection.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable multi-tagging.		
	<i>disable</i>	Disable multi-tagging.		
color	Color of icon on the GUI.	integer	Minimum value: 0 Maximum value: 32	0
tags <name>	Tags. Tag name.	string	Maximum length: 79	

config system password-policy

Configure password policy for locally defined administrator passwords and IPsec VPN pre-shared keys.

```

config system password-policy
    Description: Configure password policy for locally defined administrator passwords and
    IPsec VPN pre-shared keys.
    set status [enable|disable]
    set apply-to {option1}, {option2}, ...
    set minimum-length {integer}
    set min-lower-case-letter {integer}
    set min-upper-case-letter {integer}
    set min-non-alphanumeric {integer}
    set min-number {integer}
    set min-change-characters {integer}
    set expire-status [enable|disable]
    set expire-day {integer}
    set reuse-password [enable|disable]

```

```

set password-history {integer}
end

```

config system password-policy

Parameter	Description	Type	Size	Default
status	Enable/disable setting a password policy for locally defined administrator passwords and IPsec VPN pre-shared keys.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable password policy.		
	<i>disable</i>	Disable password policy.		
apply-to	Apply password policy to administrator passwords or IPsec pre-shared keys or both. Separate entries with a space.	option	-	admin-password
	Option	Description		
	<i>admin-password</i>	Apply to administrator passwords.		
	<i>ipsec-preshared-key</i>	Apply to IPsec pre-shared keys.		
minimum-length	Minimum password length (8 - 128, default = 8).	integer	Minimum value: 8 Maximum value: 128	8
min-lower-case-letter	Minimum number of lowercase characters in password (0 - 128, default = 0).	integer	Minimum value: 0 Maximum value: 128	0
min-upper-case-letter	Minimum number of uppercase characters in password (0 - 128, default = 0).	integer	Minimum value: 0 Maximum value: 128	0
min-non-alphanumeric	Minimum number of non-alphanumeric characters in password (0 - 128, default = 0).	integer	Minimum value: 0 Maximum value: 128	0
min-number	Minimum number of numeric characters in password (0 - 128, default = 0).	integer	Minimum value: 0 Maximum value: 128	0

Parameter	Description	Type	Size	Default						
min-change-characters	Minimum number of unique characters in new password which do not exist in old password (0 - 128, default = 0. This attribute overrides reuse-password if both are enabled).	integer	Minimum value: 0 Maximum value: 128	0						
expire-status	Enable/disable password expiration.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Passwords expire after expire-day days.</td></tr><tr><td><i>disable</i></td><td>Passwords do not expire.</td></tr></table>	Option	Description	<i>enable</i>	Passwords expire after expire-day days.	<i>disable</i>	Passwords do not expire.			
Option	Description									
<i>enable</i>	Passwords expire after expire-day days.									
<i>disable</i>	Passwords do not expire.									
expire-day	Number of days after which passwords expire (1 - 999 days, default = 90).	integer	Minimum value: 1 Maximum value: 999	90						
reuse-password	Enable/disable reuse of password. If both reuse-password and min-change-characters are enabled, min-change-characters overrides.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Administrators are allowed to reuse the same password.</td></tr><tr><td><i>disable</i></td><td>Administrators must create a new password.</td></tr></table>	Option	Description	<i>enable</i>	Administrators are allowed to reuse the same password.	<i>disable</i>	Administrators must create a new password.			
Option	Description									
<i>enable</i>	Administrators are allowed to reuse the same password.									
<i>disable</i>	Administrators must create a new password.									
password-history	Number of previous passwords that cannot be reused.	integer	Minimum value: 2 Maximum value: 20	2						

config system password-policy-guest-admin

Configure the password policy for guest administrators.

```
config system password-policy-guest-admin
    Description: Configure the password policy for guest administrators.
    set status [enable|disable]
    set apply-to {option1}, {option2}, ...
    set minimum-length {integer}
    set min-lower-case-letter {integer}
    set min-upper-case-letter {integer}
    set min-non-alphanumeric {integer}
    set min-number {integer}
    set min-change-characters {integer}
    set expire-status [enable|disable]
    set expire-day {integer}
    set reuse-password [enable|disable]
```

```

set password-history {integer}
end

```

config system password-policy-guest-admin

Parameter	Description	Type	Size	Default						
status	Enable/disable setting a password policy for locally defined administrator passwords and IPsec VPN pre-shared keys.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable password policy.</td></tr><tr><td><i>disable</i></td><td>Disable password policy.</td></tr></table>				Option	Description	<i>enable</i>	Enable password policy.	<i>disable</i>	Disable password policy.
Option	Description									
<i>enable</i>	Enable password policy.									
<i>disable</i>	Disable password policy.									
apply-to	Guest administrator to which this password policy applies.	option	-	guest-admin-password						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>guest-admin-password</i></td><td>Apply to guest administrator password.</td></tr></table>				Option	Description	<i>guest-admin-password</i>	Apply to guest administrator password.		
Option	Description									
<i>guest-admin-password</i>	Apply to guest administrator password.									
minimum-length	Minimum password length (8 - 128, default = 8).	integer	Minimum value: 8 Maximum value: 128	8						
min-lower-case-letter	Minimum number of lowercase characters in password (0 - 128, default = 0).	integer	Minimum value: 0 Maximum value: 128	0						
min-upper-case-letter	Minimum number of uppercase characters in password (0 - 128, default = 0).	integer	Minimum value: 0 Maximum value: 128	0						
min-non-alphanumeric	Minimum number of non-alphanumeric characters in password (0 - 128, default = 0).	integer	Minimum value: 0 Maximum value: 128	0						
min-number	Minimum number of numeric characters in password (0 - 128, default = 0).	integer	Minimum value: 0 Maximum value: 128	0						

Parameter	Description	Type	Size	Default						
min-change-characters	Minimum number of unique characters in new password which do not exist in old password (0 - 128, default = 0. This attribute overrides reuse-password if both are enabled).	integer	Minimum value: 0 Maximum value: 128	0						
expire-status	Enable/disable password expiration.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Passwords expire after expire-day days.</td></tr><tr><td><i>disable</i></td><td>Passwords do not expire.</td></tr></table>	Option	Description	<i>enable</i>	Passwords expire after expire-day days.	<i>disable</i>	Passwords do not expire.			
Option	Description									
<i>enable</i>	Passwords expire after expire-day days.									
<i>disable</i>	Passwords do not expire.									
expire-day	Number of days after which passwords expire (1 - 999 days, default = 90).	integer	Minimum value: 1 Maximum value: 999	90						
reuse-password	Enable/disable reuse of password. If both reuse-password and min-change-characters are enabled, min-change-characters overrides.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Administrators are allowed to reuse the same password.</td></tr><tr><td><i>disable</i></td><td>Administrators must create a new password.</td></tr></table>	Option	Description	<i>enable</i>	Administrators are allowed to reuse the same password.	<i>disable</i>	Administrators must create a new password.			
Option	Description									
<i>enable</i>	Administrators are allowed to reuse the same password.									
<i>disable</i>	Administrators must create a new password.									
password-history	Number of previous passwords that cannot be reused.	integer	Minimum value: 2 Maximum value: 20	2						

config system performance status

System performance status.

```
config system performance status
    Description: System performance status.
end
```

config system performance top

Display information about the top CPU processes.

```
config system performance top
    Description: Display information about the top CPU processes.
    set <delay> {string}
end
```

config system performance top

Parameter	Description	Type	Size	Default
<delay>	Delay in seconds (default 5).	string	Maximum length: -	

config system probe-response

Configure system probe response.

```
config system probe-response
    Description: Configure system probe response.
    set port {integer}
    set http-probe-value {string}
    set ttl-mode [reinit|decrease|...]
    set mode [none|http-probe|...]
    set security-mode [none|authentication]
    set password {password}
    set timeout {integer}
end
```

config system probe-response

Parameter	Description	Type	Size	Default								
port	Port number to response.	integer	Minimum value: 1 Maximum value: 65535	8008								
http-probe-value	Value to respond to the monitoring server.	string	Maximum length: 1024	OK								
ttl-mode	Mode for TWAMP packet TTL modification.	option	-	retain								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>reinit</i></td><td>Reinitialize TTL.</td></tr><tr><td><i>decrease</i></td><td>Decrease TTL.</td></tr><tr><td><i>retain</i></td><td>Retain TTL.</td></tr></table>				Option	Description	<i>reinit</i>	Reinitialize TTL.	<i>decrease</i>	Decrease TTL.	<i>retain</i>	Retain TTL.
	Option	Description										
	<i>reinit</i>	Reinitialize TTL.										
	<i>decrease</i>	Decrease TTL.										
<i>retain</i>	Retain TTL.											
mode	SLA response mode.	option	-	none								

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>none</i>	Disable probe.		
	<i>http-probe</i>	HTTP probe.		
	<i>twamp</i>	Two way active measurement protocol.		
security-mode	TWAMP responder security mode.	option	-	none
	Option	Description		
	<i>none</i>	Unauthenticated mode.		
	<i>authentication</i>	Authenticated mode.		
password	TWAMP responder password in authentication mode.	password	Not Specified	
timeout	An inactivity timer for a twamp test session.	integer	Minimum value: 10 Maximum value: 3600	300

config system proxy-arp

Configure proxy-ARP.

```
config system proxy-arp
    Description: Configure proxy-ARP.
    edit <id>
        set interface {string}
        set ip {ipv4-address}
        set end-ip {ipv4-address}
    next
end
```

config system proxy-arp

Parameter	Description	Type	Size	Default
id	Unique integer ID of the entry.	integer	Minimum value: 0 Maximum value: 4294967295	0
interface	Interface acting proxy-ARP.	string	Maximum length: 15	

Parameter	Description	Type	Size	Default
ip	IP address or start IP to be proxied.	ipv4-address	Not Specified	0.0.0.0
end-ip	End IP of IP range to be proxied.	ipv4-address	Not Specified	0.0.0.0

config system ptp

Configure system PTP information.

```

config system ptp
    Description: Configure system PTP information.
    set status [enable|disable]
    set mode [multicast|hybrid]
    set delay-mechanism [E2E|P2P]
    set request-interval {integer}
    set interface {string}
    set server-mode [enable|disable]
    config server-interface
        Description: FortiGate interface(s) with PTP server mode enabled. Devices on your
network can contact these interfaces for PTP services.
        edit <id>
            set server-interface-name {string}
            set delay-mechanism [E2E|P2P]
        next
    end
end

```

config system ptp

Parameter	Description	Type	Size	Default						
status	Enable/disable setting the FortiProxy system time by synchronizing with an PTP Server.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable synchronization with PTP Server.</td></tr><tr><td><i>disable</i></td><td>Disable synchronization with PTP Server.</td></tr></table>				Option	Description	<i>enable</i>	Enable synchronization with PTP Server.	<i>disable</i>	Disable synchronization with PTP Server.
Option	Description									
<i>enable</i>	Enable synchronization with PTP Server.									
<i>disable</i>	Disable synchronization with PTP Server.									
mode	Multicast transmission or hybrid transmission.	option	-	multicast						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>multicast</i></td><td>Send PTP packets with multicast.</td></tr><tr><td><i>hybrid</i></td><td>Send PTP packets with unicast and multicast.</td></tr></table>				Option	Description	<i>multicast</i>	Send PTP packets with multicast.	<i>hybrid</i>	Send PTP packets with unicast and multicast.
Option	Description									
<i>multicast</i>	Send PTP packets with multicast.									
<i>hybrid</i>	Send PTP packets with unicast and multicast.									

Parameter	Description	Type	Size	Default
delay-mechanism	End to end delay detection or peer to peer delay detection.	option	-	E2E
	Option	Description		
	<i>E2E</i>	End to end delay detection.		
	<i>P2P</i>	Peer to peer delay detection.		
request-interval	The delay request value is the logarithmic mean interval in seconds between the delay request messages sent by the slave to the master.	integer	Minimum value: 1 Maximum value: 6	1
interface	PTP client will reply through this interface.	string	Maximum length: 15	
server-mode	Enable/disable FortiGate PTP server mode. Your FortiGate becomes an PTP server for other devices on your network.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable FortiGate PTP server mode.		
	<i>disable</i>	Disable FortiGate PTP server mode.		

config server-interface

Parameter	Description	Type	Size	Default						
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0						
server-interface-name	Interface name.	string	Maximum length: 15							
delay-mechanism	End to end delay detection or peer to peer delay detection.	option	-	E2E						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>E2E</td><td>End to end delay detection.</td></tr><tr><td>P2P</td><td>Peer to peer delay detection.</td></tr></table>				Option	Description	E2E	End to end delay detection.	P2P	Peer to peer delay detection.
Option	Description									
E2E	End to end delay detection.									
P2P	Peer to peer delay detection.									

config system replacemsg admin

Replacement messages.

```
config system replacemsg admin
  Description: Replacement messages.
  edit <msg-type>
    set buffer {var-string}
    set header [none|http|...]
    set format [none|text|...]
  next
end
```

config system replacemsg admin

Parameter	Description	Type	Size	Default
msg-type	Message type.	string	Maximum length: 28	
buffer	Message string.	var-string	Maximum length: 32768	
header	Header flag.	option	-	none
	Option	Description		
	none	No header type.		
	http	HTTP		
	8bit	8 bit.		
format	Format flag.	option	-	none
	Option	Description		
	none	No format type.		
	text	Text format.		
	html	HTML format.		

config system replacemsg alertmail

Replacement messages.

```
config system replacemsg alertmail
  Description: Replacement messages.
  edit <msg-type>
    set buffer {var-string}
```

```

        set header [none|http|...]
        set format [none|text|...]
    next
end

```

config system replacemsg alertmail

Parameter	Description	Type	Size	Default
msg-type	Message type.	string	Maximum length: 28	
buffer	Message string.	var-string	Maximum length: 32768	
header	Header flag.	option	-	none
	Option	Description		
	none	No header type.		
	http	HTTP		
	8bit	8 bit.		
format	Format flag.	option	-	none
	Option	Description		
	none	No format type.		
	text	Text format.		
	html	HTML format.		

config system replacemsg auth

Replacement messages.

```

config system replacemsg auth
    Description: Replacement messages.
    edit <msg-type>
        set buffer {var-string}
        set header [none|http|...]
        set format [none|text|...]
    next
end

```

config system replacemsg auth

Parameter	Description	Type	Size	Default								
msg-type	Message type.	string	Maximum length: 28									
buffer	Message string.	var-string	Maximum length: 32768									
header	Header flag.	option	-	none								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>none</i></td><td>No header type.</td></tr><tr><td><i>http</i></td><td>HTTP</td></tr><tr><td><i>8bit</i></td><td>8 bit.</td></tr></table>	Option	Description	<i>none</i>	No header type.	<i>http</i>	HTTP	<i>8bit</i>	8 bit.			
Option	Description											
<i>none</i>	No header type.											
<i>http</i>	HTTP											
<i>8bit</i>	8 bit.											
format	Format flag.	option	-	none								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>none</i></td><td>No format type.</td></tr><tr><td><i>text</i></td><td>Text format.</td></tr><tr><td><i>html</i></td><td>HTML format.</td></tr></table>	Option	Description	<i>none</i>	No format type.	<i>text</i>	Text format.	<i>html</i>	HTML format.			
Option	Description											
<i>none</i>	No format type.											
<i>text</i>	Text format.											
<i>html</i>	HTML format.											

config system replacemsg automation

Replacement messages.

```
config system replacemsg automation
  Description: Replacement messages.
  edit <msg-type>
    set buffer {var-string}
    set header [none|http|...]
    set format [none|text|...]
  next
end
```

config system replacemsg automation

Parameter	Description	Type	Size	Default
msg-type	Message type.	string	Maximum length: 28	

Parameter	Description	Type	Size	Default								
buffer	Message string.	var-string	Maximum length: 32768									
header	Header flag.	option	-	none								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>none</i></td><td>No header type.</td></tr><tr><td><i>http</i></td><td>HTTP</td></tr><tr><td><i>8bit</i></td><td>8 bit.</td></tr></table>				Option	Description	<i>none</i>	No header type.	<i>http</i>	HTTP	<i>8bit</i>	8 bit.
	Option	Description										
	<i>none</i>	No header type.										
	<i>http</i>	HTTP										
	<i>8bit</i>	8 bit.										
format	Format flag.	option	-	none								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>none</i></td><td>No format type.</td></tr><tr><td><i>text</i></td><td>Text format.</td></tr><tr><td><i>html</i></td><td>HTML format.</td></tr></table>				Option	Description	<i>none</i>	No format type.	<i>text</i>	Text format.	<i>html</i>	HTML format.
	Option	Description										
	<i>none</i>	No format type.										
	<i>text</i>	Text format.										
	<i>html</i>	HTML format.										

config system replacemsg custom-message

Replacement messages.

```
config system replacemsg custom-message
  Description: Replacement messages.
  edit <msg-type>
    set buffer {var-string}
    set header [none|http|...]
    set format [none|text|...]
  next
end
```

config system replacemsg custom-message

Parameter	Description	Type	Size	Default
msg-type	Message type.	string	Maximum length: 28	
buffer	Message string.	var-string	Maximum length: 32768	
header	Header flag.	option	-	none

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>none</i>	No header type.		
	<i>http</i>	HTTP		
	<i>8bit</i>	8 bit.		
format	Format flag.	option	-	none
	Option	Description		
	<i>none</i>	No format type.		
	<i>text</i>	Text format.		
	<i>html</i>	HTML format.		

config system replacemsg fortiguard-wf

Replacement messages.

```
config system replacemsg fortiguard-wf
    Description: Replacement messages.
    edit <msg-type>
        set buffer {var-string}
        set header [none|http|...]
        set format [none|text|...]
    next
end
```

config system replacemsg fortiguard-wf

Parameter	Description	Type	Size	Default
msg-type	Message type.	string	Maximum length: 28	
buffer	Message string.	var-string	Maximum length: 32768	
header	Header flag.	option	-	none
	Option	Description		
	<i>none</i>	No header type.		
	<i>http</i>	HTTP		
	<i>8bit</i>	8 bit.		

Parameter	Description	Type	Size	Default
format	Format flag.	option	-	none
	Option	Description		
	<i>none</i>	No format type.		
	<i>text</i>	Text format.		
	<i>html</i>	HTML format.		

config system replacemsg ftp

Replacement messages.

```
config system replacemsg ftp
    Description: Replacement messages.
    edit <msg-type>
        set buffer {var-string}
        set header [none|http|...]
        set format [none|text|...]
    next
end
```

config system replacemsg ftp

Parameter	Description	Type	Size	Default
msg-type	Message type.	string	Maximum length: 28	
buffer	Message string.	var-string	Maximum length: 32768	
header	Header flag.	option	-	none
	Option	Description		
	<i>none</i>	No header type.		
	<i>http</i>	HTTP		
	<i>8bit</i>	8 bit.		
format	Format flag.	option	-	none
	Option	Description		
	<i>none</i>	No format type.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>text</i>	Text format.		
	<i>html</i>	HTML format.		

config system replacemsg http

Replacement messages.

```
config system replacemsg http
    Description: Replacement messages.
    edit <msg-type>
        set buffer {var-string}
        set header [none|http|...]
        set format [none|text|...]
    next
end
```

config system replacemsg http

Parameter	Description	Type	Size	Default
msg-type	Message type.	string	Maximum length: 28	
buffer	Message string.	var-string	Maximum length: 32768	
header	Header flag.	option	-	none
	Option	Description		
	<i>none</i>	No header type.		
	<i>http</i>	HTTP		
	<i>8bit</i>	8 bit.		
format	Format flag.	option	-	none
	Option	Description		
	<i>none</i>	No format type.		
	<i>text</i>	Text format.		
	<i>html</i>	HTML format.		

config system replacemsg icap

Replacement messages.

```
config system replacemsg icap
  Description: Replacement messages.
  edit <msg-type>
    set buffer {var-string}
    set header [none|http|...]
    set format [none|text|...]
  next
end
```

config system replacemsg icap

Parameter	Description	Type	Size	Default
msg-type	Message type.	string	Maximum length: 28	
buffer	Message string.	var-string	Maximum length: 32768	
header	Header flag.	option	-	none
	Option	Description		
	none	No header type.		
	http	HTTP		
	8bit	8 bit.		
format	Format flag.	option	-	none
	Option	Description		
	none	No format type.		
	text	Text format.		
	html	HTML format.		

config system replacemsg mail

Replacement messages.

```
config system replacemsg mail
  Description: Replacement messages.
  edit <msg-type>
    set buffer {var-string}
```

```

        set header [none|http|...]
        set format [none|text|...]
    next
end

```

config system replacemsg mail

Parameter	Description	Type	Size	Default
msg-type	Message type.	string	Maximum length: 28	
buffer	Message string.	var-string	Maximum length: 32768	
header	Header flag.	option	-	none
	Option	Description		
	none	No header type.		
	http	HTTP		
	8bit	8 bit.		
format	Format flag.	option	-	none
	Option	Description		
	none	No format type.		
	text	Text format.		
	html	HTML format.		

config system replacemsg nac-quar

Replacement messages.

```

config system replacemsg nac-quar
    Description: Replacement messages.
    edit <msg-type>
        set buffer {var-string}
        set header [none|http|...]
        set format [none|text|...]
    next
end

```

config system replacemsg nac-quar

Parameter	Description	Type	Size	Default								
msg-type	Message type.	string	Maximum length: 28									
buffer	Message string.	var-string	Maximum length: 32768									
header	Header flag.	option	-	none								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>none</i></td><td>No header type.</td></tr><tr><td><i>http</i></td><td>HTTP</td></tr><tr><td><i>8bit</i></td><td>8 bit.</td></tr></table>	Option	Description	<i>none</i>	No header type.	<i>http</i>	HTTP	<i>8bit</i>	8 bit.			
Option	Description											
<i>none</i>	No header type.											
<i>http</i>	HTTP											
<i>8bit</i>	8 bit.											
format	Format flag.	option	-	none								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>none</i></td><td>No format type.</td></tr><tr><td><i>text</i></td><td>Text format.</td></tr><tr><td><i>html</i></td><td>HTML format.</td></tr></table>	Option	Description	<i>none</i>	No format type.	<i>text</i>	Text format.	<i>html</i>	HTML format.			
Option	Description											
<i>none</i>	No format type.											
<i>text</i>	Text format.											
<i>html</i>	HTML format.											

config system replacemsg spam

Replacement messages.

```
config system replacemsg spam
  Description: Replacement messages.
  edit <msg-type>
    set buffer {var-string}
    set header [none|http|...]
    set format [none|text|...]
  next
end
```

config system replacemsg spam

Parameter	Description	Type	Size	Default
msg-type	Message type.	string	Maximum length: 28	

Parameter	Description	Type	Size	Default								
buffer	Message string.	var-string	Maximum length: 32768									
header	Header flag.	option	-	none								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>none</i></td><td>No header type.</td></tr><tr><td><i>http</i></td><td>HTTP</td></tr><tr><td><i>8bit</i></td><td>8 bit.</td></tr></table>				Option	Description	<i>none</i>	No header type.	<i>http</i>	HTTP	<i>8bit</i>	8 bit.
	Option	Description										
	<i>none</i>	No header type.										
	<i>http</i>	HTTP										
	<i>8bit</i>	8 bit.										
format	Format flag.	option	-	none								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>none</i></td><td>No format type.</td></tr><tr><td><i>text</i></td><td>Text format.</td></tr><tr><td><i>html</i></td><td>HTML format.</td></tr></table>				Option	Description	<i>none</i>	No format type.	<i>text</i>	Text format.	<i>html</i>	HTML format.
	Option	Description										
	<i>none</i>	No format type.										
	<i>text</i>	Text format.										
	<i>html</i>	HTML format.										

config system replacemsg sslvpn

Replacement messages.

```
config system replacemsg sslvpn
  Description: Replacement messages.
  edit <msg-type>
    set buffer {var-string}
    set header [none|http|...]
    set format [none|text|...]
  next
end
```

config system replacemsg sslvpn

Parameter	Description	Type	Size	Default
msg-type	Message type.	string	Maximum length: 28	
buffer	Message string.	var-string	Maximum length: 32768	
header	Header flag.	option	-	none

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>none</i>	No header type.		
	<i>http</i>	HTTP		
	<i>8bit</i>	8 bit.		
format	Format flag.	option	-	none
	Option	Description		
	<i>none</i>	No format type.		
	<i>text</i>	Text format.		
	<i>html</i>	HTML format.		

config system replacemsg traffic-quota

Replacement messages.

```
config system replacemsg traffic-quota
  Description: Replacement messages.
  edit <msg-type>
    set buffer {var-string}
    set header [none|http|...]
    set format [none|text|...]
  next
end
```

config system replacemsg traffic-quota

Parameter	Description	Type	Size	Default
msg-type	Message type.	string	Maximum length: 28	
buffer	Message string.	var-string	Maximum length: 32768	
header	Header flag.	option	-	none
	Option	Description		
	<i>none</i>	No header type.		
	<i>http</i>	HTTP		
	<i>8bit</i>	8 bit.		

Parameter	Description	Type	Size	Default
format	Format flag.	option	-	none
	Option	Description		
	<i>none</i>	No format type.		
	<i>text</i>	Text format.		
	<i>html</i>	HTML format.		

config system replacemsg utm

Replacement messages.

```
config system replacemsg utm
    Description: Replacement messages.
    edit <msg-type>
        set buffer {var-string}
        set header [none|http|...]
        set format [none|text|...]
    next
end
```

config system replacemsg utm

Parameter	Description	Type	Size	Default
msg-type	Message type.	string	Maximum length: 28	
buffer	Message string.	var-string	Maximum length: 32768	
header	Header flag.	option	-	none
	Option	Description		
	<i>none</i>	No header type.		
	<i>http</i>	HTTP		
	<i>8bit</i>	8 bit.		
format	Format flag.	option	-	none
	Option	Description		
	<i>none</i>	No format type.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>text</i>	Text format.		
	<i>html</i>	HTML format.		

config system replacemsg webproxy

Replacement messages.

```
config system replacemsg webproxy
  Description: Replacement messages.
  edit <msg-type>
    set buffer {var-string}
    set header [none|http|...]
    set format [none|text|...]
  next
end
```

config system replacemsg webproxy

Parameter	Description	Type	Size	Default
msg-type	Message type.	string	Maximum length: 28	
buffer	Message string.	var-string	Maximum length: 32768	
header	Header flag.	option	-	none
	Option	Description		
	<i>none</i>	No header type.		
	<i>http</i>	HTTP		
	<i>8bit</i>	8 bit.		
format	Format flag.	option	-	none
	Option	Description		
	<i>none</i>	No format type.		
	<i>text</i>	Text format.		
	<i>html</i>	HTML format.		

config system replacemsg-group

Configure replacement message groups.

```
config system replacemsg-group
  Description: Configure replacement message groups.
  edit <name>
    set comment {var-string}
    set group-type [default|utm|...]
  config mail
    Description: Replacement message table entries.
    edit <msg-type>
      set buffer {var-string}
      set header [none|http|...]
      set format [none|text|...]
    next
  end
  config http
    Description: Replacement message table entries.
    edit <msg-type>
      set buffer {var-string}
      set header [none|http|...]
      set format [none|text|...]
    next
  end
  config webproxy
    Description: Replacement message table entries.
    edit <msg-type>
      set buffer {var-string}
      set header [none|http|...]
      set format [none|text|...]
    next
  end
  config ftp
    Description: Replacement message table entries.
    edit <msg-type>
      set buffer {var-string}
      set header [none|http|...]
      set format [none|text|...]
    next
  end
  config fortiguard-wf
    Description: Replacement message table entries.
    edit <msg-type>
      set buffer {var-string}
      set header [none|http|...]
      set format [none|text|...]
    next
  end
  config spam
    Description: Replacement message table entries.
    edit <msg-type>
      set buffer {var-string}
      set header [none|http|...]
      set format [none|text|...]
```

```

        next
    end
    config alertmail
        Description: Replacement message table entries.
        edit <msg-type>
            set buffer {var-string}
            set header [none|http|...]
            set format [none|text|...]
        next
    end
    config admin
        Description: Replacement message table entries.
        edit <msg-type>
            set buffer {var-string}
            set header [none|http|...]
            set format [none|text|...]
        next
    end
    config auth
        Description: Replacement message table entries.
        edit <msg-type>
            set buffer {var-string}
            set header [none|http|...]
            set format [none|text|...]
        next
    end
    config sslvpn
        Description: Replacement message table entries.
        edit <msg-type>
            set buffer {var-string}
            set header [none|http|...]
            set format [none|text|...]
        next
    end
    config nac-quar
        Description: Replacement message table entries.
        edit <msg-type>
            set buffer {var-string}
            set header [none|http|...]
            set format [none|text|...]
        next
    end
    config traffic-quota
        Description: Replacement message table entries.
        edit <msg-type>
            set buffer {var-string}
            set header [none|http|...]
            set format [none|text|...]
        next
    end
    config utm
        Description: Replacement message table entries.
        edit <msg-type>
            set buffer {var-string}
            set header [none|http|...]
            set format [none|text|...]

```

```

        next
    end
    config custom-message
        Description: Replacement message table entries.
        edit <msg-type>
            set buffer {var-string}
            set header [none|http|...]
            set format [none|text|...]
        next
    end
    config icap
        Description: Replacement message table entries.
        edit <msg-type>
            set buffer {var-string}
            set header [none|http|...]
            set format [none|text|...]
        next
    end
    config automation
        Description: Replacement message table entries.
        edit <msg-type>
            set buffer {var-string}
            set header [none|http|...]
            set format [none|text|...]
        next
    end
next
end

```

config system replacemsg-group

Parameter	Description	Type	Size	Default
name	Group name.	string	Maximum length: 35	
comment	Comment.	var-string	Maximum length: 255	
group-type	Group type.	option	-	default
		Option	Description	
		<i>default</i>	Per-vdom replacement messages.	
		<i>utm</i>	For use with UTM settings in firewall policies.	
		<i>auth</i>	For use with authentication pages in firewall policies.	

config mail

Parameter	Description	Type	Size	Default								
msg-type	Message type.	string	Maximum length: 28									
buffer	Message string.	var-string	Maximum length: 32768									
header	Header flag.	option	-	none								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>none</i></td><td>No header type.</td></tr><tr><td><i>http</i></td><td>HTTP</td></tr><tr><td><i>8bit</i></td><td>8 bit.</td></tr></table>	Option	Description	<i>none</i>	No header type.	<i>http</i>	HTTP	<i>8bit</i>	8 bit.			
Option	Description											
<i>none</i>	No header type.											
<i>http</i>	HTTP											
<i>8bit</i>	8 bit.											
format	Format flag.	option	-	none								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>none</i></td><td>No format type.</td></tr><tr><td><i>text</i></td><td>Text format.</td></tr><tr><td><i>html</i></td><td>HTML format.</td></tr></table>	Option	Description	<i>none</i>	No format type.	<i>text</i>	Text format.	<i>html</i>	HTML format.			
Option	Description											
<i>none</i>	No format type.											
<i>text</i>	Text format.											
<i>html</i>	HTML format.											

config http

Parameter	Description	Type	Size	Default								
msg-type	Message type.	string	Maximum length: 28									
buffer	Message string.	var-string	Maximum length: 32768									
header	Header flag.	option	-	none								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>none</i></td><td>No header type.</td></tr><tr><td><i>http</i></td><td>HTTP</td></tr><tr><td><i>8bit</i></td><td>8 bit.</td></tr></table>				Option	Description	<i>none</i>	No header type.	<i>http</i>	HTTP	<i>8bit</i>	8 bit.
	Option	Description										
	<i>none</i>	No header type.										
	<i>http</i>	HTTP										
<i>8bit</i>	8 bit.											
format	Format flag.	option	-	none								

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>none</i>	No format type.		
	<i>text</i>	Text format.		
	<i>html</i>	HTML format.		

config webproxy

Parameter	Description	Type	Size	Default
msg-type	Message type.	string	Maximum length: 28	
buffer	Message string.	var-string	Maximum length: 32768	
header	Header flag.	option	-	none
	Option	Description		
	<i>none</i>	No header type.		
	<i>http</i>	HTTP		
	<i>8bit</i>	8 bit.		
format	Format flag.	option	-	none
	Option	Description		
	<i>none</i>	No format type.		
	<i>text</i>	Text format.		
	<i>html</i>	HTML format.		

config ftp

Parameter	Description	Type	Size	Default
msg-type	Message type.	string	Maximum length: 28	
buffer	Message string.	var-string	Maximum length: 32768	
header	Header flag.	option	-	none

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>none</i>	No header type.		
	<i>http</i>	HTTP		
	<i>8bit</i>	8 bit.		
format	Format flag.	option	-	none
	Option	Description		
	<i>none</i>	No format type.		
	<i>text</i>	Text format.		
	<i>html</i>	HTML format.		

config fortiguard-wf

Parameter	Description	Type	Size	Default
msg-type	Message type.	string	Maximum length: 28	
buffer	Message string.	var-string	Maximum length: 32768	
header	Header flag.	option	-	none
	Option	Description		
	<i>none</i>	No header type.		
	<i>http</i>	HTTP		
	<i>8bit</i>	8 bit.		
format	Format flag.	option	-	none
	Option	Description		
	<i>none</i>	No format type.		
	<i>text</i>	Text format.		
	<i>html</i>	HTML format.		

config spam

Parameter	Description	Type	Size	Default								
msg-type	Message type.	string	Maximum length: 28									
buffer	Message string.	var-string	Maximum length: 32768									
header	Header flag.	option	-	none								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>none</i></td><td>No header type.</td></tr><tr><td><i>http</i></td><td>HTTP</td></tr><tr><td><i>8bit</i></td><td>8 bit.</td></tr></table>	Option	Description	<i>none</i>	No header type.	<i>http</i>	HTTP	<i>8bit</i>	8 bit.			
Option	Description											
<i>none</i>	No header type.											
<i>http</i>	HTTP											
<i>8bit</i>	8 bit.											
format	Format flag.	option	-	none								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>none</i></td><td>No format type.</td></tr><tr><td><i>text</i></td><td>Text format.</td></tr><tr><td><i>html</i></td><td>HTML format.</td></tr></table>	Option	Description	<i>none</i>	No format type.	<i>text</i>	Text format.	<i>html</i>	HTML format.			
Option	Description											
<i>none</i>	No format type.											
<i>text</i>	Text format.											
<i>html</i>	HTML format.											

config alertmail

Parameter	Description	Type	Size	Default								
msg-type	Message type.	string	Maximum length: 28									
buffer	Message string.	var-string	Maximum length: 32768									
header	Header flag.	option	-	none								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>none</i></td><td>No header type.</td></tr><tr><td><i>http</i></td><td>HTTP</td></tr><tr><td><i>8bit</i></td><td>8 bit.</td></tr></table>				Option	Description	<i>none</i>	No header type.	<i>http</i>	HTTP	<i>8bit</i>	8 bit.
	Option	Description										
	<i>none</i>	No header type.										
	<i>http</i>	HTTP										
<i>8bit</i>	8 bit.											
format	Format flag.	option	-	none								

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>none</i>	No format type.		
	<i>text</i>	Text format.		
	<i>html</i>	HTML format.		

config admin

Parameter	Description	Type	Size	Default
msg-type	Message type.	string	Maximum length: 28	
buffer	Message string.	var-string	Maximum length: 32768	
header	Header flag.	option	-	none
	Option	Description		
	<i>none</i>	No header type.		
	<i>http</i>	HTTP		
	<i>8bit</i>	8 bit.		
format	Format flag.	option	-	none
	Option	Description		
	<i>none</i>	No format type.		
	<i>text</i>	Text format.		
	<i>html</i>	HTML format.		

config auth

Parameter	Description	Type	Size	Default
msg-type	Message type.	string	Maximum length: 28	
buffer	Message string.	var-string	Maximum length: 32768	
header	Header flag.	option	-	none

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>none</i>	No header type.		
	<i>http</i>	HTTP		
	<i>8bit</i>	8 bit.		
format	Format flag.	option	-	none
	Option	Description		
	<i>none</i>	No format type.		
	<i>text</i>	Text format.		
	<i>html</i>	HTML format.		

config sslvpn

Parameter	Description	Type	Size	Default
msg-type	Message type.	string	Maximum length: 28	
buffer	Message string.	var-string	Maximum length: 32768	
header	Header flag.	option	-	none
	Option	Description		
	<i>none</i>	No header type.		
	<i>http</i>	HTTP		
	<i>8bit</i>	8 bit.		
format	Format flag.	option	-	none
	Option	Description		
	<i>none</i>	No format type.		
	<i>text</i>	Text format.		
	<i>html</i>	HTML format.		

config nac-quar

Parameter	Description	Type	Size	Default								
msg-type	Message type.	string	Maximum length: 28									
buffer	Message string.	var-string	Maximum length: 32768									
header	Header flag.	option	-	none								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>none</i></td><td>No header type.</td></tr><tr><td><i>http</i></td><td>HTTP</td></tr><tr><td><i>8bit</i></td><td>8 bit.</td></tr></table>	Option	Description	<i>none</i>	No header type.	<i>http</i>	HTTP	<i>8bit</i>	8 bit.			
Option	Description											
<i>none</i>	No header type.											
<i>http</i>	HTTP											
<i>8bit</i>	8 bit.											
format	Format flag.	option	-	none								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>none</i></td><td>No format type.</td></tr><tr><td><i>text</i></td><td>Text format.</td></tr><tr><td><i>html</i></td><td>HTML format.</td></tr></table>	Option	Description	<i>none</i>	No format type.	<i>text</i>	Text format.	<i>html</i>	HTML format.			
Option	Description											
<i>none</i>	No format type.											
<i>text</i>	Text format.											
<i>html</i>	HTML format.											

config traffic-quota

Parameter	Description	Type	Size	Default								
msg-type	Message type.	string	Maximum length: 28									
buffer	Message string.	var-string	Maximum length: 32768									
header	Header flag.	option	-	none								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>none</i></td><td>No header type.</td></tr><tr><td><i>http</i></td><td>HTTP</td></tr><tr><td><i>8bit</i></td><td>8 bit.</td></tr></table>				Option	Description	<i>none</i>	No header type.	<i>http</i>	HTTP	<i>8bit</i>	8 bit.
	Option	Description										
	<i>none</i>	No header type.										
	<i>http</i>	HTTP										
<i>8bit</i>	8 bit.											
format	Format flag.	option	-	none								

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>none</i>	No format type.		
	<i>text</i>	Text format.		
	<i>html</i>	HTML format.		

config utm

Parameter	Description	Type	Size	Default
msg-type	Message type.	string	Maximum length: 28	
buffer	Message string.	var-string	Maximum length: 32768	
header	Header flag.	option	-	none
	Option	Description		
	<i>none</i>	No header type.		
	<i>http</i>	HTTP		
	<i>8bit</i>	8 bit.		
format	Format flag.	option	-	none
	Option	Description		
	<i>none</i>	No format type.		
	<i>text</i>	Text format.		
	<i>html</i>	HTML format.		

config custom-message

Parameter	Description	Type	Size	Default
msg-type	Message type.	string	Maximum length: 28	
buffer	Message string.	var-string	Maximum length: 32768	
header	Header flag.	option	-	none

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>none</i>	No header type.		
	<i>http</i>	HTTP		
	<i>8bit</i>	8 bit.		
format	Format flag.	option	-	none
	Option	Description		
	<i>none</i>	No format type.		
	<i>text</i>	Text format.		
	<i>html</i>	HTML format.		

config icap

Parameter	Description	Type	Size	Default
msg-type	Message type.	string	Maximum length: 28	
buffer	Message string.	var-string	Maximum length: 32768	
header	Header flag.	option	-	none
	Option	Description		
	<i>none</i>	No header type.		
	<i>http</i>	HTTP		
	<i>8bit</i>	8 bit.		
format	Format flag.	option	-	none
	Option	Description		
	<i>none</i>	No format type.		
	<i>text</i>	Text format.		
	<i>html</i>	HTML format.		

config automation

Parameter	Description	Type	Size	Default								
msg-type	Message type.	string	Maximum length: 28									
buffer	Message string.	var-string	Maximum length: 32768									
header	Header flag.	option	-	none								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>none</i></td><td>No header type.</td></tr><tr><td><i>http</i></td><td>HTTP</td></tr><tr><td><i>8bit</i></td><td>8 bit.</td></tr></table>	Option	Description	<i>none</i>	No header type.	<i>http</i>	HTTP	<i>8bit</i>	8 bit.			
Option	Description											
<i>none</i>	No header type.											
<i>http</i>	HTTP											
<i>8bit</i>	8 bit.											
format	Format flag.	option	-	none								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>none</i></td><td>No format type.</td></tr><tr><td><i>text</i></td><td>Text format.</td></tr><tr><td><i>html</i></td><td>HTML format.</td></tr></table>	Option	Description	<i>none</i>	No format type.	<i>text</i>	Text format.	<i>html</i>	HTML format.			
Option	Description											
<i>none</i>	No format type.											
<i>text</i>	Text format.											
<i>html</i>	HTML format.											

config system replacemsg-image

Configure replacement message images.

```
config system replacemsg-image
  Description: Configure replacement message images.
  edit <name>
    set image-type [gif|jpg|...]
    set image-base64 {var-string}
  next
end
```

config system replacemsg-image

Parameter	Description	Type	Size	Default
name	Image name.	string	Maximum length: 23	
image-type	Image type.	option	-	png

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>gif</i>	GIF image.		
	<i>jpg</i>	JPEG image.		
	<i>tiff</i>	TIFF image.		
	<i>png</i>	PNG image.		
image-base64	Image data.	var-string	Maximum length: 32768	

config system resource-limits

Configure resource limits.

```

config system resource-limits
    Description: Configure resource limits.
    set ipsec-phase1-interface {integer}
    set ipsec-phase2-interface {integer}
    set firewall-policy {integer}
    set firewall-address {integer}
    set firewall-addrgrp {integer}
    set custom-service {integer}
    set service-group {integer}
    set onetime-schedule {integer}
    set recurring-schedule {integer}
    set user {integer}
    set user-group {integer}
    set proxy {integer}
    set log-disk-quota {integer}
end

```

config system resource-limits

Parameter	Description	Type	Size	Default
ipsec-phase1-interface	Maximum number of VPN IPsec phase1 interface tunnels.	integer	Minimum value: 0 Maximum value: 4294967295	

Parameter	Description	Type	Size	Default
ipsec-phase2-interface	Maximum number of VPN IPsec phase2 interface tunnels.	integer	Minimum value: 0 Maximum value: 4294967295	
firewall-policy	Maximum number of firewall policies (policy, DoS-policy4, DoS-policy6, multicast).	integer	Minimum value: 0 Maximum value: 4294967295	
firewall-address	Maximum number of firewall addresses (IPv4, IPv6, multicast).	integer	Minimum value: 0 Maximum value: 4294967295	
firewall-addgrp	Maximum number of firewall address groups (IPv4, IPv6).	integer	Minimum value: 0 Maximum value: 4294967295	
custom-service	Maximum number of firewall custom services.	integer	Minimum value: 0 Maximum value: 4294967295	
service-group	Maximum number of firewall service groups.	integer	Minimum value: 0 Maximum value: 4294967295	
onetime-schedule	Maximum number of firewall one-time schedules.	integer	Minimum value: 0 Maximum value: 4294967295	
recurring-schedule	Maximum number of firewall recurring schedules.	integer	Minimum value: 0 Maximum value: 4294967295	

Parameter	Description	Type	Size	Default
user	Maximum number of local users.	integer	Minimum value: 0 Maximum value: 4294967295	
user-group	Maximum number of user groups.	integer	Minimum value: 0 Maximum value: 4294967295	
proxy	Maximum number of concurrent proxy users.	integer	Minimum value: 0 Maximum value: 4294967295	
log-disk-quota	Log disk quota in megabytes (MB).	integer	Minimum value: 0 Maximum value: 4294967295	0

config system saml

Global settings for SAML authentication.

```
config system saml
    Description: Global settings for SAML authentication.
    set status [enable|disable]
    set role [identity-provider|service-provider]
    set default-login-page [normal|sso]
    set default-profile {string}
    set cert {string}
    set binding-protocol [post|redirect]
    set portal-url {string}
    set entity-id {string}
    set single-sign-on-url {string}
    set single-logout-url {string}
    set idp-entity-id {string}
    set idp-single-sign-on-url {string}
    set idp-single-logout-url {string}
    set idp-cert {string}
    set server-address {string}
    set tolerance {integer}
    set life {integer}
    config service-providers
        Description: Authorized service providers.
        edit <name>
            set prefix {string}
```

```

set sp-binding-protocol [post|redirect]
set sp-cert {string}
set sp-entity-id {string}
set sp-single-sign-on-url {string}
set sp-single-logout-url {string}
set sp-portal-url {string}
set idp-entity-id {string}
set idp-single-sign-on-url {string}
set idp-single-logout-url {string}
config assertion-attributes
    Description: Customized SAML attributes to send along with assertion.
    edit <name>
        set type [username|email|...]
    next
end
next
end
end

```

config system saml

Parameter	Description	Type	Size	Default
status	Enable/disable SAML authentication (default = disable).	option	-	disable
	Option	Description		
	<i>enable</i>	Enable SAML authentication.		
	<i>disable</i>	Disable SAML authentication.		
role	SAML role.	option	-	service-provider
	Option	Description		
	<i>identity-provider</i>	Identity Provider.		
	<i>service-provider</i>	Service Provider.		
default-login-page	Choose default login page.	option	-	normal
	Option	Description		
	<i>normal</i>	Use local login page as default.		
	<i>sso</i>	Use IdP's Single Sign-On page as default.		
default-profile	Default profile for new SSO admin.	string	Maximum length: 35	

Parameter	Description	Type	Size	Default
cert	Certificate to sign SAML messages.	string	Maximum length: 35	
binding-protocol	IdP Binding protocol.	option	-	redirect
	Option	Description		
	post	HTTP POST binding.		
	redirect	HTTP Redirect binding.		
portal-url	SP portal URL.	string	Maximum length: 255	
entity-id	SP entity ID.	string	Maximum length: 255	
single-sign-on-url	SP single sign-on URL.	string	Maximum length: 255	
single-logout-url	SP single logout URL.	string	Maximum length: 255	
idp-entity-id	IDP entity ID.	string	Maximum length: 255	
idp-single-sign-on-url	IDP single sign-on URL.	string	Maximum length: 255	
idp-single-logout-url	IDP single logout URL.	string	Maximum length: 255	
idp-cert	IDP certificate name.	string	Maximum length: 35	
server-address	Server address.	string	Maximum length: 63	
tolerance	Tolerance to the range of time when the assertion is valid (in minutes).	integer	Minimum value: 0 Maximum value: 4294967295	5
life	Length of the range of time when the assertion is valid (in minutes).	integer	Minimum value: 0 Maximum value: 4294967295	30

config service-providers

Parameter	Description	Type	Size	Default						
name	Name.	string	Maximum length: 35							
prefix	Prefix.	string	Maximum length: 35							
sp-binding-protocol	SP binding protocol.	option	-	post						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>post</i></td><td>HTTP POST binding.</td></tr><tr><td><i>redirect</i></td><td>HTTP Redirect binding.</td></tr></table>	Option	Description	<i>post</i>	HTTP POST binding.	<i>redirect</i>	HTTP Redirect binding.			
Option	Description									
<i>post</i>	HTTP POST binding.									
<i>redirect</i>	HTTP Redirect binding.									
sp-cert	SP certificate name.	string	Maximum length: 35							
sp-entity-id	SP entity ID.	string	Maximum length: 255							
sp-single-sign-on-url	SP single sign-on URL.	string	Maximum length: 255							
sp-single-logout-url	SP single logout URL.	string	Maximum length: 255							
sp-portal-url	SP portal URL.	string	Maximum length: 255							
idp-entity-id	IDP entity ID.	string	Maximum length: 255							
idp-single-sign-on-url	IDP single sign-on URL.	string	Maximum length: 255							
idp-single-logout-url	IDP single logout URL.	string	Maximum length: 255							

config assertion-attributes

Parameter	Description	Type	Size	Default				
name	Name.	string	Maximum length: 35					
type	Type.	option	-	username				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>username</td><td>User Name.</td></tr></table>				Option	Description	username	User Name.
Option	Description							
username	User Name.							

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>email</i>	Email Address.		
	<i>profile-name</i>	Profile Name.		

config system sdn-connector

Configure connection to SDN Connector.

```
config system sdn-connector
    Description: Configure connection to SDN Connector.
    edit <name>
        set status [disable|enable]
        set type [aci|alicloud|...]
        set proxy {string}
        set use-metadata-iam [disable|enable]
        set ha-status [disable|enable]
        set verify-certificate [disable|enable]
        set server {string}
        set server-list <ip1>, <ip2>, ...
        set server-port {integer}
        set username {string}
        set password {password_aes256}
        set vcenter-server {string}
        set vcenter-username {string}
        set vcenter-password {password_aes256}
        set access-key {string}
        set secret-key {password}
        set region {string}
        set vpc-id {string}
        set alt-resource-ip [disable|enable]
        config external-account-list
            Description: Configure AWS external account list.
            edit <role-arn>
                set external-id {string}
                set region-list <region1>, <region2>, ...
            next
        end
        set tenant-id {string}
        set client-id {string}
        set client-secret {password}
        set subscription-id {string}
        set resource-group {string}
        set login-endpoint {string}
        set resource-url {string}
        set azure-region [global|china|...]
    config nic
        Description: Configure Azure network interface.
        edit <name>
            set peer-nic {string}
            config ip
```

```

        Description: Configure IP configuration.
        edit <name>
            set private-ip {string}
            set public-ip {string}
            set resource-group {string}
        next
    end
next
end
config route-table
    Description: Configure Azure route table.
    edit <name>
        set subscription-id {string}
        set resource-group {string}
        config route
            Description: Configure Azure route.
            edit <name>
                set next-hop {string}
            next
        end
    next
end
end
set user-id {string}
config compartment-list
    Description: Configure OCI compartment list.
    edit <compartment-id>
        next
    end
config oci-region-list
    Description: Configure OCI region list.
    edit <region>
        next
    end
set oci-region-type [commercial|government]
set oci-cert {string}
set oci-fingerprint {string}
config external-ip
    Description: Configure GCP external IP.
    edit <name>
        next
    end
config route
    Description: Configure GCP route.
    edit <name>
        next
    end
config gcp-project-list
    Description: Configure GCP project list.
    edit <id>
        set gcp-zone-list <name1>, <name2>, ...
    next
end
config forwarding-rule
    Description: Configure GCP forwarding rule.
    edit <rule-name>
        set target {string}

```



```

        next
    end
    set service-account {string}
    set private-key {user}
    set secret-token {user}
    set domain {string}
    set group-name {string}
    set server-cert {string}
    set server-ca-cert {string}
    set api-key {password}
    set compute-generation {integer}
    set ibm-region [dallas|washington-dc|...]
    set update-interval {integer}
next
end

```

config system sdn-connector

Parameter	Description	Type	Size	Default
name	SDN connector name.	string	Maximum length: 35	
status	Enable/disable connection to the remote SDN connector.	option	-	enable
	Option	Description		
	<i>disable</i>	Disable connection to this SDN Connector.		
	<i>enable</i>	Enable connection to this SDN Connector.		
type	Type of SDN connector.	option	-	aws
	Option	Description		
	<i>aci</i>	Application Centric Infrastructure (ACI).		
	<i>alicloud</i>	AliCloud Service (ACS).		
	<i>aws</i>	Amazon Web Services (AWS).		
	<i>azure</i>	Microsoft Azure.		
	<i>gcp</i>	Google Cloud Platform (GCP).		
	<i>nsx</i>	VMware NSX.		
	<i>nuage</i>	Nuage VSP.		
	<i>oci</i>	Oracle Cloud Infrastructure.		
	<i>openstack</i>	OpenStack.		
	<i>kubernetes</i>	Kubernetes.		

Parameter	Description	Type	Size	Default														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>vmware</i></td><td>VMware vSphere (vCenter & ESXi).</td></tr><tr><td><i>sepm</i></td><td>Symantec Endpoint Protection Manager.</td></tr><tr><td><i>aci-direct</i></td><td>Application Centric Infrastructure (ACI Direct Connection).</td></tr><tr><td><i>ibm</i></td><td>IBM Cloud Infrastructure.</td></tr><tr><td><i>nutanix</i></td><td>Nutanix Prism Central.</td></tr><tr><td><i>sap</i></td><td>SAP Control.</td></tr></table>	Option	Description	<i>vmware</i>	VMware vSphere (vCenter & ESXi).	<i>sepm</i>	Symantec Endpoint Protection Manager.	<i>aci-direct</i>	Application Centric Infrastructure (ACI Direct Connection).	<i>ibm</i>	IBM Cloud Infrastructure.	<i>nutanix</i>	Nutanix Prism Central.	<i>sap</i>	SAP Control.			
	Option	Description																
	<i>vmware</i>	VMware vSphere (vCenter & ESXi).																
	<i>sepm</i>	Symantec Endpoint Protection Manager.																
	<i>aci-direct</i>	Application Centric Infrastructure (ACI Direct Connection).																
	<i>ibm</i>	IBM Cloud Infrastructure.																
	<i>nutanix</i>	Nutanix Prism Central.																
<i>sap</i>	SAP Control.																	
proxy	SDN proxy.	string	Maximum length: 35															
use-metadata-iam	Enable/disable use of IAM role from metadata to call API.	option	-	disable														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable using IAM role to call API.</td></tr><tr><td><i>enable</i></td><td>Enable using IAM role to call API.</td></tr></table>	Option	Description	<i>disable</i>	Disable using IAM role to call API.	<i>enable</i>	Enable using IAM role to call API.											
	Option	Description																
	<i>disable</i>	Disable using IAM role to call API.																
<i>enable</i>	Enable using IAM role to call API.																	
ha-status	Enable/disable use for FortiProxy HA service.	option	-	disable														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable use for FortiProxy HA service.</td></tr><tr><td><i>enable</i></td><td>Enable use for FortiProxy HA service.</td></tr></table>	Option	Description	<i>disable</i>	Disable use for FortiProxy HA service.	<i>enable</i>	Enable use for FortiProxy HA service.											
	Option	Description																
	<i>disable</i>	Disable use for FortiProxy HA service.																
<i>enable</i>	Enable use for FortiProxy HA service.																	
verify-certificate	Enable/disable server certificate verification.	option	-	enable														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable server certificate verification.</td></tr><tr><td><i>enable</i></td><td>Enable server certificate verification.</td></tr></table>	Option	Description	<i>disable</i>	Disable server certificate verification.	<i>enable</i>	Enable server certificate verification.											
	Option	Description																
	<i>disable</i>	Disable server certificate verification.																
<i>enable</i>	Enable server certificate verification.																	
server	Server address of the remote SDN connector.	string	Maximum length: 127															
server-list <ip>	Server address list of the remote SDN connector. IPv4 address.	string	Maximum length: 15															
server-port	Port number of the remote SDN connector.	integer	Minimum value: 0 Maximum value: 65535	0														

Parameter	Description	Type	Size	Default						
username	Username of the remote SDN connector as login credentials.	string	Maximum length: 64							
password	Password of the remote SDN connector as login credentials.	password_aes256	Not Specified							
vcenter-server	vCenter server address for NSX quarantine.	string	Maximum length: 127							
vcenter-username	vCenter server username for NSX quarantine.	string	Maximum length: 64							
vcenter-password	vCenter server password for NSX quarantine.	password_aes256	Not Specified							
access-key	AWS / ACS access key ID.	string	Maximum length: 31							
secret-key	AWS / ACS secret access key.	password	Not Specified							
region	AWS / ACS region name.	string	Maximum length: 31							
vpc-id	AWS VPC ID.	string	Maximum length: 31							
alt-resource-ip	Enable/disable AWS alternative resource IP.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable AWS alternative resource IP.</td></tr><tr><td><i>enable</i></td><td>Enable AWS alternative resource IP.</td></tr></table>				Option	Description	<i>disable</i>	Disable AWS alternative resource IP.	<i>enable</i>	Enable AWS alternative resource IP.
Option	Description									
<i>disable</i>	Disable AWS alternative resource IP.									
<i>enable</i>	Enable AWS alternative resource IP.									
tenant-id	Tenant ID (directory ID).	string	Maximum length: 127							
client-id	Azure client ID (application ID).	string	Maximum length: 63							
client-secret	Azure client secret (application key).	password	Not Specified							
subscription-id	Azure subscription ID.	string	Maximum length: 63							
resource-group	Azure resource group.	string	Maximum length: 63							
login-endpoint	Azure Stack login endpoint.	string	Maximum length: 127							

Parameter	Description	Type	Size	Default
resource-url	Azure Stack resource URL.	string	Maximum length: 127	
azure-region	Azure server region.	option	-	global
	Option	Description		
	<i>global</i>	Global Azure Server.		
	<i>china</i>	China Azure Server.		
	<i>germany</i>	Germany Azure Server.		
	<i>usgov</i>	US Government Azure Server.		
	<i>local</i>	Azure Stack Local Server.		
user-id	User ID.	string	Maximum length: 127	
oci-region-type	OCI region type.	option	-	commercial
	Option	Description		
	<i>commercial</i>	Commercial region.		
	<i>government</i>	Government region.		
oci-cert	OCI certificate.	string	Maximum length: 63	
oci-fingerprint	OCI pubkey fingerprint.	string	Maximum length: 63	
service-account	GCP service account email.	string	Maximum length: 127	
private-key	Private key of GCP service account.	user	Not Specified	
secret-token	Secret token of Kubernetes service account.	user	Not Specified	
domain	Domain name.	string	Maximum length: 127	
group-name	Full path group name of computers.	string	Maximum length: 127	
server-cert	Trust servers that contain this certificate only.	string	Maximum length: 127	
server-ca-cert	Trust only those servers whose certificate is directly/indirectly signed by this certificate.	string	Maximum length: 127	

Parameter	Description	Type	Size	Default																				
api-key	IBM cloud API key or service ID API key.	password	Not Specified																					
compute-generation	Compute generation for IBM cloud infrastructure.	integer	Minimum value: 1 Maximum value: 2	2																				
ibm-region	IBM cloud region name.	option	-	dallas																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>dallas</td><td>US South (Dallas) Public Endpoint.</td></tr><tr><td>washington-dc</td><td>US East (Washington DC) Public Endpoint.</td></tr><tr><td>london</td><td>United Kingdom (London) Public Endpoint.</td></tr><tr><td>frankfurt</td><td>Germany (Frankfurt) Public Endpoint.</td></tr><tr><td>sydney</td><td>Australia (Sydney) Public Endpoint.</td></tr><tr><td>tokyo</td><td>Japan (Tokyo) Public Endpoint.</td></tr><tr><td>osaka</td><td>Japan (Osaka) Public Endpoint.</td></tr><tr><td>toronto</td><td>Canada (Toronto) Public Endpoint.</td></tr><tr><td>sao-paulo</td><td>Brazil (Sao Paulo) Public Endpoint.</td></tr></table>				Option	Description	dallas	US South (Dallas) Public Endpoint.	washington-dc	US East (Washington DC) Public Endpoint.	london	United Kingdom (London) Public Endpoint.	frankfurt	Germany (Frankfurt) Public Endpoint.	sydney	Australia (Sydney) Public Endpoint.	tokyo	Japan (Tokyo) Public Endpoint.	osaka	Japan (Osaka) Public Endpoint.	toronto	Canada (Toronto) Public Endpoint.	sao-paulo	Brazil (Sao Paulo) Public Endpoint.
	Option	Description																						
	dallas	US South (Dallas) Public Endpoint.																						
	washington-dc	US East (Washington DC) Public Endpoint.																						
	london	United Kingdom (London) Public Endpoint.																						
	frankfurt	Germany (Frankfurt) Public Endpoint.																						
	sydney	Australia (Sydney) Public Endpoint.																						
	tokyo	Japan (Tokyo) Public Endpoint.																						
	osaka	Japan (Osaka) Public Endpoint.																						
toronto	Canada (Toronto) Public Endpoint.																							
sao-paulo	Brazil (Sao Paulo) Public Endpoint.																							
update-interval	Dynamic object update interval (30 - 3600 sec, default = 60, 0 = disabled).	integer	Minimum value: 0 Maximum value: 3600	60																				

config external-account-list

Parameter	Description	Type	Size	Default
role-arn	AWS role ARN to assume.	string	Maximum length: 2047	
external-id	AWS external ID.	string	Maximum length: 1399	
region-list <region>	AWS region name list. AWS region name.	string	Maximum length: 31	

config nic

Parameter	Description	Type	Size	Default
name	Network interface name.	string	Maximum length: 63	
peer-nic	Peer network interface name.	string	Maximum length: 63	

config ip

Parameter	Description	Type	Size	Default
name	IP configuration name.	string	Maximum length: 63	
private-ip	Private IP address.	string	Maximum length: 39	
public-ip	Public IP name.	string	Maximum length: 63	
resource-group	Resource group of Azure public IP.	string	Maximum length: 63	

config route-table

Parameter	Description	Type	Size	Default
name	Route table name.	string	Maximum length: 63	
subscription-id	Subscription ID of Azure route table.	string	Maximum length: 63	
resource-group	Resource group of Azure route table.	string	Maximum length: 63	

config route

Parameter	Description	Type	Size	Default
name	Route name.	string	Maximum length: 63	
next-hop	Next hop address.	string	Maximum length: 127	

config compartment-list

Parameter	Description	Type	Size	Default
compartment-id	OCI compartment ID.	string	Maximum length: 127	

config oci-region-list

Parameter	Description	Type	Size	Default
region	OCI region.	string	Maximum length: 31	

config external-ip

Parameter	Description	Type	Size	Default
name	External IP name.	string	Maximum length: 63	

config route

Parameter	Description	Type	Size	Default
name	Route name.	string	Maximum length: 63	

config gcp-project-list

Parameter	Description	Type	Size	Default
id	GCP project ID.	string	Maximum length: 127	
gcp-zone-list <name>	Configure GCP zone list. GCP zone name.	string	Maximum length: 127	

config forwarding-rule

Parameter	Description	Type	Size	Default
rule-name	Forwarding rule name.	string	Maximum length: 63	
target	Target instance name.	string	Maximum length: 63	

config system sdn-proxy

Configure SDN proxy.

```
config system sdn-proxy
  Description: Configure SDN proxy.
  edit <name>
    set type [general|fortimanager]
    set server {string}
    set server-port {integer}
    set username {string}
    set password {password_aes256}
  next
end
```

config system sdn-proxy

Parameter	Description	Type	Size	Default
name	SDN proxy name.	string	Maximum length: 35	
type	Type of SDN proxy.	option	-	general
	Option Description			
	general General HTTP proxy.			
	fortimanager FortiManager SDN proxy.			
server	Server address of the SDN proxy.	string	Maximum length: 127	
server-port	Port number of the SDN proxy.	integer	Minimum value: 0 Maximum value: 65535	0
username	SDN proxy username.	string	Maximum length: 64	
password	SDN proxy password.	password_aes256	Not Specified	

config system session

System IPv4 session.

```
config system session
  Description: System IPv4 session.
end
```


config system session6

System IPv6 session.

```
config system session6
    Description: System IPv6 session.
end
```

config system session-ttl

Configure global session TTL timers for this FortiProxy.

```
config system session-ttl
    Description: Configure global session TTL timers for this FortiProxy.
    set default {user}
    config port
        Description: Session TTL port.
        edit <id>
            set protocol {integer}
            set start-port {integer}
            set end-port {integer}
            set timeout {user}
            set refresh-direction [both|outgoing|...]
        next
    end
end
```

config system session-ttl

Parameter	Description	Type	Size	Default
default	Default timeout.	user	Not Specified	

config port

Parameter	Description	Type	Size	Default
id	Table entry ID.	integer	Minimum value: 0 Maximum value: 65535	0
protocol	Protocol (0 - 255).	integer	Minimum value: 0 Maximum value: 255	0

Parameter	Description	Type	Size	Default								
start-port	Start port number.	integer	Minimum value: 0 Maximum value: 65535	0								
end-port	End port number.	integer	Minimum value: 0 Maximum value: 65535	0								
timeout	Session timeout (TTL).	user	Not Specified									
refresh-direction	Configure refresh direction.	option	-	both								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>both</i></td><td>Refresh both directions.</td></tr><tr><td><i>outgoing</i></td><td>Refresh outgoing direction (original).</td></tr><tr><td><i>incoming</i></td><td>Refresh incoming direction (reply).</td></tr></table>				Option	Description	<i>both</i>	Refresh both directions.	<i>outgoing</i>	Refresh outgoing direction (original).	<i>incoming</i>	Refresh incoming direction (reply).
	Option	Description										
	<i>both</i>	Refresh both directions.										
	<i>outgoing</i>	Refresh outgoing direction (original).										
<i>incoming</i>	Refresh incoming direction (reply).											

config system settings

Configure VDOM settings.

```
config system settings
    Description: Configure VDOM settings.
    set comments {var-string}
    set opmode [nat|transparent]
    set forward-domain [enable|disable]
    set http-external-dest [fortiweb|forticache]
    set firewall-session-dirty [check-all|check-new|...]
    set manageip {user}
    set gateway {ipv4-address}
    set ip {ipv4-classnet-host}
    set manageip6 {ipv6-prefix}
    set gateway6 {ipv6-address}
    set ip6 {ipv6-prefix}
    set device {string}
    set utf8-spam-tagging [enable|disable]
    set wccp-cache-engine [enable|disable]
    set wccp-local-route [enable|disable]
    set vpn-stats-log {option1}, {option2}, ...
    set vpn-stats-period {integer}
    set mac-ttl {integer}
    set fw-session-hairpin [enable|disable]
    set prp-trailer-action [enable|disable]
```

```
set snat-hairpin-traffic [enable|disable]
set dhcp-proxy [enable|disable]
set dhcp-proxy-interface-select-method [auto|specify]
set dhcp-proxy-interface {string}
set dhcp-server-ip {user}
set dhcp6-server-ip {user}
set gui-default-policy-columns <name1>, <name2>, ...
set link-down-access [enable|disable]
set asymroute [enable|disable]
set asymroute-icmp [enable|disable]
set tcp-session-without-syn [enable|disable]
set ses-denied-traffic [enable|disable]
set strict-src-check [enable|disable]
set allow-linkdown-path [enable|disable]
set asymroute6 [enable|disable]
set asymroute6-icmp [enable|disable]
set sctp-session-without-init [enable|disable]
set status [enable|disable]
set allow-subnet-overlap [enable|disable]
set deny-tcp-with-icmp [enable|disable]
set discovered-device-timeout {integer}
set email-portal-check-dns [disable|enable]
set gui-proxy-inspection [enable|disable]
set gui-icap [enable|disable]
set gui-implicit-policy [enable|disable]
set gui-dns-database [enable|disable]
set gui-multicast-policy [enable|disable]
set gui-dos-policy [enable|disable]
set gui-object-colors [enable|disable]
set gui-route-tag-address-creation [enable|disable]
set gui-voip-profile [enable|disable]
set gui-security-profile-group [enable|disable]
set gui-wanopt-cache [enable|disable]
set gui-explicit-proxy [enable|disable]
set gui-policy-based-ipsec [enable|disable]
set gui-threat-weight [enable|disable]
set gui-spamfilter [enable|disable]
set gui-file-filter [enable|disable]
set gui-application-control [enable|disable]
set gui-ips [enable|disable]
set gui-endpoint-control [enable|disable]
set gui-endpoint-control-advanced [enable|disable]
set gui-dhcp-advanced [enable|disable]
set gui-vpn [enable|disable]
set gui-webfilter-advanced [enable|disable]
set gui-traffic-shaping [enable|disable]
set gui-antivirus [enable|disable]
set gui-webfilter [enable|disable]
set gui-videofilter [enable|disable]
set gui-dnsfilter [enable|disable]
set gui-virtual-patch-profile [enable|disable]
set gui-dlp-profile [enable|disable]
set gui-advanced-policy [enable|disable]
set gui-allow-unnamed-policy [enable|disable]
set gui-email-collection [enable|disable]
set gui-multiple-interface-policy [enable|disable]
```

```

set gui-policy-disclaimer [enable|disable]
set gui-ztna [enable|disable]
set gui-ot [enable|disable]
set gui-dynamic-device-os-id [enable|disable]
set block-land-attack [disable|enable]
set default-app-port-as-service [enable|disable]
set application-bandwidth-tracking [disable|enable]
set default-policy-expiry-days {integer}
set gui-enforce-change-summary [disable|require|...]
set internet-service-database-cache [disable|enable]
end

```

config system settings

Parameter	Description	Type	Size	Default						
comments	VDOM comments.	var-string	Maximum length: 255							
opmode	Firewall operation mode (NAT or Transparent).	option	-	nat						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>nat</i></td><td>Change to NAT mode.</td></tr><tr><td><i>transparent</i></td><td>Change to transparent mode.</td></tr></table>	Option	Description	<i>nat</i>	Change to NAT mode.	<i>transparent</i>	Change to transparent mode.			
Option	Description									
<i>nat</i>	Change to NAT mode.									
<i>transparent</i>	Change to transparent mode.									
forward-domain	Enable/disable forward domain.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable forward domain.</td></tr><tr><td><i>disable</i></td><td>Disable forward domain.</td></tr></table>	Option	Description	<i>enable</i>	Enable forward domain.	<i>disable</i>	Disable forward domain.			
Option	Description									
<i>enable</i>	Enable forward domain.									
<i>disable</i>	Disable forward domain.									
http-external-dest	Offload HTTP traffic to FortiWeb or FortiCache.	option	-	fortiweb						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>fortiweb</i></td><td>Offload HTTP traffic to FortiWeb for Web Application Firewall inspection.</td></tr><tr><td><i>forticache</i></td><td>Offload HTTP traffic to FortiCache for external web caching and WAN optimization.</td></tr></table>	Option	Description	<i>fortiweb</i>	Offload HTTP traffic to FortiWeb for Web Application Firewall inspection.	<i>forticache</i>	Offload HTTP traffic to FortiCache for external web caching and WAN optimization.			
Option	Description									
<i>fortiweb</i>	Offload HTTP traffic to FortiWeb for Web Application Firewall inspection.									
<i>forticache</i>	Offload HTTP traffic to FortiCache for external web caching and WAN optimization.									
firewall-session-dirty	Select how to manage sessions affected by firewall policy configuration changes.	option	-	check-all						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>check-all</i></td><td>All sessions affected by a firewall policy change are flushed from the session table. When new packets are received they are re-evaluated by stateful inspection and re-added to the session table.</td></tr></table>	Option	Description	<i>check-all</i>	All sessions affected by a firewall policy change are flushed from the session table. When new packets are received they are re-evaluated by stateful inspection and re-added to the session table.					
Option	Description									
<i>check-all</i>	All sessions affected by a firewall policy change are flushed from the session table. When new packets are received they are re-evaluated by stateful inspection and re-added to the session table.									

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>check-new</i>	Established sessions for changed firewall policies continue without being affected by the policy configuration change. New sessions are evaluated according to the new firewall policy configuration.		
	<i>check-policy-option</i>	Sessions are managed individually depending on the firewall policy. Some sessions may restart. Some may continue.		
manageip	Transparent mode IPv4 management IP address and netmask.	user	Not Specified	
gateway	Transparent mode IPv4 default gateway IP address.	ipv4-address	Not Specified	0.0.0.0
ip	IP address and netmask.	ipv4-classnet-host	Not Specified	0.0.0.0 0.0.0.0
manageip6	Transparent mode IPv6 management IP address and netmask.	ipv6-prefix	Not Specified	::/0
gateway6	Transparent mode IPv6 default gateway IP address.	ipv6-address	Not Specified	::
ip6	IPv6 address prefix for NAT mode.	ipv6-prefix	Not Specified	::/0
device	Interface to use for management access for NAT mode.	string	Maximum length: 35	
utf8-spam-tagging	Enable/disable converting antispam tags to UTF-8 for better non-ASCII character support.	option	-	enable
	Option	Description		
	<i>enable</i>	Convert antispam tags to UTF-8.		
	<i>disable</i>	Do not convert antispam tags.		
wccp-cache-engine	Enable/disable WCCP cache engine.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable WCCP cache engine.		
	<i>disable</i>	Disable WCCP cache engine.		
wccp-local-route	Enable/disable WCCP to use local route.	option	-	disable

Parameter	Description	Type	Size	Default								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable WCCP to use local route.</td></tr><tr><td><i>disable</i></td><td>Disable WCCP to use local route.</td></tr></table>	Option	Description	<i>enable</i>	Enable WCCP to use local route.	<i>disable</i>	Disable WCCP to use local route.					
	Option	Description										
	<i>enable</i>	Enable WCCP to use local route.										
<i>disable</i>	Disable WCCP to use local route.											
vpn-stats-log	Enable/disable periodic VPN log statistics for one or more types of VPN. Separate names with a space.	option	-	ipsec pptp l2tp								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>ipsec</i></td><td>IPsec.</td></tr><tr><td><i>pptp</i></td><td>PPTP.</td></tr><tr><td><i>l2tp</i></td><td>L2TP.</td></tr></table>	Option	Description	<i>ipsec</i>	IPsec.	<i>pptp</i>	PPTP.	<i>l2tp</i>	L2TP.			
	Option	Description										
	<i>ipsec</i>	IPsec.										
	<i>pptp</i>	PPTP.										
<i>l2tp</i>	L2TP.											
vpn-stats-period	Period to send VPN log statistics (0 or 60 - 86400 sec).	integer	Minimum value: 0 Maximum value: 4294967295	600								
mac-ttl	Duration of MAC addresses in Transparent mode (300 - 8640000 sec, default = 300).	integer	Minimum value: 300 Maximum value: 8640000	300								
fw-session-hairpin	Enable/disable checking for a matching policy each time hairpin traffic goes through the FortiProxy.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Perform a policy check every time.</td></tr><tr><td><i>disable</i></td><td>Perform a policy check only the first time the session is received.</td></tr></table>	Option	Description	<i>enable</i>	Perform a policy check every time.	<i>disable</i>	Perform a policy check only the first time the session is received.					
	Option	Description										
	<i>enable</i>	Perform a policy check every time.										
<i>disable</i>	Perform a policy check only the first time the session is received.											
prp-trailer-action	Enable/disable action to take on PRP trailer.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Try to keep PRP trailer.</td></tr><tr><td><i>disable</i></td><td>Trim PRP trailer.</td></tr></table>	Option	Description	<i>enable</i>	Try to keep PRP trailer.	<i>disable</i>	Trim PRP trailer.					
	Option	Description										
	<i>enable</i>	Try to keep PRP trailer.										
<i>disable</i>	Trim PRP trailer.											
snat-hairpin-traffic	Enable/disable source NAT (SNAT) for hairpin traffic.	option	-	enable								

Parameter	Description	Type	Size	Default						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable SNAT for hairpin traffic.</td></tr><tr><td><i>disable</i></td><td>Disable SNAT for hairpin traffic.</td></tr></table>	Option	Description	<i>enable</i>	Enable SNAT for hairpin traffic.	<i>disable</i>	Disable SNAT for hairpin traffic.			
	Option	Description								
	<i>enable</i>	Enable SNAT for hairpin traffic.								
<i>disable</i>	Disable SNAT for hairpin traffic.									
dhcp-proxy	Enable/disable the DHCP Proxy.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable the DHCP proxy.</td></tr><tr><td><i>disable</i></td><td>Disable the DHCP proxy.</td></tr></table>	Option	Description	<i>enable</i>	Enable the DHCP proxy.	<i>disable</i>	Disable the DHCP proxy.			
	Option	Description								
	<i>enable</i>	Enable the DHCP proxy.								
<i>disable</i>	Disable the DHCP proxy.									
dhcp-proxy-interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>auto</i></td><td>Set outgoing interface automatically.</td></tr><tr><td><i>specify</i></td><td>Set outgoing interface manually.</td></tr></table>	Option	Description	<i>auto</i>	Set outgoing interface automatically.	<i>specify</i>	Set outgoing interface manually.			
	Option	Description								
	<i>auto</i>	Set outgoing interface automatically.								
<i>specify</i>	Set outgoing interface manually.									
dhcp-proxy-interface	Specify outgoing interface to reach server.	string	Maximum length: 15							
dhcp-server-ip	DHCP Server IPv4 address.	user	Not Specified							
dhcp6-server-ip	DHCPv6 server IPv6 address.	user	Not Specified							
gui-default-policy-columns <name>	Default columns to display for policy lists on GUI. Select column name.	string	Maximum length: 79							
link-down-access	Enable/disable link down access traffic.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Allow link down access traffic.</td></tr><tr><td><i>disable</i></td><td>Block link down access traffic.</td></tr></table>	Option	Description	<i>enable</i>	Allow link down access traffic.	<i>disable</i>	Block link down access traffic.			
	Option	Description								
	<i>enable</i>	Allow link down access traffic.								
<i>disable</i>	Block link down access traffic.									
asymroute	Enable/disable IPv4 asymmetric routing.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable IPv4 asymmetric routing.</td></tr><tr><td><i>disable</i></td><td>Disable IPv4 asymmetric routing.</td></tr></table>	Option	Description	<i>enable</i>	Enable IPv4 asymmetric routing.	<i>disable</i>	Disable IPv4 asymmetric routing.			
	Option	Description								
	<i>enable</i>	Enable IPv4 asymmetric routing.								
<i>disable</i>	Disable IPv4 asymmetric routing.									

Parameter	Description	Type	Size	Default						
asymroute-icmp	Enable/disable ICMP asymmetric routing.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable ICMP asymmetric routing.</td></tr><tr><td><i>disable</i></td><td>Disable ICMP asymmetric routing.</td></tr></table>	Option	Description	<i>enable</i>	Enable ICMP asymmetric routing.	<i>disable</i>	Disable ICMP asymmetric routing.			
Option	Description									
<i>enable</i>	Enable ICMP asymmetric routing.									
<i>disable</i>	Disable ICMP asymmetric routing.									
tcp-session-without-syn	Enable/disable allowing TCP session without SYN flags.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Allow TCP session without SYN flags.</td></tr><tr><td><i>disable</i></td><td>Do not allow TCP session without SYN flags.</td></tr></table>	Option	Description	<i>enable</i>	Allow TCP session without SYN flags.	<i>disable</i>	Do not allow TCP session without SYN flags.			
Option	Description									
<i>enable</i>	Allow TCP session without SYN flags.									
<i>disable</i>	Do not allow TCP session without SYN flags.									
ses-denied-traffic	Enable/disable including denied session in the session table.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Include denied sessions in the session table.</td></tr><tr><td><i>disable</i></td><td>Do not add denied sessions to the session table.</td></tr></table>	Option	Description	<i>enable</i>	Include denied sessions in the session table.	<i>disable</i>	Do not add denied sessions to the session table.			
Option	Description									
<i>enable</i>	Include denied sessions in the session table.									
<i>disable</i>	Do not add denied sessions to the session table.									
strict-src-check	Enable/disable strict source verification.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable strict source verification.</td></tr><tr><td><i>disable</i></td><td>Disable strict source verification.</td></tr></table>	Option	Description	<i>enable</i>	Enable strict source verification.	<i>disable</i>	Disable strict source verification.			
Option	Description									
<i>enable</i>	Enable strict source verification.									
<i>disable</i>	Disable strict source verification.									
allow-linkdown-path	Enable/disable link down path.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Allow link down path.</td></tr><tr><td><i>disable</i></td><td>Do not allow link down path.</td></tr></table>	Option	Description	<i>enable</i>	Allow link down path.	<i>disable</i>	Do not allow link down path.			
Option	Description									
<i>enable</i>	Allow link down path.									
<i>disable</i>	Do not allow link down path.									
asymroute6	Enable/disable asymmetric IPv6 routing.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable asymmetric IPv6 routing.</td></tr><tr><td><i>disable</i></td><td>Disable asymmetric IPv6 routing.</td></tr></table>	Option	Description	<i>enable</i>	Enable asymmetric IPv6 routing.	<i>disable</i>	Disable asymmetric IPv6 routing.			
Option	Description									
<i>enable</i>	Enable asymmetric IPv6 routing.									
<i>disable</i>	Disable asymmetric IPv6 routing.									

Parameter	Description	Type	Size	Default						
asymroute6-icmp	Enable/disable asymmetric ICMPv6 routing.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable asymmetric ICMPv6 routing.</td></tr><tr><td><i>disable</i></td><td>Disable asymmetric ICMPv6 routing.</td></tr></table>	Option	Description	<i>enable</i>	Enable asymmetric ICMPv6 routing.	<i>disable</i>	Disable asymmetric ICMPv6 routing.			
Option	Description									
<i>enable</i>	Enable asymmetric ICMPv6 routing.									
<i>disable</i>	Disable asymmetric ICMPv6 routing.									
sctp-session-without-init	Enable/disable Sctp session creation without Sctp INIT.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable Sctp session creation without Sctp INIT.</td></tr><tr><td><i>disable</i></td><td>Disable Sctp session creation without Sctp INIT.</td></tr></table>	Option	Description	<i>enable</i>	Enable Sctp session creation without Sctp INIT.	<i>disable</i>	Disable Sctp session creation without Sctp INIT.			
Option	Description									
<i>enable</i>	Enable Sctp session creation without Sctp INIT.									
<i>disable</i>	Disable Sctp session creation without Sctp INIT.									
status	Enable/disable this VDOM.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable this VDOM.</td></tr><tr><td><i>disable</i></td><td>Disable this VDOM.</td></tr></table>	Option	Description	<i>enable</i>	Enable this VDOM.	<i>disable</i>	Disable this VDOM.			
Option	Description									
<i>enable</i>	Enable this VDOM.									
<i>disable</i>	Disable this VDOM.									
allow-subnet-overlap	Enable/disable allowing interface subnets to use overlapping IP addresses.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable overlapping subnets.</td></tr><tr><td><i>disable</i></td><td>Disable overlapping subnets.</td></tr></table>	Option	Description	<i>enable</i>	Enable overlapping subnets.	<i>disable</i>	Disable overlapping subnets.			
Option	Description									
<i>enable</i>	Enable overlapping subnets.									
<i>disable</i>	Disable overlapping subnets.									
deny-tcp-with-icmp	Enable/disable denying TCP by sending an ICMP communication prohibited packet.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Deny TCP with ICMP.</td></tr><tr><td><i>disable</i></td><td>Disable denying TCP with ICMP.</td></tr></table>	Option	Description	<i>enable</i>	Deny TCP with ICMP.	<i>disable</i>	Disable denying TCP with ICMP.			
Option	Description									
<i>enable</i>	Deny TCP with ICMP.									
<i>disable</i>	Disable denying TCP with ICMP.									
discovered-device-timeout	Timeout for discovered devices (1 - 365 days, default = 28).	integer	Minimum value: 1 Maximum value: 365	28						
email-portal-check-dns	Enable/disable using DNS to validate email addresses collected by a captive portal.	option	-	enable						

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable email address checking with DNS.		
	<i>enable</i>	Enable email address checking with DNS.		
gui-proxy-inspection	Enable/disable the proxy features on the GUI.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable the proxy features on the GUI.		
	<i>disable</i>	Disable the proxy features on the GUI.		
gui-icap	Enable/disable ICAP on the GUI.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable ICAP on the GUI.		
	<i>disable</i>	Disable ICAP on the GUI.		
gui-implicit-policy	Enable/disable implicit firewall policies on the GUI.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable implicit firewall policies on the GUI.		
	<i>disable</i>	Disable implicit firewall policies on the GUI.		
gui-dns-database	Enable/disable DNS database settings on the GUI.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable DNS database settings on the GUI.		
	<i>disable</i>	Disable DNS database settings on the GUI.		
gui-multicast-policy	Enable/disable multicast firewall policies on the GUI.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable multicast firewall policies on the GUI.		
	<i>disable</i>	Disable multicast firewall policies on the GUI.		
gui-dos-policy	Enable/disable DoS policies on the GUI.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable DoS policies on the GUI.		
	<i>disable</i>	Disable DoS policies on the GUI.		
gui-object-colors	Enable/disable object colors on the GUI.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable object colors on the GUI.		
	<i>disable</i>	Disable object colors on the GUI.		
gui-route-tag-address-creation	Enable/disable route-tag addresses on the GUI.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable route-tag addresses on the GUI.		
	<i>disable</i>	Disable route-tag addresses on the GUI.		
gui-voip-profile	Enable/disable VoIP profiles on the GUI.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable VoIP profiles on the GUI.		
	<i>disable</i>	Disable VoIP profiles on the GUI.		
gui-security-profile-group	Enable/disable Security Profile Groups on the GUI.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable Security Profile Groups on the GUI.		
	<i>disable</i>	Disable Security Profile Groups on the GUI.		
gui-wanopt-cache	Enable/disable WAN Optimization and Web Caching on the GUI.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable WAN Optimization and Web Caching on the GUI.		
	<i>disable</i>	Disable WAN Optimization and Web Caching on the GUI.		
gui-explicit-proxy	Enable/disable the explicit proxy on the GUI.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable the explicit proxy on the GUI.		
	<i>disable</i>	Disable the explicit proxy on the GUI.		
gui-policy-based-ipsec	Enable/disable policy-based IPsec VPN on the GUI.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable policy-based IPsec VPN on the GUI.		
	<i>disable</i>	Disable policy-based IPsec VPN on the GUI.		
gui-threat-weight	Enable/disable threat weight on the GUI.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable threat weight on the GUI.		
	<i>disable</i>	Disable threat weight on the GUI.		
gui-spamfilter	Enable/disable Antispam on the GUI.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable Antispam on the GUI.		
	<i>disable</i>	Disable Antispam on the GUI.		
gui-file-filter	Enable/disable File-filter on the GUI.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable File-filter on the GUI.		
	<i>disable</i>	Disable File-filter on the GUI.		
gui-application-control	Enable/disable application control on the GUI.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable application control on the GUI.		
	<i>disable</i>	Disable application control on the GUI.		
gui-ips	Enable/disable IPS on the GUI.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable IPS on the GUI.		
	<i>disable</i>	Disable IPS on the GUI.		
gui-endpoint-control	Enable/disable endpoint control on the GUI.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable endpoint control on the GUI.		
	<i>disable</i>	Disable endpoint control on the GUI.		
gui-endpoint-control-advanced	Enable/disable advanced endpoint control options on the GUI.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable advanced endpoint control options on the GUI.		
	<i>disable</i>	Disable advanced endpoint control options on the GUI.		
gui-dhcp-advanced	Enable/disable advanced DHCP options on the GUI.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable advanced DHCP options on the GUI.		
	<i>disable</i>	Disable advanced DHCP options on the GUI.		
gui-vpn	Enable/disable IPsec VPN settings pages on the GUI.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable IPsec VPN settings pages on the GUI.		
	<i>disable</i>	Disable IPsec VPN settings pages on the GUI.		
gui-webfilter-advanced	Enable/disable advanced web filtering on the GUI.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable advanced web filtering on the GUI.		
	<i>disable</i>	Disable advanced web filtering on the GUI.		

Parameter	Description	Type	Size	Default						
gui-traffic-shaping	Enable/disable traffic shaping on the GUI.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable traffic shaping on the GUI.</td></tr><tr><td><i>disable</i></td><td>Disable traffic shaping on the GUI.</td></tr></table>	Option	Description	<i>enable</i>	Enable traffic shaping on the GUI.	<i>disable</i>	Disable traffic shaping on the GUI.			
Option	Description									
<i>enable</i>	Enable traffic shaping on the GUI.									
<i>disable</i>	Disable traffic shaping on the GUI.									
gui-antivirus	Enable/disable AntiVirus on the GUI.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable AntiVirus on the GUI.</td></tr><tr><td><i>disable</i></td><td>Disable AntiVirus on the GUI.</td></tr></table>	Option	Description	<i>enable</i>	Enable AntiVirus on the GUI.	<i>disable</i>	Disable AntiVirus on the GUI.			
Option	Description									
<i>enable</i>	Enable AntiVirus on the GUI.									
<i>disable</i>	Disable AntiVirus on the GUI.									
gui-webfilter	Enable/disable Web filtering on the GUI.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable Web filtering on the GUI.</td></tr><tr><td><i>disable</i></td><td>Disable Web filtering on the GUI.</td></tr></table>	Option	Description	<i>enable</i>	Enable Web filtering on the GUI.	<i>disable</i>	Disable Web filtering on the GUI.			
Option	Description									
<i>enable</i>	Enable Web filtering on the GUI.									
<i>disable</i>	Disable Web filtering on the GUI.									
gui-videofilter	Enable/disable Video filtering on the GUI.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable Video filtering on the GUI.</td></tr><tr><td><i>disable</i></td><td>Disable Video filtering on the GUI.</td></tr></table>	Option	Description	<i>enable</i>	Enable Video filtering on the GUI.	<i>disable</i>	Disable Video filtering on the GUI.			
Option	Description									
<i>enable</i>	Enable Video filtering on the GUI.									
<i>disable</i>	Disable Video filtering on the GUI.									
gui-dnsfilter	Enable/disable DNS Filtering on the GUI.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable DNS Filtering on the GUI.</td></tr><tr><td><i>disable</i></td><td>Disable DNS Filtering on the GUI.</td></tr></table>	Option	Description	<i>enable</i>	Enable DNS Filtering on the GUI.	<i>disable</i>	Disable DNS Filtering on the GUI.			
Option	Description									
<i>enable</i>	Enable DNS Filtering on the GUI.									
<i>disable</i>	Disable DNS Filtering on the GUI.									
gui-virtual-patch-profile	Enable/disable Virtual Patching on the GUI.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable Virtual Patching on the GUI.</td></tr><tr><td><i>disable</i></td><td>Disable Virtual Patching on the GUI.</td></tr></table>	Option	Description	<i>enable</i>	Enable Virtual Patching on the GUI.	<i>disable</i>	Disable Virtual Patching on the GUI.			
Option	Description									
<i>enable</i>	Enable Virtual Patching on the GUI.									
<i>disable</i>	Disable Virtual Patching on the GUI.									
gui-dlp-profile	Enable/disable Data Loss Prevention on the GUI.	option	-	disable						

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable Data Loss Prevention on the GUI.		
	<i>disable</i>	Disable Data Loss Prevention on the GUI.		
gui-advanced-policy	Enable/disable advanced policy configuration on the GUI.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable advanced policy configuration on the GUI.		
	<i>disable</i>	Disable advanced policy configuration on the GUI.		
gui-allow-unnamed-policy	Enable/disable the requirement for policy naming on the GUI.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable the requirement for policy naming on the GUI.		
	<i>disable</i>	Disable the requirement for policy naming on the GUI.		
gui-email-collection	Enable/disable email collection on the GUI.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable email collection on the GUI.		
	<i>disable</i>	Disable email collection on the GUI.		
gui-multiple-interface-policy	Enable/disable adding multiple interfaces to a policy on the GUI.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable adding multiple interfaces to a policy on the GUI.		
	<i>disable</i>	Disable adding multiple interfaces to a policy on the GUI.		
gui-policy-disclaimer	Enable/disable policy disclaimer on the GUI.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable policy disclaimer on the GUI.		
	<i>disable</i>	Disable policy disclaimer on the GUI.		

Parameter	Description	Type	Size	Default						
gui-ztna	Enable/disable Zero Trust Network Access features on the GUI.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable Zero Trust Network Access features on the GUI.</td></tr><tr><td><i>disable</i></td><td>Disable Zero Trust Network Access features on the GUI.</td></tr></table>	Option	Description	<i>enable</i>	Enable Zero Trust Network Access features on the GUI.	<i>disable</i>	Disable Zero Trust Network Access features on the GUI.			
Option	Description									
<i>enable</i>	Enable Zero Trust Network Access features on the GUI.									
<i>disable</i>	Disable Zero Trust Network Access features on the GUI.									
gui-ot	Enable/disable Operational technology features on the GUI.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable Operational technology features on the GUI.</td></tr><tr><td><i>disable</i></td><td>Disable Operational technology features on the GUI.</td></tr></table>	Option	Description	<i>enable</i>	Enable Operational technology features on the GUI.	<i>disable</i>	Disable Operational technology features on the GUI.			
Option	Description									
<i>enable</i>	Enable Operational technology features on the GUI.									
<i>disable</i>	Disable Operational technology features on the GUI.									
gui-dynamic-device-os-id	Enable/disable Create dynamic addresses to manage known devices.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable Create dynamic addresses to manage known devices.</td></tr><tr><td><i>disable</i></td><td>Disable Create dynamic addresses to manage known devices.</td></tr></table>	Option	Description	<i>enable</i>	Enable Create dynamic addresses to manage known devices.	<i>disable</i>	Disable Create dynamic addresses to manage known devices.			
Option	Description									
<i>enable</i>	Enable Create dynamic addresses to manage known devices.									
<i>disable</i>	Disable Create dynamic addresses to manage known devices.									
block-land-attack	Enable/disable blocking of land attacks.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Do not block land attack.</td></tr><tr><td><i>enable</i></td><td>Block land attack.</td></tr></table>	Option	Description	<i>disable</i>	Do not block land attack.	<i>enable</i>	Block land attack.			
Option	Description									
<i>disable</i>	Do not block land attack.									
<i>enable</i>	Block land attack.									
default-app-port-as-service	Enable/disable policy service enforcement based on application default ports.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									
application-bandwidth-tracking	Enable/disable application bandwidth tracking.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable application bandwidth tracking.</td></tr></table>	Option	Description	<i>disable</i>	Disable application bandwidth tracking.					
Option	Description									
<i>disable</i>	Disable application bandwidth tracking.									

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable application bandwidth tracking.		
default-policy-expiry-days	Default policy expiry in days (0 - 365 days, default = 30).	integer	Minimum value: 0 Maximum value: 365	30
gui-enforce-change-summary	Enforce change summaries for select tables in the GUI.	option	-	require
	Option	Description		
	<i>disable</i>	No change summary requirement.		
	<i>require</i>	Change summary required.		
	<i>optional</i>	Change summary optional.		
internet-service-database-cache	Enable/disable Internet Service database caching.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable Internet Service database caching.		
	<i>enable</i>	Enable Internet Service database caching.		

config system sms-server

Configure SMS server for sending SMS messages to support user authentication.

```
config system sms-server
    Description: Configure SMS server for sending SMS messages to support user
authentication.
    edit <name>
        set mail-server {string}
    next
end
```

config system sms-server

Parameter	Description	Type	Size	Default
name	Name of SMS server.	string	Maximum length: 35	
mail-server	Email-to-SMS server domain name.	string	Maximum length: 63	

config system snmp community

SNMP community configuration.

```
config system snmp community
  Description: SNMP community configuration.
  edit <id>
    set name {string}
    set status [enable|disable]
    config hosts
      Description: Configure IPv4 SNMP managers (hosts).
      edit <id>
        set source-ip {ipv4-address}
        set ip {user}
        set ha-direct [enable|disable]
        set host-type [any|query|...]
      next
    end
  config hosts6
    Description: Configure IPv6 SNMP managers.
    edit <id>
      set source-ipv6 {ipv6-address}
      set ipv6 {ipv6-prefix}
      set ha-direct [enable|disable]
      set host-type [any|query|...]
    next
  end
  set query-v1-status [enable|disable]
  set query-v1-port {integer}
  set query-v2c-status [enable|disable]
  set query-v2c-port {integer}
  set trap-v1-status [enable|disable]
  set trap-v1-lport {integer}
  set trap-v1-rport {integer}
  set trap-v2c-status [enable|disable]
  set trap-v2c-lport {integer}
  set trap-v2c-rport {integer}
  set events {option1}, {option2}, ...
  set mib-view {string}
  set vdoms <name1>, <name2>, ...
next
end
```

config system snmp community

Parameter	Description	Type	Size	Default						
id	Community ID.	integer	Minimum value: 0 Maximum value: 4294967295	0						
name	Community name.	string	Maximum length: 35							
status	Enable/disable this SNMP community.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>				Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.
	Option	Description								
	<i>enable</i>	Enable setting.								
<i>disable</i>	Disable setting.									
query-v1-status	Enable/disable SNMP v1 queries.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>				Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.
	Option	Description								
	<i>enable</i>	Enable setting.								
<i>disable</i>	Disable setting.									
query-v1-port	SNMP v1 query port (default = 161).	integer	Minimum value: 1 Maximum value: 65535	161						
query-v2c-status	Enable/disable SNMP v2c queries.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>				Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.
	Option	Description								
	<i>enable</i>	Enable setting.								
<i>disable</i>	Disable setting.									
query-v2c-port	SNMP v2c query port (default = 161).	integer	Minimum value: 0 Maximum value: 65535	161						
trap-v1-status	Enable/disable SNMP v1 traps.	option	-	enable						

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
trap-v1-lport	SNMP v1 trap local port (default = 162).	integer	Minimum value: 1 Maximum value: 65535	162
trap-v1-rport	SNMP v1 trap remote port (default = 162).	integer	Minimum value: 1 Maximum value: 65535	162
trap-v2c-status	Enable/disable SNMP v2c traps.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
trap-v2c-lport	SNMP v2c trap local port (default = 162).	integer	Minimum value: 1 Maximum value: 65535	162
trap-v2c-rport	SNMP v2c trap remote port (default = 162).	integer	Minimum value: 1 Maximum value: 65535	162

Parameter	Description	Type	Size	Default
events	SNMP trap events.	option	-	cpu-high mem-low log- full intf-ip vpn- tun-up vpn- tun-down ha- switch ha-hb- failure ips- signature ips- anomaly av- virus av- oversize av- pattern av- fragmented fm-if-change ha-member- up ha- member- down ent- conf-change av-conserve av-bypass av- oversize- passed av- oversize- blocked ips- pkg-update ips-fail-open faz- disconnect faz load- balance-real- server-down per-cpu-high dhcp pool- usage cert- expiry

Option	Description
<i>cpu-high</i>	Send a trap when CPU usage is high.
<i>mem-low</i>	Send a trap when used memory is high, free memory is low, or freeable memory is high.
<i>log-full</i>	Send a trap when log disk space becomes low.
<i>intf-ip</i>	Send a trap when an interface IP address is changed.

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>vpn-tun-up</i>	Send a trap when a VPN tunnel comes up.		
	<i>vpn-tun-down</i>	Send a trap when a VPN tunnel goes down.		
	<i>ha-switch</i>	Send a trap after an HA failover when the backup unit has taken over.		
	<i>ha-hb-failure</i>	Send a trap when HA heartbeats are not received.		
	<i>ips-signature</i>	Send a trap when IPS detects an attack.		
	<i>ips-anomaly</i>	Send a trap when IPS finds an anomaly.		
	<i>av-virus</i>	Send a trap when AntiVirus finds a virus.		
	<i>av-oversize</i>	Send a trap when AntiVirus finds an oversized file.		
	<i>av-pattern</i>	Send a trap when AntiVirus finds file matching pattern.		
	<i>av-fragmented</i>	Send a trap when AntiVirus finds a fragmented file.		
	<i>fm-if-change</i>	Send a trap when FortiManager interface changes. Send a FortiManager trap.		
	<i>fm-conf-change</i>	Send a trap when a configuration change is made by a FortiProxy administrator and the FortiProxy is managed by FortiManager.		
	<i>ha-member-up</i>	Send a trap when an HA cluster member goes up.		
	<i>ha-member-down</i>	Send a trap when an HA cluster member goes down.		
	<i>ent-conf-change</i>	Send a trap when an entity MIB change occurs (RFC4133).		
	<i>av-conserve</i>	Send a trap when the FortiProxy enters conserve mode.		
	<i>av-bypass</i>	Send a trap when the FortiProxy enters bypass mode.		
	<i>av-oversize-passed</i>	Send a trap when AntiVirus passes an oversized file.		
	<i>av-oversize-blocked</i>	Send a trap when AntiVirus blocks an oversized file.		
	<i>ips-pkg-update</i>	Send a trap when the IPS signature database or engine is updated.		
	<i>ips-fail-open</i>	Send a trap when the IPS network buffer is full.		
	<i>faz-disconnect</i>	Send a trap when a FortiAnalyzer disconnects from the FortiProxy.		
	<i>faz</i>	Send a trap when Fortianalyzer main server failover and alternate server take over, or alternate server failover and main server take over.		
	<i>load-balance-real-server-down</i>	Send a trap when a server load balance real server goes down.		
	<i>device-new</i>	Send a trap when a new device is found.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>per-cpu-high</i>	Send a trap when per-CPU usage is high.		
	<i>dhcp</i>	Send a trap when the DHCP server exhausts the IP pool, an IP address already is in use, or a DHCP client interface received a DHCP-NAK.		
	<i>pool-usage</i>	Send a trap about ippool usage.		
	<i>cert-expiry</i>	Send a trap when a local certificate is near expiry.		
mib-view	SNMP access control MIB view.	string	Maximum length: 32	
vdoms <name>	SNMP access control VDOMs. VDOM name.	string	Maximum length: 79	

config hosts

Parameter	Description	Type	Size	Default								
id	Host entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0								
source-ip	Source IPv4 address for SNMP traps.	ipv4-address	Not Specified	0.0.0.0								
ip	IPv4 address of the SNMP manager (host).	user	Not Specified									
ha-direct	Enable/disable direct management of HA cluster members.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>				Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.		
Option	Description											
<i>enable</i>	Enable setting.											
<i>disable</i>	Disable setting.											
host-type	Control whether the SNMP manager sends SNMP queries, receives SNMP traps, or both. No traps will be sent when IP type is subnet.	option	-	any								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>any</i></td><td>Accept queries from and send traps to this SNMP manager.</td></tr><tr><td><i>query</i></td><td>Accept queries from this SNMP manager but do not send traps.</td></tr><tr><td><i>trap</i></td><td>Send traps to this SNMP manager but do not accept SNMP queries from this SNMP manager.</td></tr></table>				Option	Description	<i>any</i>	Accept queries from and send traps to this SNMP manager.	<i>query</i>	Accept queries from this SNMP manager but do not send traps.	<i>trap</i>	Send traps to this SNMP manager but do not accept SNMP queries from this SNMP manager.
Option	Description											
<i>any</i>	Accept queries from and send traps to this SNMP manager.											
<i>query</i>	Accept queries from this SNMP manager but do not send traps.											
<i>trap</i>	Send traps to this SNMP manager but do not accept SNMP queries from this SNMP manager.											

config hosts6

Parameter	Description	Type	Size	Default
id	Host6 entry ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
source-ipv6	Source IPv6 address for SNMP traps.	ipv6-address	Not Specified	::
ipv6	SNMP manager IPv6 address prefix.	ipv6-prefix	Not Specified	::/0
ha-direct	Enable/disable direct management of HA cluster members.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
host-type	Control whether the SNMP manager sends SNMP queries, receives SNMP traps, or both.	option	-	any
	Option	Description		
	<i>any</i>	Accept queries from and send traps to this SNMP manager.		
	<i>query</i>	Accept queries from this SNMP manager but do not send traps.		
	<i>trap</i>	Send traps to this SNMP manager but do not accept SNMP queries from this SNMP manager.		

config system snmp mib-view

SNMP Access Control MIB View configuration.

```
config system snmp mib-view
  Description: SNMP Access Control MIB View configuration.
  edit <name>
    set include {string}
    set exclude {string}
  next
end
```


config system snmp mib-view

Parameter	Description	Type	Size	Default
name	MIB view name.	string	Maximum length: 32	
include	OID subtrees to be included in the view. Maximum 16 allowed.	string	Maximum length: 79	
exclude	OID subtrees to be excluded in the view. Maximum 64 allowed.	string	Maximum length: 79	

config system snmp sysinfo

SNMP system info configuration.

```
config system snmp sysinfo
    Description: SNMP system info configuration.
    set status [enable|disable]
    set engine-id-type [text|hex|...]
    set engine-id {string}
    set description {var-string}
    set contact-info {var-string}
    set location {var-string}
    set trap-high-cpu-threshold {integer}
    set trap-low-memory-threshold {integer}
    set trap-log-full-threshold {integer}
    set trap-free-memory-threshold {integer}
    set trap-freeable-memory-threshold {integer}
    set append-index [enable|disable]
end
```

config system snmp sysinfo

Parameter	Description	Type	Size	Default
status	Enable/disable SNMP.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
engine-id-type	Local SNMP engineID type (text/hex/mac).	option	-	text

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>text</i>	Text format.		
	<i>hex</i>	Octets format.		
	<i>mac</i>	MAC address format.		
engine-id	Local SNMP engineID string (maximum 27 characters).	string	Maximum length: 54	
description	System description.	var-string	Maximum length: 255	
contact-info	Contact information.	var-string	Maximum length: 255	
location	System location.	var-string	Maximum length: 255	
trap-high-cpu-threshold	CPU usage when trap is sent.	integer	Minimum value: 1 Maximum value: 100	80
trap-low-memory-threshold	Memory usage when trap is sent.	integer	Minimum value: 1 Maximum value: 100	80
trap-log-full-threshold	Log disk usage when trap is sent.	integer	Minimum value: 1 Maximum value: 100	90
trap-free-memory-threshold	Free memory usage when trap is sent.	integer	Minimum value: 1 Maximum value: 100	5
trap-freeable-memory-threshold	Freeable memory usage when trap is sent.	integer	Minimum value: 1 Maximum value: 100	60
append-index	Enable/disable allowance of appending vdom or interface index in some RFC tables.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		

config system snmp user

SNMP user configuration.

```
config system snmp user
  Description: SNMP user configuration.
  edit <name>
    set status [enable|disable]
    set trap-status [enable|disable]
    set trap-lport {integer}
    set trap-rport {integer}
    set queries [enable|disable]
    set query-port {integer}
    set notify-hosts {ipv4-address}
    set notify-hosts6 {ipv6-address}
    set source-ip {ipv4-address}
    set source-ipv6 {ipv6-address}
    set ha-direct [enable|disable]
    set events {option1}, {option2}, ...
    set mib-view {string}
    set vdoms <name1>, <name2>, ...
    set security-level [no-auth-no-priv|auth-no-priv|...]
    set auth-proto [md5|sha|...]
    set auth-pwd {password}
    set priv-proto [aes|des|...]
    set priv-pwd {password}
  next
end
```

config system snmp user

Parameter	Description	Type	Size	Default
name	SNMP user name.	string	Maximum length: 32	
status	Enable/disable this SNMP user.	option	-	enable
	Option	Description		
	enable	Enable setting.		
	disable	Disable setting.		
trap-status	Enable/disable traps for this SNMP user.	option	-	enable
	Option	Description		
	enable	Enable setting.		
	disable	Disable setting.		

Parameter	Description	Type	Size	Default
trap-lport	SNMPv3 local trap port (default = 162).	integer	Minimum value: 1 Maximum value: 65535	162
trap-rport	SNMPv3 trap remote port (default = 162).	integer	Minimum value: 1 Maximum value: 65535	162
queries	Enable/disable SNMP queries for this user.	option	-	enable
	Option	Description		
	enable	Enable setting.		
	disable	Disable setting.		
query-port	SNMPv3 query port (default = 161).	integer	Minimum value: 1 Maximum value: 65535	161
notify-hosts	SNMP managers to send notifications (traps) to.	ipv4-address	Not Specified	
notify-hosts6	IPv6 SNMP managers to send notifications (traps) to.	ipv6-address	Not Specified	
source-ip	Source IP for SNMP trap.	ipv4-address	Not Specified	0.0.0.0
source-ipv6	Source IPv6 for SNMP trap.	ipv6-address	Not Specified	::
ha-direct	Enable/disable direct management of HA cluster members.	option	-	disable
	Option	Description		
	enable	Enable setting.		
	disable	Disable setting.		

Parameter	Description	Type	Size	Default
events	SNMP notifications (traps) to send.	option	-	cpu-high mem-low log- full intf-ip vpn- tun-up vpn- tun-down ha- switch ha-hb- failure ips- signature ips- anomaly av- virus av- oversize av- pattern av- fragmented fm-if-change ha-member- up ha- member- down ent- conf-change av-conserve av-bypass av- oversize- passed av- oversize- blocked ips- pkg-update ips-fail-open faz- disconnect faz load- balance-real- server-down per-cpu-high dhcp pool- usage cert- expiry

Option	Description
<i>cpu-high</i>	Send a trap when CPU usage is high.
<i>mem-low</i>	Send a trap when used memory is high, free memory is low, or freeable memory is high.
<i>log-full</i>	Send a trap when log disk space becomes low.
<i>intf-ip</i>	Send a trap when an interface IP address is changed.

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>vpn-tun-up</i>	Send a trap when a VPN tunnel comes up.		
	<i>vpn-tun-down</i>	Send a trap when a VPN tunnel goes down.		
	<i>ha-switch</i>	Send a trap after an HA failover when the backup unit has taken over.		
	<i>ha-hb-failure</i>	Send a trap when HA heartbeats are not received.		
	<i>ips-signature</i>	Send a trap when IPS detects an attack.		
	<i>ips-anomaly</i>	Send a trap when IPS finds an anomaly.		
	<i>av-virus</i>	Send a trap when AntiVirus finds a virus.		
	<i>av-oversize</i>	Send a trap when AntiVirus finds an oversized file.		
	<i>av-pattern</i>	Send a trap when AntiVirus finds file matching pattern.		
	<i>av-fragmented</i>	Send a trap when AntiVirus finds a fragmented file.		
	<i>fm-if-change</i>	Send a trap when FortiManager interface changes. Send a FortiManager trap.		
	<i>fm-conf-change</i>	Send a trap when a configuration change is made by a FortiProxy administrator and the FortiProxy is managed by FortiManager.		
	<i>ha-member-up</i>	Send a trap when an HA cluster member goes up.		
	<i>ha-member-down</i>	Send a trap when an HA cluster member goes down.		
	<i>ent-conf-change</i>	Send a trap when an entity MIB change occurs (RFC4133).		
	<i>av-conserve</i>	Send a trap when the FortiProxy enters conserve mode.		
	<i>av-bypass</i>	Send a trap when the FortiProxy enters bypass mode.		
	<i>av-oversize-passed</i>	Send a trap when AntiVirus passes an oversized file.		
	<i>av-oversize-blocked</i>	Send a trap when AntiVirus blocks an oversized file.		
	<i>ips-pkg-update</i>	Send a trap when the IPS signature database or engine is updated.		
	<i>ips-fail-open</i>	Send a trap when the IPS network buffer is full.		
	<i>faz-disconnect</i>	Send a trap when a FortiAnalyzer disconnects from the FortiProxy.		
	<i>faz</i>	Send a trap when Fortianalyzer main server failover and alternate server take over, or alternate server failover and main server take over.		
	<i>load-balance-real-server-down</i>	Send a trap when a server load balance real server goes down.		
	<i>device-new</i>	Send a trap when a new device is found.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>per-cpu-high</i>	Send a trap when per-CPU usage is high.		
	<i>dhcp</i>	Send a trap when the DHCP server exhausts the IP pool, an IP address already is in use, or a DHCP client interface received a DHCP-NAK.		
	<i>pool-usage</i>	Send a trap about ippool usage.		
	<i>cert-expiry</i>	Send a trap when a local certificate is near expiry.		
mib-view	SNMP access control MIB view.	string	Maximum length: 32	
vdoms <name>	SNMP access control VDOMs. VDOM name.	string	Maximum length: 79	
security-level	Security level for message authentication and encryption.	option	-	no-auth-no-priv
	Option	Description		
	<i>no-auth-no-priv</i>	Message with no authentication and no privacy (encryption).		
	<i>auth-no-priv</i>	Message with authentication but no privacy (encryption).		
	<i>auth-priv</i>	Message with authentication and privacy (encryption).		
auth-protocol	Authentication protocol.	option	-	sha
	Option	Description		
	<i>md5</i>	HMAC-MD5-96 authentication protocol.		
	<i>sha</i>	HMAC-SHA-96 authentication protocol.		
	<i>sha224</i>	HMAC-SHA224 authentication protocol.		
	<i>sha256</i>	HMAC-SHA256 authentication protocol.		
	<i>sha384</i>	HMAC-SHA384 authentication protocol.		
	<i>sha512</i>	HMAC-SHA512 authentication protocol.		
auth-pwd	Password for authentication protocol.	password	Not Specified	
priv-protocol	Privacy (encryption) protocol.	option	-	aes
	Option	Description		
	<i>aes</i>	CFB128-AES-128 symmetric encryption protocol.		
	<i>des</i>	CBC-DES symmetric encryption protocol.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>aes256</i>	CFB128-AES-256 symmetric encryption protocol.		
	<i>aes256cisco</i>	CFB128-AES-256 symmetric encryption protocol compatible with CISCO.		
priv-pwd	Password for privacy (encryption) protocol.	password	Not Specified	

config system source-ip status

Show configured service source-IP.

```
config system source-ip status
    Description: Show configured service source-IP.
end
```

config system span-port

Configure SPAN port.

```
config system span-port
    Description: Configure SPAN port.
    edit <id>
        set status [disable|enable]
        set span-source-port {string}
        set span-dest-port {string}
        set span-direction [rx|tx|...]
    next
end
```

config system span-port

Parameter	Description	Type	Size	Default
id	SPAN port id.	integer	Minimum value: 0 Maximum value: 4294967295	0
status	Enable/disable SPAN.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable SPAN.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable SPAN.		
span-source-port	SPAN source ports.	string	Maximum length: 15	
span-dest-port	SPAN destination port.	string	Maximum length: 15	
span-direction	SPAN direction.	option	-	both
	Option	Description		
	<i>rx</i>	Span receive direction only.		
	<i>tx</i>	Span transmit direction only.		
	<i>both</i>	Span both directions.		

config system speed-test-schedule

Speed test schedule for each interface.

```

config system speed-test-schedule
    Description: Speed test schedule for each interface.
    edit <interface>
        set status [disable|enable]
        set diffserv {user}
        set server-name {string}
        set mode [UDP|TCP|...]
        set schedules <name1>, <name2>, ...
        set dynamic-server [disable|enable]
        set ctrl-port {integer}
        set server-port {integer}
        set update-shaper [disable|local|...]
        set update-inbandwidth [disable|enable]
        set update-outbandwidth [disable|enable]
        set update-inbandwidth-maximum {integer}
        set update-inbandwidth-minimum {integer}
        set update-outbandwidth-maximum {integer}
        set update-outbandwidth-minimum {integer}
    next
end

```

config system speed-test-schedule

Parameter	Description	Type	Size	Default
interface	Interface name.	string	Maximum length: 35	
status	Enable/disable scheduled speed test.	option	-	enable
	Option	Description		
	<i>disable</i>	Disable scheduled speed test.		
	<i>enable</i>	Enable scheduled speed test.		
diffserv	DSCP used for speed test.	user	Not Specified	
server-name	Speed test server name.	string	Maximum length: 35	
mode	Protocol Auto(default), TCP or UDP used for speed test.	option	-	Auto
	Option	Description		
	<i>UDP</i>	Protocol UDP for speed test.		
	<i>TCP</i>	Protocol TCP for speed test.		
	<i>Auto</i>	Dynamically selects TCP or UDP based on the speed test setting		
schedules <name>	Schedules for the interface. Name of a firewall recurring schedule.	string	Maximum length: 31	
dynamic-server	Enable/disable dynamic server option.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable dynamic server.		
	<i>enable</i>	Enable dynamic server. The speed test server will be found automatically.		
ctrl-port	Port of the controller to get access token.	integer	Minimum value: 1 Maximum value: 65535	5200
server-port	Port of the server to run speed test.	integer	Minimum value: 1 Maximum value: 65535	5201

Parameter	Description	Type	Size	Default										
update-shaper	Set egress shaper based on the test result.	option	-	disable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable updating egress shaper.</td></tr><tr><td><i>local</i></td><td>Update local-side egress shaper.</td></tr><tr><td><i>remote</i></td><td>Update remote-side egress shaper.</td></tr><tr><td><i>both</i></td><td>Update both local-side and remote-side egress shaper.</td></tr></table>	Option	Description	<i>disable</i>	Disable updating egress shaper.	<i>local</i>	Update local-side egress shaper.	<i>remote</i>	Update remote-side egress shaper.	<i>both</i>	Update both local-side and remote-side egress shaper.			
	Option	Description												
	<i>disable</i>	Disable updating egress shaper.												
	<i>local</i>	Update local-side egress shaper.												
	<i>remote</i>	Update remote-side egress shaper.												
	<i>both</i>	Update both local-side and remote-side egress shaper.												
update-inbandwidth	Enable/disable bypassing interface's inbound bandwidth setting.	option	-	disable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Honor interface's inbandwidth shaping.</td></tr><tr><td><i>enable</i></td><td>Ignore interface's inbandwidth shaping.</td></tr></table>	Option	Description	<i>disable</i>	Honor interface's inbandwidth shaping.	<i>enable</i>	Ignore interface's inbandwidth shaping.							
	Option	Description												
	<i>disable</i>	Honor interface's inbandwidth shaping.												
	<i>enable</i>	Ignore interface's inbandwidth shaping.												
update-outbandwidth	Enable/disable bypassing interface's outbound bandwidth setting.	option	-	disable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Honor interface's outbandwidth shaping.</td></tr><tr><td><i>enable</i></td><td>Ignore updating interface's outbandwidth shaping.</td></tr></table>	Option	Description	<i>disable</i>	Honor interface's outbandwidth shaping.	<i>enable</i>	Ignore updating interface's outbandwidth shaping.							
	Option	Description												
	<i>disable</i>	Honor interface's outbandwidth shaping.												
	<i>enable</i>	Ignore updating interface's outbandwidth shaping.												
update-inbandwidth-maximum	Maximum downloading bandwidth (kbps) to be used in a speed test.	integer	Minimum value: 0 Maximum value: 16776000	0										
update-inbandwidth-minimum	Minimum downloading bandwidth (kbps) to be considered effective.	integer	Minimum value: 0 Maximum value: 16776000	0										
update-outbandwidth-maximum	Maximum uploading bandwidth (kbps) to be used in a speed test.	integer	Minimum value: 0 Maximum value: 16776000	0										
update-outbandwidth-minimum	Minimum uploading bandwidth (kbps) to be considered effective.	integer	Minimum value: 0 Maximum value: 16776000	0										

config system speed-test-server

Configure speed test server list.

```
config system speed-test-server
  Description: Configure speed test server list.
  edit <name>
    set timestamp {integer}
    config host
      Description: Hosts of the server.
      edit <id>
        set ip {ipv4-address}
        set port {integer}
        set user {string}
        set password {password}
        set longitude {string}
        set latitude {string}
        set distance {integer}
      next
    end
  next
end
```

config system speed-test-server

Parameter	Description	Type	Size	Default
name	Speed test server name.	string	Maximum length: 35	
timestamp	Speed test server timestamp.	integer	Minimum value: 0 Maximum value: 4294967295	0

config host

Parameter	Description	Type	Size	Default
id	Server host ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
ip	Server host IPv4 address.	ipv4-address	Not Specified	0.0.0.0

Parameter	Description	Type	Size	Default
port	Server host port number to communicate with client.	integer	Minimum value: 1 Maximum value: 65535	5204
user	Speed test host user name.	string	Maximum length: 64	
password	Speed test host password.	password	Not Specified	
longitude	Speed test host longitude.	string	Maximum length: 7	
latitude	Speed test host latitude.	string	Maximum length: 7	
distance	Speed test host distance.	integer	Minimum value: 0 Maximum value: 4294967295	0

config system speed-test-setting

Configure speed test setting.

```
config system speed-test-setting
    Description: Configure speed test setting.
    set latency-threshold {integer}
    set multiple-tcp-stream {integer}
end
```

config system speed-test-setting

Parameter	Description	Type	Size	Default
latency-threshold	Speed test latency threshold in milliseconds (0 - 2000, default = 60) for the Auto mode. If the latency exceeds this threshold, the speed test will use the UDP protocol; otherwise, it will use the TCP protocol.	integer	Minimum value: 0 Maximum value: 2000	60
multiple-tcp-stream	Number of parallel client streams (1 - 64, default = 4) for the TCP protocol to run during the speed test.	integer	Minimum value: 1 Maximum value: 64	4

config system ssh-config

Configure SSH config.

```
config system ssh-config
  Description: Configure SSH config.
  set ssh-kex-algo {option1}, {option2}, ...
  set ssh-enc-algo {option1}, {option2}, ...
  set ssh-mac-algo {option1}, {option2}, ...
  set ssh-hsk-algo {option1}, {option2}, ...
  set ssh-hsk-override [disable|enable]
  set ssh-hsk-password {password}
  set ssh-hsk {user}
end
```

config system ssh-config

Parameter	Description	Type	Size	Default
ssh-kex-algo	Select one or more SSH kex algorithms.	option	-	diffie-hellman-group14-sha256 diffie-hellman-group16-sha512 diffie-hellman-group18-sha512 diffie-hellman-group-exchange-sha256 curve25519-sha256@libssh.org ecdh-sha2-nistp256 ecdh-sha2-nistp384 ecdh-sha2-nistp521
		Option	Description	
		<i>diffie-hellman-group1-sha1</i>	diffie-hellman-group1-sha1	
		<i>diffie-hellman-group14-sha1</i>	diffie-hellman-group14-sha1	
		<i>diffie-hellman-group14-sha256</i>	diffie-hellman-group14-sha256	
		<i>diffie-hellman-group16-sha512</i>	diffie-hellman-group16-sha512	
		<i>diffie-hellman-group18-sha512</i>	diffie-hellman-group18-sha512	
		<i>diffie-hellman-group-exchange-sha1</i>	diffie-hellman-group-exchange-sha1	

Parameter	Description	Type	Size	Default																																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>diffie-hellman-group-exchange-sha256</i></td><td>diffie-hellman-group-exchange-sha256</td></tr><tr><td><i>curve25519-sha256@libssh.org</i></td><td>curve25519-sha256@libssh.org</td></tr><tr><td><i>ecdh-sha2-nistp256</i></td><td>ecdh-sha2-nistp256</td></tr><tr><td><i>ecdh-sha2-nistp384</i></td><td>ecdh-sha2-nistp384</td></tr><tr><td><i>ecdh-sha2-nistp521</i></td><td>ecdh-sha2-nistp521</td></tr></table>	Option	Description	<i>diffie-hellman-group-exchange-sha256</i>	diffie-hellman-group-exchange-sha256	<i>curve25519-sha256@libssh.org</i>	curve25519-sha256@libssh.org	<i>ecdh-sha2-nistp256</i>	ecdh-sha2-nistp256	<i>ecdh-sha2-nistp384</i>	ecdh-sha2-nistp384	<i>ecdh-sha2-nistp521</i>	ecdh-sha2-nistp521																									
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	<i>curve25519-sha256@libssh.org</i>	curve25519-sha256@libssh.org																																				
	<i>ecdh-sha2-nistp256</i>	ecdh-sha2-nistp256																																				
	<i>ecdh-sha2-nistp384</i>	ecdh-sha2-nistp384																																				
<i>ecdh-sha2-nistp521</i>	ecdh-sha2-nistp521																																					
ssh-enc-algo	Select one or more SSH ciphers.	option	-	aes256-ctr aes256-gcm@openssh.com																																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>chacha20-poly1305@openssh.com</i></td><td>chacha20-poly1305@openssh.com</td></tr><tr><td><i>aes128-ctr</i></td><td>aes128-ctr</td></tr><tr><td><i>aes192-ctr</i></td><td>aes192-ctr</td></tr><tr><td><i>aes256-ctr</i></td><td>aes256-ctr</td></tr><tr><td><i>arcfour256</i></td><td>arcfour256</td></tr><tr><td><i>arcfour128</i></td><td>arcfour128</td></tr><tr><td><i>aes128-cbc</i></td><td>aes128-cbc</td></tr><tr><td><i>3des-cbc</i></td><td>3des-cbc</td></tr><tr><td><i>blowfish-cbc</i></td><td>blowfish-cbc</td></tr><tr><td><i>cast128-cbc</i></td><td>cast128-cbc</td></tr><tr><td><i>aes192-cbc</i></td><td>aes192-cbc</td></tr><tr><td><i>aes256-cbc</i></td><td>aes256-cbc</td></tr><tr><td><i>arcfour</i></td><td>arcfour</td></tr><tr><td><i>rijndael-cbc@lysator.liu.se</i></td><td>rijndael-cbc@lysator.liu.se</td></tr><tr><td><i>aes128-gcm@openssh.com</i></td><td>aes128-gcm@openssh.com</td></tr><tr><td><i>aes256-gcm@openssh.com</i></td><td>aes256-gcm@openssh.com</td></tr></table>	Option	Description	<i>chacha20-poly1305@openssh.com</i>	chacha20-poly1305@openssh.com	<i>aes128-ctr</i>	aes128-ctr	<i>aes192-ctr</i>	aes192-ctr	<i>aes256-ctr</i>	aes256-ctr	<i>arcfour256</i>	arcfour256	<i>arcfour128</i>	arcfour128	<i>aes128-cbc</i>	aes128-cbc	<i>3des-cbc</i>	3des-cbc	<i>blowfish-cbc</i>	blowfish-cbc	<i>cast128-cbc</i>	cast128-cbc	<i>aes192-cbc</i>	aes192-cbc	<i>aes256-cbc</i>	aes256-cbc	<i>arcfour</i>	arcfour	<i>rijndael-cbc@lysator.liu.se</i>	rijndael-cbc@lysator.liu.se	<i>aes128-gcm@openssh.com</i>	aes128-gcm@openssh.com	<i>aes256-gcm@openssh.com</i>	aes256-gcm@openssh.com			
	Option	Description																																				
	<i>chacha20-poly1305@openssh.com</i>	chacha20-poly1305@openssh.com																																				
	<i>aes128-ctr</i>	aes128-ctr																																				
	<i>aes192-ctr</i>	aes192-ctr																																				
	<i>aes256-ctr</i>	aes256-ctr																																				
	<i>arcfour256</i>	arcfour256																																				
	<i>arcfour128</i>	arcfour128																																				
	<i>aes128-cbc</i>	aes128-cbc																																				
	<i>3des-cbc</i>	3des-cbc																																				
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	<i>aes128-gcm@openssh.com</i>	aes128-gcm@openssh.com																																				
<i>aes256-gcm@openssh.com</i>	aes256-gcm@openssh.com																																					

Parameter	Description	Type	Size	Default
ssh-mac-algo	Select one or more SSH MAC algorithms.	option	-	hmac-sha2-256 hmac-sha2-256-etm@openssh.com hmac-sha2-512 hmac-sha2-512-etm@openssh.com
Option		Description		
<i>hmac-md5</i>		hmac-md5		
<i>hmac-md5-etm@openssh.com</i>		hmac-md5-etm@openssh.com		
<i>hmac-md5-96</i>		hmac-md5-96		
<i>hmac-md5-96-etm@openssh.com</i>		hmac-md5-96-etm@openssh.com		
<i>hmac-sha1</i>		hmac-sha1		
<i>hmac-sha1-etm@openssh.com</i>		hmac-sha1-etm@openssh.com		
<i>hmac-sha2-256</i>		hmac-sha2-256		
<i>hmac-sha2-256-etm@openssh.com</i>		hmac-sha2-256-etm@openssh.com		
<i>hmac-sha2-512</i>		hmac-sha2-512		
<i>hmac-sha2-512-etm@openssh.com</i>		hmac-sha2-512-etm@openssh.com		
<i>hmac-ripemd160</i>		hmac-ripemd160		
<i>hmac-ripemd160@openssh.com</i>		hmac-ripemd160@openssh.com		
<i>hmac-ripemd160-etm@openssh.com</i>		hmac-ripemd160-etm@openssh.com		
<i>umac-64@openssh.com</i>		umac-64@openssh.com		
<i>umac-128@openssh.com</i>		umac-128@openssh.com		
<i>umac-64-etm@openssh.com</i>		umac-64-etm@openssh.com		
<i>umac-128-etm@openssh.com</i>		umac-128-etm@openssh.com		
ssh-hsk-algo	Select one or more SSH hostkey algorithms.	option	-	ecdsa-sha2-nistp521 ecdsa-sha2-nistp384 ecdsa-sha2-nistp256 rsa-sha2-256 rsa-sha2-512 ssh-ed25519
Option		Description		
<i>ssh-rsa</i>		ssh-rsa		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>ecdsa-sha2-nistp521</i>	ecdsa-sha2-nistp521		
	<i>ecdsa-sha2-nistp384</i>	ecdsa-sha2-nistp384		
	<i>ecdsa-sha2-nistp256</i>	ecdsa-sha2-nistp256		
	<i>rsa-sha2-256</i>	rsa-sha2-256		
	<i>rsa-sha2-512</i>	rsa-sha2-512		
	<i>ssh-ed25519</i>	ssh-ed25519		
ssh-hsk-override	Enable/disable SSH host key override in SSH daemon.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable SSH host key override in SSH daemon.		
	<i>enable</i>	Enable SSH host key override in SSH daemon.		
ssh-hsk-password	Password for ssh-hostkey.	password	Not Specified	
ssh-hsk	Config SSH host key.	user	Not Specified	

config system sso-admin

Configure SSO admin users.

```
config system sso-admin
    Description: Configure SSO admin users.
    edit <name>
        set accprofile {string}
        set vdom <name1>, <name2>, ...
    next
end
```

config system sso-admin

Parameter	Description	Type	Size	Default
name	SSO admin name.	string	Maximum length: 64	

Parameter	Description	Type	Size	Default
accprofile	SSO admin user access profile.	string	Maximum length: 35	
vdom <name>	Virtual domain(s) that the administrator can access. Virtual domain name.	string	Maximum length: 79	

config system sso-forticloud-admin

Configure FortiCloud SSO admin users.

```
config system sso-forticloud-admin
    Description: Configure FortiCloud SSO admin users.
    edit <name>
        set accprofile {string}
        set vdom <name1>, <name2>, ...
    next
end
```

config system sso-forticloud-admin

Parameter	Description	Type	Size	Default
name	FortiCloud SSO admin name.	string	Maximum length: 64	
accprofile	FortiCloud SSO admin user access profile.	string	Maximum length: 35	
vdom <name>	Virtual domain(s) that the administrator can access. Virtual domain name.	string	Maximum length: 79	

config system sso-fortigate-cloud-admin

Configure FortiCloud SSO admin users.

```
config system sso-fortigate-cloud-admin
    Description: Configure FortiCloud SSO admin users.
    edit <name>
        set accprofile {string}
        set vdom <name1>, <name2>, ...
    next
end
```

config system sso-fortigate-cloud-admin

Parameter	Description	Type	Size	Default
name	FortiCloud SSO admin name.	string	Maximum length: 64	
accprofile	FortiCloud SSO admin user access profile.	string	Maximum length: 35	
vdom <name>	Virtual domain(s) that the administrator can access. Virtual domain name.	string	Maximum length: 79	

config system startup-error-log

Display startup config error on console.

```
config system startup-error-log
    Description: Display startup config error on console.
end
```

config system status

System status.

```
config system status
    Description: System status.
end
```

config system storage

Configure logical storage.

```
config system storage
    Description: Configure logical storage.
    edit <name>
        set status [enable|disable]
        set media-status [enable|disable|...]
        set order {integer}
        set partition {string}
        set device {string}
        set size {integer}
        set usage [log|wanopt]
        set wanopt-mode [mix|wanopt|...]
    next
end
```

config system storage

Parameter	Description	Type	Size	Default
name	Storage name.	string	Maximum length: 35	default_n
status	Enable/disable storage.	option	-	enable
	OptionDescription			
	enable	Enable setting.		
	disable	Disable setting.		
media-status	The physical status of current media.	option	-	disable
	OptionDescription			
	enable	Storage is enabled.		
	disable	Storage is disabled.		
	fail	Storage have some fail sector.		
order	Set storage order.	integer	Minimum value: 0 Maximum value: 255	0
partition	Label of underlying partition.	string	Maximum length: 16	<unknown>
device	Partition device.	string	Maximum length: 19	?
size	Partition size.	integer	Minimum value: 0 Maximum value: 4294967295	0
usage	Use hard disk for logging or WAN Optimization (default = log).	option	-	log
	OptionDescription			
	log	Use hard disk for logging.		
	wanopt	Use hard disk for WAN Optimization.		
wanopt-mode	WAN Optimization mode (default=webcache)	option	-	webcache

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>mix</i>	Use hard disk for WAN Optimization mix mode.		
	<i>wanopt</i>	Use hard disk for WAN Optimization wanopt mode.		
	<i>webcache</i>	Use hard disk for WAN Optimization webcache mode.		

config system timezone

Show timezone.

```
config system timezone
    Description: Show timezone.
    edit <name>
    next
end
```

config system timezone

Parameter	Description	Type	Size	Default
name	Database name of a timezone.	string	Maximum length: 63	

config system vdom

Configure virtual domain.

```
config system vdom
    Description: Configure virtual domain.
    edit <name>
        set short-name {string}
        set vcluster-id {integer}
        set flag {integer}
    next
end
```

config system vdom

Parameter	Description	Type	Size	Default
name	VDOM name.	string	Maximum length: 31	

Parameter	Description	Type	Size	Default
short-name	VDOM short name.	string	Maximum length: 11	
vcluster-id	Virtual cluster ID (0 - 4294967295).	integer	Minimum value: 0 Maximum value: 4294967295	0
flag	Flag.	integer	Minimum value: 0 Maximum value: 4294967295	0

config system vdom-dns

Configure DNS servers for a non-management VDOM.

```
config system vdom-dns
    Description: Configure DNS servers for a non-management VDOM.
    set vdom-dns [enable|disable]
    set primary {ipv4-address}
    set secondary {ipv4-address}
    set protocol {option1}, {option2}, ...
    set ssl-certificate {string}
    set server-hostname <hostname1>, <hostname2>, ...
    set ip6-primary {ipv6-address}
    set ip6-secondary {ipv6-address}
    set source-ip {ipv4-address}
    set interface-select-method [auto|specify]
    set interface {string}
    set server-select-method [least-rtt|failover]
    set alt-primary {ipv4-address}
    set alt-secondary {ipv4-address}
end
```

config system vdom-dns

Parameter	Description	Type	Size	Default						
vdom-dns	Enable/disable configuring DNS servers for the current VDOM.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable configuring DNS servers for the current VDOM.</td></tr><tr><td><i>disable</i></td><td>Disable configuring DNS servers for the current VDOM.</td></tr></table>	Option	Description	<i>enable</i>	Enable configuring DNS servers for the current VDOM.	<i>disable</i>	Disable configuring DNS servers for the current VDOM.			
Option	Description									
<i>enable</i>	Enable configuring DNS servers for the current VDOM.									
<i>disable</i>	Disable configuring DNS servers for the current VDOM.									

Parameter	Description	Type	Size	Default								
primary	Primary DNS server IP address for the VDOM.	ipv4-address	Not Specified	0.0.0.0								
secondary	Secondary DNS server IP address for the VDOM.	ipv4-address	Not Specified	0.0.0.0								
protocol	DNS transport protocols.	option	-	cleartext								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>cleartext</td><td>DNS over UDP/53, DNS over TCP/53.</td></tr><tr><td>dot</td><td>DNS over TLS/853.</td></tr><tr><td>doh</td><td>DNS over HTTPS/443.</td></tr></table>	Option	Description	cleartext	DNS over UDP/53, DNS over TCP/53.	dot	DNS over TLS/853.	doh	DNS over HTTPS/443.			
Option	Description											
cleartext	DNS over UDP/53, DNS over TCP/53.											
dot	DNS over TLS/853.											
doh	DNS over HTTPS/443.											
ssl-certificate	Name of local certificate for SSL connections.	string	Maximum length: 35	Fortinet_Factory								
server-hostname <hostname>	DNS server host name list. DNS server host name list separated by space (maximum 4 domains).	string	Maximum length: 127									
ip6-primary	Primary IPv6 DNS server IP address for the VDOM.	ipv6-address	Not Specified	::								
ip6-secondary	Secondary IPv6 DNS server IP address for the VDOM.	ipv6-address	Not Specified	::								
source-ip	Source IP for communications with the DNS server.	ipv4-address	Not Specified	0.0.0.0								
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>auto</td><td>Set outgoing interface automatically.</td></tr><tr><td>specify</td><td>Set outgoing interface manually.</td></tr></table>	Option	Description	auto	Set outgoing interface automatically.	specify	Set outgoing interface manually.					
Option	Description											
auto	Set outgoing interface automatically.											
specify	Set outgoing interface manually.											
interface	Specify outgoing interface to reach server.	string	Maximum length: 15									
server-select-method	Specify how configured servers are prioritized.	option	-	least-rtt								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>least-rtt</td><td>Select servers based on least round trip time.</td></tr><tr><td>failover</td><td>Select servers based on the order they are configured.</td></tr></table>	Option	Description	least-rtt	Select servers based on least round trip time.	failover	Select servers based on the order they are configured.					
Option	Description											
least-rtt	Select servers based on least round trip time.											
failover	Select servers based on the order they are configured.											

Parameter	Description	Type	Size	Default
alt-primary	Alternate primary DNS server. This is not used as a failover DNS server.	ipv4-address	Not Specified	0.0.0.0
alt-secondary	Alternate secondary DNS server. This is not used as a failover DNS server.	ipv4-address	Not Specified	0.0.0.0

config system vdom-exception

Global configuration objects that can be configured independently across different ha peers for all VDOMs or for the defined VDOM scope.

```
config system vdom-exception
    Description: Global configuration objects that can be configured independently across
different ha peers for all VDOMs or for the defined VDOM scope.
    edit <id>
        set object [log.fortianalyzer.setting|log.fortianalyzer.override-setting|...]
        set scope [all|inclusive|...]
        set vdom <name1>, <name2>, ...
    next
end
```

config system vdom-exception

Parameter	Description	Type	Size	Default
id	Index (1 - 4096).	integer	Minimum value: 1 Maximum value: 4096	0
object	Name of the configuration object that can be configured independently for all VDOMs.	option	-	

Option	Description
<i>log.fortianalyzer.setting</i>	log.fortianalyzer.setting
<i>log.fortianalyzer.override-setting</i>	log.fortianalyzer.override-setting
<i>log.fortianalyzer2.setting</i>	log.fortianalyzer2.setting
<i>log.fortianalyzer2.override-setting</i>	log.fortianalyzer2.override-setting
<i>log.fortianalyzer3.setting</i>	log.fortianalyzer3.setting
<i>log.fortianalyzer3.override-setting</i>	log.fortianalyzer3.override-setting

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>log.fortianalyzer-cloud.setting</i>	log.fortianalyzer-cloud.setting		
	<i>log.fortianalyzer-cloud.override-setting</i>	log.fortianalyzer-cloud.override-setting		
	<i>log.syslogd.setting</i>	log.syslogd.setting		
	<i>log.syslogd.override-setting</i>	log.syslogd.override-setting		
	<i>log.syslogd2.setting</i>	log.syslogd2.setting		
	<i>log.syslogd2.override-setting</i>	log.syslogd2.override-setting		
	<i>log.syslogd3.setting</i>	log.syslogd3.setting		
	<i>log.syslogd3.override-setting</i>	log.syslogd3.override-setting		
	<i>log.syslogd4.setting</i>	log.syslogd4.setting		
	<i>log.syslogd4.override-setting</i>	log.syslogd4.override-setting		
	<i>system.gre-tunnel</i>	system.gre-tunnel		
	<i>system.central-management</i>	system.central-management		
	<i>system.csf</i>	system.csf		
	<i>user.radius</i>	user.radius		
	<i>system.snmp.sysinfo</i>	system.snmp.sysinfo		
	<i>system.snmp.community</i>	system.snmp.community		
	<i>system.snmp.user</i>	system.snmp.user		
	<i>system.interface</i>	system.interface		
	<i>vpn.ipsec.phase1-interface</i>	vpn.ipsec.phase1-interface		
	<i>vpn.ipsec.phase2-interface</i>	vpn.ipsec.phase2-interface		
	<i>router.bgp</i>	router.bgp		
	<i>router.route-map</i>	router.route-map		
	<i>router.prefix-list</i>	router.prefix-list		
	<i>firewall.ippool</i>	firewall.ippool		
	<i>firewall.ippool6</i>	firewall.ippool6		
	<i>router.static</i>	router.static		
	<i>router.static6</i>	router.static6		

Parameter	Description	Type	Size	Default																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>firewall.vip</i></td><td>firewall.vip</td></tr><tr><td><i>firewall.vip6</i></td><td>firewall.vip6</td></tr><tr><td><i>system.sdwan</i></td><td>system.sdwan</td></tr><tr><td><i>system.saml</i></td><td>system.saml</td></tr><tr><td><i>router.policy</i></td><td>router.policy</td></tr><tr><td><i>router.policy6</i></td><td>router.policy6</td></tr><tr><td><i>log.syslogd.setting</i></td><td>log.syslogd.setting</td></tr><tr><td><i>log.syslogd.override-setting</i></td><td>log.syslogd.override-setting</td></tr><tr><td><i>firewall.address</i></td><td>firewall.address</td></tr></table>	Option	Description	<i>firewall.vip</i>	firewall.vip	<i>firewall.vip6</i>	firewall.vip6	<i>system.sdwan</i>	system.sdwan	<i>system.saml</i>	system.saml	<i>router.policy</i>	router.policy	<i>router.policy6</i>	router.policy6	<i>log.syslogd.setting</i>	log.syslogd.setting	<i>log.syslogd.override-setting</i>	log.syslogd.override-setting	<i>firewall.address</i>	firewall.address			
	Option	Description																						
	<i>firewall.vip</i>	firewall.vip																						
	<i>firewall.vip6</i>	firewall.vip6																						
	<i>system.sdwan</i>	system.sdwan																						
	<i>system.saml</i>	system.saml																						
	<i>router.policy</i>	router.policy																						
	<i>router.policy6</i>	router.policy6																						
	<i>log.syslogd.setting</i>	log.syslogd.setting																						
	<i>log.syslogd.override-setting</i>	log.syslogd.override-setting																						
<i>firewall.address</i>	firewall.address																							
scope	Determine whether the configuration object can be configured separately for all VDOMs or if some VDOMs share the same configuration.	option	-	all																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>all</i></td><td>Object configuration independent for all VDOMs.</td></tr><tr><td><i>inclusive</i></td><td>Object configuration independent for the listed VDOMs. Other VDOMs use the global configuration.</td></tr><tr><td><i>exclusive</i></td><td>Use the global object configuration for the listed VDOMs. Other VDOMs can be configured independently.</td></tr></table>	Option	Description	<i>all</i>	Object configuration independent for all VDOMs.	<i>inclusive</i>	Object configuration independent for the listed VDOMs. Other VDOMs use the global configuration.	<i>exclusive</i>	Use the global object configuration for the listed VDOMs. Other VDOMs can be configured independently.															
	Option	Description																						
	<i>all</i>	Object configuration independent for all VDOMs.																						
	<i>inclusive</i>	Object configuration independent for the listed VDOMs. Other VDOMs use the global configuration.																						
<i>exclusive</i>	Use the global object configuration for the listed VDOMs. Other VDOMs can be configured independently.																							
vdom <name>	Names of the VDOMs. VDOM name.	string	Maximum length: 79																					

config system vdom-link

Configure VDOM links.

```

config system vdom-link
    Description: Configure VDOM links.
    edit <name>
        next
    end

```

config system vdom-link

Parameter	Description	Type	Size	Default
name	VDOM link name (maximum = 11 characters).	string	Maximum length: 11	

config system vdom-property

Configure VDOM property.

```
config system vdom-property
  Description: Configure VDOM property.
  edit <name>
    set description {string}
    set snmp-index {integer}
    set ipsec-phase1-interface {user}
    set ipsec-phase2-interface {user}
    set firewall-policy {user}
    set firewall-address {user}
    set firewall-addrgrp {user}
    set custom-service {user}
    set service-group {user}
    set onetime-schedule {user}
    set recurring-schedule {user}
    set user {user}
    set user-group {user}
    set proxy {user}
    set log-disk-quota {user}
  next
end
```

config system vdom-property

Parameter	Description	Type	Size	Default
name	VDOM name.	string	Maximum length: 31	
description	Description.	string	Maximum length: 127	
snmp-index	Permanent SNMP Index of the virtual domain (1 - 2147483647).	integer	Minimum value: 1 Maximum value: 2147483647	0
ipsec-phase1-interface	Maximum guaranteed number of VPN IPsec phase1 interface tunnels.	user	Not Specified	

Parameter	Description	Type	Size	Default
ipsec-phase2-interface	Maximum guaranteed number of VPN IPsec phase2 interface tunnels.	user	Not Specified	
firewall-policy	Maximum guaranteed number of firewall policies (policy, DoS-policy4, DoS-policy6, multicast).	user	Not Specified	
firewall-address	Maximum guaranteed number of firewall addresses (IPv4, IPv6, multicast).	user	Not Specified	
firewall-addrgroup	Maximum guaranteed number of firewall address groups (IPv4, IPv6).	user	Not Specified	
custom-service	Maximum guaranteed number of firewall custom services.	user	Not Specified	
service-group	Maximum guaranteed number of firewall service groups.	user	Not Specified	
onetime-schedule	Maximum guaranteed number of firewall one-time schedules.	user	Not Specified	
recurring-schedule	Maximum guaranteed number of firewall recurring schedules.	user	Not Specified	
user	Maximum guaranteed number of local users.	user	Not Specified	
user-group	Maximum guaranteed number of user groups.	user	Not Specified	
proxy	Maximum guaranteed number of concurrent proxy users.	user	Not Specified	
log-disk-quota	Log disk quota in megabytes (MB). Range depends on how much disk space is available.	user	Not Specified	

config system vdom-radius-server

Configure a RADIUS server to use as a RADIUS Single Sign On (RSSO) server for this VDOM.

```
config system vdom-radius-server
    Description: Configure a RADIUS server to use as a RADIUS Single Sign On (RSSO) server
for this VDOM.
    edit <name>
        set status [enable|disable]
        set radius-server-vdom {string}
    next
end
```

config system vdom-radius-server

Parameter	Description	Type	Size	Default
name	Name of the VDOM that you are adding the RADIUS server to.	string	Maximum length: 31	
status	Enable/disable the RSSO RADIUS server for this VDOM.	option	-	disable
	Option		Description	
	<i>enable</i>		Enable the RSSO RADIUS server for this VDOM.	
	<i>disable</i>		Disable the RSSO RADIUS server for this VDOM.	
radius-server-vdom	Use this option to select another VDOM containing a VDOM RSSO RADIUS server to use for the current VDOM.	string	Maximum length: 31	

config system vne-tunnel

Configure virtual network enabler tunnel.

```
config system vne-tunnel
  Description: Configure virtual network enabler tunnel.
  set status [enable|disable]
  set interface {string}
  set ssl-certificate {string}
  set bmr-hostname {password}
  set ipv4-address {ipv4-classnet-host}
  set br {string}
  set update-url {string}
  set mode [map-e|fixed-ip|...]
  set http-username {string}
  set http-password {password}
end
```

config system vne-tunnel

Parameter	Description	Type	Size	Default
status	Enable/disable VNE tunnel.	option	-	disable
	Option		Description	
	<i>enable</i>		Enable VNE tunnel.	
	<i>disable</i>		Disable VNE tunnel.	

Parameter	Description	Type	Size	Default								
interface	Interface name.	string	Maximum length: 15									
ssl-certificate	Name of local certificate for SSL connections.	string	Maximum length: 35	Fortinet_Factory								
bmr-hostname	BMR hostname.	password	Not Specified									
ipv4-address	Tunnel IPv4 address and netmask.	ipv4-classnet-host	Not Specified	0.0.0.0 0.0.0.0								
br	IPv6 address or FQDN of the border relay.	string	Maximum length: 255									
update-url	URL of provisioning server.	string	Maximum length: 511									
mode	VNE tunnel mode.	option	-	map-e								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>map-e</td><td>Map-e mode.</td></tr><tr><td>fixed-ip</td><td>Fixed-ip mode.</td></tr><tr><td>ds-lite</td><td>DS-Lite mode.</td></tr></table>				Option	Description	map-e	Map-e mode.	fixed-ip	Fixed-ip mode.	ds-lite	DS-Lite mode.
Option	Description											
map-e	Map-e mode.											
fixed-ip	Fixed-ip mode.											
ds-lite	DS-Lite mode.											
http-username	HTTP authentication user name.	string	Maximum length: 64									
http-password	HTTP authentication password.	password	Not Specified									

config system vxlan

Configure VXLAN devices.

```

config system vxlan
    Description: Configure VXLAN devices.
    edit <name>
        set interface {string}
        set vni {integer}
        set ip-version [ipv4-unicast|ipv6-unicast]
        set remote-ip <ip1>, <ip2>, ...
        set remote-ip6 <ip61>, <ip62>, ...
        set dstport {integer}
        set multicast-ttl {integer}
        set evpn-id {integer}
    next
end

```

config system vxlan

Parameter	Description	Type	Size	Default						
name	VXLAN device or interface name. Must be a unique interface name.	string	Maximum length: 15							
interface	Outgoing interface for VXLAN encapsulated traffic.	string	Maximum length: 15							
vni	VXLAN network ID.	integer	Minimum value: 1 Maximum value: 16777215	0						
ip-version	IP version to use for the VXLAN interface and so for communication over the VXLAN. IPv4 or IPv6 unicast.	option	-	ipv4-unicast						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>ipv4-unicast</td><td>Use IPv4 unicast addressing over the VXLAN.</td></tr><tr><td>ipv6-unicast</td><td>Use IPv6 unicast addressing over the VXLAN.</td></tr></table>				Option	Description	ipv4-unicast	Use IPv4 unicast addressing over the VXLAN.	ipv6-unicast	Use IPv6 unicast addressing over the VXLAN.
Option	Description									
ipv4-unicast	Use IPv4 unicast addressing over the VXLAN.									
ipv6-unicast	Use IPv6 unicast addressing over the VXLAN.									
remote-ip <ip>	IPv4 address of the VXLAN interface on the device at the remote end of the VXLAN. IPv4 address.	string	Maximum length: 15							
remote-ip6 <ip6>	IPv6 IP address of the VXLAN interface on the device at the remote end of the VXLAN. IPv6 address.	string	Maximum length: 45							
dstport	VXLAN destination port (1 - 65535, default = 4789).	integer	Minimum value: 1 Maximum value: 65535	4789						
multicast-ttl	VXLAN multicast TTL (1-255, default = 0).	integer	Minimum value: 1 Maximum value: 255	0						
evpn-id	EVPN instance.	integer	Minimum value: 0 Maximum value: 4294967295	0						

config system wccp

Configure WCCP.

```
config system wccp
  Description: Configure WCCP.
  edit <service-id>
    set router-id {ipv4-address}
    set cache-id {ipv4-address}
    set group-address {ipv4-address-multicast}
    set server-list {user}
    set router-list {user}
    set ports-defined [source|destination]
    set server-type [forward|proxy]
    set ports {user}
    set authentication [enable|disable]
    set password {password}
    set forward-method [GRE|L2|...]
    set cache-engine-method [GRE|L2]
    set service-type [auto|standard|...]
    set primary-hash {option1}, {option2}, ...
    set priority {integer}
    set protocol {integer}
    set assignment-weight {integer}
    set assignment-bucket-format [wccp-v2|cisco-implementation]
    set return-method [GRE|L2|...]
    set assignment-method [HASH|MASK|...]
    set assignment-srcaddr-mask {ipv4-netmask-any}
    set assignment-dstaddr-mask {ipv4-netmask-any}
  next
end
```

config system wccp

Parameter	Description	Type	Size	Default
service-id	Service ID.	string	Maximum length: 3	
router-id	IP address known to all cache engines. If all cache engines connect to the same FortiProxy interface, use the default 0.0.0.0.	ipv4-address	Not Specified	0.0.0.0
cache-id	IP address known to all routers. If the addresses are the same, use the default 0.0.0.0.	ipv4-address	Not Specified	0.0.0.0
group-address	IP multicast address used by the cache routers. For the FortiProxy to ignore multicast WCCP traffic, use the default 0.0.0.0.	ipv4-address-multicast	Not Specified	0.0.0.0
server-list	IP addresses and netmasks for up to four cache servers.	user	Not Specified	

Parameter	Description	Type	Size	Default								
router-list	IP addresses of one or more WCCP routers.	user	Not Specified									
ports-defined	Match method.	option	-									
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>source</i></td><td>Source port match.</td></tr><tr><td><i>destination</i></td><td>Destination port match.</td></tr></table>	Option	Description	<i>source</i>	Source port match.	<i>destination</i>	Destination port match.					
Option	Description											
<i>source</i>	Source port match.											
<i>destination</i>	Destination port match.											
server-type	Cache server type.	option	-	forward								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>forward</i></td><td>Forward server.</td></tr><tr><td><i>proxy</i></td><td>Proxy server.</td></tr></table>	Option	Description	<i>forward</i>	Forward server.	<i>proxy</i>	Proxy server.					
Option	Description											
<i>forward</i>	Forward server.											
<i>proxy</i>	Proxy server.											
ports	Service ports.	user	Not Specified									
authentication	Enable/disable MD5 authentication.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable MD5 authentication.</td></tr><tr><td><i>disable</i></td><td>Disable MD5 authentication.</td></tr></table>	Option	Description	<i>enable</i>	Enable MD5 authentication.	<i>disable</i>	Disable MD5 authentication.					
Option	Description											
<i>enable</i>	Enable MD5 authentication.											
<i>disable</i>	Disable MD5 authentication.											
password	Password for MD5 authentication.	password	Not Specified									
forward-method	Method used to forward traffic to the cache servers.	option	-	GRE								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>GRE</i></td><td>GRE encapsulation.</td></tr><tr><td><i>L2</i></td><td>L2 rewrite.</td></tr><tr><td><i>any</i></td><td>GRE or L2.</td></tr></table>	Option	Description	<i>GRE</i>	GRE encapsulation.	<i>L2</i>	L2 rewrite.	<i>any</i>	GRE or L2.			
Option	Description											
<i>GRE</i>	GRE encapsulation.											
<i>L2</i>	L2 rewrite.											
<i>any</i>	GRE or L2.											
cache-engine-method	Method used to forward traffic to the routers or to return to the cache engine.	option	-	GRE								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>GRE</i></td><td>GRE encapsulation.</td></tr><tr><td><i>L2</i></td><td>L2 rewrite.</td></tr></table>	Option	Description	<i>GRE</i>	GRE encapsulation.	<i>L2</i>	L2 rewrite.					
Option	Description											
<i>GRE</i>	GRE encapsulation.											
<i>L2</i>	L2 rewrite.											
service-type	WCCP service type used by the cache server for logical interception and redirection of traffic.	option	-	auto								

Parameter	Description	Type	Size	Default										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>auto</i></td><td>auto</td></tr><tr><td><i>standard</i></td><td>Standard service.</td></tr><tr><td><i>dynamic</i></td><td>Dynamic service.</td></tr></table>		Option	Description	<i>auto</i>	auto	<i>standard</i>	Standard service.	<i>dynamic</i>	Dynamic service.				
	Option	Description												
	<i>auto</i>	auto												
	<i>standard</i>	Standard service.												
<i>dynamic</i>	Dynamic service.													
primary-hash	Hash method.	option	-	dst-ip										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>src-ip</i></td><td>Source IP hash.</td></tr><tr><td><i>dst-ip</i></td><td>Destination IP hash.</td></tr><tr><td><i>src-port</i></td><td>Source port hash.</td></tr><tr><td><i>dst-port</i></td><td>Destination port hash.</td></tr></table>		Option	Description	<i>src-ip</i>	Source IP hash.	<i>dst-ip</i>	Destination IP hash.	<i>src-port</i>	Source port hash.	<i>dst-port</i>	Destination port hash.		
	Option	Description												
	<i>src-ip</i>	Source IP hash.												
	<i>dst-ip</i>	Destination IP hash.												
	<i>src-port</i>	Source port hash.												
<i>dst-port</i>	Destination port hash.													
priority	Service priority.	integer	Minimum value: 0 Maximum value: 255	0										
protocol	Service protocol.	integer	Minimum value: 0 Maximum value: 255	0										
assignment-weight	Assignment of hash weight/ratio for the WCCP cache engine.	integer	Minimum value: 0 Maximum value: 255	0										
assignment-bucket-format	Assignment bucket format for the WCCP cache engine.	option	-	cisco-implementation										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>wccp-v2</i></td><td>WCCP-v2 bucket format.</td></tr><tr><td><i>cisco-implementation</i></td><td>Cisco bucket format.</td></tr></table>		Option	Description	<i>wccp-v2</i>	WCCP-v2 bucket format.	<i>cisco-implementation</i>	Cisco bucket format.						
	Option	Description												
	<i>wccp-v2</i>	WCCP-v2 bucket format.												
<i>cisco-implementation</i>	Cisco bucket format.													
return-method	Method used to decline a redirected packet and return it to the FortiProxy unit.	option	-	GRE										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>GRE</i></td><td>GRE encapsulation.</td></tr><tr><td><i>L2</i></td><td>L2 rewrite.</td></tr><tr><td><i>any</i></td><td>GRE or L2.</td></tr></table>		Option	Description	<i>GRE</i>	GRE encapsulation.	<i>L2</i>	L2 rewrite.	<i>any</i>	GRE or L2.				
	Option	Description												
	<i>GRE</i>	GRE encapsulation.												
	<i>L2</i>	L2 rewrite.												
<i>any</i>	GRE or L2.													

Parameter	Description	Type	Size	Default
assignment-method	Hash key assignment preference.	option	-	HASH
	Option	Description		
	<i>HASH</i>	HASH assignment method.		
	<i>MASK</i>	MASK assignment method.		
	<i>any</i>	HASH or MASK.		
assignment-srcaddr-mask	Assignment source address mask.	ipv4-netmask-any	Not Specified	0.0.23.65
assignment-dstaddr-mask	Assignment destination address mask.	ipv4-netmask-any	Not Specified	0.0.0.0

config system zone

Configure zones to group two or more interfaces. When a zone is created you can configure policies for the zone instead of individual interfaces in the zone.

```

config system zone
    Description: Configure zones to group two or more interfaces. When a zone is created you
    can configure policies for the zone instead of individual interfaces in the zone.
    edit <name>
        config tagging
            Description: Config object tagging.
            edit <name>
                set category {string}
                set tags <name1>, <name2>, ...
            next
        end
        set description {string}
        set interface <interface-name1>, <interface-name2>, ...
    next
end

```

config system zone

Parameter	Description	Type	Size	Default
name	Zone name.	string	Maximum length: 35	
description	Description.	string	Maximum length: 127	

Parameter	Description	Type	Size	Default
interface <interface-name>	Add interfaces to this zone. Interfaces must not be assigned to another zone or have firewall policies defined. Select interfaces to add to the zone.	string	Maximum length: 79	

config tagging

Parameter	Description	Type	Size	Default
name	Tagging entry name.	string	Maximum length: 63	
category	Tag category.	string	Maximum length: 63	
tags <name>	Tags. Tag name.	string	Maximum length: 79	

test

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config test acd

Aggregate Controller.

```
config test acd
    Description: Aggregate Controller.
    set <Integer> {string}
end
```

config test acd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test acsd

Ali Cloud Service daemon.

```
config test acsd
    Description: Ali Cloud Service daemon.
    set <Integer> {string}
end
```

config test acsd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test autod

Automation daemon.

```
config test autod
    Description: Automation daemon.
    set <Integer> {string}
end
```

config test autod

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test awsd

Amazon Web Services (AWS) daemon.

```
config test awsd
    Description: Amazon Web Services (AWS) daemon.
    set <Integer> {string}
end
```

config test awsd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test azd

Microsoft Azure daemon.

```
config test azd
    Description: Microsoft Azure daemon.
    set <Integer> {string}
end
```

config test azd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test bfd

BFD daemon.


```
config test bfd
    Description: BFD daemon.
    set <Integer> {string}
end
```

config test bfd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test clouapid

Cloud service communication daemon.

```
config test clouapid
    Description: Cloud service communication daemon.
    set <Integer> {string}
end
```

config test clouapid

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test cmdbsvr

cmdb server

```
config test cmdbsvr
    Description: cmdb server
    set <Integer> {string}
end
```

config test cmdbsvr

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test csfd

Security Fabric daemon.

```
config test csfd
    Description: Security Fabric daemon.
    set <Integer> {string}
end
```

config test csfd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test ddnsd

DDNS client daemon.

```
config test ddnsd
    Description: DDNS client daemon.
    set <Integer> {string}
end
```

config test ddnsd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test dhcp6c

DHCP6 client daemon.

```
config test dhcp6c
    Description: DHCP6 client daemon.
    set <Integer> {string}
end
```

config test dhcp6c

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test dhcp6r

DHCP6 relay daemon.

```
config test dhcp6r
    Description: DHCP6 relay daemon.
    set <Integer> {string}
end
```

config test dhcp6r

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test dhcprelay

DHCP relay daemon.

```
config test dhcprelay
    Description: DHCP relay daemon.
    set <Integer> {string}
end
```

config test dhcprelay

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test dlpfingerprint

DLP fingerprint daemon.

```
config test dlpfingerprint
    Description: DLP fingerprint daemon.
    set <Integer> {string}
end
```

config test dlpfingerprint

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test dlpfpccache

DLP fingerprint cache daemon.

```
config test dlpfpccache
    Description: DLP fingerprint cache daemon.
    set <Integer> {string}
end
```

config test dlpfpccache

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test dnspoxy

DNS proxy.

```
config test dnspoxy
    Description: DNS proxy.
    set <Integer> {string}
end
```

config test dnspoxy

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test dsd

DLP Statistics daemon.

```
config test dsd
    Description: DLP Statistics daemon.
    set <Integer> {string}
end
```

config test dsd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test eap_supp

EAP Supplicant daemon.

```
config test eap_supp
    Description: EAP Supplicant daemon.
    set <Integer> {string}
end
```

config test eap_supp

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test evpn

EVPN daemon.

```
config test evpn
    Description: EVPN daemon.
    set <Integer> {string}
end
```

config test evpn

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test fas

FortiToken Cloud daemon.

```
config test fas
    Description: FortiToken Cloud daemon.
    set <Integer> {string}
end
```

config test fas

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test fcnacd

FortiClient NAC daemon.

```
config test fcnacd
    Description: FortiClient NAC daemon.
    set <Integer> {string}
end
```

config test fcnacd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test fds_notify

Update Notification daemon.

```
config test fds_notify
    Description: Update Notification daemon.
    set <Integer> {string}
end
```

config test fds_notify

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test fgtlogd

Fgtlog daemon.

```
config test fgtlogd
    Description: Fgtlog daemon.
    set <Integer> {string}
end
```

config test fgtlogd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test fnbamd

FortiGate non-blocking auth daemon.

```
config test fnbamd
    Description: FortiGate non-blocking auth daemon.
    set <Integer> {string}
end
```

config test fnbamd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test forticldd

FortiCloud daemon.

```
config test forticldd
    Description: FortiCloud daemon.
    set <Integer> {string}
end
```

config test forticldd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test forticron

Forticron daemon.

```
config test forticron
    Description: Forticron daemon.
    set <Integer> {string}
end
```

config test forticron

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test fsd

FortiExplorer daemon.

```
config test fsd
    Description: FortiExplorer daemon.
    set <Integer> {string}
end
```

config test fsd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test fsvrd

FortiService daemon.

```
config test fsvrd
    Description: FortiService daemon.
    set <Integer> {string}
end
```

config test fsvrd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test gcpd

Google Cloud Platform (GCP) daemon.

```
config test gcpd
    Description: Google Cloud Platform (GCP) daemon.
    set <Integer> {string}
end
```

config test gcpd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test harelay

HA relay daemon.

```
config test harelay
    Description: HA relay daemon.
    set <Integer> {string}
end
```

config test harelay

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test hasync

HA sync daemon.

```
config test hasync
    Description: HA sync daemon.
    set <Integer> {string}
end
```

config test hasync

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test hatalk

HA talk daemon.

```
config test hatalk
    Description: HA talk daemon.
    set <Integer> {string}
end
```

config test hatalk

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test ibmd

IBM Cloud Infrastructure daemon.

```
config test ibmd
    Description: IBM Cloud Infrastructure daemon.
    set <Integer> {string}
end
```

config test ibmd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test imap

IMAP proxy.

```
config test imap
    Description: IMAP proxy.
    set <Integer> {string}
end
```

config test imap

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test init

init process.

```
config test init
    Description: init process.
    set <Integer> {string}
end
```

config test init

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test iotd

IoT device info daemon.

```
config test iotd
    Description: IoT device info daemon.
    set <Integer> {string}
end
```

config test iotd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test ipamd

IP Address Management daemon.

```
config test ipamd
    Description: IP Address Management daemon.
    set <Integer> {string}
end
```

config test ipamd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test ipamsd

IPAM server daemon.

```
config test ipamsd
    Description: IPAM server daemon.
    set <Integer> {string}
end
```

config test ipamsd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test ipldbd

IP load balancing daemon.

```
config test ipldbd
    Description: IP load balancing daemon.
    set <Integer> {string}
end
```

config test ipldbd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test ipsengine

IPS sensor.

```
config test ipsengine
    Description: IPS sensor.
    set <Integer> {string}
end
```

config test ipsengine

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test ipsmonitor

IPS monitor.

```
config test ipsmonitor
    Description: IPS monitor.
    set <Integer> {string}
end
```

config test ipsmonitor

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test ipsufd

IPS urlfilter daemon.

```
config test ipsufd
    Description: IPS urlfilter daemon.
    set <Integer> {string}
end
```

config test ipsufd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test kmipd

KMIP daemon.

```
config test kmipd
    Description: KMIP daemon.
    set <Integer> {string}
end
```

config test kmipd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test kubed

Kubernetes daemon.

```
config test kubed
    Description: Kubernetes daemon.
    set <Integer> {string}
end
```

config test kubed

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test l2tpcd

L2TP client daemon.

```
config test l2tpcd
    Description: L2TP client daemon.
    set <Integer> {string}
end
```

config test l2tpcd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test lnkmttd

Link monitor daemon.

```
config test lnkmtd
    Description: Link monitor daemon.
    set <Integer> {string}
end
```

config test lnkmtd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test locallogd

Locallogd daemon.

```
config test locallogd
    Description: Locallogd daemon.
    set <Integer> {string}
end
```

config test locallogd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test miglogd

Miglog logging daemon.

```
config test miglogd
    Description: Miglog logging daemon.
    set <Integer> {string}
end
```

config test miglogd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test mrd

Mobile router daemon.

```
config test mrd
    Description: Mobile router daemon.
    set <Integer> {string}
end
```

config test mrd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test netxd

VMWare NetX service manager daemon.

```
config test netxd
    Description: VMWare NetX service manager daemon.
    set <Integer> {string}
end
```

config test netxd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test nntp

NNTP proxy.

```
config test nntp
    Description: NNTP proxy.
    set <Integer> {string}
end
```

config test nntp

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test ocid

Oracle Cloud Infrastructure.

```
config test ocid
    Description: Oracle Cloud Infrastructure.
    set <Integer> {string}
end
```

config test ocid

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test openstackd

OpenStack SDN connector daemon.

```
config test openstackd
    Description: OpenStack SDN connector daemon.
    set <Integer> {string}
end
```

config test openstackd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test ovrd

Override daemon.

```
config test ovrd
    Description: Override daemon.
    set <Integer> {string}
end
```

config test ovrd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test pcpd

PCP server daemon.

```
config test pcpd
    Description: PCP server daemon.
    set <Integer> {string}
end
```

config test pcpd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test pop3

POP3 proxy.

```
config test pop3
    Description: POP3 proxy.
    set <Integer> {string}
end
```

config test pop3

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test pptpcd

PPTP client.

```
config test pptpcd
    Description: PPTP client.
    set <Integer> {string}
end
```

config test pptpcd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test quarantined

Quarantine daemon.

```
config test quarantined
    Description: Quarantine daemon.
    set <Integer> {string}
end
```

config test quarantined

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test radiusd

RADIUS daemon.

```
config test radiusd
    Description: RADIUS daemon.
    set <Integer> {string}
end
```

config test radiusd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test radius-das

Radius-das daemon.

```
config test radius-das
    Description: Radius-das daemon.
    set <Integer> {string}
end
```

config test radius-das

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test radvd

radvd daemon.

```
config test radvd
    Description: radvd daemon.
    set <Integer> {string}
end
```

config test radvd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test reportd

Report daemon.

```
config test reportd
    Description: Report daemon.
    set <Integer> {string}
end
```

config test reportd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test sdncd

SDN Connector daemon.

```
config test sdncd
    Description: SDN Connector daemon.
    set <Integer> {string}
end
```

config test sdncd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test sdnd

SDN connector daemon.

```
config test sdnd
    Description: SDN connector daemon.
    set <Integer> {string}
end
```

config test sdnd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test sepmd

Symantec Endpoint Protection Manager daemon.

```
config test sepmd
    Description: Symantec Endpoint Protection Manager daemon.
    set <Integer> {string}
end
```

config test sepmd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test sessionsync

Session sync daemon.

```
config test sessionsync
    Description: Session sync daemon.
    set <Integer> {string}
end
```

config test sessionsync

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test sfupgraded

Security Fabric Upgrade daemon.

```
config test sfupgraded
    Description: Security Fabric Upgrade daemon.
    set <Integer> {string}
end
```

config test sfupgraded

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test smtp

SMTP proxy.

```
config test smtp
    Description: SMTP proxy.
    set <Integer> {string}
end
```

config test smtp

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test snmpd

SNMP daemon.

```
config test snmpd
    Description: SNMP daemon.
    set <Integer> {string}
end
```

config test snmpd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test syslogd

Syslog daemon.

```
config test syslogd
    Description: Syslog daemon.
    set <Integer> {string}
end
```

config test syslogd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test updated

Update daemon.

```
config test updated
    Description: Update daemon.
    set <Integer> {string}
end
```

config test updated

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test uploadd

Upload daemon.

```
config test uploadd
    Description: Upload daemon.
    set <Integer> {string}
end
```

config test uploadd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test urlfilter

URL filter daemon.

```
config test urlfilter
    Description: URL filter daemon.
    set <Integer> {string}
end
```

config test urlfilter

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test vned

Virtual network enabler daemon.

```
config test vned
    Description: Virtual network enabler daemon.
    set <Integer> {string}
end
```

config test vned

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test wad

WAD related processes.

```
config test wad
    Description: WAD related processes.
    set <Integer> {string}
end
```

config test wad

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test wccpd

WCCP daemon.

```
config test wccpd
    Description: WCCP daemon.
    set <Integer> {string}
end
```

config test wccpd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test wf_monitor

WF monitor.

```
config test wf_monitor
    Description: WF monitor.
    set <Integer> {string}
end
```

config test wf_monitor

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

config test wiredapd

Wiredapd daemon.

```
config test wiredapd
  Description: Wiredapd daemon.
  set <Integer> {string}
end
```

config test wiredapd

Parameter	Description	Type	Size	Default
<Integer>	Test level.	string	Maximum length: -	

user

This section includes syntax for the following commands:

- [config user adgrp on page 1097](#)
- [config user certificate on page 1098](#)
- [config user domain-controller on page 1099](#)
- [config user exchange on page 1103](#)
- [config user external-identity-provider on page 1105](#)
- [config user fortitoken on page 1107](#)
- [config user fsso-polling on page 1112](#)
- [config user fsso on page 1108](#)
- [config user group on page 1114](#)
- [config user krb-keytab on page 1119](#)
- [config user ldap on page 1120](#)
- [config user local on page 1128](#)
- [config user oidc on page 1132](#)
- [config user password-policy on page 1133](#)
- [config user peer on page 1135](#)
- [config user peergrp on page 1137](#)
- [config user pop3 on page 1137](#)
- [config user radius on page 1139](#)
- [config user saml on page 1153](#)
- [config user security-exempt-list on page 1157](#)
- [config user setting on page 1158](#)
- [config user tacacs+ on page 1162](#)

config user adgrp

Configure FSSO groups.

```
config user adgrp
    Description: Configure FSSO groups.
    edit <name>
        set server-name {string}
        set connector-source {string}
        set id {integer}
    next
end
```

config user adgrp

Parameter	Description	Type	Size	Default
name	Name.	string	Maximum length: 511	
server-name	FSSO agent name.	string	Maximum length: 35	
connector-source	FSSO connector source.	string	Maximum length: 35	
id	Group ID.	integer	Minimum value: 0 Maximum value: 4294967295	0

config user certificate

Configure certificate users.

```
config user certificate
    Description: Configure certificate users.
    edit <name>
        set id {integer}
        set status [enable|disable]
        set type [single-certificate|trusted-issuer]
        set common-name {string}
        set issuer {string}
    next
end
```

config user certificate

Parameter	Description	Type	Size	Default
name	User name.	string	Maximum length: 64	
id	User ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
status	Enable/disable allowing the certificate user to authenticate with the FortiGate unit.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable user.		
	<i>disable</i>	Disable user.		
type	Type of certificate authentication method.	option	-	single-certificate
	Option	Description		
	<i>single-certificate</i>	Single certificate.		
	<i>trusted-issuer</i>	Trusted CA issuer.		
common-name	Certificate common name.	string	Maximum length: 64	
issuer	CA certificate used for client certificate verification.	string	Maximum length: 79	

config user domain-controller

Configure domain controller entries.

```
config user domain-controller
    Description: Configure domain controller entries.
    edit <name>
        set ad-mode [none|ds|...]
        set hostname {string}
        set username {string}
        set password {password}
        set ip-address {ipv4-address}
        set ip6 {ipv6-address}
        set port {integer}
        set source-ip-address {ipv4-address}
        set source-ip6 {ipv6-address}
        set source-port {integer}
        set interface-select-method [auto|specify]
        set interface {string}
    config extra-server
        Description: Extra servers.
        edit <id>
            set ip-address {ipv4-address}
            set port {integer}
            set source-ip-address {ipv4-address}
            set source-port {integer}
        next
    end
    set domain-name {string}
    set domain-name-src [server|client]
    set replication-port {integer}
```

```

    set ldap-server <name1>, <name2>, ...
    set change-detection [enable|disable]
    set change-detection-period {integer}
    set dns-srv-lookup [enable|disable]
    set adlds-dn {string}
    set adlds-ip-address {ipv4-address}
    set adlds-ip6 {ipv6-address}
    set adlds-port {integer}
next
end

```

config user domain-controller

Parameter	Description	Type	Size	Default								
name	Domain controller entry name.	string	Maximum length: 35									
ad-mode	Set Active Directory mode.	option	-	none								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>none</i></td><td>The server is not configured as an Active Directory Domain Server (AD DS).</td></tr><tr><td><i>ds</i></td><td>The server is configured as an Active Directory Domain Server (AD DS).</td></tr><tr><td><i>lds</i></td><td>The server is an Active Directory Lightweight Domain Server (AD LDS).</td></tr></table>				Option	Description	<i>none</i>	The server is not configured as an Active Directory Domain Server (AD DS).	<i>ds</i>	The server is configured as an Active Directory Domain Server (AD DS).	<i>lds</i>	The server is an Active Directory Lightweight Domain Server (AD LDS).
	Option	Description										
	<i>none</i>	The server is not configured as an Active Directory Domain Server (AD DS).										
	<i>ds</i>	The server is configured as an Active Directory Domain Server (AD DS).										
<i>lds</i>	The server is an Active Directory Lightweight Domain Server (AD LDS).											
hostname	Hostname of the server to connect to.	string	Maximum length: 255									
username	User name to sign in with. Must have proper permissions for service.	string	Maximum length: 64									
password	Password for specified username.	password	Not Specified									
ip-address	Domain controller IPv4 address.	ipv4-address	Not Specified	0.0.0.0								
ip6	Domain controller IPv6 address.	ipv6-address	Not Specified	::								
port	Port to be used for communication with the domain controller (default = 445).	integer	Minimum value: 0 Maximum value: 65535	445								
source-ip-address	FortiProxy IPv4 address to be used for communication with the domain controller.	ipv4-address	Not Specified	0.0.0.0								
source-ip6	FortiProxy IPv6 address to be used for communication with the domain controller.	ipv6-address	Not Specified	::								

Parameter	Description	Type	Size	Default						
source-port	Source port to be used for communication with the domain controller.	integer	Minimum value: 0 Maximum value: 65535	0						
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>auto</i></td><td>Set outgoing interface automatically.</td></tr><tr><td><i>specify</i></td><td>Set outgoing interface manually.</td></tr></table>	Option	Description	<i>auto</i>	Set outgoing interface automatically.	<i>specify</i>	Set outgoing interface manually.			
Option	Description									
<i>auto</i>	Set outgoing interface automatically.									
<i>specify</i>	Set outgoing interface manually.									
interface	Specify outgoing interface to reach server.	string	Maximum length: 15							
domain-name	Domain DNS name.	string	Maximum length: 255							
domain-name-src	Select where to extract domain name (default = server).	option	-	client						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>server</i></td><td>Extract domain name from server's (Domain Controller) data.</td></tr><tr><td><i>client</i></td><td>Extract domain name from client's data.</td></tr></table>	Option	Description	<i>server</i>	Extract domain name from server's (Domain Controller) data.	<i>client</i>	Extract domain name from client's data.			
Option	Description									
<i>server</i>	Extract domain name from server's (Domain Controller) data.									
<i>client</i>	Extract domain name from client's data.									
replication-port	Port to be used for communication with the domain controller for replication service. Port number 0 indicates automatic discovery.	integer	Minimum value: 0 Maximum value: 65535	0						
ldap-server <name>	LDAP server name(s). LDAP server name.	string	Maximum length: 79							
change-detection	Enable/disable detection of a configuration change in the Active Directory server.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable detection of a configuration change in the Active Directory server.</td></tr><tr><td><i>disable</i></td><td>Disable detection of a configuration change in the Active Directory server.</td></tr></table>	Option	Description	<i>enable</i>	Enable detection of a configuration change in the Active Directory server.	<i>disable</i>	Disable detection of a configuration change in the Active Directory server.			
Option	Description									
<i>enable</i>	Enable detection of a configuration change in the Active Directory server.									
<i>disable</i>	Disable detection of a configuration change in the Active Directory server.									

Parameter	Description	Type	Size	Default						
change-detection-period	Minutes to detect a configuration change in the Active Directory server (5 - 10080 minutes (7 days), default = 60).	integer	Minimum value: 5 Maximum value: 10080	60						
dns-srv-lookup	Enable/disable DNS service lookup.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable DNS service lookup.</td></tr><tr><td><i>disable</i></td><td>Disable DNS service lookup.</td></tr></table>				Option	Description	<i>enable</i>	Enable DNS service lookup.	<i>disable</i>	Disable DNS service lookup.
	Option	Description								
	<i>enable</i>	Enable DNS service lookup.								
<i>disable</i>	Disable DNS service lookup.									
adlds-dn	AD LDS distinguished name.	string	Maximum length: 255							
adlds-ip-address	AD LDS IPv4 address.	ipv4-address	Not Specified	0.0.0.0						
adlds-ip6	AD LDS IPv6 address.	ipv6-address	Not Specified	::						
adlds-port	Port number of AD LDS service (default = 389).	integer	Minimum value: 0 Maximum value: 65535	389						

config extra-server

Parameter	Description	Type	Size	Default
id	Server ID.	integer	Minimum value: 1 Maximum value: 100	0
ip-address	Domain controller IP address.	ipv4-address	Not Specified	0.0.0.0
port	Port to be used for communication with the domain controller (default = 445).	integer	Minimum value: 0 Maximum value: 65535	445
source-ip-address	FortiProxy IPv4 address to be used for communication with the domain controller.	ipv4-address	Not Specified	0.0.0.0

Parameter	Description	Type	Size	Default
source-port	Source port to be used for communication with the domain controller.	integer	Minimum value: 0 Maximum value: 65535	0

config user exchange

Configure MS Exchange server entries.

```
config user exchange
  Description: Configure MS Exchange server entries.
  edit <name>
    set server-name {string}
    set domain-name {string}
    set username {string}
    set password {password}
    set ip {ipv4-address-any}
    set connect-protocol [rpc-over-tcp|rpc-over-http|...]
    set validate-server-certificate [disable|enable]
    set auth-type [spnego|ntlm|...]
    set auth-level [connect|call|...]
    set http-auth-type [basic|ntlm]
    set ssl-min-proto-version [default|SSLv3|...]
    set auto-discover-kdc [enable|disable]
    set kdc-ip <ipv41>, <ipv42>, ...
  next
end
```

config user exchange

Parameter	Description	Type	Size	Default
name	MS Exchange server entry name.	string	Maximum length: 35	
server-name	MS Exchange server hostname.	string	Maximum length: 63	
domain-name	MS Exchange server fully qualified domain name.	string	Maximum length: 79	
username	User name used to sign in to the server. Must have proper permissions for service.	string	Maximum length: 64	
password	Password for the specified username.	password	Not Specified	

Parameter	Description	Type	Size	Default												
ip	Server IPv4 address.	ipv4-address-any	Not Specified	0.0.0.0												
connect-protocol	Connection protocol used to connect to MS Exchange service.	option	-	rpc-over-https												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>rpc-over-tcp</i></td><td>Connect using RPC-over-TCP. Use for MS Exchange 2010 and earlier versions. Supported in MS Exchange 2013.</td></tr><tr><td><i>rpc-over-http</i></td><td>Connect using RPC-over-HTTP. Use for MS Exchange 2016 and later versions. Supported in MS Exchange 2013.</td></tr><tr><td><i>rpc-over-https</i></td><td>Connect using RPC-over-HTTPS. Use for MS Exchange 2016 and later versions. Supported in MS Exchange 2013.</td></tr></table>	Option	Description	<i>rpc-over-tcp</i>	Connect using RPC-over-TCP. Use for MS Exchange 2010 and earlier versions. Supported in MS Exchange 2013.	<i>rpc-over-http</i>	Connect using RPC-over-HTTP. Use for MS Exchange 2016 and later versions. Supported in MS Exchange 2013.	<i>rpc-over-https</i>	Connect using RPC-over-HTTPS. Use for MS Exchange 2016 and later versions. Supported in MS Exchange 2013.							
Option	Description															
<i>rpc-over-tcp</i>	Connect using RPC-over-TCP. Use for MS Exchange 2010 and earlier versions. Supported in MS Exchange 2013.															
<i>rpc-over-http</i>	Connect using RPC-over-HTTP. Use for MS Exchange 2016 and later versions. Supported in MS Exchange 2013.															
<i>rpc-over-https</i>	Connect using RPC-over-HTTPS. Use for MS Exchange 2016 and later versions. Supported in MS Exchange 2013.															
validate-server-certificate	Enable/disable exchange server certificate validation.	option	-	disable												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable validation of server certificate.</td></tr><tr><td><i>enable</i></td><td>Enable validation of server certificate.</td></tr></table>	Option	Description	<i>disable</i>	Disable validation of server certificate.	<i>enable</i>	Enable validation of server certificate.									
Option	Description															
<i>disable</i>	Disable validation of server certificate.															
<i>enable</i>	Enable validation of server certificate.															
auth-type	Authentication security type used for the RPC protocol layer.	option	-	kerberos												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>spnego</i></td><td>Negotiate authentication.</td></tr><tr><td><i>ntlm</i></td><td>NTLM authentication.</td></tr><tr><td><i>kerberos</i></td><td>Kerberos authentication.</td></tr></table>	Option	Description	<i>spnego</i>	Negotiate authentication.	<i>ntlm</i>	NTLM authentication.	<i>kerberos</i>	Kerberos authentication.							
Option	Description															
<i>spnego</i>	Negotiate authentication.															
<i>ntlm</i>	NTLM authentication.															
<i>kerberos</i>	Kerberos authentication.															
auth-level	Authentication security level used for the RPC protocol layer.	option	-	privacy												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>connect</i></td><td>RPC authentication level 'connect'.</td></tr><tr><td><i>call</i></td><td>RPC authentication level 'call'.</td></tr><tr><td><i>packet</i></td><td>RPC authentication level 'packet'.</td></tr><tr><td><i>integrity</i></td><td>RPC authentication level 'integrity'.</td></tr><tr><td><i>privacy</i></td><td>RPC authentication level 'privacy'.</td></tr></table>	Option	Description	<i>connect</i>	RPC authentication level 'connect'.	<i>call</i>	RPC authentication level 'call'.	<i>packet</i>	RPC authentication level 'packet'.	<i>integrity</i>	RPC authentication level 'integrity'.	<i>privacy</i>	RPC authentication level 'privacy'.			
Option	Description															
<i>connect</i>	RPC authentication level 'connect'.															
<i>call</i>	RPC authentication level 'call'.															
<i>packet</i>	RPC authentication level 'packet'.															
<i>integrity</i>	RPC authentication level 'integrity'.															
<i>privacy</i>	RPC authentication level 'privacy'.															

Parameter	Description	Type	Size	Default														
http-auth-type	Authentication security type used for the HTTP transport.	option	-	ntlm														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>basic</i></td><td>Basic HTTP authentication.</td></tr><tr><td><i>ntlm</i></td><td>NTLM HTTP authentication.</td></tr></table>	Option	Description	<i>basic</i>	Basic HTTP authentication.	<i>ntlm</i>	NTLM HTTP authentication.											
Option	Description																	
<i>basic</i>	Basic HTTP authentication.																	
<i>ntlm</i>	NTLM HTTP authentication.																	
ssl-min-protocol-version	Minimum SSL/TLS protocol version for HTTPS transport (default is to follow system global setting).	option	-	default														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>default</i></td><td>Follow system global setting.</td></tr><tr><td><i>SSLv3</i></td><td>SSLv3.</td></tr><tr><td><i>TLSv1</i></td><td>TLSv1.</td></tr><tr><td><i>TLSv1-1</i></td><td>TLSv1.1.</td></tr><tr><td><i>TLSv1-2</i></td><td>TLSv1.2.</td></tr><tr><td><i>TLSv1-3</i></td><td>TLSv1.3.</td></tr></table>	Option	Description	<i>default</i>	Follow system global setting.	<i>SSLv3</i>	SSLv3.	<i>TLSv1</i>	TLSv1.	<i>TLSv1-1</i>	TLSv1.1.	<i>TLSv1-2</i>	TLSv1.2.	<i>TLSv1-3</i>	TLSv1.3.			
Option	Description																	
<i>default</i>	Follow system global setting.																	
<i>SSLv3</i>	SSLv3.																	
<i>TLSv1</i>	TLSv1.																	
<i>TLSv1-1</i>	TLSv1.1.																	
<i>TLSv1-2</i>	TLSv1.2.																	
<i>TLSv1-3</i>	TLSv1.3.																	
auto-discover-kdc	Enable/disable automatic discovery of KDC IP addresses.	option	-	enable														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable automatic discovery of KDC IP addresses.</td></tr><tr><td><i>disable</i></td><td>Disable automatic discovery of KDC IP addresses.</td></tr></table>	Option	Description	<i>enable</i>	Enable automatic discovery of KDC IP addresses.	<i>disable</i>	Disable automatic discovery of KDC IP addresses.											
Option	Description																	
<i>enable</i>	Enable automatic discovery of KDC IP addresses.																	
<i>disable</i>	Disable automatic discovery of KDC IP addresses.																	
kdc-ip <ipv4>	KDC IPv4 addresses for Kerberos authentication. KDC IPv4 addresses for Kerberos authentication.	string	Maximum length: 79															

config user external-identity-provider

Configure external identity provider.

```
config user external-identity-provider
  Description: Configure external identity provider.
  edit <name>
    set type {option}
    set version [v1.0|beta]
    set url {string}
    set user-attr-name {string}
    set group-attr-name {string}
    set port {integer}
    set source-ip {string}
    set interface-select-method [auto|specify]
```

```

        set interface {string}
        set server-identity-check [disable|enable]
        set timeout {integer}
    next
end

```

config user external-identity-provider

Parameter	Description	Type	Size	Default						
name	External identity provider name.	string	Maximum length: 35							
type	External identity provider type.	option	-							
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>ms-graph</i></td><td>Microsoft Graph server.</td></tr></table>				Option	Description	<i>ms-graph</i>	Microsoft Graph server.		
Option	Description									
<i>ms-graph</i>	Microsoft Graph server.									
version	External identity API version.	option	-							
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>v1.0</i></td><td>MS Graph REST API v1.0.</td></tr><tr><td><i>beta</i></td><td>MS Graph REST API beta (debug build only).</td></tr></table>				Option	Description	<i>v1.0</i>	MS Graph REST API v1.0.	<i>beta</i>	MS Graph REST API beta (debug build only).
Option	Description									
<i>v1.0</i>	MS Graph REST API v1.0.									
<i>beta</i>	MS Graph REST API beta (debug build only).									
url	External identity provider URL (e.g. "https://example.com:8080/api/v1").	string	Maximum length: 127							
user-attr-name	User attribute name in authentication query.	string	Maximum length: 63	userPrincipalName						
group-attr-name	Group attribute name in authentication query.	string	Maximum length: 63	id						
port	External identity provider service port number (0 to use default).	integer	Minimum value: 0 Maximum value: 65535	0						
source-ip	Use this IPv4/v6 address to connect to the external identity provider.	string	Maximum length: 63							
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>auto</i></td><td>Set outgoing interface automatically.</td></tr><tr><td><i>specify</i></td><td>Set outgoing interface manually.</td></tr></table>				Option	Description	<i>auto</i>	Set outgoing interface automatically.	<i>specify</i>	Set outgoing interface manually.
Option	Description									
<i>auto</i>	Set outgoing interface automatically.									
<i>specify</i>	Set outgoing interface manually.									

Parameter	Description	Type	Size	Default						
interface	Specify outgoing interface to reach server.	string	Maximum length: 15							
server-identity-check	Enable/disable server's identity check against its certificate and subject alternative name(s).	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Do not check server's identity against its certificate and subject alternative name(s).</td></tr><tr><td><i>enable</i></td><td>Check server's identity against its certificate and subject alternative name(s).</td></tr></table>				Option	Description	<i>disable</i>	Do not check server's identity against its certificate and subject alternative name(s).	<i>enable</i>	Check server's identity against its certificate and subject alternative name(s).
Option	Description									
<i>disable</i>	Do not check server's identity against its certificate and subject alternative name(s).									
<i>enable</i>	Check server's identity against its certificate and subject alternative name(s).									
timeout	Connection timeout value in seconds (default=5).	integer	Minimum value: 1 Maximum value: 60	5						

config user fortitoken

Configure FortiToken.

```
config user fortitoken
    Description: Configure FortiToken.
    edit <serial-number>
        set status [active|lock]
        set seed {string}
        set comments {var-string}
        set license {string}
        set activation-code {string}
        set activation-expire {integer}
        set reg-id {string}
        set os-ver {string}
    next
end
```

config user fortitoken

Parameter	Description	Type	Size	Default				
serial-number	Serial number.	string	Maximum length: 16					
status	Status.	option	-	active				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>active</td><td>Activate FortiToken.</td></tr></table>				Option	Description	active	Activate FortiToken.
Option	Description							
active	Activate FortiToken.							

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>lock</i>	Lock FortiToken.		
seed	Token seed.	string	Maximum length: 208	
comments	Comment.	var-string	Maximum length: 255	
license	Mobile token license.	string	Maximum length: 31	
activation-code	Mobile token user activation-code.	string	Maximum length: 32	
activation-expire	Mobile token user activation-code expire time.	integer	Minimum value: 0 Maximum value: 4294967295	0
reg-id	Device Reg ID.	string	Maximum length: 256	
os-ver	Device Mobile Version.	string	Maximum length: 15	

config user fsso

Configure Fortinet Single Sign On (FSSO) agents.

```
config user fsso
  Description: Configure Fortinet Single Sign On (FSSO) agents.
  edit <name>
    set type [default|fortinac]
    set server {string}
    set port {integer}
    set password {password}
    set server2 {string}
    set port2 {integer}
    set password2 {password}
    set server3 {string}
    set port3 {integer}
    set password3 {password}
    set server4 {string}
    set port4 {integer}
    set password4 {password}
    set server5 {string}
    set port5 {integer}
    set password5 {password}
    set logon-timeout {integer}
```



```

set ldap-server {string}
set group-poll-interval {integer}
set ldap-poll [enable|disable]
set ldap-poll-interval {integer}
set ldap-poll-filter {string}
set user-info-server {string}
set ssl [enable|disable]
set sni {string}
set ssl-server-host-ip-check [enable|disable]
set ssl-trusted-cert {string}
set source-ip {ipv4-address}
set source-ip6 {ipv6-address}
set interface-select-method [auto|specify]
set interface {string}
next
end

```

config user fsso

Parameter	Description	Type	Size	Default						
name	Name.	string	Maximum length: 35							
type	Server type.	option	-	default						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>default</td><td>All other unspecified types of servers.</td></tr><tr><td>fortinac</td><td>FortiNAC server.</td></tr></table>				Option	Description	default	All other unspecified types of servers.	fortinac	FortiNAC server.
	Option	Description								
	default	All other unspecified types of servers.								
fortinac	FortiNAC server.									
server	Domain name or IP address of the first FSSO collector agent.	string	Maximum length: 63							
port	Port of the first FSSO collector agent.	integer	Minimum value: 1 Maximum value: 65535	8000						
password	Password of the first FSSO collector agent.	password	Not Specified							
server2	Domain name or IP address of the second FSSO collector agent.	string	Maximum length: 63							
port2	Port of the second FSSO collector agent.	integer	Minimum value: 1 Maximum value: 65535	8000						

Parameter	Description	Type	Size	Default
password2	Password of the second FSSO collector agent.	password	Not Specified	
server3	Domain name or IP address of the third FSSO collector agent.	string	Maximum length: 63	
port3	Port of the third FSSO collector agent.	integer	Minimum value: 1 Maximum value: 65535	8000
password3	Password of the third FSSO collector agent.	password	Not Specified	
server4	Domain name or IP address of the fourth FSSO collector agent.	string	Maximum length: 63	
port4	Port of the fourth FSSO collector agent.	integer	Minimum value: 1 Maximum value: 65535	8000
password4	Password of the fourth FSSO collector agent.	password	Not Specified	
server5	Domain name or IP address of the fifth FSSO collector agent.	string	Maximum length: 63	
port5	Port of the fifth FSSO collector agent.	integer	Minimum value: 1 Maximum value: 65535	8000
password5	Password of the fifth FSSO collector agent.	password	Not Specified	
logon-timeout	Interval in minutes to keep logons after FSSO server down.	integer	Minimum value: 1 Maximum value: 2880	5
ldap-server	LDAP server to get group information.	string	Maximum length: 35	
group-poll-interval	Interval in minutes within to fetch groups from FSSO server, or unset to disable.	integer	Minimum value: 1 Maximum value: 2880	0

Parameter	Description	Type	Size	Default
ldap-poll	Enable/disable automatic fetching of groups from LDAP server.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable automatic fetching of groups from LDAP server.		
	<i>disable</i>	Disable automatic fetching of groups from LDAP server.		
ldap-poll-interval	Interval in minutes within to fetch groups from LDAP server.	integer	Minimum value: 1 Maximum value: 2880	180
ldap-poll-filter	Filter used to fetch groups.	string	Maximum length: 2047	(objectCategory=group)
user-info-server	LDAP server to get user information.	string	Maximum length: 35	
ssl	Enable/disable use of SSL.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable use of SSL.		
	<i>disable</i>	Disable use of SSL.		
sni	Server Name Indication.	string	Maximum length: 255	
ssl-server-host-ip-check	Enable/disable server host/IP verification.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable server host/IP verification.		
	<i>disable</i>	Disable server host/IP verification.		
ssl-trusted-cert	Trusted server certificate or CA certificate.	string	Maximum length: 79	
source-ip	Source IP for communications to FSSO agent.	ipv4-address	Not Specified	0.0.0.0
source-ip6	IPv6 source for communications to FSSO agent.	ipv6-address	Not Specified	::
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>auto</i>	Set outgoing interface automatically.		
	<i>specify</i>	Set outgoing interface manually.		
interface	Specify outgoing interface to reach server.	string	Maximum length: 15	

config user fsso-polling

Configure FSSO active directory servers for polling mode.

```
config user fsso-polling
  Description: Configure FSSO active directory servers for polling mode.
  edit <id>
    set status [enable|disable]
    set server {string}
    set default-domain {string}
    set port {integer}
    set user {string}
    set password {password}
    set ldap-server {string}
    set logon-history {integer}
    set polling-frequency {integer}
    config adgrp
      Description: LDAP Group Info.
      edit <name>
        next
      end
    set smbv1 [enable|disable]
    set smb-ntlmv1-auth [enable|disable]
  next
end
```

config user fsso-polling

Parameter	Description	Type	Size	Default
id	Active Directory server ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
status	Enable/disable polling for the status of this Active Directory server.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
server	Host name or IP address of the Active Directory server.	string	Maximum length: 63	
default-domain	Default domain managed by this Active Directory server.	string	Maximum length: 35	
port	Port to communicate with this Active Directory server.	integer	Minimum value: 0 Maximum value: 65535	0
user	User name required to log into this Active Directory server.	string	Maximum length: 35	
password	Password required to log into this Active Directory server.	password	Not Specified	
ldap-server	LDAP server name used in LDAP connection strings.	string	Maximum length: 35	
logon-history	Number of hours of logon history to keep, 0 means keep all history.	integer	Minimum value: 0 Maximum value: 48	8
polling-frequency	Polling frequency (every 1 to 30 seconds).	integer	Minimum value: 1 Maximum value: 30	10
smbv1	Enable/disable support of SMBv1 for Samba.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable support of SMBv1 for Samba.		
	<i>disable</i>	Disable support of SMBv1 for Samba.		
smb-ntlmv1-auth	Enable/disable support of NTLMv1 for Samba authentication.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable support of NTLMv1 for Samba authentication.		
	<i>disable</i>	Disable support of NTLMv1 for Samba authentication.		

config adgrp

Parameter	Description	Type	Size	Default
name	Name.	string	Maximum length: 511	

config user group

Configure user groups.

```
config user group
  Description: Configure user groups.
  edit <name>
    set id {integer}
    set group-type [firewall|fsso-service|...]
    set authtimeout {integer}
    set auth-concurrent-override [enable|disable]
    set auth-concurrent-value {integer}
    set http-digest-realm {string}
    set sso-attribute-value {string}
    set logic-type [or|and]
    set member <name1>, <name2>, ...
  config match
    Description: Group matches.
    edit <id>
      set server-name {string}
      set group-name {string}
    next
  end
  set user-id [email|auto-generate|...]
  set password [auto-generate|specify|...]
  set user-name [disable|enable]
  set sponsor [optional|mandatory|...]
  set company [optional|mandatory|...]
  set email [disable|enable]
  set mobile-phone [disable|enable]
  set sms-server [fortiguard|custom]
  set sms-custom-server {string}
  set expire-type [immediately|first-successful-login]
  set expire {integer}
  set max-accounts {integer}
  set multiple-guest-add [disable|enable]
  config guest
    Description: Guest User.
    edit <id>
      set user-id {string}
      set name {string}
      set password {password}
      set mobile-phone {string}
      set sponsor {string}
      set company {string}
      set email {string}
```

```

        set expiration {user}
        set comment {var-string}
    next
end
next
end

```

config user group

Parameter	Description	Type	Size	Default										
name	Group name.	string	Maximum length: 35											
id	Group ID.	integer	Minimum value: 0 Maximum value: 4294967295	0										
group-type	Set the group to be for firewall authentication, FSSO, RSSO, or guest users.	option	-	firewall										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>firewall</i></td><td>Firewall.</td></tr><tr><td><i>fsso-service</i></td><td>Fortinet Single Sign-On Service.</td></tr><tr><td><i>rsso</i></td><td>RADIUS based Single Sign-On Service.</td></tr><tr><td><i>guest</i></td><td>Guest.</td></tr></table>				Option	Description	<i>firewall</i>	Firewall.	<i>fsso-service</i>	Fortinet Single Sign-On Service.	<i>rsso</i>	RADIUS based Single Sign-On Service.	<i>guest</i>	Guest.
Option	Description													
<i>firewall</i>	Firewall.													
<i>fsso-service</i>	Fortinet Single Sign-On Service.													
<i>rsso</i>	RADIUS based Single Sign-On Service.													
<i>guest</i>	Guest.													
authtimeout	Authentication timeout in minutes for this user group. 0 to use the global user setting auth-timeout.	integer	Minimum value: 0 Maximum value: 43200	0										
auth-concurrent-override	Enable/disable overriding the global number of concurrent authentication sessions for this user group.	option	-	disable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable auth-concurrent-override.</td></tr><tr><td><i>disable</i></td><td>Disable auth-concurrent-override.</td></tr></table>				Option	Description	<i>enable</i>	Enable auth-concurrent-override.	<i>disable</i>	Disable auth-concurrent-override.				
Option	Description													
<i>enable</i>	Enable auth-concurrent-override.													
<i>disable</i>	Disable auth-concurrent-override.													
auth-concurrent-value	Maximum number of concurrent authenticated connections per user (0 - 100).	integer	Minimum value: 0 Maximum value: 100	0										

Parameter	Description	Type	Size	Default								
http-digest-realm	Realm attribute for MD5-digest authentication.	string	Maximum length: 35									
sso-attribute-value	Name of the RADIUS user group that this local user group represents.	string	Maximum length: 511									
logic-type	Set the logic between members or matching entries.	option	-	or								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>or</i></td><td>Logic OR between members or match entries.</td></tr><tr><td><i>and</i></td><td>Logic AND between members or match entries.</td></tr></table>				Option	Description	<i>or</i>	Logic OR between members or match entries.	<i>and</i>	Logic AND between members or match entries.		
Option	Description											
<i>or</i>	Logic OR between members or match entries.											
<i>and</i>	Logic AND between members or match entries.											
member <name>	Names of users, peers, LDAP servers, RADIUS servers or external idp servers to add to the user group. Group member name.	string	Maximum length: 511									
user-id	Guest user ID type.	option	-	email								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>email</i></td><td>Email address.</td></tr><tr><td><i>auto-generate</i></td><td>Automatically generate.</td></tr><tr><td><i>specify</i></td><td>Specify.</td></tr></table>				Option	Description	<i>email</i>	Email address.	<i>auto-generate</i>	Automatically generate.	<i>specify</i>	Specify.
Option	Description											
<i>email</i>	Email address.											
<i>auto-generate</i>	Automatically generate.											
<i>specify</i>	Specify.											
password	Guest user password type.	option	-	auto-generate								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>auto-generate</i></td><td>Automatically generate.</td></tr><tr><td><i>specify</i></td><td>Specify.</td></tr><tr><td><i>disable</i></td><td>Disable.</td></tr></table>				Option	Description	<i>auto-generate</i>	Automatically generate.	<i>specify</i>	Specify.	<i>disable</i>	Disable.
Option	Description											
<i>auto-generate</i>	Automatically generate.											
<i>specify</i>	Specify.											
<i>disable</i>	Disable.											
user-name	Enable/disable the guest user name entry.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr></table>				Option	Description	<i>disable</i>	Disable setting.	<i>enable</i>	Enable setting.		
Option	Description											
<i>disable</i>	Disable setting.											
<i>enable</i>	Enable setting.											
sponsor	Set the action for the sponsor guest user field.	option	-	optional								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>optional</i></td><td>Optional.</td></tr></table>				Option	Description	<i>optional</i>	Optional.				
Option	Description											
<i>optional</i>	Optional.											

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>mandatory</i>	Mandatory.		
	<i>disabled</i>	Disabled.		
company	Set the action for the company guest user field.	option	-	optional
	Option	Description		
	<i>optional</i>	Optional.		
	<i>mandatory</i>	Mandatory.		
	<i>disabled</i>	Disabled.		
email	Enable/disable the guest user email address field.	option	-	enable
	Option	Description		
	<i>disable</i>	Disable setting.		
	<i>enable</i>	Enable setting.		
mobile-phone	Enable/disable the guest user mobile phone number field.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable setting.		
	<i>enable</i>	Enable setting.		
sms-server	Send SMS through FortiGuard or other external server.	option	-	fortiguard
	Option	Description		
	<i>fortiguard</i>	Send SMS by FortiGuard.		
	<i>custom</i>	Send SMS by custom server.		
sms-custom-server	SMS server.	string	Maximum length: 35	
expire-type	Determine when the expiration countdown begins.	option	-	immediately
	Option	Description		
	<i>immediately</i>	Immediately.		
	<i>first-successful-login</i>	First successful login.		

Parameter	Description	Type	Size	Default						
expire	Time in seconds before guest user accounts expire (1 - 31536000).	integer	Minimum value: 1 Maximum value: 31536000	14400						
max-accounts	Maximum number of guest accounts that can be created for this group (0 means unlimited).	integer	Minimum value: 0 Maximum value: 1024	0						
multiple-guest-add	Enable/disable addition of multiple guests.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr></table>				Option	Description	<i>disable</i>	Disable setting.	<i>enable</i>	Enable setting.
Option	Description									
<i>disable</i>	Disable setting.									
<i>enable</i>	Enable setting.									

config match

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
server-name	Name of remote auth server.	string	Maximum length: 35	
group-name	Name of matching user or group on remote authentication server.	string	Maximum length: 511	

config guest

Parameter	Description	Type	Size	Default
id	Guest ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
user-id	Guest ID.	string	Maximum length: 64	

Parameter	Description	Type	Size	Default
name	Guest name.	string	Maximum length: 64	
password	Guest password.	password	Not Specified	
mobile-phone	Mobile phone.	string	Maximum length: 35	
sponsor	Set the action for the sponsor guest user field.	string	Maximum length: 35	
company	Set the action for the company guest user field.	string	Maximum length: 35	
email	Email.	string	Maximum length: 64	
expiration	Expire time.	user	Not Specified	
comment	Comment.	var-string	Maximum length: 255	

config user krb-keytab

Configure Kerberos keytab entries.

```
config user krb-keytab
    Description: Configure Kerberos keytab entries.
    edit <name>
        set pac-data [enable|disable]
        set principal {string}
        set ldap-server <name1>, <name2>, ...
        set keytab {string}
    next
end
```

config user krb-keytab

Parameter	Description	Type	Size	Default
name	Kerberos keytab entry name.	string	Maximum length: 35	
pac-data	Enable/disable parsing PAC data in the ticket.	option	-	enable
	Option	Description		
	enable	Enable parsing PAC data in the ticket.		
	disable	Disable parsing PAC data in the ticket.		

Parameter	Description	Type	Size	Default
principal	Kerberos service principal. For example, HTTP/myfgt.example.com@example.com.	string	Maximum length: 511	
ldap-server <name>	LDAP server name(s). LDAP server name.	string	Maximum length: 79	
keytab	Base64 coded keytab file containing a pre-shared key.	string	Maximum length: 8191	

config user ldap

Configure LDAP server entries.

```
config user ldap
  Description: Configure LDAP server entries.
  edit <name>
    set server {string}
    set secondary-server {string}
    set tertiary-server {string}
    set status-ttl {integer}
    set server-identity-check [enable|disable]
    set source-ip {string}
    set source-port {integer}
    set cnid {string}
    set dn {string}
    set type [simple|anonymous|...]
    set two-factor [disable|fortitoken-cloud]
    set two-factor-authentication [fortitoken|email|...]
    set two-factor-notification [email|sms]
    set two-factor-filter {string}
    set username {string}
    set password {password}
    set group-member-check [user-attr|group-object|...]
    set group-search-base {string}
    set group-object-filter {string}
    set group-filter {string}
    set secure [disable|starttls|...]
    set validate-server-certificate [disable|enable]
    set ssl-max-proto-version [SSLv3|TLSv1|...]
    set ssl-min-proto-version [default|SSLv3|...]
    set ca-cert {string}
    set port {integer}
    set password-expiry-warning [enable|disable]
    set password-renewal [enable|disable]
    set member-attr {string}
    set account-key-processing [same|strip]
    set account-key-cert-field [othername|rfc822name|...]
    set account-key-filter {string}
    set search-type {option1}, {option2}, ...
    set max-connections {integer}
    set client-cert-auth [enable|disable]
    set client-cert {string}
```

```

        set obtain-user-info [enable|disable]
        set user-info-exchange-server {string}
        set interface-select-method [auto|specify]
        set interface {string}
        set antiphish [enable|disable]
        set password-attr {string}
    next
end

```

config user ldap

Parameter	Description	Type	Size	Default
name	LDAP server entry name.	string	Maximum length: 35	
server	LDAP server CN domain name or IP.	string	Maximum length: 63	
secondary-server	Secondary LDAP server CN domain name or IP.	string	Maximum length: 63	
tertiary-server	Tertiary LDAP server CN domain name or IP.	string	Maximum length: 63	
status-ttl	Time for which server reachability is cached so that when a server is unreachable, it will not be retried for at least this period of time (0 = cache disabled, default = 300).	integer	Minimum value: 0 Maximum value: 600	300
server-identity-check	Enable/disable LDAP server identity check (verify server domain name/IP address against the server certificate).	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	enable	Enable server identity check.		
	disable	Disable server identity check.		
source-ip	FortiProxy IP address to be used for communication with the LDAP server.	string	Maximum length: 63	
source-port	Source port to be used for communication with the LDAP server.	integer	Minimum value: 0 Maximum value: 65535	0
cnid	Common name identifier for the LDAP server. The common name identifier for most LDAP servers is "cn".	string	Maximum length: 20	cn
dn	Distinguished name used to look up entries on the LDAP server.	string	Maximum length: 511	
type	Authentication type for LDAP searches.	option	-	simple
	Option	Description		
	simple	Simple password authentication without search.		
	anonymous	Bind using anonymous user search.		
	regular	Bind using username/password and then search.		
two-factor	Enable/disable two-factor authentication.	option	-	disable

Parameter	Description	Type	Size	Default
	Option		Description	
	disable	disable two-factor authentication.		
	fortitoken-cloud	FortiToken Cloud Service.		
two-factor-authentication	Authentication method by FortiToken Cloud.	option	-	
	Option		Description	
	fortitoken	FortiToken authentication.		
	email	Email one time password.		
	sms	SMS one time password.		
two-factor-notification	Notification method for user activation by FortiToken Cloud.	option	-	
	Option		Description	
	email	Email notification for activation code.		
	sms	SMS notification for activation code.		
two-factor-filter	Filter used to synchronize users to FortiToken Cloud.	string	Maximum length: 2047	
username	Username (full DN) for initial binding.	string	Maximum length: 511	
password	Password for initial binding.	password	Not Specified	
group-member-check	Group member checking methods.	option	-	user-attr
	Option		Description	
	user-attr	User attribute checking.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>group-object</i>	Group object checking.		
	<i>posix-group-object</i>	POSIX group object checking.		
group-search-base	Search base used for group searching.	string	Maximum length: 511	
group-object-filter	Filter used for group searching.	string	Maximum length: 2047	(&(objectcategory=group)(member=*))
group-filter	Filter used for group matching.	string	Maximum length: 2047	
secure	Port to be used for authentication.	option	-	disable
	Option	Description		
	<i>disable</i>	No SSL.		
	<i>starttls</i>	Use StartTLS.		
	<i>ldaps</i>	Use LDAPS.		
validate-server-certificate	Enable/disable icap server certificate validation.	option	-	disable
	Option	Description		
	<i>disable</i>	Disable validation of server certificate.		
	<i>enable</i>	Enable validation of server certificate.		
ssl-max-protocol-version	Maximum supported protocol version for SSL/TLS connections.	option	-	TLSv1-3
	Option	Description		
	<i>SSLv3</i>	SSLv3.		

Parameter	Description	Type	Size	Default
	Option		Description	
	TLSv1	TLSv1.		
	TLSv1-1	TLSv1.1.		
	TLSv1-2	TLSv1.2.		
	TLSv1-3	TLSv1.3.		
ssl-min-protocol-version	Minimum supported protocol version for SSL/TLS connections (default is to follow system global setting).	option	-	default
	Option		Description	
	default	Follow system global setting.		
	SSLv3	SSLv3.		
	TLSv1	TLSv1.		
	TLSv1-1	TLSv1.1.		
	TLSv1-2	TLSv1.2.		
	TLSv1-3	TLSv1.3.		
ca-cert	CA certificate name.	string	Maximum length: 79	
port	Port to be used for communication with the LDAP server (default = 389).	integer	Minimum value: 1 Maximum value: 65535	389
password-expiry-warning	Enable/disable password expiry warnings.	option	-	disable
	Option		Description	
	enable	Enable password expiry warnings.		
	disable	Disable password expiry warnings.		

Parameter	Description	Type	Size	Default
password-renewal	Enable/disable online password renewal.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable online password renewal.		
	<i>disable</i>	Disable online password renewal.		
member-attr	Name of attribute from which to get group membership.	string	Maximum length: 63	memberOf
account-key-processing	Account key processing operation. The FortiGate will keep either the whole domain or strip the domain from the subject identity.	option	-	same
	Option	Description		
	<i>same</i>	Same as subject identity field.		
	<i>strip</i>	Strip domain string from subject identity field.		
account-key-cert-field	Define subject identity field in certificate for user access right checking.	option	-	othername
	Option	Description		
	<i>othername</i>	Other name in SAN.		
	<i>rfc822name</i>	RFC822 email address in SAN.		
	<i>dnsname</i>	DNS name in SAN.		
	<i>cn</i>	CN in subject.		

Parameter	Description	Type	Size	Default						
account-key-filter	Account key filter, using the UPN as the search filter.	string	Maximum length: 2047	(&(userPrincipalName=%s)(!(UserAccountControl:1.2.840.113556.1.4.803:=2)))						
search-type	Search type.	option	-	recursive						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>recursive</i></td><td>Recursively retrieve the user-group chain information of a user in a particular Microsoft AD domain.</td></tr></table>	Option	Description	<i>recursive</i>	Recursively retrieve the user-group chain information of a user in a particular Microsoft AD domain.					
Option	Description									
<i>recursive</i>	Recursively retrieve the user-group chain information of a user in a particular Microsoft AD domain.									
max-connections	Maximum LDAP server connections(16-5000, default 64).	integer	Minimum value: 16 Maximum value: 5000	64						
client-cert-auth	Enable/disable using client certificate for TLS authentication.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable using client certificate for TLS authentication.</td></tr><tr><td><i>disable</i></td><td>Disable using client certificate for TLS authentication.</td></tr></table>	Option	Description	<i>enable</i>	Enable using client certificate for TLS authentication.	<i>disable</i>	Disable using client certificate for TLS authentication.			
Option	Description									
<i>enable</i>	Enable using client certificate for TLS authentication.									
<i>disable</i>	Disable using client certificate for TLS authentication.									
client-cert	Client certificate name.	string	Maximum length: 79							
obtain-user-info	Enable/disable obtaining of user information.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable obtaining of user information.</td></tr><tr><td><i>disable</i></td><td>Disable obtaining of user information.</td></tr></table>	Option	Description	<i>enable</i>	Enable obtaining of user information.	<i>disable</i>	Disable obtaining of user information.			
Option	Description									
<i>enable</i>	Enable obtaining of user information.									
<i>disable</i>	Disable obtaining of user information.									
user-info-exchange-server	MS Exchange server from which to fetch user information.	string	Maximum length: 35							

Parameter	Description	Type	Size	Default						
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>auto</td><td>Set outgoing interface automatically.</td></tr><tr><td>specify</td><td>Set outgoing interface manually.</td></tr></table>	Option	Description	auto	Set outgoing interface automatically.	specify	Set outgoing interface manually.			
Option	Description									
auto	Set outgoing interface automatically.									
specify	Set outgoing interface manually.									
interface	Specify outgoing interface to reach server.	string	Maximum length: 15							
antiphish	Enable/disable AntiPhishing credential backend.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable AntiPhishing credential backend.</td></tr><tr><td>disable</td><td>Disable AntiPhishing credential backend.</td></tr></table>	Option	Description	enable	Enable AntiPhishing credential backend.	disable	Disable AntiPhishing credential backend.			
Option	Description									
enable	Enable AntiPhishing credential backend.									
disable	Disable AntiPhishing credential backend.									
password-attr	Name of attribute to get password hash.	string	Maximum length: 35	userPassword						

config user local

Configure local users.

```
config user local
  Description: Configure local users.
  edit <name>
    set id {integer}
    set status [enable|disable]
    set type [password|radius|...]
    set passwd {password}
    set ldap-server {string}
    set radius-server {string}
    set tacacs+-server {string}
    set two-factor [disable|fortitoken|...]
    set two-factor-authentication [fortitoken|email|...]
    set two-factor-notification [email|sms]
    set fortitoken {string}
    set email-to {string}
    set sms-server [fortiguard|custom]
    set sms-custom-server {string}
```

```

set sms-phone {string}
set passwd-policy {string}
set passwd-time {user}
set authtimeout {integer}
set workstation {string}
set auth-concurrent-override [enable|disable]
set auth-concurrent-value {integer}
set ppk-secret {password-3}
set ppk-identity {string}
set qkd-profile {string}
set username-sensitivity [disable|enable]
next
end

```

config user local

Parameter	Description	Type	Size	Default										
name	Local user name.	string	Maximum length: 64											
id	User ID.	integer	Minimum value: 0 Maximum value: 4294967295	0										
status	Enable/disable allowing the local user to authenticate with the FortiProxy unit.	option	-	enable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable user.</td></tr><tr><td><i>disable</i></td><td>Disable user.</td></tr></table>				Option	Description	<i>enable</i>	Enable user.	<i>disable</i>	Disable user.				
Option	Description													
<i>enable</i>	Enable user.													
<i>disable</i>	Disable user.													
type	Authentication method.	option	-	password										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>password</i></td><td>Password authentication.</td></tr><tr><td><i>radius</i></td><td>RADIUS server authentication.</td></tr><tr><td><i>tacacs+</i></td><td>TACACS+ server authentication.</td></tr><tr><td><i>ldap</i></td><td>LDAP server authentication.</td></tr></table>				Option	Description	<i>password</i>	Password authentication.	<i>radius</i>	RADIUS server authentication.	<i>tacacs+</i>	TACACS+ server authentication.	<i>ldap</i>	LDAP server authentication.
Option	Description													
<i>password</i>	Password authentication.													
<i>radius</i>	RADIUS server authentication.													
<i>tacacs+</i>	TACACS+ server authentication.													
<i>ldap</i>	LDAP server authentication.													
passwd	User's password.	password	Not Specified											
ldap-server	Name of LDAP server with which the user must authenticate.	string	Maximum length: 35											
radius-server	Name of RADIUS server with which the user must authenticate.	string	Maximum length: 35											

Parameter	Description	Type	Size	Default
tacacs+-server	Name of TACACS+ server with which the user must authenticate.	string	Maximum length: 35	
two-factor	Enable/disable two-factor authentication.	option	-	disable
	Option Description			
	disable			
	fortitoken			
	fortitoken-cloud			
	email			
	sms			
two-factor-authentication	Authentication method by FortiToken Cloud.	option	-	
	Option Description			
	fortitoken			
	email			
	sms			
two-factor-notification	Notification method for user activation by FortiToken Cloud.	option	-	
	Option Description			
	email			
	sms			
fortitoken	Two-factor recipient's FortiToken serial number.	string	Maximum length: 16	
email-to	Two-factor recipient's email address.	string	Maximum length: 63	
sms-server	Send SMS through FortiGuard or other external server.	option	-	fortiguard
	Option Description			
	fortiguard			
	custom			
sms-custom-server	Two-factor recipient's SMS server.	string	Maximum length: 35	

Parameter	Description	Type	Size	Default						
sms-phone	Two-factor recipient's mobile phone number.	string	Maximum length: 15							
passwd-policy	Password policy to apply to this user, as defined in config user password-policy.	string	Maximum length: 35							
passwd-time	Time of the last password update.	user	Not Specified							
authtimeout	Time in minutes before the authentication timeout for a user is reached.	integer	Minimum value: 0 Maximum value: 1440	0						
workstation	Name of the remote user workstation, if you want to limit the user to authenticate only from a particular workstation.	string	Maximum length: 35							
auth-concurrent-override	Enable/disable overriding the policy-auth-concurrent under config system global.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable auth-concurrent-override.</td></tr><tr><td><i>disable</i></td><td>Disable auth-concurrent-override.</td></tr></table>				Option	Description	<i>enable</i>	Enable auth-concurrent-override.	<i>disable</i>	Disable auth-concurrent-override.
Option	Description									
<i>enable</i>	Enable auth-concurrent-override.									
<i>disable</i>	Disable auth-concurrent-override.									
auth-concurrent-value	Maximum number of concurrent logins permitted from the same user.	integer	Minimum value: 0 Maximum value: 100	0						
ppk-secret	IKEv2 Postquantum Preshared Key (ASCII string or hexadecimal encoded with a leading 0x).	password-3	Not Specified							
ppk-identity	IKEv2 Postquantum Preshared Key Identity.	string	Maximum length: 35							
qkd-profile	Quantum Key Distribution (QKD) profile.	string	Maximum length: 35							
username-sensitivity	Enable/disable case and accent sensitivity when performing username matching (accents are stripped and case is ignored when disabled).	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Ignore case and accents. Username at prompt not required to match case or accents.</td></tr><tr><td><i>enable</i></td><td>Do not ignore case and accents. Username at prompt must be an exact match.</td></tr></table>				Option	Description	<i>disable</i>	Ignore case and accents. Username at prompt not required to match case or accents.	<i>enable</i>	Do not ignore case and accents. Username at prompt must be an exact match.
Option	Description									
<i>disable</i>	Ignore case and accents. Username at prompt not required to match case or accents.									
<i>enable</i>	Do not ignore case and accents. Username at prompt must be an exact match.									

config user oidc

OpenID Connect server entry configuration.

```
config user oidc
  Description: OpenID Connect server entry configuration.
  edit <name>
    set type [discovery|manual]
    set client-id {string}
    set client-secret {string}
    set discovery-url {string}
    set authorization-url {string}
    set token-url {string}
    set jwks-uri {string}
    set domain-hint {string}
    set issuer {string}
    set verify-issuer [enable|disable]
    set user-attr-name [email|sub|...]
    set user-regex {string}
    set ldap-server <name1>, <name2>, ...
    set clock-tolerance {integer}
  next
end
```

config user oidc

Parameter	Description	Type	Size	Default
name	OpenID Connect server entry name.	string	Maximum length: 35	
type	Type of OpenID Connect config.	option	-	discovery
	Option	Description		
	discovery	Use discovery URL to get configuration.		
	manual	Use manual configuration.		
client-id	OpenID Connect server client ID.	string	Maximum length: 127	
client-secret	OpenID Connect server client secret.	string	Maximum length: 127	
discovery-url	OpenID Connect server discovery URL.	string	Maximum length: 255	
authorization-url	OpenID Connect server authorization URL.	string	Maximum length: 255	
token-url	OpenID Connect server token URL.	string	Maximum length: 255	

Parameter	Description	Type	Size	Default								
jwt-uri	URL of the OP's JWK Set document.	string	Maximum length: 255									
domain-hint	Domain Hint.	string	Maximum length: 255									
issuer	OpenID Connect server issuer.	string	Maximum length: 255									
verify-issuer	Verify issuer in ID token (default = enable).	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable verification of issuer in ID token (default).</td></tr><tr><td>disable</td><td>Disable verification of issuer in ID token.</td></tr></table>				Option	Description	enable	Enable verification of issuer in ID token (default).	disable	Disable verification of issuer in ID token.		
Option	Description											
enable	Enable verification of issuer in ID token (default).											
disable	Disable verification of issuer in ID token.											
user-attr-name	Which field in ID token is username	option	-	email								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>email</td><td>Use email in ID token as username.</td></tr><tr><td>sub</td><td>Use sub in ID token as username.</td></tr><tr><td>preferred_username</td><td>Use preferred_username in ID token as username.</td></tr></table>				Option	Description	email	Use email in ID token as username.	sub	Use sub in ID token as username.	preferred_username	Use preferred_username in ID token as username.
Option	Description											
email	Use email in ID token as username.											
sub	Use sub in ID token as username.											
preferred_username	Use preferred_username in ID token as username.											
user-regex	username must match this regex (case insensitive).	string	Maximum length: 255									
ldap-server<name>	LDAP server name(s). LDAP server name.	string	Maximum length: 79									
clock-tolerance	Clock skew tolerance in seconds (0 - 300, default = 15, 0 = no tolerance).	integer	Minimum value: 0 Maximum value: 300	15								

config user password-policy

Configure user password policy.

```
config user password-policy
  Description: Configure user password policy.
  edit <name>
    set expire-days {integer}
    set warn-days {integer}
    set expired-password-renewal [enable|disable]
    set minimum-length {integer}
    set min-lower-case-letter {integer}
    set min-upper-case-letter {integer}
    set min-non-alphanumeric {integer}
```

```

        set min-number {integer}
        set min-change-characters {integer}
        set expire-status [enable|disable]
        set reuse-password [enable|disable]
    next
end

```

config user password-policy

Parameter	Description	Type	Size	Default						
name	Password policy name.	string	Maximum length: 35							
expire-days	Time in days before the user's password expires.	integer	Minimum value: 0 Maximum value: 999	180						
warn-days	Time in days before a password expiration warning message is displayed to the user upon login.	integer	Minimum value: 0 Maximum value: 30	15						
expired-password-renewal	Enable/disable renewal of a password that already is expired.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable renewal of a password that already is expired.</td></tr><tr><td><i>disable</i></td><td>Disable renewal of a password that already is expired.</td></tr></table>				Option	Description	<i>enable</i>	Enable renewal of a password that already is expired.	<i>disable</i>	Disable renewal of a password that already is expired.
Option	Description									
<i>enable</i>	Enable renewal of a password that already is expired.									
<i>disable</i>	Disable renewal of a password that already is expired.									
minimum-length	Minimum password length (8 - 128, default = 8).	integer	Minimum value: 8 Maximum value: 128	8						
min-lower-case-letter	Minimum number of lowercase characters in password (0 - 128, default = 0).	integer	Minimum value: 0 Maximum value: 128	0						
min-upper-case-letter	Minimum number of uppercase characters in password (0 - 128, default = 0).	integer	Minimum value: 0 Maximum value: 128	0						
min-non-alphanumeric	Minimum number of non-alphanumeric characters in password (0 - 128, default = 0).	integer	Minimum value: 0 Maximum value: 128	0						

Parameter	Description	Type	Size	Default						
min-number	Minimum number of numeric characters in password (0 - 128, default = 0).	integer	Minimum value: 0 Maximum value: 128	0						
min-change-characters	Minimum number of unique characters in new password which do not exist in old password (0 - 128, default = 0. This attribute overrides reuse-password if both are enabled).	integer	Minimum value: 0 Maximum value: 128	0						
expire-status	Enable/disable password expiration.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Passwords expire after expire-day days.</td></tr><tr><td><i>disable</i></td><td>Passwords do not expire.</td></tr></table>				Option	Description	<i>enable</i>	Passwords expire after expire-day days.	<i>disable</i>	Passwords do not expire.
	Option	Description								
	<i>enable</i>	Passwords expire after expire-day days.								
<i>disable</i>	Passwords do not expire.									
reuse-password	Enable/disable reuse of password. If both reuse-password and min-change-characters are enabled, min-change-characters overrides.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Users are allowed to reuse the same password.</td></tr><tr><td><i>disable</i></td><td>Users must create a new password.</td></tr></table>				Option	Description	<i>enable</i>	Users are allowed to reuse the same password.	<i>disable</i>	Users must create a new password.
	Option	Description								
	<i>enable</i>	Users are allowed to reuse the same password.								
<i>disable</i>	Users must create a new password.									

config user peer

Configure peer users.

```

config user peer
  Description: Configure peer users.
  edit <name>
    set mandatory-ca-verify [enable|disable]
    set ca {string}
    set subject {string}
    set cn {string}
    set cn-type [string|email|...]
    set mfa-mode [none|password|...]
    set mfa-server {string}
    set mfa-username {string}
    set mfa-password {password}
    set oosp-override-server {string}
    set two-factor [enable|disable]
    set passwd {password}
  next
end

```

config user peer

Parameter	Description	Type	Size	Default
name	Peer name.	string	Maximum length: 35	
mandatory-ca-verify	Determine what happens to the peer if the CA certificate is not installed. Disable to automatically consider the peer certificate as valid.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
ca	Name of the CA certificate.	string	Maximum length: 127	
subject	Peer certificate name constraints.	string	Maximum length: 255	
cn	Peer certificate common name.	string	Maximum length: 255	
cn-type	Peer certificate common name type.	option	-	string
	Option	Description		
	<i>string</i>	Normal string.		
	<i>email</i>	Email address.		
	<i>FQDN</i>	Fully Qualified Domain Name.		
	<i>ipv4</i>	IPv4 address.		
	<i>ipv6</i>	IPv6 address.		
mfa-mode	MFA mode for remote peer authentication/authorization.	option	-	none
	Option	Description		
	<i>none</i>	None.		
	<i>password</i>	Specified username/password.		
	<i>subject-identity</i>	Subject identity extracted from certificate.		
mfa-server	Name of a remote authenticator. Performs client access right check.	string	Maximum length: 35	
mfa-username	Unified username for remote authentication.	string	Maximum length: 35	

Parameter	Description	Type	Size	Default						
mfa-password	Unified password for remote authentication. This field may be left empty when RADIUS authentication is used, in which case the FortiGate will use the RADIUS username as a password.	password	Not Specified							
ocsp-override-server	Online Certificate Status Protocol (OCSP) server for certificate retrieval.	string	Maximum length: 35							
two-factor	Enable/disable two-factor authentication, applying certificate and password-based authentication.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable 2-factor authentication.</td></tr><tr><td><i>disable</i></td><td>Disable 2-factor authentication.</td></tr></table>				Option	Description	<i>enable</i>	Enable 2-factor authentication.	<i>disable</i>	Disable 2-factor authentication.
Option	Description									
<i>enable</i>	Enable 2-factor authentication.									
<i>disable</i>	Disable 2-factor authentication.									
passwd	Peer's password used for two-factor authentication.	password	Not Specified							

config user peergrp

Configure peer groups.

```
config user peergrp
    Description: Configure peer groups.
    edit <name>
        set member <name1>, <name2>, ...
    next
end
```

config user peergrp

Parameter	Description	Type	Size	Default
name	Peer group name.	string	Maximum length: 35	
member <name>	Peer group members. Peer group member name.	string	Maximum length: 35	

config user pop3

POP3 server entry configuration.

```

config user pop3
  Description: POP3 server entry configuration.
  edit <name>
    set server {string}
    set port {integer}
    set secure [none|starttls|...]
    set ssl-min-proto-version [default|SSLv3|...]
  next
end

```

config user pop3

Parameter	Description	Type	Size	Default
name	POP3 server entry name.	string	Maximum length: 35	
server	Server domain name or IP address.	string	Maximum length: 63	
port	POP3 service port number.	integer	Minimum value: 0 Maximum value: 65535	0
secure	SSL connection.	option	-	starttls
	Option		Description	
	none		None.	
	starttls		Use StartTLS.	
	pop3s		Use POP3 over SSL.	
ssl-min-protocol-version	Minimum supported protocol version for SSL/TLS connections (default is to follow system global setting).	option	-	default
	Option		Description	
	default		Follow system global setting.	
	SSLv3		SSLv3.	
	TLSv1		TLSv1.	
	TLSv1-1		TLSv1.1.	
	TLSv1-2		TLSv1.2.	
	TLSv1-3		TLSv1.3.	

config user radius

Configure RADIUS server entries.

```
config user radius
  Description: Configure RADIUS server entries.
  edit <name>
    set server {string}
    set secret {password}
    set secondary-server {string}
    set secondary-secret {password}
    set tertiary-server {string}
    set tertiary-secret {password}
    set timeout {integer}
    set status-ttl {integer}
    set all-usergroup [disable|enable]
    set use-management-vdom [enable|disable]
    set nas-ip {ipv4-address}
    set nas-id-type [legacy|custom|...]
    set call-station-id-type [legacy|IP|...]
    set nas-id {string}
    set acct-interim-interval {integer}
    set radius-coa [enable|disable]
    set radius-port {integer}
    set h3c-compatibility [enable|disable]
    set auth-type [auto|ms_chap_v2|...]
    set source-ip {string}
    set username-case-sensitive [enable|disable]
    set group-override-attr-type [filter-Id|class]
    set class <name1>, <name2>, ...
    set password-renewal [enable|disable]
    set require-message-authenticator [enable|disable]
    set password-encoding [auto|ISO-8859-1]
    set mac-username-delimiter [hyphen|single-hyphen|...]
    set mac-password-delimiter [hyphen|single-hyphen|...]
    set mac-case [uppercase|lowercase]
    set acct-all-servers [enable|disable]
    set switch-controller-acct-fast-framedip-detect {integer}
    set interface-select-method [auto|specify]
    set interface {string}
    set switch-controller-service-type {option1}, {option2}, ...
    set transport-protocol [udp|tcp|...]
    set tls-min-protocol-version [default|SSLv3|...]
    set ca-cert {string}
    set client-cert {string}
    set server-identity-check [enable|disable]
    set account-key-processing [same|strip]
    set account-key-cert-field [othername|rfc822name|...]
    set rso [enable|disable]
    set rso-radius-server-port {integer}
    set rso-radius-response [enable|disable]
    set rso-validate-request-secret [enable|disable]
    set rso-secret {password}
    set rso-endpoint-attribute [User-Name|NAS-IP-Address|...]
    set rso-endpoint-block-attribute [User-Name|NAS-IP-Address|...]
```

```

set sso-attribute [User-Name|NAS-IP-Address|...]
set sso-attribute-key {string}
set sso-attribute-value-override [enable|disable]
set rsoo-context-timeout {integer}
set rsoo-log-period {integer}
set rsoo-log-flags {option1}, {option2}, ...
set rsoo-flush-ip-session [enable|disable]
set rsoo-ep-one-ip-only [enable|disable]
set delimiter [plus|comma]
config accounting-server
    Description: Additional accounting servers.
    edit <id>
        set status [enable|disable]
        set server {string}
        set secret {password}
        set port {integer}
        set source-ip {string}
        set interface-select-method [auto|specify]
        set interface {string}
    next
end
next
end

```

config user radius

Parameter	Description	Type	Size	Default
name	RADIUS server entry name.	string	Maximum length: 35	
server	Primary RADIUS server CN domain name or IP address.	string	Maximum length: 63	
secret	Pre-shared secret key used to access the primary RADIUS server.	password	Not Specified	
secondary-server	Secondary RADIUS CN domain name or IP address.	string	Maximum length: 63	
secondary-secret	Secret key to access the secondary server.	password	Not Specified	
tertiary-server	Tertiary RADIUS CN domain name or IP address.	string	Maximum length: 63	
tertiary-secret	Secret key to access the tertiary server.	password	Not Specified	
timeout	Time in seconds to retry connecting server.	integer	Minimum value: 1 Maximum value: 300	5

Parameter	Description	Type	Size	Default								
status-ttl	Time for which server reachability is cached so that when a server is unreachable, it will not be retried for at least this period of time (0 = cache disabled, default = 300).	integer	Minimum value: 0 Maximum value: 600	300								
all-usergroup	Enable/disable automatically including this RADIUS server in all user groups.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Do not automatically include this server in a user group.</td></tr><tr><td><i>enable</i></td><td>Include this RADIUS server in every user group.</td></tr></table>	Option	Description	<i>disable</i>	Do not automatically include this server in a user group.	<i>enable</i>	Include this RADIUS server in every user group.					
Option	Description											
<i>disable</i>	Do not automatically include this server in a user group.											
<i>enable</i>	Include this RADIUS server in every user group.											
use-management-vdom	Enable/disable using management VDOM to send requests.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Send requests using the management VDOM.</td></tr><tr><td><i>disable</i></td><td>Send requests using the current VDOM.</td></tr></table>	Option	Description	<i>enable</i>	Send requests using the management VDOM.	<i>disable</i>	Send requests using the current VDOM.					
Option	Description											
<i>enable</i>	Send requests using the management VDOM.											
<i>disable</i>	Send requests using the current VDOM.											
nas-ip	IP address used to communicate with the RADIUS server and used as NAS-IP-Address and Called-Station-ID attributes.	ipv4-address	Not Specified	0.0.0.0								
nas-id-type	NAS identifier type configuration (default = legacy).	option	-	legacy								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>legacy</i></td><td>NAS-ID value is the value previously used by each daemon.</td></tr><tr><td><i>custom</i></td><td>NAS-ID value is customized.</td></tr><tr><td><i>hostname</i></td><td>NAS-ID value is hostname or HA group name if applicable.</td></tr></table>	Option	Description	<i>legacy</i>	NAS-ID value is the value previously used by each daemon.	<i>custom</i>	NAS-ID value is customized.	<i>hostname</i>	NAS-ID value is hostname or HA group name if applicable.			
Option	Description											
<i>legacy</i>	NAS-ID value is the value previously used by each daemon.											
<i>custom</i>	NAS-ID value is customized.											
<i>hostname</i>	NAS-ID value is hostname or HA group name if applicable.											
call-station-id-type	Calling & Called station identifier type configuration (default = legacy), this option is not available for 802.1x authentication.	option	-	legacy								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>legacy</i></td><td>Calling & Called station identifier is the value previously used by each daemon.</td></tr><tr><td><i>IP</i></td><td>Calling & Called station identifier is the value of IP address.</td></tr><tr><td><i>MAC</i></td><td>Calling & Called station identifier is the value of MAC address.</td></tr></table>	Option	Description	<i>legacy</i>	Calling & Called station identifier is the value previously used by each daemon.	<i>IP</i>	Calling & Called station identifier is the value of IP address.	<i>MAC</i>	Calling & Called station identifier is the value of MAC address.			
Option	Description											
<i>legacy</i>	Calling & Called station identifier is the value previously used by each daemon.											
<i>IP</i>	Calling & Called station identifier is the value of IP address.											
<i>MAC</i>	Calling & Called station identifier is the value of MAC address.											

Parameter	Description	Type	Size	Default												
nas-id	Custom NAS identifier.	string	Maximum length: 255													
acct-interim-interval	Time in seconds between each accounting interim update message.	integer	Minimum value: 60 Maximum value: 86400	0												
radius-coa	Enable to allow a mechanism to change the attributes of an authentication, authorization, and accounting session after it is authenticated.	option	-	disable												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable RADIUS CoA.</td></tr><tr><td><i>disable</i></td><td>Disable RADIUS CoA.</td></tr></table>	Option	Description	<i>enable</i>	Enable RADIUS CoA.	<i>disable</i>	Disable RADIUS CoA.									
Option	Description															
<i>enable</i>	Enable RADIUS CoA.															
<i>disable</i>	Disable RADIUS CoA.															
radius-port	RADIUS service port number.	integer	Minimum value: 0 Maximum value: 65535	0												
h3c-compatibility	Enable/disable compatibility with the H3C, a mechanism that performs security checking for authentication.	option	-	disable												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable H3C compatibility.</td></tr><tr><td><i>disable</i></td><td>Disable H3C compatibility.</td></tr></table>	Option	Description	<i>enable</i>	Enable H3C compatibility.	<i>disable</i>	Disable H3C compatibility.									
Option	Description															
<i>enable</i>	Enable H3C compatibility.															
<i>disable</i>	Disable H3C compatibility.															
auth-type	Authentication methods/protocols permitted for this RADIUS server.	option	-	auto												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>auto</i></td><td>Use PAP, MSCHAP_v2, and CHAP (in that order).</td></tr><tr><td><i>ms_chap_v2</i></td><td>Microsoft Challenge Handshake Authentication Protocol version 2.</td></tr><tr><td><i>ms_chap</i></td><td>Microsoft Challenge Handshake Authentication Protocol.</td></tr><tr><td><i>chap</i></td><td>Challenge Handshake Authentication Protocol.</td></tr><tr><td><i>pap</i></td><td>Password Authentication Protocol.</td></tr></table>	Option	Description	<i>auto</i>	Use PAP, MSCHAP_v2, and CHAP (in that order).	<i>ms_chap_v2</i>	Microsoft Challenge Handshake Authentication Protocol version 2.	<i>ms_chap</i>	Microsoft Challenge Handshake Authentication Protocol.	<i>chap</i>	Challenge Handshake Authentication Protocol.	<i>pap</i>	Password Authentication Protocol.			
Option	Description															
<i>auto</i>	Use PAP, MSCHAP_v2, and CHAP (in that order).															
<i>ms_chap_v2</i>	Microsoft Challenge Handshake Authentication Protocol version 2.															
<i>ms_chap</i>	Microsoft Challenge Handshake Authentication Protocol.															
<i>chap</i>	Challenge Handshake Authentication Protocol.															
<i>pap</i>	Password Authentication Protocol.															
source-ip	Source IP address for communications to the RADIUS server.	string	Maximum length: 63													
username-case-sensitive	Enable/disable case sensitive user names.	option	-	disable												

Parameter	Description	Type	Size	Default						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable username case-sensitive.</td></tr><tr><td><i>disable</i></td><td>Disable username case-sensitive.</td></tr></table>	Option	Description	<i>enable</i>	Enable username case-sensitive.	<i>disable</i>	Disable username case-sensitive.			
	Option	Description								
	<i>enable</i>	Enable username case-sensitive.								
<i>disable</i>	Disable username case-sensitive.									
group-override-attr-type	RADIUS attribute type to override user group information.	option	-							
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>filter-Id</i></td><td>Filter-Id</td></tr><tr><td><i>class</i></td><td>Class</td></tr></table>	Option	Description	<i>filter-Id</i>	Filter-Id	<i>class</i>	Class			
	Option	Description								
	<i>filter-Id</i>	Filter-Id								
<i>class</i>	Class									
class <name>	Class attribute name(s). Class name.	string	Maximum length: 79							
password-renewal	Enable/disable password renewal.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable password renewal.</td></tr><tr><td><i>disable</i></td><td>Disable password renewal.</td></tr></table>	Option	Description	<i>enable</i>	Enable password renewal.	<i>disable</i>	Disable password renewal.			
	Option	Description								
	<i>enable</i>	Enable password renewal.								
<i>disable</i>	Disable password renewal.									
require-message-authenticator	Require message authenticator in authentication response.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Make the validation of message authenticator mandatory in authentication response.</td></tr><tr><td><i>disable</i></td><td>Make the validation of message authenticator optional in authentication response.</td></tr></table>	Option	Description	<i>enable</i>	Make the validation of message authenticator mandatory in authentication response.	<i>disable</i>	Make the validation of message authenticator optional in authentication response.			
	Option	Description								
	<i>enable</i>	Make the validation of message authenticator mandatory in authentication response.								
<i>disable</i>	Make the validation of message authenticator optional in authentication response.									
password-encoding	Password encoding.	option	-	auto						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>auto</i></td><td>Use original password encoding.</td></tr><tr><td><i>ISO-8859-1</i></td><td>Use ISO-8859-1 password encoding.</td></tr></table>	Option	Description	<i>auto</i>	Use original password encoding.	<i>ISO-8859-1</i>	Use ISO-8859-1 password encoding.			
	Option	Description								
	<i>auto</i>	Use original password encoding.								
<i>ISO-8859-1</i>	Use ISO-8859-1 password encoding.									
mac-username-delimiter	MAC authentication username delimiter (default = hyphen).	option	-	hyphen						

Parameter	Description	Type	Size	Default										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>hyphen</td><td>Use hyphen as delimiter for MAC authentication username.</td></tr><tr><td>single-hyphen</td><td>Use single hyphen as delimiter for MAC authentication username.</td></tr><tr><td>colon</td><td>Use colon as delimiter for MAC authentication username.</td></tr><tr><td>none</td><td>No delimiter for MAC authentication username.</td></tr></table>	Option	Description	hyphen	Use hyphen as delimiter for MAC authentication username.	single-hyphen	Use single hyphen as delimiter for MAC authentication username.	colon	Use colon as delimiter for MAC authentication username.	none	No delimiter for MAC authentication username.			
	Option	Description												
	hyphen	Use hyphen as delimiter for MAC authentication username.												
	single-hyphen	Use single hyphen as delimiter for MAC authentication username.												
	colon	Use colon as delimiter for MAC authentication username.												
none	No delimiter for MAC authentication username.													
mac-password-delimiter	MAC authentication password delimiter (default = hyphen).	option	-	hyphen										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>hyphen</td><td>Use hyphen as delimiter for MAC authentication password.</td></tr><tr><td>single-hyphen</td><td>Use single hyphen as delimiter for MAC authentication password.</td></tr><tr><td>colon</td><td>Use colon as delimiter for MAC authentication password.</td></tr><tr><td>none</td><td>No delimiter for MAC authentication password.</td></tr></table>	Option	Description	hyphen	Use hyphen as delimiter for MAC authentication password.	single-hyphen	Use single hyphen as delimiter for MAC authentication password.	colon	Use colon as delimiter for MAC authentication password.	none	No delimiter for MAC authentication password.			
	Option	Description												
	hyphen	Use hyphen as delimiter for MAC authentication password.												
	single-hyphen	Use single hyphen as delimiter for MAC authentication password.												
	colon	Use colon as delimiter for MAC authentication password.												
none	No delimiter for MAC authentication password.													
mac-case	MAC authentication case (default = lowercase).	option	-	lowercase										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>uppercase</td><td>Use uppercase MAC.</td></tr><tr><td>lowercase</td><td>Use lowercase MAC.</td></tr></table>	Option	Description	uppercase	Use uppercase MAC.	lowercase	Use lowercase MAC.							
	Option	Description												
	uppercase	Use uppercase MAC.												
lowercase	Use lowercase MAC.													
acct-all-servers	Enable/disable sending of accounting messages to all configured servers (default = disable).	option	-	disable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Send accounting messages to all configured servers.</td></tr><tr><td>disable</td><td>Send accounting message only to servers that are confirmed to be reachable.</td></tr></table>	Option	Description	enable	Send accounting messages to all configured servers.	disable	Send accounting message only to servers that are confirmed to be reachable.							
	Option	Description												
	enable	Send accounting messages to all configured servers.												
disable	Send accounting message only to servers that are confirmed to be reachable.													
switch-controller-acct-fast-framedip-detect	Switch controller accounting message Framed-IP detection from DHCP snooping (seconds, default=2).	integer	Minimum value: 2 Maximum value: 600	2										
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>auto</td><td>Set outgoing interface automatically.</td></tr><tr><td>specify</td><td>Set outgoing interface manually.</td></tr></table>	Option	Description	auto	Set outgoing interface automatically.	specify	Set outgoing interface manually.							
	Option	Description												
	auto	Set outgoing interface automatically.												
specify	Set outgoing interface manually.													

Parameter	Description	Type	Size	Default																								
interface	Specify outgoing interface to reach server.	string	Maximum length: 15																									
switch-controller-service-type	RADIUS service type.	option	-																									
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>login</td><td>User should be connected to a host.</td></tr><tr><td>framed</td><td>User use Framed Protocol.</td></tr><tr><td>callback-login</td><td>User disconnected and called back.</td></tr><tr><td>callback-framed</td><td>User disconnected and called back, then a Framed Protocol.</td></tr><tr><td>outbound</td><td>User granted access to outgoing devices.</td></tr><tr><td>administrative</td><td>User granted access to the administrative unsigned interface.</td></tr><tr><td>nas-prompt</td><td>User provided a command prompt on the NAS.</td></tr><tr><td>authenticate-only</td><td>Authentication requested, and no auth info needs to be returned.</td></tr><tr><td>callback-nas-prompt</td><td>User disconnected and called back, then provided a command prompt.</td></tr><tr><td>call-check</td><td>Used by the NAS in an Access-Request packet, Access-Accept to answer the call.</td></tr><tr><td>callback-administrative</td><td>User disconnected and called back, granted access to the admin unsigned interface.</td></tr></table>	Option	Description	login	User should be connected to a host.	framed	User use Framed Protocol.	callback-login	User disconnected and called back.	callback-framed	User disconnected and called back, then a Framed Protocol.	outbound	User granted access to outgoing devices.	administrative	User granted access to the administrative unsigned interface.	nas-prompt	User provided a command prompt on the NAS.	authenticate-only	Authentication requested, and no auth info needs to be returned.	callback-nas-prompt	User disconnected and called back, then provided a command prompt.	call-check	Used by the NAS in an Access-Request packet, Access-Accept to answer the call.	callback-administrative	User disconnected and called back, granted access to the admin unsigned interface.			
Option	Description																											
login	User should be connected to a host.																											
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call-check	Used by the NAS in an Access-Request packet, Access-Accept to answer the call.																											
callback-administrative	User disconnected and called back, granted access to the admin unsigned interface.																											
transport-protocol	Transport protocol to be used (default = udp).	option	-	udp																								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>udp</td><td>UDP.</td></tr><tr><td>tcp</td><td>TCP.</td></tr><tr><td>tls</td><td>TLS over TCP.</td></tr></table>	Option	Description	udp	UDP.	tcp	TCP.	tls	TLS over TCP.																			
Option	Description																											
udp	UDP.																											
tcp	TCP.																											
tls	TLS over TCP.																											
tls-min-protocol-version	Minimum supported protocol version for TLS connections (default is to follow system global setting).	option	-	default																								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>default</td><td>Follow system global setting.</td></tr></table>	Option	Description	default	Follow system global setting.																							
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default	Follow system global setting.																											

Parameter	Description	Type	Size	Default												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>SSLv3</td><td>SSLv3.</td></tr><tr><td>TLSv1</td><td>TLSv1.</td></tr><tr><td>TLSv1-1</td><td>TLSv1.1.</td></tr><tr><td>TLSv1-2</td><td>TLSv1.2.</td></tr><tr><td>TLSv1-3</td><td>TLSv1.3.</td></tr></table>	Option	Description	SSLv3	SSLv3.	TLSv1	TLSv1.	TLSv1-1	TLSv1.1.	TLSv1-2	TLSv1.2.	TLSv1-3	TLSv1.3.			
	Option	Description														
	SSLv3	SSLv3.														
	TLSv1	TLSv1.														
	TLSv1-1	TLSv1.1.														
	TLSv1-2	TLSv1.2.														
TLSv1-3	TLSv1.3.															
ca-cert	CA of server to trust under TLS.	string	Maximum length: 79													
client-cert	Client certificate to use under TLS.	string	Maximum length: 35													
server-identity-check	Enable/disable RADIUS server identity check (verify server domain name/IP address against the server certificate).	option	-	enable												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable server identity check.</td></tr><tr><td>disable</td><td>Disable server identity check.</td></tr></table>	Option	Description	enable	Enable server identity check.	disable	Disable server identity check.									
	Option	Description														
	enable	Enable server identity check.														
disable	Disable server identity check.															
account-key-processing	Account key processing operation. The FortiGate will keep either the whole domain or strip the domain from the subject identity.	option	-	same												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>same</td><td>Same as subject identity field.</td></tr><tr><td>strip</td><td>Strip domain string from subject identity field.</td></tr></table>	Option	Description	same	Same as subject identity field.	strip	Strip domain string from subject identity field.									
	Option	Description														
	same	Same as subject identity field.														
strip	Strip domain string from subject identity field.															
account-key-cert-field	Define subject identity field in certificate for user access right checking.	option	-	othername												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>othername</td><td>Other name in SAN.</td></tr><tr><td>rfc822name</td><td>RFC822 email address in SAN.</td></tr><tr><td>dnsname</td><td>DNS name in SAN.</td></tr><tr><td>cn</td><td>CN in subject.</td></tr></table>	Option	Description	othername	Other name in SAN.	rfc822name	RFC822 email address in SAN.	dnsname	DNS name in SAN.	cn	CN in subject.					
	Option	Description														
	othername	Other name in SAN.														
	rfc822name	RFC822 email address in SAN.														
	dnsname	DNS name in SAN.														
cn	CN in subject.															
rsso	Enable/disable RADIUS based single sign on feature.	option	-	disable												

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable RADIUS based single sign on feature.		
	<i>disable</i>	Disable RADIUS based single sign on feature.		
rsso-radius-server-port	UDP port to listen on for RADIUS Start and Stop records.	integer	Minimum value: 0 Maximum value: 65535	1813
rsso-radius-response	Enable/disable sending RADIUS response packets after receiving Start and Stop records.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable sending RADIUS response packets.		
	<i>disable</i>	Disable sending RADIUS response packets.		
rsso-validate-request-secret	Enable/disable validating the RADIUS request shared secret in the Start or End record.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable validating RADIUS request shared secret.		
	<i>disable</i>	Disable validating RADIUS request shared secret.		
rsso-secret	RADIUS secret used by the RADIUS accounting server.	password	Not Specified	
rsso-endpoint-attribute	RADIUS attributes used to extract the user end point identifier from the RADIUS Start record.	option	-	Calling-Station-Id
	Option	Description		
	<i>User-Name</i>	Use this attribute.		
	<i>NAS-IP-Address</i>	Use this attribute.		
	<i>Framed-IP-Address</i>	Use this attribute.		
	<i>Framed-IP-Netmask</i>	Use this attribute.		
	<i>Filter-Id</i>	Use this attribute.		
	<i>Login-IP-Host</i>	Use this attribute.		
	<i>Reply-Message</i>	Use this attribute.		

Parameter	Description	Type	Size	Default																																
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>Callback-Number</td><td>Use this attribute.</td></tr><tr><td>Callback-Id</td><td>Use this attribute.</td></tr><tr><td>Framed-Route</td><td>Use this attribute.</td></tr><tr><td>Framed-IPX-Network</td><td>Use this attribute.</td></tr><tr><td>Class</td><td>Use this attribute.</td></tr><tr><td>Called-Station-Id</td><td>Use this attribute.</td></tr><tr><td>Calling-Station-Id</td><td>Use this attribute.</td></tr><tr><td>NAS-Identifier</td><td>Use this attribute.</td></tr><tr><td>Proxy-State</td><td>Use this attribute.</td></tr><tr><td>Login-LAT-Service</td><td>Use this attribute.</td></tr><tr><td>Login-LAT-Node</td><td>Use this attribute.</td></tr><tr><td>Login-LAT-Group</td><td>Use this attribute.</td></tr><tr><td>Framed-AppleTalk-Zone</td><td>Use this attribute.</td></tr><tr><td>Acct-Session-Id</td><td>Use this attribute.</td></tr><tr><td>Acct-Multi-Session-Id</td><td>Use this attribute.</td></tr></table>	Option	Description	Callback-Number	Use this attribute.	Callback-Id	Use this attribute.	Framed-Route	Use this attribute.	Framed-IPX-Network	Use this attribute.	Class	Use this attribute.	Called-Station-Id	Use this attribute.	Calling-Station-Id	Use this attribute.	NAS-Identifier	Use this attribute.	Proxy-State	Use this attribute.	Login-LAT-Service	Use this attribute.	Login-LAT-Node	Use this attribute.	Login-LAT-Group	Use this attribute.	Framed-AppleTalk-Zone	Use this attribute.	Acct-Session-Id	Use this attribute.	Acct-Multi-Session-Id	Use this attribute.			
	Option	Description																																		
	Callback-Number	Use this attribute.																																		
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	Login-LAT-Group	Use this attribute.																																		
	Framed-AppleTalk-Zone	Use this attribute.																																		
	Acct-Session-Id	Use this attribute.																																		
Acct-Multi-Session-Id	Use this attribute.																																			
rsso-endpoint-block-attribute	RADIUS attributes used to block a user.	option	-																																	
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>User-Name</td><td>Use this attribute.</td></tr><tr><td>NAS-IP-Address</td><td>Use this attribute.</td></tr><tr><td>Framed-IP-Address</td><td>Use this attribute.</td></tr><tr><td>Framed-IP-Netmask</td><td>Use this attribute.</td></tr><tr><td>Filter-Id</td><td>Use this attribute.</td></tr></table>	Option	Description	User-Name	Use this attribute.	NAS-IP-Address	Use this attribute.	Framed-IP-Address	Use this attribute.	Framed-IP-Netmask	Use this attribute.	Filter-Id	Use this attribute.																							
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	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>Login-IP-Host</i></td><td>Use this attribute.</td></tr><tr><td><i>Reply-Message</i></td><td>Use this attribute.</td></tr><tr><td><i>Callback-Number</i></td><td>Use this attribute.</td></tr><tr><td><i>Callback-Id</i></td><td>Use this attribute.</td></tr><tr><td><i>Framed-Route</i></td><td>Use this attribute.</td></tr><tr><td><i>Framed-IPX-Network</i></td><td>Use this attribute.</td></tr><tr><td><i>Class</i></td><td>Use this attribute.</td></tr><tr><td><i>Called-Station-Id</i></td><td>Use this attribute.</td></tr><tr><td><i>Calling-Station-Id</i></td><td>Use this attribute.</td></tr><tr><td><i>NAS-Identifier</i></td><td>Use this attribute.</td></tr><tr><td><i>Proxy-State</i></td><td>Use this attribute.</td></tr><tr><td><i>Login-LAT-Service</i></td><td>Use this attribute.</td></tr><tr><td><i>Login-LAT-Node</i></td><td>Use this attribute.</td></tr><tr><td><i>Login-LAT-Group</i></td><td>Use this attribute.</td></tr><tr><td><i>Framed-AppleTalk-Zone</i></td><td>Use this attribute.</td></tr><tr><td><i>Acct-Session-Id</i></td><td>Use this attribute.</td></tr><tr><td><i>Acct-Multi-Session-Id</i></td><td>Use this attribute.</td></tr></table>	Option	Description	<i>Login-IP-Host</i>	Use this attribute.	<i>Reply-Message</i>	Use this attribute.	<i>Callback-Number</i>	Use this attribute.	<i>Callback-Id</i>	Use this attribute.	<i>Framed-Route</i>	Use this attribute.	<i>Framed-IPX-Network</i>	Use this attribute.	<i>Class</i>	Use this attribute.	<i>Called-Station-Id</i>	Use this attribute.	<i>Calling-Station-Id</i>	Use this attribute.	<i>NAS-Identifier</i>	Use this attribute.	<i>Proxy-State</i>	Use this attribute.	<i>Login-LAT-Service</i>	Use this attribute.	<i>Login-LAT-Node</i>	Use this attribute.	<i>Login-LAT-Group</i>	Use this attribute.	<i>Framed-AppleTalk-Zone</i>	Use this attribute.	<i>Acct-Session-Id</i>	Use this attribute.	<i>Acct-Multi-Session-Id</i>	Use this attribute.			
	Option	Description																																						
	<i>Login-IP-Host</i>	Use this attribute.																																						
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	<i>Acct-Session-Id</i>	Use this attribute.																																						
<i>Acct-Multi-Session-Id</i>	Use this attribute.																																							
sso-attribute	RADIUS attribute that contains the profile group name to be extracted from the RADIUS Start record.	option	-	Class																																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>User-Name</i></td><td>Use this attribute.</td></tr><tr><td><i>NAS-IP-Address</i></td><td>Use this attribute.</td></tr><tr><td><i>Framed-IP-Address</i></td><td>Use this attribute.</td></tr></table>	Option	Description	<i>User-Name</i>	Use this attribute.	<i>NAS-IP-Address</i>	Use this attribute.	<i>Framed-IP-Address</i>	Use this attribute.																															
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<i>Framed-IP-Address</i>	Use this attribute.																																							

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>Framed-IP-Netmask</i>	Use this attribute.		
	<i>Filter-Id</i>	Use this attribute.		
	<i>Login-IP-Host</i>	Use this attribute.		
	<i>Reply-Message</i>	Use this attribute.		
	<i>Callback-Number</i>	Use this attribute.		
	<i>Callback-Id</i>	Use this attribute.		
	<i>Framed-Route</i>	Use this attribute.		
	<i>Framed-IPX-Network</i>	Use this attribute.		
	<i>Class</i>	Use this attribute.		
	<i>Called-Station-Id</i>	Use this attribute.		
	<i>Calling-Station-Id</i>	Use this attribute.		
	<i>NAS-Identifier</i>	Use this attribute.		
	<i>Proxy-State</i>	Use this attribute.		
	<i>Login-LAT-Service</i>	Use this attribute.		
	<i>Login-LAT-Node</i>	Use this attribute.		
	<i>Login-LAT-Group</i>	Use this attribute.		
	<i>Framed-AppleTalk-Zone</i>	Use this attribute.		
	<i>Acct-Session-Id</i>	Use this attribute.		
	<i>Acct-Multi-Session-Id</i>	Use this attribute.		
sso-attribute-key	Key prefix for SSO group value in the SSO attribute.	string	Maximum length: 35	
sso-attribute-value-override	Enable/disable override old attribute value with new value for the same endpoint.	option	-	enable

Parameter	Description	Type	Size	Default																
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable override old attribute value with new value for the same endpoint.</td></tr><tr><td><i>disable</i></td><td>Disable override old attribute value with new value for the same endpoint.</td></tr></table>	Option	Description	<i>enable</i>	Enable override old attribute value with new value for the same endpoint.	<i>disable</i>	Disable override old attribute value with new value for the same endpoint.													
	Option	Description																		
	<i>enable</i>	Enable override old attribute value with new value for the same endpoint.																		
<i>disable</i>	Disable override old attribute value with new value for the same endpoint.																			
rsso-context-timeout	Time in seconds before the logged out user is removed from the "user context list" of logged on users.	integer	Minimum value: 0 Maximum value: 4294967295	28800																
rsso-log-period	Time interval in seconds that group event log messages will be generated for dynamic profile events.	integer	Minimum value: 0 Maximum value: 4294967295	0																
rsso-log-flags	Events to log.	option	-	protocol-error profile-missing accounting-stop-missed accounting-event endpoint-block radiusd-other																
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>protocol-error</i></td><td>Enable this log type.</td></tr><tr><td><i>profile-missing</i></td><td>Enable this log type.</td></tr><tr><td><i>accounting-stop-missed</i></td><td>Enable this log type.</td></tr><tr><td><i>accounting-event</i></td><td>Enable this log type.</td></tr><tr><td><i>endpoint-block</i></td><td>Enable this log type.</td></tr><tr><td><i>radiusd-other</i></td><td>Enable this log type.</td></tr><tr><td><i>none</i></td><td>Disable all logging.</td></tr></table>	Option	Description	<i>protocol-error</i>	Enable this log type.	<i>profile-missing</i>	Enable this log type.	<i>accounting-stop-missed</i>	Enable this log type.	<i>accounting-event</i>	Enable this log type.	<i>endpoint-block</i>	Enable this log type.	<i>radiusd-other</i>	Enable this log type.	<i>none</i>	Disable all logging.			
	Option	Description																		
	<i>protocol-error</i>	Enable this log type.																		
	<i>profile-missing</i>	Enable this log type.																		
	<i>accounting-stop-missed</i>	Enable this log type.																		
	<i>accounting-event</i>	Enable this log type.																		
	<i>endpoint-block</i>	Enable this log type.																		
	<i>radiusd-other</i>	Enable this log type.																		
<i>none</i>	Disable all logging.																			
rsso-flush-ip-session	Enable/disable flushing user IP sessions on RADIUS accounting Stop messages.	option	-	disable																

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable flush user IP sessions on RADIUS accounting stop.		
	<i>disable</i>	Disable flush user IP sessions on RADIUS accounting stop.		
rsso-ep-one-ip-only	Enable/disable the replacement of old IP addresses with new ones for the same endpoint on RADIUS accounting Start messages.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable replacement of old IP address with new IP address for the same endpoint on RADIUS accounting start.		
	<i>disable</i>	Disable replacement of old IP address with new IP address for the same endpoint on RADIUS accounting start.		
delimiter	Configure delimiter to be used for separating profile group names in the SSO attribute (default = plus character "+").	option	-	plus
	Option	Description		
	<i>plus</i>	Plus character "+".		
	<i>comma</i>	Comma character ",".		

config accounting-server

Parameter	Description	Type	Size	Default
id	ID (0 - 4294967295).	integer	Minimum value: 0 Maximum value: 4294967295	0
status	Status.	option	-	disable
	Option	Description		
	enable	Log to remote syslog server.		
	disable	Do not log to remote syslog server.		
server	Server CN domain name or IP address.	string	Maximum length: 63	
secret	Secret key.	password	Not Specified	

Parameter	Description	Type	Size	Default
port	RADIUS accounting port number.	integer	Minimum value: 0 Maximum value: 65535	0
source-ip	Source IP address for communications to the RADIUS server.	string	Maximum length: 63	
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto
	Option	Description		
	auto	Set outgoing interface automatically.		
	specify	Set outgoing interface manually.		
interface	Specify outgoing interface to reach server.	string	Maximum length: 15	

config user saml

SAML server entry configuration.

```

config user saml
  Description: SAML server entry configuration.
  edit <name>
    set cert {string}
    set entity-id {string}
    set single-sign-on-url {string}
    set single-logout-url {string}
    set idp-entity-id {string}
    set idp-single-sign-on-url {string}
    set idp-single-logout-url {string}
    set idp-cert {string}
    set user-name {string}
    set group-name {string}
    set digest-method [sha1|sha256]
    set limit-relaystate [enable|disable]
    set clock-tolerance {integer}
    set adfs-claim [enable|disable]
    set user-claim-type [email|given-name|...]
    set group-claim-type [email|given-name|...]
    set reauth [enable|disable]
  next
end

```

config user saml

Parameter	Description	Type	Size	Default						
name	SAML server entry name.	string	Maximum length: 35							
cert	Certificate to sign SAML messages.	string	Maximum length: 35							
entity-id	SP entity ID.	string	Maximum length: 255							
single-sign-on-url	SP single sign-on URL.	string	Maximum length: 255							
single-logout-url	SP single logout URL.	string	Maximum length: 255							
idp-entity-id	IDP entity ID.	string	Maximum length: 255							
idp-single-sign-on-url	IDP single sign-on URL.	string	Maximum length: 255							
idp-single-logout-url	IDP single logout url.	string	Maximum length: 255							
idp-cert	IDP Certificate name.	string	Maximum length: 35							
user-name	User name in assertion statement.	string	Maximum length: 255							
group-name	Group name in assertion statement.	string	Maximum length: 255							
digest-method	Digest method algorithm (default = sha1).	option	-	sha1						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>sha1</td><td>Digest Method Algorithm is SHA1.</td></tr><tr><td>sha256</td><td>Digest Method Algorithm is SHA256.</td></tr></table>				Option	Description	sha1	Digest Method Algorithm is SHA1.	sha256	Digest Method Algorithm is SHA256.
Option	Description									
sha1	Digest Method Algorithm is SHA1.									
sha256	Digest Method Algorithm is SHA256.									
limit-relaystate	Enable/disable limiting of relay-state parameter when it exceeds SAML 2.0 specification limits (80 bytes).	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable limiting of relay-state parameter when it exceeds SAML 2.0 specification limits (80 bytes).</td></tr><tr><td>disable</td><td>Disable limiting of relay-state parameter when it exceeds SAML 2.0 specification limits (80 bytes).</td></tr></table>				Option	Description	enable	Enable limiting of relay-state parameter when it exceeds SAML 2.0 specification limits (80 bytes).	disable	Disable limiting of relay-state parameter when it exceeds SAML 2.0 specification limits (80 bytes).
Option	Description									
enable	Enable limiting of relay-state parameter when it exceeds SAML 2.0 specification limits (80 bytes).									
disable	Disable limiting of relay-state parameter when it exceeds SAML 2.0 specification limits (80 bytes).									

Parameter	Description	Type	Size	Default
clock-tolerance	Clock skew tolerance in seconds (0 - 300, default = 15, 0 = no tolerance).	integer	Minimum value: 0 Maximum value: 300	15
adfs-claim	Enable/disable ADFS Claim for user/group attribute in assertion statement (default = disable).	option	-	disable
	Option	Description		
	<i>enable</i>	Enable ADFS Claim for user/group attribute in assertion statement.		
	<i>disable</i>	Disable ADFS Claim for user/group attribute in assertion statement.		
user-claim-type	User name claim in assertion statement.	option	-	upn
	Option	Description		
	<i>email</i>	E-mail address of the user.		
	<i>given-name</i>	Given name of the user.		
	<i>name</i>	Unique name of the user.		
	<i>upn</i>	User principal name (UPN) of the user.		
	<i>common-name</i>	Common name of the user.		
	<i>email-adfs-1x</i>	E-mail address of the user when interoperating with AD FS 1.1 or ADFS 1.0.		
	<i>group</i>	Group that the user is a member of.		
	<i>upn-adfs-1x</i>	User principal name (UPN) of the user.		
	<i>role</i>	Role that the user has.		
	<i>sur-name</i>	Surname of the user		
	<i>ppid</i>	Private identifier of the user.		
	<i>name-identifier</i>	SAML name identifier of the user.		
	<i>authentication-method</i>	Method used to authenticate the user.		
	<i>deny-only-group-sid</i>	Deny-only group SID of the user.		
	<i>deny-only-primary-sid</i>	Deny-only primary SID of the user.		
	<i>deny-only-primary-group-sid</i>	Deny-only primary group SID of the user.		

Parameter	Description	Type	Size	Default

Option	Description
<i>group-sid</i>	Group SID of the user.
<i>primary-group-sid</i>	Primary group SID of the user.
<i>primary-sid</i>	Primary SID of the user.
<i>windows-account-name</i>	Domain account name of the user in the form of <domain>\<user>.

group-claim-type	Group claim in assertion statement.	option	-	group

Option	Description
<i>email</i>	E-mail address of the user.
<i>given-name</i>	Given name of the user.
<i>name</i>	Unique name of the user.
<i>upn</i>	User principal name (UPN) of the user.
<i>common-name</i>	Common name of the user.
<i>email-adfs-1x</i>	E-mail address of the user when interoperating with AD FS 1.1 or ADFS 1.0.
<i>group</i>	Group that the user is a member of.
<i>upn-adfs-1x</i>	User principal name (UPN) of the user.
<i>role</i>	Role that the user has.
<i>sur-name</i>	Surname of the user
<i>ppid</i>	Private identifier of the user.
<i>name-identifier</i>	SAML name identifier of the user.
<i>authentication-method</i>	Method used to authenticate the user.
<i>deny-only-group-sid</i>	Deny-only group SID of the user.
<i>deny-only-primary-sid</i>	Deny-only primary SID of the user.
<i>deny-only-primary-group-sid</i>	Deny-only primary group SID of the user.
<i>group-sid</i>	Group SID of the user.

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>primary-group-sid</i>	Primary group SID of the user.		
	<i>primary-sid</i>	Primary SID of the user.		
	<i>windows-account-name</i>	Domain account name of the user in the form of <domain>\<user>.		
reauth	Enable/disable signalling of IDP to force user re-authentication (default = disable).	option	-	disable
	Option	Description		
	<i>enable</i>	Enable signalling of IDP to force user re-authentication.		
	<i>disable</i>	Disable signalling of IDP to force user re-authentication.		

config user security-exempt-list

Configure security exemption list.

```

config user security-exempt-list
    Description: Configure security exemption list.
    edit <name>
        set description {string}
        config rule
            Description: Configure rules for exempting users from captive portal
authentication.
            edit <id>
                set srcaddr <name1>, <name2>, ...
                set dstaddr <name1>, <name2>, ...
                set service <name1>, <name2>, ...
            next
        next
    end
next
end

```

config user security-exempt-list

Parameter	Description	Type	Size	Default
name	Name of the exempt list.	string	Maximum length: 35	
description	Description.	string	Maximum length: 127	

config rule

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
srcaddr <name>	Source addresses or address groups. Address or group name.	string	Maximum length: 79	
dstaddr <name>	Destination addresses or address groups. Address or group name.	string	Maximum length: 79	
service <name>	Destination services. Service name.	string	Maximum length: 79	

config user setting

Configure user authentication setting.

```
config user setting
    Description: Configure user authentication setting.
    set auth-type {option1}, {option2}, ...
    set auth-cert {string}
    set auth-ca-cert {string}
    set auth-secure-http [enable|disable]
    set auth-http-basic [enable|disable]
    set auth-ssl-allow-renegotiation [enable|disable]
    set auth-src-mac [enable|disable]
    set auth-on-demand [always|implicitly]
    set auth-portal-timeout {integer}
    set radius-ses-timeout-act [hard-timeout|ignore-timeout]
    set auth-blackout-time {integer}
    set auth-invalid-max {integer}
    set auth-lockout-threshold {integer}
    set auth-lockout-duration {integer}
    set per-policy-disclaimer [enable|disable]
    config auth-ports
        Description: Set up non-standard ports for authentication with HTTP, HTTPS, FTP, and
        TELNET.
        edit <id>
            set type [http|https|...]
            set port {integer}
        next
    end
    set auth-ssl-min-proto-version [default|SSLv3|...]
    set auth-ssl-max-proto-version [sslv3|tlsv1|...]
    set auth-ssl-sigalgs [no-rsa-pss|all]
    set default-user-password-policy {string}
end
```

config user setting

Parameter	Description	Type	Size	Default
auth-type	Supported firewall policy authentication protocols/methods.	option	-	http https ftp telnet
	Option	Description		
	<i>http</i>	Allow HTTP authentication.		
	<i>https</i>	Allow HTTPS authentication.		
	<i>ftp</i>	Allow FTP authentication.		
	<i>telnet</i>	Allow TELNET authentication.		
auth-cert	HTTPS server certificate for policy authentication.	string	Maximum length: 35	
auth-ca-cert	HTTPS CA certificate for policy authentication.	string	Maximum length: 35	
auth-secure-http	Enable/disable redirecting HTTP user authentication to more secure HTTPS.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
auth-http-basic	Enable/disable use of HTTP basic authentication for identity-based firewall policies.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
auth-ssl-allow-renegotiation	Allow/forbid SSL re-negotiation for HTTPS authentication.	option	-	disable
	Option	Description		
	<i>enable</i>	Allow SSL re-negotiation.		
	<i>disable</i>	Forbid SSL re-negotiation.		
auth-src-mac	Enable/disable source MAC for user identity.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable source MAC for user identity.		

Parameter	Description	Type	Size	Default						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable source MAC for user identity.</td></tr></table>				Option	Description	<i>disable</i>	Disable source MAC for user identity.		
	Option	Description								
<i>disable</i>	Disable source MAC for user identity.									
auth-on-demand	Always/implicitly trigger firewall authentication on demand.	option	-	implicitly						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>always</i></td><td>Always trigger firewall authentication on demand.</td></tr><tr><td><i>implicitly</i></td><td>Implicitly trigger firewall authentication on demand.</td></tr></table>				Option	Description	<i>always</i>	Always trigger firewall authentication on demand.	<i>implicitly</i>	Implicitly trigger firewall authentication on demand.
	Option	Description								
	<i>always</i>	Always trigger firewall authentication on demand.								
<i>implicitly</i>	Implicitly trigger firewall authentication on demand.									
auth-portal-timeout	Time in minutes before captive portal user have to re-authenticate (1 - 30 min, default 3 min).	integer	Minimum value: 1 Maximum value: 30	3						
radius-ses-timeout-act	Set the RADIUS session timeout to a hard timeout or to ignore RADIUS server session timeouts.	option	-	hard-timeout						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>hard-timeout</i></td><td>Use session timeout from RADIUS as hard-timeout.</td></tr><tr><td><i>ignore-timeout</i></td><td>Ignore session timeout from RADIUS.</td></tr></table>				Option	Description	<i>hard-timeout</i>	Use session timeout from RADIUS as hard-timeout.	<i>ignore-timeout</i>	Ignore session timeout from RADIUS.
	Option	Description								
	<i>hard-timeout</i>	Use session timeout from RADIUS as hard-timeout.								
<i>ignore-timeout</i>	Ignore session timeout from RADIUS.									
auth-blackout-time	Time in seconds an IP address is denied access after failing to authenticate five times within one minute.	integer	Minimum value: 0 Maximum value: 3600	0						
auth-invalid-max	Maximum number of failed authentication attempts before the user is blocked.	integer	Minimum value: 1 Maximum value: 100	5						
auth-lockout-threshold	Maximum number of failed login attempts before login lockout is triggered.	integer	Minimum value: 1 Maximum value: 10	3						
auth-lockout-duration	Lockout period in seconds after too many login failures.	integer	Minimum value: 0 Maximum value: 4294967295	0						
per-policy-disclaimer	Enable/disable per policy disclaimer.	option	-	disable						

Parameter	Description	Type	Size	Default														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable per policy disclaimer.</td></tr><tr><td><i>disable</i></td><td>Disable per policy disclaimer.</td></tr></table>	Option	Description	<i>enable</i>	Enable per policy disclaimer.	<i>disable</i>	Disable per policy disclaimer.											
	Option	Description																
	<i>enable</i>	Enable per policy disclaimer.																
<i>disable</i>	Disable per policy disclaimer.																	
auth-ssl-min-proto-version	Minimum supported protocol version for SSL/TLS connections (default is to follow system global setting).	option	-	default														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>default</i></td><td>Follow system global setting.</td></tr><tr><td><i>SSLv3</i></td><td>SSLv3.</td></tr><tr><td><i>TLSv1</i></td><td>TLSv1.</td></tr><tr><td><i>TLSv1-1</i></td><td>TLSv1.1.</td></tr><tr><td><i>TLSv1-2</i></td><td>TLSv1.2.</td></tr><tr><td><i>TLSv1-3</i></td><td>TLSv1.3.</td></tr></table>	Option	Description	<i>default</i>	Follow system global setting.	<i>SSLv3</i>	SSLv3.	<i>TLSv1</i>	TLSv1.	<i>TLSv1-1</i>	TLSv1.1.	<i>TLSv1-2</i>	TLSv1.2.	<i>TLSv1-3</i>	TLSv1.3.			
	Option	Description																
	<i>default</i>	Follow system global setting.																
	<i>SSLv3</i>	SSLv3.																
	<i>TLSv1</i>	TLSv1.																
	<i>TLSv1-1</i>	TLSv1.1.																
	<i>TLSv1-2</i>	TLSv1.2.																
<i>TLSv1-3</i>	TLSv1.3.																	
auth-ssl-max-proto-version	Maximum supported protocol version for SSL/TLS connections (default is no limit).	option	-															
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>sslsv3</i></td><td>SSLv3.</td></tr><tr><td><i>tlsv1</i></td><td>TLSv1.</td></tr><tr><td><i>tlsv1-1</i></td><td>TLSv1.1.</td></tr><tr><td><i>tlsv1-2</i></td><td>TLSv1.2.</td></tr><tr><td><i>tlsv1-3</i></td><td>TLSv1.3.</td></tr></table>	Option	Description	<i>sslsv3</i>	SSLv3.	<i>tlsv1</i>	TLSv1.	<i>tlsv1-1</i>	TLSv1.1.	<i>tlsv1-2</i>	TLSv1.2.	<i>tlsv1-3</i>	TLSv1.3.					
	Option	Description																
	<i>sslsv3</i>	SSLv3.																
	<i>tlsv1</i>	TLSv1.																
	<i>tlsv1-1</i>	TLSv1.1.																
	<i>tlsv1-2</i>	TLSv1.2.																
<i>tlsv1-3</i>	TLSv1.3.																	
auth-ssl-sigalgs	Set signature algorithms related to HTTPS authentication (affects TLS version <= 1.2 only, default is to enable all).	option	-	all														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>no-rsa-pss</i></td><td>Disable RSA-PSS signature algorithms for HTTPS authentication.</td></tr><tr><td><i>all</i></td><td>Enable all supported signature algorithms for HTTPS authentication.</td></tr></table>	Option	Description	<i>no-rsa-pss</i>	Disable RSA-PSS signature algorithms for HTTPS authentication.	<i>all</i>	Enable all supported signature algorithms for HTTPS authentication.											
	Option	Description																
	<i>no-rsa-pss</i>	Disable RSA-PSS signature algorithms for HTTPS authentication.																
<i>all</i>	Enable all supported signature algorithms for HTTPS authentication.																	
default-user-password-policy	Default password policy to apply to all local users unless otherwise specified, as defined in config user password-policy.	string	Maximum length: 35															

config auth-ports

Parameter	Description	Type	Size	Default										
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0										
type	Service type.	option	-	http										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>http</td><td>HTTP service.</td></tr><tr><td>https</td><td>HTTPS service.</td></tr><tr><td>ftp</td><td>FTP service.</td></tr><tr><td>telnet</td><td>TELNET service.</td></tr></table>				Option	Description	http	HTTP service.	https	HTTPS service.	ftp	FTP service.	telnet	TELNET service.
	Option	Description												
	http	HTTP service.												
	https	HTTPS service.												
	ftp	FTP service.												
telnet	TELNET service.													
port	Non-standard port for firewall user authentication.	integer	Minimum value: 1 Maximum value: 65535	1024										

config user tacacs+

Configure TACACS+ server entries.

```
config user tacacs+
  Description: Configure TACACS+ server entries.
  edit <name>
    set server {string}
    set secondary-server {string}
    set tertiary-server {string}
    set port {integer}
    set key {password}
    set secondary-key {password}
    set tertiary-key {password}
    set status-ttl {integer}
    set authen-type [mschap|chap|...]
    set authorization [enable|disable]
    set source-ip {string}
    set interface-select-method [auto|specify]
    set interface {string}
  next
end
```

config user tacacs+

Parameter	Description	Type	Size	Default												
name	TACACS+ server entry name.	string	Maximum length: 35													
server	Primary TACACS+ server CN domain name or IP address.	string	Maximum length: 63													
secondary-server	Secondary TACACS+ server CN domain name or IP address.	string	Maximum length: 63													
tertiary-server	Tertiary TACACS+ server CN domain name or IP address.	string	Maximum length: 63													
port	Port number of the TACACS+ server.	integer	Minimum value: 1 Maximum value: 65535	49												
key	Key to access the primary server.	password	Not Specified													
secondary-key	Key to access the secondary server.	password	Not Specified													
tertiary-key	Key to access the tertiary server.	password	Not Specified													
status-ttl	Time for which server reachability is cached so that when a server is unreachable, it will not be retried for at least this period of time (0 = cache disabled, default = 300).	integer	Minimum value: 0 Maximum value: 600	300												
authen-type	Allowed authentication protocols/methods.	option	-	auto												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>mschap</i></td><td>MSCHAP.</td></tr><tr><td><i>chap</i></td><td>CHAP.</td></tr><tr><td><i>pap</i></td><td>PAP.</td></tr><tr><td><i>ascii</i></td><td>ASCII.</td></tr><tr><td><i>auto</i></td><td>Use PAP, MSCHAP, and CHAP (in that order).</td></tr></table>				Option	Description	<i>mschap</i>	MSCHAP.	<i>chap</i>	CHAP.	<i>pap</i>	PAP.	<i>ascii</i>	ASCII.	<i>auto</i>	Use PAP, MSCHAP, and CHAP (in that order).
Option	Description															
<i>mschap</i>	MSCHAP.															
<i>chap</i>	CHAP.															
<i>pap</i>	PAP.															
<i>ascii</i>	ASCII.															
<i>auto</i>	Use PAP, MSCHAP, and CHAP (in that order).															
authorization	Enable/disable TACACS+ authorization.	option	-	disable												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable TACACS+ authorization.</td></tr></table>				Option	Description	<i>enable</i>	Enable TACACS+ authorization.								
Option	Description															
<i>enable</i>	Enable TACACS+ authorization.															

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable TACACS+ authorization.		
source-ip	Source IP address for communications to TACACS+ server.	string	Maximum length: 63	
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto
	Option	Description		
	<i>auto</i>	Set outgoing interface automatically.		
	<i>specify</i>	Set outgoing interface manually.		
interface	Specify outgoing interface to reach server.	string	Maximum length: 15	

videofilter

This section includes syntax for the following commands:

- [config videofilter keyword on page 1165](#)
- [config videofilter profile on page 1166](#)
- [config videofilter youtube-key on page 1169](#)

config videofilter keyword

Configure video filter keywords.

```
config videofilter keyword
  Description: Configure video filter keywords.
  edit <id>
    set name {string}
    set comment {var-string}
    set match [or|and]
    config word
      Description: List of keywords.
      edit <name>
        set comment {var-string}
        set pattern-type [wildcard|regex]
        set status [enable|disable]
      next
    end
  next
end
```

config videofilter keyword

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
name	Name.	string	Maximum length: 35	
comment	Comment.	var-string	Maximum length: 255	
match	Keyword matching logic.	option	-	or

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>or</i>	Match any keyword.		
	<i>and</i>	Match all keywords.		

config word

Parameter	Description	Type	Size	Default
name	Name.	string	Maximum length: 79	
comment	Comment.	var-string	Maximum length: 255	
pattern-type	Pattern type.	option	-	wildcard
	Option	Description		
	<i>wildcard</i>	Wildcard pattern.		
	<i>regex</i>	Perl regular expression.		
status	Enable(consider)/disable(ignore) this keyword.	option	-	enable
	Option	Description		
	<i>enable</i>	Consider this keyword.		
	<i>disable</i>	Ignore this keyword.		

config videofilter profile

Configure VideoFilter profile.

```
config videofilter profile
  Description: Configure VideoFilter profile.
  edit <name>
    set comment {var-string}
    config filters
      Description: YouTube filter entries.
      edit <id>
        set comment {var-string}
        set type [category|channel|...]
        set keyword {integer}
        set category {string}
        set channel {string}
        set action [allow|monitor|...]
        set log [enable|disable]
      next
    next
  next
```

```

        end
        set youtube [enable|disable]
        set vimeo [enable|disable]
        set dailymotion [enable|disable]
        set replacemsg-group {string}
    next
end

```

config videofilter profile

Parameter	Description	Type	Size	Default
name	Name.	string	Maximum length: 35	
comment	Comment.	var-string	Maximum length: 255	
youtube	Enable/disable YouTube video source.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable YouTube source.		
	<i>disable</i>	Disable YouTube source.		
vimeo	Enable/disable Vimeo video source.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable Vimeo source.		
	<i>disable</i>	Disable Vimeo source.		
dailymotion	Enable/disable Dailymotion video source.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable Dailymotion source.		
	<i>disable</i>	Disable Dailymotion source.		
replacemsg-group	Replacement message group.	string	Maximum length: 35	

config filters

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
comment	Comment.	var-string	Maximum length: 255	
type	Filter type.	option	-	category
	OptionDescription			
	category	Filter videos by FortiGuard category.		
	channel	Filter videos by channel ID.		
	title	Filter videos by title.		
	description	Filter videos by description.		
keyword	Video filter keyword ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
category	FortiGuard category ID.	string	Maximum length: 7	
channel	Channel ID.	string	Maximum length: 255	
action	Video filter action.	option	-	monitor
	OptionDescription			
	allow	Allow videos to be accessed.		
	monitor	Monitor videos.		
	block	Block videos.		
log	Enable/disable logging.	option	-	enable
	OptionDescription			
	enable	Enable logging.		
	disable	Disable logging.		

config videofilter youtube-key

Configure YouTube API keys.

```
config videofilter youtube-key
    Description: Configure YouTube API keys.
    edit <id>
        set key {string}
    next
end
```

config videofilter youtube-key

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
key	Key.	string	Maximum length: 47	

virtual-patch

This section includes syntax for the following commands:

- [config virtual-patch profile on page 1170](#)

config virtual-patch profile

Configure virtual-patch profile.

```
config virtual-patch profile
  Description: Configure virtual-patch profile.
  edit <name>
    set comment {var-string}
    set severity {option1}, {option2}, ...
    set action [pass|block]
    set log [enable|disable]
    config exemption
      Description: Exempt devices or rules.
      edit <id>
        set status [enable|disable]
        set rule <id1>, <id2>, ...
        set device <mac1>, <mac2>, ...
      next
    end
  next
end
```

config virtual-patch profile

Parameter	Description	Type	Size	Default
name	Profile name.	string	Maximum length: 35	
comment	Comment.	var-string	Maximum length: 255	
severity	Relative severity of the signature (low, medium, high, critical).	option	-	low medium high critical
		Option	Description	
		<i>low</i>	low	
		<i>medium</i>	medium	

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>high</i>	high		
	<i>critical</i>	critical		
action	Action (pass/block).	option	-	block
	Option	Description		
	<i>pass</i>	Allows session that match the profile.		
	<i>block</i>	Blocks sessions that match the profile.		
log	Enable/disable logging of detection.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable logging.		
	<i>disable</i>	Disable logging.		

config exemption

Parameter	Description	Type	Size	Default
id	IDs.	integer	Minimum value: 0 Maximum value: 4294967295	0
status	Enable/disable exemption.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable exemption.		
	<i>disable</i>	Disable exemption.		
rule <id>	Patch signature rule IDs. Rule IDs.	integer	Minimum value: 0 Maximum value: 4294967295	
device <mac>	Device MAC addresses. Device MAC address.	mac-address	Not Specified	

vpn

This section includes syntax for the following commands:

- [config vpn certificate ca on page 1172](#)
- [config vpn certificate crl on page 1174](#)
- [config vpn certificate hsm-local on page 1175](#)
- [config vpn certificate local on page 1179](#)
- [config vpn certificate ocsf-server on page 1184](#)
- [config vpn certificate remote on page 1184](#)
- [config vpn certificate setting on page 1185](#)
- [config vpn ipsec phase1-interface on page 1191](#)
- [config vpn ipsec phase2-interface on page 1205](#)
- [config vpn qkd on page 1213](#)

config vpn certificate ca

CA certificate.

```
config vpn certificate ca
  Description: CA certificate.
  edit <name>
    set ca {user}
    set range [global|vdom]
    set source [factory|user|...]
    set ssl-inspection-trusted [enable|disable]
    set scep-url {string}
    set est-url {string}
    set auto-update-days {integer}
    set auto-update-days-warning {integer}
    set source-ip {ipv4-address}
    set ca-identifier {string}
    set obsolete [disable|enable]
    set fabric-ca [disable|enable]
  next
end
```

config vpn certificate ca

Parameter	Description	Type	Size	Default
name	Name.	string	Maximum length: 79	

Parameter	Description	Type	Size	Default								
ca	CA certificate as a PEM file.	user	Not Specified									
range	Either global or VDOM IP address range for the CA certificate.	option	-	vdom								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>global</td><td>Global range.</td></tr><tr><td>vdom</td><td>VDOM IP address range.</td></tr></table>				Option	Description	global	Global range.	vdom	VDOM IP address range.		
	Option	Description										
	global	Global range.										
	vdom	VDOM IP address range.										
source	CA certificate source type.	option	-	user								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>factory</td><td>Factory installed certificate.</td></tr><tr><td>user</td><td>User generated certificate.</td></tr><tr><td>bundle</td><td>Bundle file certificate.</td></tr></table>				Option	Description	factory	Factory installed certificate.	user	User generated certificate.	bundle	Bundle file certificate.
	Option	Description										
	factory	Factory installed certificate.										
	user	User generated certificate.										
bundle	Bundle file certificate.											
ssl-inspection-trusted	Enable/disable this CA as a trusted CA for SSL inspection.	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Trusted CA for SSL inspection.</td></tr><tr><td>disable</td><td>Untrusted CA for SSL inspection.</td></tr></table>				Option	Description	enable	Trusted CA for SSL inspection.	disable	Untrusted CA for SSL inspection.		
	Option	Description										
	enable	Trusted CA for SSL inspection.										
disable	Untrusted CA for SSL inspection.											
scep-url	URL of the SCEP server.	string	Maximum length: 255									
est-url	URL of the EST server.	string	Maximum length: 255									
auto-update-days	Number of days to wait before requesting an updated CA certificate (0 - 4294967295, 0 = disabled).	integer	Minimum value: 0 Maximum value: 4294967295	0								
auto-update-days-warning	Number of days before an expiry-warning message is generated (0 - 4294967295, 0 = disabled).	integer	Minimum value: 0 Maximum value: 4294967295	0								
source-ip	Source IP address for communications to the SCEP server.	ipv4-address	Not Specified	0.0.0.0								

Parameter	Description	Type	Size	Default
ca-identifier	CA identifier of the SCEP server.	string	Maximum length: 255	
obsolete	Enable/disable this CA as obsoleted.	option	-	disable
	Option		Description	
	<i>disable</i>	Alive.		
	<i>enable</i>	Obsolete.		
fabric-ca	Enable/disable synchronization of CA across Security Fabric.	option	-	disable
	Option		Description	
	<i>disable</i>	Disable synchronization of CA across Security Fabric.		
	<i>enable</i>	Enable synchronization of CA across Security Fabric.		

config vpn certificate crl

Certificate Revocation List as a PEM file.

```

config vpn certificate crl
    Description: Certificate Revocation List as a PEM file.
    edit <name>
        set crl {user}
        set range [global|vdom]
        set source [factory|user|...]
        set update-vdom {string}
        set ldap-server {string}
        set ldap-username {string}
        set ldap-password {password}
        set http-url {string}
        set scep-url {string}
        set scep-cert {string}
        set update-interval {integer}
        set source-ip {ipv4-address}
    next
end

```

config vpn certificate crl

Parameter	Description	Type	Size	Default
name	Name.	string	Maximum length: 35	

Parameter	Description	Type	Size	Default								
crl	Certificate Revocation List as a PEM file.	user	Not Specified									
range	Either global or VDOM IP address range for the certificate.	option	-	vdom								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>global</i></td><td>Global range.</td></tr><tr><td><i>vdom</i></td><td>VDOM IP address range.</td></tr></table>	Option	Description	<i>global</i>	Global range.	<i>vdom</i>	VDOM IP address range.					
Option	Description											
<i>global</i>	Global range.											
<i>vdom</i>	VDOM IP address range.											
source	Certificate source type.	option	-	user								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>factory</i></td><td>Factory installed certificate.</td></tr><tr><td><i>user</i></td><td>User generated certificate.</td></tr><tr><td><i>bundle</i></td><td>Bundle file certificate.</td></tr></table>	Option	Description	<i>factory</i>	Factory installed certificate.	<i>user</i>	User generated certificate.	<i>bundle</i>	Bundle file certificate.			
Option	Description											
<i>factory</i>	Factory installed certificate.											
<i>user</i>	User generated certificate.											
<i>bundle</i>	Bundle file certificate.											
update-vdom	VDOM for CRL update.	string	Maximum length: 31	root								
ldap-server	LDAP server name for CRL auto-update.	string	Maximum length: 35									
ldap-username	LDAP server user name.	string	Maximum length: 63									
ldap-password	LDAP server user password.	password	Not Specified									
http-url	HTTP server URL for CRL auto-update.	string	Maximum length: 255									
scep-url	SCEP server URL for CRL auto-update.	string	Maximum length: 255									
scep-cert	Local certificate for SCEP communication for CRL auto-update.	string	Maximum length: 35	Fortinet_CA_SSL								
update-interval	Time in seconds before the FortiProxy checks for an updated CRL. Set to 0 to update only when it expires.	integer	Minimum value: 0 Maximum value: 4294967295	0								
source-ip	Source IP address for communications to a HTTP or SCEP CA server.	ipv4-address	Not Specified	0.0.0.0								

config vpn certificate hsm-local

Local certificates whose keys are stored on HSM.

```

config vpn certificate hsm-local
    Description: Local certificates whose keys are stored on HSM.
    edit <name>
        set comments {string}
        set vendor [unknown|gch]
        set api-version [unknown|gch-default]
        set certificate {user}
        set range [global|vdom]
        set source [factory|user|...]
        set gch-url {string}
        set gch-project {string}
        set gch-location {string}
        set gch-keyring {string}
        set gch-cryptokey {string}
        set gch-cryptokey-version {string}
        set gch-cloud-service-name {string}
        set gch-cryptokey-algorithm [2048-RSA-PKCS1v1.5-SHA256|3072-RSA-PKCS1v1.5-
SHA256|...]
    next
end

```

config vpn certificate hsm-local

Parameter	Description	Type	Size	Default
name	Name.	string	Maximum length: 35	
comments	Comment.	string	Maximum length: 511	
vendor	HSM vendor.	option	-	unknown
	Option	Description		
	unknown	Unknown type of HSM.		
	gch	Google Cloud HSM.		
api-version	API version for communicating with HSM.	option	-	unknown

Parameter	Description	Type	Size	Default								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>unknown</i></td><td>Unknown API version.</td></tr><tr><td><i>gch-default</i></td><td>Google Cloud HSM default API.</td></tr></table>	Option	Description	<i>unknown</i>	Unknown API version.	<i>gch-default</i>	Google Cloud HSM default API.					
Option	Description											
<i>unknown</i>	Unknown API version.											
<i>gch-default</i>	Google Cloud HSM default API.											
certificate	PEM format certificate.	user	Not Specified									
range	Either a global or VDOM IP address range for the certificate.	option	-	vdom								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>global</i></td><td>Global range.</td></tr><tr><td><i>vdom</i></td><td>VDOM IP address range.</td></tr></table>	Option	Description	<i>global</i>	Global range.	<i>vdom</i>	VDOM IP address range.					
Option	Description											
<i>global</i>	Global range.											
<i>vdom</i>	VDOM IP address range.											
source	Certificate source type.	option	-	user								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>factory</i></td><td>Factory installed certificate.</td></tr><tr><td><i>user</i></td><td>User generated certificate.</td></tr><tr><td><i>bundle</i></td><td>Bundle file certificate.</td></tr></table>	Option	Description	<i>factory</i>	Factory installed certificate.	<i>user</i>	User generated certificate.	<i>bundle</i>	Bundle file certificate.			
Option	Description											
<i>factory</i>	Factory installed certificate.											
<i>user</i>	User generated certificate.											
<i>bundle</i>	Bundle file certificate.											
gch-url	Google Cloud HSM key URL (e.g. "https://cloudkms.googleapis.com/v1/projects/sampleproject/locations/samplelocation/keyRings/samplekeyring/cryptoKeys/sampleKeyName/cryptoKeyVersions/1").	string	Maximum length: 1024									
gch-project	Google Cloud HSM project ID.	string	Maximum length: 31									
gch-location	Google Cloud HSM location.	string	Maximum length: 63									

Parameter	Description	Type	Size	Default
gch-keyring	Google Cloud HSM keyring.	string	Maximum length: 63	
gch-cryptokey	Google Cloud HSM cryptokey.	string	Maximum length: 63	
gch-cryptokey-version	Google Cloud HSM cryptokey version.	string	Maximum length: 31	
gch-cloud-service-name	Cloud service config name to generate access token.	string	Maximum length: 35	
gch-cryptokey-algorithm	Google Cloud HSM cryptokey algorithm.	option	-	2048-RSA-PKCS1v1.5-SHA256

Option	Description
<i>2048-RSA-PKCS1v1.5-SHA256</i>	2048 bit RSA - PKCS#1 v1.5 padding - SHA256 Digest
<i>3072-RSA-PKCS1v1.5-SHA256</i>	3072 bit RSA - PKCS#1 v1.5 padding - SHA256 Digest
<i>4096-RSA-PKCS1v1.5-SHA256</i>	4096 bit RSA - PKCS#1 v1.5 padding - SHA256 Digest
<i>4096-RSA-PKCS1v1.5-SHA512</i>	4096 bit RSA - PKCS#1 v1.5 padding - SHA512 Digest

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>EC_P256_SHA256</i>	Elliptic Curve P-256 - SHA256 Digest		
	<i>EC_P384_SHA384</i>	Elliptic Curve P-384 - SHA384 Digest		
	<i>EC_secp256k1_SHA256</i>	Elliptic Curvesecp256k1 - SHA256 Digest		

config vpn certificate local

Local keys and certificates.

```

config vpn certificate local
    Description: Local keys and certificates.
    edit <name>
        set type [normal|hsm]
        set nethsm-slot {string}
        set password {password}
        set comments {string}
        set private-key {user}
        set certificate {user}
        set csr {user}
        set state {user}
        set scep-url {string}
        set range [global|vdom]
        set source [factory|user|...]
        set auto-regenerate-days {integer}
        set auto-regenerate-days-warning {integer}
        set scep-password {password}
        set ca-identifier {string}
        set name-encoding [printable|utf8]
        set source-ip {ipv4-address}
        set ike-localid {string}
        set ike-localid-type [asn1dn|fqdn]
        set enroll-protocol [none|scep|...]
        set private-key-retain [enable|disable]
        set cmp-server {string}
        set cmp-path {string}
        set cmp-server-cert {string}
        set cmp-regeneration-method [keyupdate|renewal]
        set acme-ca-url {string}
        set acme-domain {string}
        set acme-email {string}
        set acme-rsa-key-size {integer}
        set acme-renew-window {integer}
        set est-server {string}

```

```

    set est-ca-id {string}
    set est-http-username {string}
    set est-http-password {string}
    set est-client-cert {string}
    set est-server-cert {string}
    set est-srp-username {string}
    set est-srp-password {string}
    set est-regeneration-method [create-new-key|use-existing-key]
next
end

```

config vpn certificate local

Parameter	Description	Type	Size	Default
name	Name.	string	Maximum length: 35	
type	Type.	option	-	normal
	Option	Description		
	normal	Normal		
	hsm	HSM		
nethsm-slot	Network HSM slot name.	string	Maximum length: 35	
password	Password as a PEM file.	password	Not Specified	
comments	Comment.	string	Maximum length: 511	
private-key	PEM format key encrypted with a password.	user	Not Specified	
certificate	PEM format certificate.	user	Not Specified	
csr	Certificate Signing Request.	user	Not Specified	
state	Certificate Signing Request State.	user	Not Specified	
scep-url	SCEP server URL.	string	Maximum length: 255	
range	Either a global or VDOM IP address range for the certificate.	option	-	vdom
	Option	Description		
	global	Global range.		
	vdom	VDOM IP address range.		

Parameter	Description	Type	Size	Default								
source	Certificate source type.	option	-	user								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>factory</i></td><td>Factory installed certificate.</td></tr><tr><td><i>user</i></td><td>User generated certificate.</td></tr><tr><td><i>bundle</i></td><td>Bundle file certificate.</td></tr></table>				Option	Description	<i>factory</i>	Factory installed certificate.	<i>user</i>	User generated certificate.	<i>bundle</i>	Bundle file certificate.
	Option	Description										
	<i>factory</i>	Factory installed certificate.										
	<i>user</i>	User generated certificate.										
<i>bundle</i>	Bundle file certificate.											
auto-regenerate-days	Number of days to wait before expiry of an updated local certificate is requested (0 = disabled).	integer	Minimum value: 0 Maximum value: 4294967295	0								
auto-regenerate-days-warning	Number of days to wait before an expiry warning message is generated (0 = disabled).	integer	Minimum value: 0 Maximum value: 4294967295	0								
scep-password	SCEP server challenge password for auto-regeneration.	password	Not Specified									
ca-identifier	CA identifier of the CA server for signing via SCEP.	string	Maximum length: 255									
name-encoding	Name encoding method for auto-regeneration.	option	-	printable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>printable</i></td><td>Printable encoding (default).</td></tr><tr><td><i>utf8</i></td><td>UTF-8 encoding.</td></tr></table>				Option	Description	<i>printable</i>	Printable encoding (default).	<i>utf8</i>	UTF-8 encoding.		
	Option	Description										
	<i>printable</i>	Printable encoding (default).										
<i>utf8</i>	UTF-8 encoding.											
source-ip	Source IP address for communications to the SCEP server.	ipv4-address	Not Specified	0.0.0.0								
ike-localid	Local ID the FortiProxy uses for authentication as a VPN client.	string	Maximum length: 63									
ike-localid-type	IKE local ID type.	option	-	asn1dn								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>asn1dn</i></td><td>ASN.1 distinguished name.</td></tr><tr><td><i>fqdn</i></td><td>Fully qualified domain name.</td></tr></table>				Option	Description	<i>asn1dn</i>	ASN.1 distinguished name.	<i>fqdn</i>	Fully qualified domain name.		
	Option	Description										
	<i>asn1dn</i>	ASN.1 distinguished name.										
<i>fqdn</i>	Fully qualified domain name.											

Parameter	Description	Type	Size	Default
enroll-protocol	Certificate enrollment protocol.	option	-	none
	Option	Description		
	<i>none</i>	None (default).		
	<i>scep</i>	Simple Certificate Enrollment Protocol.		
	<i>cmpv2</i>	Certificate Management Protocol Version 2.		
	<i>acme2</i>	Automated Certificate Management Environment Version 2.		
	<i>est</i>	Enrollment over Secure Transport.		
private-key-retain	Enable/disable retention of private key during SCEP renewal (default = disable).	option	-	disable
	Option	Description		
	<i>enable</i>	Keep the existing private key during SCEP renewal.		
	<i>disable</i>	Generate a new private key during SCEP renewal.		
cmp-server	Address and port for CMP server (format = address:port).	string	Maximum length: 63	
cmp-path	Path location inside CMP server.	string	Maximum length: 255	
cmp-server-cert	CMP server certificate.	string	Maximum length: 79	
cmp-regeneration-method	CMP auto-regeneration method.	option	-	keyupate
	Option	Description		
	<i>keyupate</i>	Key Update.		
	<i>renewal</i>	Renewal.		
acme-ca-url	The URL for the ACME CA server (Let's Encrypt is the default provider).	string	Maximum length: 255	https://acme-v02.api.letsencrypt.org/directory
acme-domain	A valid domain that resolves to this FortiProxy unit.	string	Maximum length: 255	

Parameter	Description	Type	Size	Default						
acme-email	Contact email address that is required by some CAs like LetsEncrypt.	string	Maximum length: 255							
acme-rsa-key-size	Length of the RSA private key of the generated cert (Minimum 2048 bits).	integer	Minimum value: 2048 Maximum value: 4096	2048						
acme-renew-window	Beginning of the renewal window (in days before certificate expiration, 30 by default).	integer	Minimum value: 1 Maximum value: 100	30						
est-server	Address and port for EST server (e.g. https://example.com:1234).	string	Maximum length: 255							
est-ca-id	CA identifier of the CA server for signing via EST.	string	Maximum length: 255							
est-http-username	HTTP Authentication username for signing via EST.	string	Maximum length: 63							
est-http-password	HTTP Authentication password for signing via EST.	string	Maximum length: 63							
est-client-cert	Certificate used to authenticate this FortiGate to EST server.	string	Maximum length: 79							
est-server-cert	EST server's certificate must be verifiable by this certificate to be authenticated.	string	Maximum length: 79							
est-srp-username	EST SRP authentication username.	string	Maximum length: 63							
est-srp-password	EST SRP authentication password.	string	Maximum length: 63							
est-regeneration-method	EST behavioral options during re-enrollment.	option	-	create-new-key						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>create-new-key</td><td>Create new private key during re-enrollment.</td></tr><tr><td>use-existing-key</td><td>Reuse existing private key during re-enrollment.</td></tr></table>				Option	Description	create-new-key	Create new private key during re-enrollment.	use-existing-key	Reuse existing private key during re-enrollment.
Option	Description									
create-new-key	Create new private key during re-enrollment.									
use-existing-key	Reuse existing private key during re-enrollment.									

config vpn certificate ocsf-server

OCSP server configuration.

```
config vpn certificate ocsf-server
  Description: OCSP server configuration.
  edit <name>
    set url {string}
    set cert {string}
    set secondary-url {string}
    set secondary-cert {string}
    set unavail-action [revoke|ignore]
    set source-ip {string}
  next
end
```

config vpn certificate ocsf-server

Parameter	Description	Type	Size	Default
name	OCSP server entry name.	string	Maximum length: 35	
url	OCSP server URL.	string	Maximum length: 127	
cert	OCSP server certificate.	string	Maximum length: 127	
secondary-url	Secondary OCSP server URL.	string	Maximum length: 127	
secondary-cert	Secondary OCSP server certificate.	string	Maximum length: 127	
unavail-action	Action when server is unavailable (revoke the certificate or ignore the result of the check).	option	-	revoke
		Option	Description	
		revoke	Revoke certificate if server is unavailable.	
		ignore	Ignore OCSP check if server is unavailable.	
source-ip	Source IP address for dynamic AIA and OCSP queries.	string	Maximum length: 63	

config vpn certificate remote

Remote certificate as a PEM file.

```

config vpn certificate remote
    Description: Remote certificate as a PEM file.
    edit <name>
        set remote {user}
        set range [global|vdom]
        set source [factory|user|...]
    next
end

```

config vpn certificate remote

Parameter	Description	Type	Size	Default
name	Name.	string	Maximum length: 35	
remote	Remote certificate.	user	Not Specified	
range	Either the global or VDOM IP address range for the remote certificate.	option	-	vdom
	Option		Description	
	global		Global range.	
	vdom		VDOM IP address range.	
source	Remote certificate source type.	option	-	user
	Option		Description	
	factory		Factory installed certificate.	
	user		User generated certificate.	
	bundle		Bundle file certificate.	

config vpn certificate setting

VPN certificate setting.

```

config vpn certificate setting
    Description: VPN certificate setting.
    set obsp-status [enable|mandatory|...]
    set obsp-option [certificate|server]
    set proxy {string}
    set proxy-port {integer}
    set proxy-username {string}
    set proxy-password {password}
    set source-ip {string}
    set obsp-default-server {string}
    set interface-select-method [auto|specify]

```

```

set interface {string}
set check-ca-cert [enable|disable]
set check-ca-chain [enable|disable]
set subject-match [substring|value]
set subject-set [subset|superset]
set cn-match [substring|value]
set cn-allow-multi [disable|enable]
config crl-verification
    Description: CRL verification options.
    set expiry [ignore|revoke]
    set leaf-crl-absence [ignore|revoke]
    set chain-crl-absence [ignore|revoke]
end
set strict-ocsp-check [enable|disable]
set ssl-min-proto-version [default|SSLv3|...]
set cmp-save-extra-certs [enable|disable]
set cmp-key-usage-checking [enable|disable]
set cert-expire-warning {integer}
set certname-rsa1024 {string}
set certname-rsa2048 {string}
set certname-rsa4096 {string}
set certname-dsa1024 {string}
set certname-dsa2048 {string}
set certname-ecdsa256 {string}
set certname-ecdsa384 {string}
set certname-ecdsa521 {string}
set certname-ed25519 {string}
set certname-ed448 {string}

```

end

config vpn certificate setting

Parameter	Description	Type	Size	Default								
ocsp-status	Enable/disable receiving certificates using the OCSP.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>OCSP is performed if CRL is not checked.</td></tr><tr><td><i>mandatory</i></td><td>If cert is not revoked by CRL, OCSP is performed.</td></tr><tr><td><i>disable</i></td><td>OCSP is not performed.</td></tr></table>				Option	Description	<i>enable</i>	OCSP is performed if CRL is not checked.	<i>mandatory</i>	If cert is not revoked by CRL, OCSP is performed.	<i>disable</i>	OCSP is not performed.
Option	Description											
<i>enable</i>	OCSP is performed if CRL is not checked.											
<i>mandatory</i>	If cert is not revoked by CRL, OCSP is performed.											
<i>disable</i>	OCSP is not performed.											
ocsp-option	Specify whether the OCSP URL is from certificate or configured OCSP server.	option	-	server								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>certificate</i></td><td>Use URL from certificate.</td></tr><tr><td><i>server</i></td><td>Use URL from configured OCSP server.</td></tr></table>				Option	Description	<i>certificate</i>	Use URL from certificate.	<i>server</i>	Use URL from configured OCSP server.		
Option	Description											
<i>certificate</i>	Use URL from certificate.											
<i>server</i>	Use URL from configured OCSP server.											

Parameter	Description	Type	Size	Default						
proxy	Proxy server FQDN or IP for OCSP/CA queries during certificate verification.	string	Maximum length: 127							
proxy-port	Proxy server port (1 - 65535, default = 8080).	integer	Minimum value: 1 Maximum value: 65535	8080						
proxy-username	Proxy server user name.	string	Maximum length: 63							
proxy-password	Proxy server password.	password	Not Specified							
source-ip	Source IP address for dynamic AIA and OCSP queries.	string	Maximum length: 63							
ocsp-default-server	Default OCSP server.	string	Maximum length: 35							
interface-select-method	Specify how to select outgoing interface to reach server.	option	-	auto						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>auto</i></td><td>Set outgoing interface automatically.</td></tr><tr><td><i>specify</i></td><td>Set outgoing interface manually.</td></tr></table>				Option	Description	<i>auto</i>	Set outgoing interface automatically.	<i>specify</i>	Set outgoing interface manually.
Option	Description									
<i>auto</i>	Set outgoing interface automatically.									
<i>specify</i>	Set outgoing interface manually.									
interface	Specify outgoing interface to reach server.	string	Maximum length: 15							
check-ca-cert	Enable/disable verification of the user certificate and pass authentication if any CA in the chain is trusted (default = enable).	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable verification of the user certificate.</td></tr><tr><td><i>disable</i></td><td>Disable verification of the user certificate.</td></tr></table>				Option	Description	<i>enable</i>	Enable verification of the user certificate.	<i>disable</i>	Disable verification of the user certificate.
Option	Description									
<i>enable</i>	Enable verification of the user certificate.									
<i>disable</i>	Disable verification of the user certificate.									
check-ca-chain	Enable/disable verification of the entire certificate chain and pass authentication only if the chain is complete and all of the CAs in the chain are trusted (default = disable).	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable verification of the entire certificate chain.</td></tr><tr><td><i>disable</i></td><td>Disable verification of the entire certificate chain.</td></tr></table>				Option	Description	<i>enable</i>	Enable verification of the entire certificate chain.	<i>disable</i>	Disable verification of the entire certificate chain.
Option	Description									
<i>enable</i>	Enable verification of the entire certificate chain.									
<i>disable</i>	Disable verification of the entire certificate chain.									

Parameter	Description	Type	Size	Default						
subject-match	When searching for a matching certificate, control how to do RDN value matching with certificate subject name (default = substring).	option	-	substring						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>substring</i></td><td>Find a match if the name being searched for is a part or the same as a certificate subject RDN.</td></tr><tr><td><i>value</i></td><td>Find a match if the name being searched for is same as a certificate subject RDN.</td></tr></table>	Option	Description	<i>substring</i>	Find a match if the name being searched for is a part or the same as a certificate subject RDN.	<i>value</i>	Find a match if the name being searched for is same as a certificate subject RDN.			
Option	Description									
<i>substring</i>	Find a match if the name being searched for is a part or the same as a certificate subject RDN.									
<i>value</i>	Find a match if the name being searched for is same as a certificate subject RDN.									
subject-set	When searching for a matching certificate, control how to do RDN set matching with certificate subject name (default = subset).	option	-	subset						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>subset</i></td><td>Find a match if the name being searched for is a subset of a certificate subject.</td></tr><tr><td><i>superset</i></td><td>Find a match if the name being searched for is a superset of a certificate subject.</td></tr></table>	Option	Description	<i>subset</i>	Find a match if the name being searched for is a subset of a certificate subject.	<i>superset</i>	Find a match if the name being searched for is a superset of a certificate subject.			
Option	Description									
<i>subset</i>	Find a match if the name being searched for is a subset of a certificate subject.									
<i>superset</i>	Find a match if the name being searched for is a superset of a certificate subject.									
cn-match	When searching for a matching certificate, control how to do CN value matching with certificate subject name (default = substring).	option	-	substring						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>substring</i></td><td>Find a match if the name being searched for is a part or the same as a certificate CN.</td></tr><tr><td><i>value</i></td><td>Find a match if the name being searched for is same as a certificate CN.</td></tr></table>	Option	Description	<i>substring</i>	Find a match if the name being searched for is a part or the same as a certificate CN.	<i>value</i>	Find a match if the name being searched for is same as a certificate CN.			
Option	Description									
<i>substring</i>	Find a match if the name being searched for is a part or the same as a certificate CN.									
<i>value</i>	Find a match if the name being searched for is same as a certificate CN.									
cn-allow-multi	When searching for a matching certificate, allow multiple CN fields in certificate subject name (default = enable).	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Does not allow multiple CN entries in certificate matching.</td></tr><tr><td><i>enable</i></td><td>Allow multiple CN entries in certificate matching.</td></tr></table>	Option	Description	<i>disable</i>	Does not allow multiple CN entries in certificate matching.	<i>enable</i>	Allow multiple CN entries in certificate matching.			
Option	Description									
<i>disable</i>	Does not allow multiple CN entries in certificate matching.									
<i>enable</i>	Allow multiple CN entries in certificate matching.									
strict-ocsp-check	Enable/disable strict mode OCSP checking.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable strict mode OCSP checking.</td></tr><tr><td><i>disable</i></td><td>Disable strict mode OCSP checking.</td></tr></table>	Option	Description	<i>enable</i>	Enable strict mode OCSP checking.	<i>disable</i>	Disable strict mode OCSP checking.			
Option	Description									
<i>enable</i>	Enable strict mode OCSP checking.									
<i>disable</i>	Disable strict mode OCSP checking.									

Parameter	Description	Type	Size	Default														
ssl-min-protocol-version	Minimum supported protocol version for SSL/TLS connections (default is to follow system global setting).	option	-	default														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>default</td><td>Follow system global setting.</td></tr><tr><td>SSLv3</td><td>SSLv3.</td></tr><tr><td>TLSv1</td><td>TLSv1.</td></tr><tr><td>TLSv1-1</td><td>TLSv1.1.</td></tr><tr><td>TLSv1-2</td><td>TLSv1.2.</td></tr><tr><td>TLSv1-3</td><td>TLSv1.3.</td></tr></table>	Option	Description	default	Follow system global setting.	SSLv3	SSLv3.	TLSv1	TLSv1.	TLSv1-1	TLSv1.1.	TLSv1-2	TLSv1.2.	TLSv1-3	TLSv1.3.			
Option	Description																	
default	Follow system global setting.																	
SSLv3	SSLv3.																	
TLSv1	TLSv1.																	
TLSv1-1	TLSv1.1.																	
TLSv1-2	TLSv1.2.																	
TLSv1-3	TLSv1.3.																	
cmp-save-extra-certs	Enable/disable saving extra certificates in CMP mode (default = disable).	option	-	disable														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable saving extra certificates in CMP mode.</td></tr><tr><td>disable</td><td>Disable saving extra certificates in CMP mode.</td></tr></table>	Option	Description	enable	Enable saving extra certificates in CMP mode.	disable	Disable saving extra certificates in CMP mode.											
Option	Description																	
enable	Enable saving extra certificates in CMP mode.																	
disable	Disable saving extra certificates in CMP mode.																	
cmp-key-usage-checking	Enable/disable server certificate key usage checking in CMP mode (default = enable).	option	-	enable														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable server certificate key usage checking in CMP mode.</td></tr><tr><td>disable</td><td>Disable server certificate key usage checking in CMP mode.</td></tr></table>	Option	Description	enable	Enable server certificate key usage checking in CMP mode.	disable	Disable server certificate key usage checking in CMP mode.											
Option	Description																	
enable	Enable server certificate key usage checking in CMP mode.																	
disable	Disable server certificate key usage checking in CMP mode.																	
cert-expire-warning	Number of days before a certificate expires to send a warning. Set to 0 to disable sending of the warning (0 - 100, default = 14).	integer	Minimum value: 0 Maximum value: 100	14														
certname-rsa1024	1024 bit RSA key certificate for re-signing server certificates for SSL inspection.	string	Maximum length: 35	Fortinet_SSL_RSA1024														
certname-rsa2048	2048 bit RSA key certificate for re-signing server certificates for SSL inspection.	string	Maximum length: 35	Fortinet_SSL_RSA2048														
certname-rsa4096	4096 bit RSA key certificate for re-signing server certificates for SSL inspection.	string	Maximum length: 35	Fortinet_SSL_RSA4096														

Parameter	Description	Type	Size	Default
certname-dsa1024	1024 bit DSA key certificate for re-signing server certificates for SSL inspection.	string	Maximum length: 35	Fortinet_SSL_DSA1024
certname-dsa2048	2048 bit DSA key certificate for re-signing server certificates for SSL inspection.	string	Maximum length: 35	Fortinet_SSL_DSA2048
certname-ecdsa256	256 bit ECDSA key certificate for re-signing server certificates for SSL inspection.	string	Maximum length: 35	Fortinet_SSL_ECDSA256
certname-ecdsa384	384 bit ECDSA key certificate for re-signing server certificates for SSL inspection.	string	Maximum length: 35	Fortinet_SSL_ECDSA384
certname-ecdsa521	521 bit ECDSA key certificate for re-signing server certificates for SSL inspection.	string	Maximum length: 35	Fortinet_SSL_ECDSA521
certname-ed25519	253 bit EdDSA key certificate for re-signing server certificates for SSL inspection.	string	Maximum length: 35	Fortinet_SSL_ED25519
certname-ed448	456 bit EdDSA key certificate for re-signing server certificates for SSL inspection.	string	Maximum length: 35	Fortinet_SSL_ED448

config crt-verification

Parameter	Description	Type	Size	Default						
expiry	CRL verification option when CRL is expired (default = ignore).	option	-	ignore						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>ignore</i></td><td>Certificate status will be verified even if CRL is expired.</td></tr><tr><td><i>revoke</i></td><td>Certificate will be revoked if CRL is expired.</td></tr></table>	Option	Description	<i>ignore</i>	Certificate status will be verified even if CRL is expired.	<i>revoke</i>	Certificate will be revoked if CRL is expired.			
Option	Description									
<i>ignore</i>	Certificate status will be verified even if CRL is expired.									
<i>revoke</i>	Certificate will be revoked if CRL is expired.									
leaf-crl-absence	CRL verification option when leaf CRL is absent (default = ignore).	option	-	ignore						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>ignore</i></td><td>CRL verification against leaf certificate is ignored if CRL is absent.</td></tr><tr><td><i>revoke</i></td><td>Certificate will be revoked if CRL of leaf certificate is absent.</td></tr></table>	Option	Description	<i>ignore</i>	CRL verification against leaf certificate is ignored if CRL is absent.	<i>revoke</i>	Certificate will be revoked if CRL of leaf certificate is absent.			
Option	Description									
<i>ignore</i>	CRL verification against leaf certificate is ignored if CRL is absent.									
<i>revoke</i>	Certificate will be revoked if CRL of leaf certificate is absent.									
chain-crl-absence	CRL verification option when CRL of any certificate in chain is absent (default = ignore).	option	-	ignore						

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>ignore</i>	CRL verification is ignored if CRL of any certificate in chain is absent.		
	<i>revoke</i>	Certificate will be revoked if CRL of any certificate in chain is absent.		

config vpn ipsec phase1-interface

Configure VPN remote gateway.

```
config vpn ipsec phase1-interface
  Description: Configure VPN remote gateway.
  edit <name>
    set interface {string}
    set ip-version {option}
    set ike-version [1|2]
    set local-gw {ipv4-address}
    set remote-gw {ipv4-address}
    set keylife {integer}
    set certificate <name1>, <name2>, ...
    set authmethod [psk|signature]
    set mode [aggressive|main]
    set peertype {option}
    set peerid {string}
    set peer {string}
    set aggregate-member {option}
    set packet-redistribution [enable|disable]
    set proposal {option1}, {option2}, ...
    set psksecret {password-3}
    set keepalive {integer}
    set distance {integer}
    set priority {integer}
    set localid {string}
    set localid-type [auto|fqdn|...]
    set negotiate-timeout {integer}
    set fragmentation [enable|disable]
    set comments {var-string}
    set send-cert-chain [enable|disable]
    set dhgrp {option1}, {option2}, ...
    set eap [enable|disable]
    set eap-identity [use-id-payload|send-request]
    set eap-exclude-peergrp {string}
    set eap-cert-auth [enable|disable]
    set acct-verify [enable|disable]
    set ppk [disable|allow|...]
    set ppk-secret {password-3}
    set ppk-identity {string}
    set wizard-type [custom|dialup-forticlient|...]
    set xauthtype [disable|client|...]
    set reauth [disable|enable]
    set authusr {string}
    set authpasswd {password}
```

```

set group-authentication [enable|disable]
set group-authentication-secret {password-3}
set authusrgrp {string}
set idle-timeout [enable|disable]
set idle-timeoutinterval {integer}
set fgsp-sync [enable|disable]
set inbound-dscp-copy [enable|disable]
set auto-discovery-sender [enable|disable]
set auto-discovery-receiver [enable|disable]
set auto-discovery-forwarder [enable|disable]
set auto-discovery-psk [enable|disable]
set auto-discovery-shortcuts [independent|dependent]
set auto-discovery-crossover [allow|block]
set auto-discovery-offer-interval {integer}
set fragmentation-mtu {integer}
set childless-ike [enable|disable]
set azure-ad-autoconnect [enable|disable]
set client-resume [enable|disable]
set client-resume-interval {integer}
set rekey [enable|disable]
set digital-signature-auth [enable|disable]
set signature-hash-alg {option1}, {option2}, ...
set rsa-signature-format [pkcs1|pss]
set rsa-signature-hash-override [enable|disable]
set enforce-unique-id [disable|keep-new|...]
set cert-id-validation [enable|disable]
set network-overlay [disable|enable]
set network-id {integer}
set dev-id-notification [disable|enable]
set dev-id {string}
set loopback-asymroute [enable|disable]
set link-cost {integer}
set kms {string}

```

next

end

config vpn ipsec phase1-interface

Parameter	Description	Type	Size	Default
name	IPsec remote gateway name.	string	Maximum length: 15	
interface	Local physical, aggregate, or VLAN outgoing interface.	string	Maximum length: 35	
ip-version	IP version to use for VPN interface.	option	-	4
	Option	Description		
	4	Use IPv4 addressing for gateways.		
ike-version	IKE protocol version.	option	-	1

Parameter	Description	Type	Size	Default						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>1</td><td>Use IKEv1 protocol.</td></tr><tr><td>2</td><td>Use IKEv2 protocol.</td></tr></table>				Option	Description	1	Use IKEv1 protocol.	2	Use IKEv2 protocol.
	Option	Description								
	1	Use IKEv1 protocol.								
2	Use IKEv2 protocol.									
local-gw	IPv4 address of the local gateway's external interface.	ipv4-address	Not Specified	0.0.0.0						
remote-gw	IPv4 address of the remote gateway's external interface.	ipv4-address	Not Specified	0.0.0.0						
keylife	Time to wait in seconds before phase 1 encryption key expires.	integer	Minimum value: 120 Maximum value: 172800	86400						
certificate <name>	The names of up to 4 signed personal certificates. Certificate name.	string	Maximum length: 79							
authmethod	Authentication method.	option	-	psk						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>psk</td><td>PSK authentication method.</td></tr><tr><td>signature</td><td>Signature authentication method.</td></tr></table>				Option	Description	psk	PSK authentication method.	signature	Signature authentication method.
	Option	Description								
	psk	PSK authentication method.								
signature	Signature authentication method.									
mode	The ID protection mode used to establish a secure channel.	option	-	main						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>aggressive</td><td>Aggressive mode.</td></tr><tr><td>main</td><td>Main mode.</td></tr></table>				Option	Description	aggressive	Aggressive mode.	main	Main mode.
	Option	Description								
	aggressive	Aggressive mode.								
main	Main mode.									
peertype	Accept this peer type.	option	-							
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>any</td><td>Accept any peer ID.</td></tr></table>				Option	Description	any	Accept any peer ID.		
	Option	Description								
any	Accept any peer ID.									
peerid	Accept this peer identity.	string	Maximum length: 255							
peer	Accept this peer certificate.	string	Maximum length: 35							
aggregate-member	Enable/disable use as an aggregate member.	option	-	disable						

Parameter	Description	Type	Size	Default																																										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable use as an aggregate member.</td></tr></table>	Option	Description	<i>disable</i>	Disable use as an aggregate member.																																									
	Option	Description																																												
<i>disable</i>	Disable use as an aggregate member.																																													
packet-redistribution	Enable/disable packet distribution (RPS) on the IPsec interface.	option	-	disable																																										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable packet redistribution.</td></tr><tr><td><i>disable</i></td><td>Disable packet redistribution.</td></tr></table>	Option	Description	<i>enable</i>	Enable packet redistribution.	<i>disable</i>	Disable packet redistribution.																																							
	Option	Description																																												
	<i>enable</i>	Enable packet redistribution.																																												
<i>disable</i>	Disable packet redistribution.																																													
proposal	Phase1 proposal.	option	-																																											
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>des-md5</i></td><td>des-md5</td></tr><tr><td><i>des-sha1</i></td><td>des-sha1</td></tr><tr><td><i>des-sha256</i></td><td>des-sha256</td></tr><tr><td><i>des-sha384</i></td><td>des-sha384</td></tr><tr><td><i>des-sha512</i></td><td>des-sha512</td></tr><tr><td><i>3des-md5</i></td><td>3des-md5</td></tr><tr><td><i>3des-sha1</i></td><td>3des-sha1</td></tr><tr><td><i>3des-sha256</i></td><td>3des-sha256</td></tr><tr><td><i>3des-sha384</i></td><td>3des-sha384</td></tr><tr><td><i>3des-sha512</i></td><td>3des-sha512</td></tr><tr><td><i>aes128-md5</i></td><td>aes128-md5</td></tr><tr><td><i>aes128-sha1</i></td><td>aes128-sha1</td></tr><tr><td><i>aes128-sha256</i></td><td>aes128-sha256</td></tr><tr><td><i>aes128-sha384</i></td><td>aes128-sha384</td></tr><tr><td><i>aes128-sha512</i></td><td>aes128-sha512</td></tr><tr><td><i>aes128gcm-prfsha1</i></td><td>aes128gcm-prfsha1</td></tr><tr><td><i>aes128gcm-prfsha256</i></td><td>aes128gcm-prfsha256</td></tr><tr><td><i>aes128gcm-prfsha384</i></td><td>aes128gcm-prfsha384</td></tr><tr><td><i>aes128gcm-prfsha512</i></td><td>aes128gcm-prfsha512</td></tr><tr><td><i>aes192-md5</i></td><td>aes192-md5</td></tr></table>	Option	Description	<i>des-md5</i>	des-md5	<i>des-sha1</i>	des-sha1	<i>des-sha256</i>	des-sha256	<i>des-sha384</i>	des-sha384	<i>des-sha512</i>	des-sha512	<i>3des-md5</i>	3des-md5	<i>3des-sha1</i>	3des-sha1	<i>3des-sha256</i>	3des-sha256	<i>3des-sha384</i>	3des-sha384	<i>3des-sha512</i>	3des-sha512	<i>aes128-md5</i>	aes128-md5	<i>aes128-sha1</i>	aes128-sha1	<i>aes128-sha256</i>	aes128-sha256	<i>aes128-sha384</i>	aes128-sha384	<i>aes128-sha512</i>	aes128-sha512	<i>aes128gcm-prfsha1</i>	aes128gcm-prfsha1	<i>aes128gcm-prfsha256</i>	aes128gcm-prfsha256	<i>aes128gcm-prfsha384</i>	aes128gcm-prfsha384	<i>aes128gcm-prfsha512</i>	aes128gcm-prfsha512	<i>aes192-md5</i>	aes192-md5			
	Option	Description																																												
	<i>des-md5</i>	des-md5																																												
	<i>des-sha1</i>	des-sha1																																												
	<i>des-sha256</i>	des-sha256																																												
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	<i>des-sha512</i>	des-sha512																																												
	<i>3des-md5</i>	3des-md5																																												
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	<i>3des-sha512</i>	3des-sha512																																												
	<i>aes128-md5</i>	aes128-md5																																												
	<i>aes128-sha1</i>	aes128-sha1																																												
	<i>aes128-sha256</i>	aes128-sha256																																												
	<i>aes128-sha384</i>	aes128-sha384																																												
	<i>aes128-sha512</i>	aes128-sha512																																												
	<i>aes128gcm-prfsha1</i>	aes128gcm-prfsha1																																												
	<i>aes128gcm-prfsha256</i>	aes128gcm-prfsha256																																												
	<i>aes128gcm-prfsha384</i>	aes128gcm-prfsha384																																												
<i>aes128gcm-prfsha512</i>	aes128gcm-prfsha512																																													
<i>aes192-md5</i>	aes192-md5																																													

Parameter	Description	Type	Size	Default

Option	Description
<i>aes192-sha1</i>	aes192-sha1
<i>aes192-sha256</i>	aes192-sha256
<i>aes192-sha384</i>	aes192-sha384
<i>aes192-sha512</i>	aes192-sha512
<i>aes256-md5</i>	aes256-md5
<i>aes256-sha1</i>	aes256-sha1
<i>aes256-sha256</i>	aes256-sha256
<i>aes256-sha384</i>	aes256-sha384
<i>aes256-sha512</i>	aes256-sha512
<i>aes256gcm-prfsha1</i>	aes256gcm-prfsha1
<i>aes256gcm-prfsha256</i>	aes256gcm-prfsha256
<i>aes256gcm-prfsha384</i>	aes256gcm-prfsha384
<i>aes256gcm-prfsha512</i>	aes256gcm-prfsha512
<i>chacha20poly1305-prfsha1</i>	chacha20poly1305-prfsha1
<i>chacha20poly1305-prfsha256</i>	chacha20poly1305-prfsha256
<i>chacha20poly1305-prfsha384</i>	chacha20poly1305-prfsha384
<i>chacha20poly1305-prfsha512</i>	chacha20poly1305-prfsha512
<i>aria128-md5</i>	aria128-md5
<i>aria128-sha1</i>	aria128-sha1
<i>aria128-sha256</i>	aria128-sha256
<i>aria128-sha384</i>	aria128-sha384
<i>aria128-sha512</i>	aria128-sha512
<i>aria192-md5</i>	aria192-md5
<i>aria192-sha1</i>	aria192-sha1
<i>aria192-sha256</i>	aria192-sha256
<i>aria192-sha384</i>	aria192-sha384
<i>aria192-sha512</i>	aria192-sha512
<i>aria256-md5</i>	aria256-md5
<i>aria256-sha1</i>	aria256-sha1

Parameter	Description	Type	Size	Default																			
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>aria256-sha256</i></td><td>aria256-sha256</td></tr><tr><td><i>aria256-sha384</i></td><td>aria256-sha384</td></tr><tr><td><i>aria256-sha512</i></td><td>aria256-sha512</td></tr><tr><td><i>seed-md5</i></td><td>seed-md5</td></tr><tr><td><i>seed-sha1</i></td><td>seed-sha1</td></tr><tr><td><i>seed-sha256</i></td><td>seed-sha256</td></tr><tr><td><i>seed-sha384</i></td><td>seed-sha384</td></tr><tr><td><i>seed-sha512</i></td><td>seed-sha512</td></tr></table>		Option	Description	<i>aria256-sha256</i>	aria256-sha256	<i>aria256-sha384</i>	aria256-sha384	<i>aria256-sha512</i>	aria256-sha512	<i>seed-md5</i>	seed-md5	<i>seed-sha1</i>	seed-sha1	<i>seed-sha256</i>	seed-sha256	<i>seed-sha384</i>	seed-sha384	<i>seed-sha512</i>	seed-sha512			
	Option	Description																					
	<i>aria256-sha256</i>	aria256-sha256																					
	<i>aria256-sha384</i>	aria256-sha384																					
	<i>aria256-sha512</i>	aria256-sha512																					
	<i>seed-md5</i>	seed-md5																					
	<i>seed-sha1</i>	seed-sha1																					
	<i>seed-sha256</i>	seed-sha256																					
	<i>seed-sha384</i>	seed-sha384																					
<i>seed-sha512</i>	seed-sha512																						
psksecret	Pre-shared secret for PSK authentication (ASCII string or hexadecimal encoded with a leading 0x).	password-3	Not Specified																				
keepalive	NAT-T keep alive interval.	integer	Minimum value: 5 Maximum value: 900	10																			
distance	Distance for routes added by IKE (1 - 255).	integer	Minimum value: 1 Maximum value: 255	15																			
priority	Priority for routes added by IKE (1 - 65535).	integer	Minimum value: 1 Maximum value: 65535	1																			
localid	Local ID.	string	Maximum length: 63																				
localid-type	Local ID type.	option	-	auto																			
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>auto</i></td><td>Select ID type automatically.</td></tr><tr><td><i>fqdn</i></td><td>Use fully qualified domain name.</td></tr><tr><td><i>user-fqdn</i></td><td>Use user fully qualified domain name.</td></tr><tr><td><i>keyid</i></td><td>Use key-id string.</td></tr><tr><td><i>address</i></td><td>Use local IP address.</td></tr><tr><td><i>asn1dn</i></td><td>Use ASN.1 distinguished name.</td></tr></table>		Option	Description	<i>auto</i>	Select ID type automatically.	<i>fqdn</i>	Use fully qualified domain name.	<i>user-fqdn</i>	Use user fully qualified domain name.	<i>keyid</i>	Use key-id string.	<i>address</i>	Use local IP address.	<i>asn1dn</i>	Use ASN.1 distinguished name.							
	Option	Description																					
	<i>auto</i>	Select ID type automatically.																					
	<i>fqdn</i>	Use fully qualified domain name.																					
	<i>user-fqdn</i>	Use user fully qualified domain name.																					
	<i>keyid</i>	Use key-id string.																					
	<i>address</i>	Use local IP address.																					
<i>asn1dn</i>	Use ASN.1 distinguished name.																						

Parameter	Description	Type	Size	Default																												
negotiate-timeout	IKE SA negotiation timeout in seconds (1 - 300).	integer	Minimum value: 1 Maximum value: 300	30																												
fragmentation	Enable/disable fragment IKE message on re-transmission.	option	-	enable																												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable intra-IKE fragmentation support on re-transmission.</td></tr><tr><td><i>disable</i></td><td>Disable intra-IKE fragmentation support.</td></tr></table>				Option	Description	<i>enable</i>	Enable intra-IKE fragmentation support on re-transmission.	<i>disable</i>	Disable intra-IKE fragmentation support.																						
	Option	Description																														
	<i>enable</i>	Enable intra-IKE fragmentation support on re-transmission.																														
<i>disable</i>	Disable intra-IKE fragmentation support.																															
comments	Comment.	var-string	Maximum length: 255																													
send-cert-chain	Enable/disable sending certificate chain.	option	-	enable																												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable sending certificate chain.</td></tr><tr><td><i>disable</i></td><td>Disable sending certificate chain.</td></tr></table>				Option	Description	<i>enable</i>	Enable sending certificate chain.	<i>disable</i>	Disable sending certificate chain.																						
	Option	Description																														
	<i>enable</i>	Enable sending certificate chain.																														
<i>disable</i>	Disable sending certificate chain.																															
dhgrp	DH group.	option	-	14																												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>1</td><td>DH Group 1.</td></tr><tr><td>2</td><td>DH Group 2.</td></tr><tr><td>5</td><td>DH Group 5.</td></tr><tr><td>14</td><td>DH Group 14.</td></tr><tr><td>15</td><td>DH Group 15.</td></tr><tr><td>16</td><td>DH Group 16.</td></tr><tr><td>17</td><td>DH Group 17.</td></tr><tr><td>18</td><td>DH Group 18.</td></tr><tr><td>19</td><td>DH Group 19.</td></tr><tr><td>20</td><td>DH Group 20.</td></tr><tr><td>21</td><td>DH Group 21.</td></tr><tr><td>27</td><td>DH Group 27.</td></tr><tr><td>28</td><td>DH Group 28.</td></tr></table>				Option	Description	1	DH Group 1.	2	DH Group 2.	5	DH Group 5.	14	DH Group 14.	15	DH Group 15.	16	DH Group 16.	17	DH Group 17.	18	DH Group 18.	19	DH Group 19.	20	DH Group 20.	21	DH Group 21.	27	DH Group 27.	28	DH Group 28.
	Option	Description																														
	1	DH Group 1.																														
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	14	DH Group 14.																														
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	18	DH Group 18.																														
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	20	DH Group 20.																														
	21	DH Group 21.																														
	27	DH Group 27.																														
28	DH Group 28.																															

Parameter	Description	Type	Size	Default										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>29</td><td>DH Group 29.</td></tr><tr><td>30</td><td>DH Group 30.</td></tr><tr><td>31</td><td>DH Group 31.</td></tr><tr><td>32</td><td>DH Group 32.</td></tr></table>	Option	Description	29	DH Group 29.	30	DH Group 30.	31	DH Group 31.	32	DH Group 32.			
	Option	Description												
	29	DH Group 29.												
	30	DH Group 30.												
	31	DH Group 31.												
32	DH Group 32.													
eap	Enable/disable IKEv2 EAP authentication.	option	-	disable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable IKEv2 EAP authentication.</td></tr><tr><td><i>disable</i></td><td>Disable IKEv2 EAP authentication.</td></tr></table>	Option	Description	<i>enable</i>	Enable IKEv2 EAP authentication.	<i>disable</i>	Disable IKEv2 EAP authentication.							
	Option	Description												
	<i>enable</i>	Enable IKEv2 EAP authentication.												
<i>disable</i>	Disable IKEv2 EAP authentication.													
eap-identity	IKEv2 EAP peer identity type.	option	-	use-id-payload										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>use-id-payload</i></td><td>Use IKEv2 IDi payload to resolve peer identity.</td></tr><tr><td><i>send-request</i></td><td>Use EAP identity request to resolve peer identity.</td></tr></table>	Option	Description	<i>use-id-payload</i>	Use IKEv2 IDi payload to resolve peer identity.	<i>send-request</i>	Use EAP identity request to resolve peer identity.							
	Option	Description												
	<i>use-id-payload</i>	Use IKEv2 IDi payload to resolve peer identity.												
<i>send-request</i>	Use EAP identity request to resolve peer identity.													
eap-exclude-peergrp	Peer group excluded from EAP authentication.	string	Maximum length: 35											
eap-cert-auth	Enable/disable peer certificate authentication in addition to EAP if peer is a FortiClient endpoint.	option	-	disable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable peer certificate authentication in addition to EAP if peer is a FortiClient endpoint.</td></tr><tr><td><i>disable</i></td><td>Disable peer certificate authentication in addition to EAP if peer is a FortiClient endpoint.</td></tr></table>	Option	Description	<i>enable</i>	Enable peer certificate authentication in addition to EAP if peer is a FortiClient endpoint.	<i>disable</i>	Disable peer certificate authentication in addition to EAP if peer is a FortiClient endpoint.							
	Option	Description												
	<i>enable</i>	Enable peer certificate authentication in addition to EAP if peer is a FortiClient endpoint.												
<i>disable</i>	Disable peer certificate authentication in addition to EAP if peer is a FortiClient endpoint.													
acct-verify	Enable/disable verification of RADIUS accounting record.	option	-	disable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable verification of RADIUS accounting record.</td></tr><tr><td><i>disable</i></td><td>Disable verification of RADIUS accounting record.</td></tr></table>	Option	Description	<i>enable</i>	Enable verification of RADIUS accounting record.	<i>disable</i>	Disable verification of RADIUS accounting record.							
	Option	Description												
	<i>enable</i>	Enable verification of RADIUS accounting record.												
<i>disable</i>	Disable verification of RADIUS accounting record.													
ppk	Enable/disable IKEv2 Postquantum Preshared Key (PPK).	option	-	disable										

Parameter	Description	Type	Size	Default																												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable use of IKEv2 Postquantum Preshared Key (PPK).</td></tr><tr><td><i>allow</i></td><td>Allow, but do not require, use of IKEv2 Postquantum Preshared Key (PPK).</td></tr><tr><td><i>require</i></td><td>Require use of IKEv2 Postquantum Preshared Key (PPK).</td></tr></table>		Option	Description	<i>disable</i>	Disable use of IKEv2 Postquantum Preshared Key (PPK).	<i>allow</i>	Allow, but do not require, use of IKEv2 Postquantum Preshared Key (PPK).	<i>require</i>	Require use of IKEv2 Postquantum Preshared Key (PPK).																						
	Option	Description																														
	<i>disable</i>	Disable use of IKEv2 Postquantum Preshared Key (PPK).																														
	<i>allow</i>	Allow, but do not require, use of IKEv2 Postquantum Preshared Key (PPK).																														
<i>require</i>	Require use of IKEv2 Postquantum Preshared Key (PPK).																															
ppk-secret	IKEv2 Postquantum Preshared Key (ASCII string or hexadecimal encoded with a leading 0x).	password-3	Not Specified																													
ppk-identity	IKEv2 Postquantum Preshared Key Identity.	string	Maximum length: 35																													
wizard-type	GUI VPN Wizard Type.	option	-	custom																												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>custom</i></td><td>Custom VPN configuration.</td></tr><tr><td><i>dialup-forticlient</i></td><td>Dial Up - FortiClient Windows, Mac and Android.</td></tr><tr><td><i>dialup-ios</i></td><td>Dial Up - iPhone / iPad Native IPsec Client.</td></tr><tr><td><i>dialup-android</i></td><td>Dial Up - Android Native IPsec Client.</td></tr><tr><td><i>dialup-windows</i></td><td>Dial Up - Windows Native IPsec Client.</td></tr><tr><td><i>dialup-cisco</i></td><td>Dial Up - Cisco IPsec Client.</td></tr><tr><td><i>static-fortiproxy</i></td><td>Site to Site - FortiProxy.</td></tr><tr><td><i>dialup-fortiproxy</i></td><td>Dial Up - FortiProxy.</td></tr><tr><td><i>static-cisco</i></td><td>Site to Site - Cisco.</td></tr><tr><td><i>dialup-cisco-fw</i></td><td>Dialup Up - Cisco Firewall.</td></tr><tr><td><i>simplified-static-fortiproxy</i></td><td>Site to Site - FortiProxy (SD-WAN).</td></tr><tr><td><i>hub-fortiproxy-auto-discovery</i></td><td>Hub role in a Hub-and-Spoke auto-discovery VPN.</td></tr><tr><td><i>spoke-fortiproxy-auto-discovery</i></td><td>Spoke role in a Hub-and-Spoke auto-discovery VPN.</td></tr></table>		Option	Description	<i>custom</i>	Custom VPN configuration.	<i>dialup-forticlient</i>	Dial Up - FortiClient Windows, Mac and Android.	<i>dialup-ios</i>	Dial Up - iPhone / iPad Native IPsec Client.	<i>dialup-android</i>	Dial Up - Android Native IPsec Client.	<i>dialup-windows</i>	Dial Up - Windows Native IPsec Client.	<i>dialup-cisco</i>	Dial Up - Cisco IPsec Client.	<i>static-fortiproxy</i>	Site to Site - FortiProxy.	<i>dialup-fortiproxy</i>	Dial Up - FortiProxy.	<i>static-cisco</i>	Site to Site - Cisco.	<i>dialup-cisco-fw</i>	Dialup Up - Cisco Firewall.	<i>simplified-static-fortiproxy</i>	Site to Site - FortiProxy (SD-WAN).	<i>hub-fortiproxy-auto-discovery</i>	Hub role in a Hub-and-Spoke auto-discovery VPN.	<i>spoke-fortiproxy-auto-discovery</i>	Spoke role in a Hub-and-Spoke auto-discovery VPN.		
	Option	Description																														
	<i>custom</i>	Custom VPN configuration.																														
	<i>dialup-forticlient</i>	Dial Up - FortiClient Windows, Mac and Android.																														
	<i>dialup-ios</i>	Dial Up - iPhone / iPad Native IPsec Client.																														
	<i>dialup-android</i>	Dial Up - Android Native IPsec Client.																														
	<i>dialup-windows</i>	Dial Up - Windows Native IPsec Client.																														
	<i>dialup-cisco</i>	Dial Up - Cisco IPsec Client.																														
	<i>static-fortiproxy</i>	Site to Site - FortiProxy.																														
	<i>dialup-fortiproxy</i>	Dial Up - FortiProxy.																														
	<i>static-cisco</i>	Site to Site - Cisco.																														
	<i>dialup-cisco-fw</i>	Dialup Up - Cisco Firewall.																														
	<i>simplified-static-fortiproxy</i>	Site to Site - FortiProxy (SD-WAN).																														
	<i>hub-fortiproxy-auto-discovery</i>	Hub role in a Hub-and-Spoke auto-discovery VPN.																														
<i>spoke-fortiproxy-auto-discovery</i>	Spoke role in a Hub-and-Spoke auto-discovery VPN.																															
xauthtype	XAuth type.	option	-	disable																												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable.</td></tr><tr><td><i>client</i></td><td>Enable as client.</td></tr></table>		Option	Description	<i>disable</i>	Disable.	<i>client</i>	Enable as client.																								
	Option	Description																														
	<i>disable</i>	Disable.																														
<i>client</i>	Enable as client.																															

Parameter	Description	Type	Size	Default								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>pap</i></td><td>Enable as server PAP.</td></tr><tr><td><i>chap</i></td><td>Enable as server CHAP.</td></tr><tr><td><i>auto</i></td><td>Enable as server auto.</td></tr></table>	Option	Description	<i>pap</i>	Enable as server PAP.	<i>chap</i>	Enable as server CHAP.	<i>auto</i>	Enable as server auto.			
	Option	Description										
	<i>pap</i>	Enable as server PAP.										
	<i>chap</i>	Enable as server CHAP.										
<i>auto</i>	Enable as server auto.											
reauth	Enable/disable re-authentication upon IKE SA lifetime expiration.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable IKE SA re-authentication.</td></tr><tr><td><i>enable</i></td><td>Enable IKE SA re-authentication.</td></tr></table>	Option	Description	<i>disable</i>	Disable IKE SA re-authentication.	<i>enable</i>	Enable IKE SA re-authentication.					
	Option	Description										
	<i>disable</i>	Disable IKE SA re-authentication.										
<i>enable</i>	Enable IKE SA re-authentication.											
authusr	XAuth user name.	string	Maximum length: 64									
authpasswd	XAuth password (max 35 characters).	password	Not Specified									
group-authentication	Enable/disable IKEv2 IDi group authentication.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable IKEv2 IDi group authentication.</td></tr><tr><td><i>disable</i></td><td>Disable IKEv2 IDi group authentication.</td></tr></table>	Option	Description	<i>enable</i>	Enable IKEv2 IDi group authentication.	<i>disable</i>	Disable IKEv2 IDi group authentication.					
	Option	Description										
	<i>enable</i>	Enable IKEv2 IDi group authentication.										
<i>disable</i>	Disable IKEv2 IDi group authentication.											
group-authentication-secret	Password for IKEv2 ID group authentication. ASCII string or hexadecimal indicated by a leading 0x.	password-3	Not Specified									
authusrgrp	Authentication user group.	string	Maximum length: 35									
idle-timeout	Enable/disable IPsec tunnel idle timeout.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable IPsec tunnel idle timeout.</td></tr><tr><td><i>disable</i></td><td>Disable IPsec tunnel idle timeout.</td></tr></table>	Option	Description	<i>enable</i>	Enable IPsec tunnel idle timeout.	<i>disable</i>	Disable IPsec tunnel idle timeout.					
	Option	Description										
	<i>enable</i>	Enable IPsec tunnel idle timeout.										
<i>disable</i>	Disable IPsec tunnel idle timeout.											
idle-timeoutinterval	IPsec tunnel idle timeout in minutes (5 - 43200).	integer	Minimum value: 5 Maximum value: 43200	15								

Parameter	Description	Type	Size	Default						
fgsp-sync	Enable/disable IPsec syncing of tunnels for FGSP IPsec.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable IPsec syncing of tunnels to other cluster members.</td></tr><tr><td><i>disable</i></td><td>Disable IPsec syncing of tunnels to other cluster members.</td></tr></table>	Option	Description	<i>enable</i>	Enable IPsec syncing of tunnels to other cluster members.	<i>disable</i>	Disable IPsec syncing of tunnels to other cluster members.			
Option	Description									
<i>enable</i>	Enable IPsec syncing of tunnels to other cluster members.									
<i>disable</i>	Disable IPsec syncing of tunnels to other cluster members.									
inbound-dscp-copy	Enable/disable copy the dscp in the ESP header to the inner IP Header.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable copy the dscp in the ESP header to the inner IP Header.</td></tr><tr><td><i>disable</i></td><td>Disable copy the dscp in the ESP header to the inner IP Header.</td></tr></table>	Option	Description	<i>enable</i>	Enable copy the dscp in the ESP header to the inner IP Header.	<i>disable</i>	Disable copy the dscp in the ESP header to the inner IP Header.			
Option	Description									
<i>enable</i>	Enable copy the dscp in the ESP header to the inner IP Header.									
<i>disable</i>	Disable copy the dscp in the ESP header to the inner IP Header.									
auto-discovery-sender	Enable/disable sending auto-discovery short-cut messages.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable sending auto-discovery short-cut messages.</td></tr><tr><td><i>disable</i></td><td>Disable sending auto-discovery short-cut messages.</td></tr></table>	Option	Description	<i>enable</i>	Enable sending auto-discovery short-cut messages.	<i>disable</i>	Disable sending auto-discovery short-cut messages.			
Option	Description									
<i>enable</i>	Enable sending auto-discovery short-cut messages.									
<i>disable</i>	Disable sending auto-discovery short-cut messages.									
auto-discovery-receiver	Enable/disable accepting auto-discovery short-cut messages.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable receiving auto-discovery short-cut messages.</td></tr><tr><td><i>disable</i></td><td>Disable receiving auto-discovery short-cut messages.</td></tr></table>	Option	Description	<i>enable</i>	Enable receiving auto-discovery short-cut messages.	<i>disable</i>	Disable receiving auto-discovery short-cut messages.			
Option	Description									
<i>enable</i>	Enable receiving auto-discovery short-cut messages.									
<i>disable</i>	Disable receiving auto-discovery short-cut messages.									
auto-discovery-forwarder	Enable/disable forwarding auto-discovery short-cut messages.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable forwarding auto-discovery short-cut messages.</td></tr><tr><td><i>disable</i></td><td>Disable forwarding auto-discovery short-cut messages.</td></tr></table>	Option	Description	<i>enable</i>	Enable forwarding auto-discovery short-cut messages.	<i>disable</i>	Disable forwarding auto-discovery short-cut messages.			
Option	Description									
<i>enable</i>	Enable forwarding auto-discovery short-cut messages.									
<i>disable</i>	Disable forwarding auto-discovery short-cut messages.									
auto-discovery-psk	Enable/disable use of pre-shared secrets for authentication of auto-discovery tunnels.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable use of pre-shared-secret authentication for auto-discovery tunnels.</td></tr></table>	Option	Description	<i>enable</i>	Enable use of pre-shared-secret authentication for auto-discovery tunnels.					
Option	Description									
<i>enable</i>	Enable use of pre-shared-secret authentication for auto-discovery tunnels.									

Parameter	Description	Type	Size	Default						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable use of authentication defined by 'authmethod' for auto-discovery tunnels.</td></tr></table>	Option	Description	<i>disable</i>	Disable use of authentication defined by 'authmethod' for auto-discovery tunnels.					
	Option	Description								
<i>disable</i>	Disable use of authentication defined by 'authmethod' for auto-discovery tunnels.									
auto-discovery-shortcuts	Control deletion of child short-cut tunnels when the parent tunnel goes down.	option	-	independent						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>independent</i></td><td>Short-cut tunnels remain up if the parent tunnel goes down.</td></tr><tr><td><i>dependent</i></td><td>Short-cut tunnels are brought down if the parent tunnel goes down.</td></tr></table>	Option	Description	<i>independent</i>	Short-cut tunnels remain up if the parent tunnel goes down.	<i>dependent</i>	Short-cut tunnels are brought down if the parent tunnel goes down.			
	Option	Description								
	<i>independent</i>	Short-cut tunnels remain up if the parent tunnel goes down.								
<i>dependent</i>	Short-cut tunnels are brought down if the parent tunnel goes down.									
auto-discovery-crossover	Allow/block set-up of short-cut tunnels between different network IDs.	option	-	allow						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>allow</i></td><td>Allow set-up of short-cut tunnels between different network IDs.</td></tr><tr><td><i>block</i></td><td>Block set-up of short-cut tunnels between different network IDs.</td></tr></table>	Option	Description	<i>allow</i>	Allow set-up of short-cut tunnels between different network IDs.	<i>block</i>	Block set-up of short-cut tunnels between different network IDs.			
	Option	Description								
	<i>allow</i>	Allow set-up of short-cut tunnels between different network IDs.								
<i>block</i>	Block set-up of short-cut tunnels between different network IDs.									
auto-discovery-offer-interval	Interval between shortcut offer messages in seconds (1 - 300, default = 5).	integer	Minimum value: 1 Maximum value: 300	5						
fragmentation-mtu	IKE fragmentation MTU (500 - 16000).	integer	Minimum value: 500 Maximum value: 16000	1200						
childless-ike	Enable/disable childless IKEv2 initiation (RFC 6023).	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable childless IKEv2 initiation (RFC 6023).</td></tr><tr><td><i>disable</i></td><td>Disable childless IKEv2 initiation (RFC 6023).</td></tr></table>	Option	Description	<i>enable</i>	Enable childless IKEv2 initiation (RFC 6023).	<i>disable</i>	Disable childless IKEv2 initiation (RFC 6023).			
	Option	Description								
	<i>enable</i>	Enable childless IKEv2 initiation (RFC 6023).								
<i>disable</i>	Disable childless IKEv2 initiation (RFC 6023).									
azure-ad-autoconnect	Enable/disable Azure AD Auto-Connect for FortiClient.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable Azure AD Auto-Connect for FortiClient.</td></tr><tr><td><i>disable</i></td><td>Disable Azure AD Auto-Connect for FortiClient.</td></tr></table>	Option	Description	<i>enable</i>	Enable Azure AD Auto-Connect for FortiClient.	<i>disable</i>	Disable Azure AD Auto-Connect for FortiClient.			
	Option	Description								
	<i>enable</i>	Enable Azure AD Auto-Connect for FortiClient.								
<i>disable</i>	Disable Azure AD Auto-Connect for FortiClient.									

Parameter	Description	Type	Size	Default										
client-resume	Enable/disable resumption of offline FortiClient sessions. When a FortiClient enabled laptop is closed or enters sleep/hibernate mode, enabling this feature allows FortiClient to keep the tunnel during this period, and allows users to immediately resume using the IPsec tunnel when the device wakes up.	option	-	disable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable client session resumption.</td></tr><tr><td><i>disable</i></td><td>Disable client session resumption.</td></tr></table>	Option	Description	<i>enable</i>	Enable client session resumption.	<i>disable</i>	Disable client session resumption.							
Option	Description													
<i>enable</i>	Enable client session resumption.													
<i>disable</i>	Disable client session resumption.													
client-resume-interval	Maximum time in seconds during which a VPN client may resume using a tunnel after a client PC has entered sleep mode or temporarily lost its network connection (120 - 172800, default = 7200).	integer	Minimum value: 120 Maximum value: 172800	7200										
rekey	Enable/disable phase1 rekey.	option	-	enable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable phase1 rekey.</td></tr><tr><td><i>disable</i></td><td>Disable phase1 rekey.</td></tr></table>	Option	Description	<i>enable</i>	Enable phase1 rekey.	<i>disable</i>	Disable phase1 rekey.							
Option	Description													
<i>enable</i>	Enable phase1 rekey.													
<i>disable</i>	Disable phase1 rekey.													
digital-signature-auth	Enable/disable IKEv2 Digital Signature Authentication (RFC 7427).	option	-	disable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable IKEv2 Digital Signature Authentication (RFC 7427).</td></tr><tr><td><i>disable</i></td><td>Disable IKEv2 Digital Signature Authentication (RFC 7427).</td></tr></table>	Option	Description	<i>enable</i>	Enable IKEv2 Digital Signature Authentication (RFC 7427).	<i>disable</i>	Disable IKEv2 Digital Signature Authentication (RFC 7427).							
Option	Description													
<i>enable</i>	Enable IKEv2 Digital Signature Authentication (RFC 7427).													
<i>disable</i>	Disable IKEv2 Digital Signature Authentication (RFC 7427).													
signature-hash-alg	Digital Signature Authentication hash algorithms.	option	-	sha2-512										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>sha1</i></td><td>SHA1.</td></tr><tr><td><i>sha2-256</i></td><td>SHA2-256.</td></tr><tr><td><i>sha2-384</i></td><td>SHA2-384.</td></tr><tr><td><i>sha2-512</i></td><td>SHA2-512.</td></tr></table>	Option	Description	<i>sha1</i>	SHA1.	<i>sha2-256</i>	SHA2-256.	<i>sha2-384</i>	SHA2-384.	<i>sha2-512</i>	SHA2-512.			
Option	Description													
<i>sha1</i>	SHA1.													
<i>sha2-256</i>	SHA2-256.													
<i>sha2-384</i>	SHA2-384.													
<i>sha2-512</i>	SHA2-512.													
rsa-signature-format	Digital Signature Authentication RSA signature format.	option	-	pkcs1										

Parameter	Description	Type	Size	Default								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>pkcs1</i></td><td>RSASSA PKCS#1 v1.5.</td></tr><tr><td><i>pss</i></td><td>RSASSA Probabilistic Signature Scheme (PSS).</td></tr></table>	Option	Description	<i>pkcs1</i>	RSASSA PKCS#1 v1.5.	<i>pss</i>	RSASSA Probabilistic Signature Scheme (PSS).					
	Option	Description										
	<i>pkcs1</i>	RSASSA PKCS#1 v1.5.										
<i>pss</i>	RSASSA Probabilistic Signature Scheme (PSS).											
rsa-signature-hash-override	Enable/disable IKEv2 RSA signature hash algorithm override.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable IKEv2 RSA signature hash algorithm override.</td></tr><tr><td><i>disable</i></td><td>Disable IKEv2 RSA signature hash algorithm override.</td></tr></table>	Option	Description	<i>enable</i>	Enable IKEv2 RSA signature hash algorithm override.	<i>disable</i>	Disable IKEv2 RSA signature hash algorithm override.					
	Option	Description										
	<i>enable</i>	Enable IKEv2 RSA signature hash algorithm override.										
<i>disable</i>	Disable IKEv2 RSA signature hash algorithm override.											
enforce-unique-id	Enable/disable peer ID uniqueness check.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable peer ID uniqueness enforcement.</td></tr><tr><td><i>keep-new</i></td><td>Enforce peer ID uniqueness, keep new connection if collision found.</td></tr><tr><td><i>keep-old</i></td><td>Enforce peer ID uniqueness, keep old connection if collision found.</td></tr></table>	Option	Description	<i>disable</i>	Disable peer ID uniqueness enforcement.	<i>keep-new</i>	Enforce peer ID uniqueness, keep new connection if collision found.	<i>keep-old</i>	Enforce peer ID uniqueness, keep old connection if collision found.			
	Option	Description										
	<i>disable</i>	Disable peer ID uniqueness enforcement.										
	<i>keep-new</i>	Enforce peer ID uniqueness, keep new connection if collision found.										
<i>keep-old</i>	Enforce peer ID uniqueness, keep old connection if collision found.											
cert-id-validation	Enable/disable cross validation of peer ID and the identity in the peer's certificate as specified in RFC 4945.	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable cross validation of peer ID and the identity in the peer's certificate as specified in RFC 4945.</td></tr><tr><td><i>disable</i></td><td>Disable cross validation of peer ID and the identity in the peer's certificate as specified in RFC 4945.</td></tr></table>	Option	Description	<i>enable</i>	Enable cross validation of peer ID and the identity in the peer's certificate as specified in RFC 4945.	<i>disable</i>	Disable cross validation of peer ID and the identity in the peer's certificate as specified in RFC 4945.					
	Option	Description										
	<i>enable</i>	Enable cross validation of peer ID and the identity in the peer's certificate as specified in RFC 4945.										
<i>disable</i>	Disable cross validation of peer ID and the identity in the peer's certificate as specified in RFC 4945.											
network-overlay	Enable/disable network overlays.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable network overlays.</td></tr><tr><td><i>enable</i></td><td>Enable network overlays.</td></tr></table>	Option	Description	<i>disable</i>	Disable network overlays.	<i>enable</i>	Enable network overlays.					
	Option	Description										
	<i>disable</i>	Disable network overlays.										
<i>enable</i>	Enable network overlays.											
network-id	VPN gateway network ID.	integer	Minimum value: 0 Maximum value: 255	0								
dev-id-notification	Enable/disable device ID notification.	option	-	disable								

Parameter	Description	Type	Size	Default						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable device ID notification.</td></tr><tr><td><i>enable</i></td><td>Enable device ID notification.</td></tr></table>				Option	Description	<i>disable</i>	Disable device ID notification.	<i>enable</i>	Enable device ID notification.
	Option	Description								
	<i>disable</i>	Disable device ID notification.								
<i>enable</i>	Enable device ID notification.									
dev-id	Device ID carried by the device ID notification.	string	Maximum length: 63							
loopback-asmroute	Enable/disable asymmetric routing for IKE traffic on loopback interface.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Allow ingress/egress IKE traffic to be routed over different interfaces.</td></tr><tr><td><i>disable</i></td><td>Ingress/egress IKE traffic must be routed over the same interface.</td></tr></table>				Option	Description	<i>enable</i>	Allow ingress/egress IKE traffic to be routed over different interfaces.	<i>disable</i>	Ingress/egress IKE traffic must be routed over the same interface.
	Option	Description								
	<i>enable</i>	Allow ingress/egress IKE traffic to be routed over different interfaces.								
<i>disable</i>	Ingress/egress IKE traffic must be routed over the same interface.									
link-cost	VPN tunnel underlay link cost.	integer	Minimum value: 0 Maximum value: 255	0						
kms	Key Management Services server.	string	Maximum length: 35							

config vpn ipsec phase2-interface

Configure VPN autokey tunnel.

```

config vpn ipsec phase2-interface
  Description: Configure VPN autokey tunnel.
  edit <name>
    set phaselname {string}
    set proposal {option1}, {option2}, ...
    set dhgrp {option1}, {option2}, ...
    set replay [enable|disable]
    set keepalive [enable|disable]
    set auto-negotiate [enable|disable]
    set add-route [phase1|enable|...]
    set inbound-dscp-copy [phase1|enable|...]
    set auto-discovery-sender [phase1|enable|...]
    set auto-discovery-forwarder [phase1|enable|...]
    set keylifeseconds {integer}
    set keylifekbs {integer}
    set keylife-type [seconds|kbs|...]
    set single-source [enable|disable]
    set route-overlap [use-old|use-new|...]
    set comments {var-string}
    set protocol {integer}
    set src-name {string}
    set src-name6 {string}
  
```

```

set src-addr-type [subnet|range|...]
set src-start-ip {ipv4-address-any}
set src-start-ip6 {ipv6-address}
set src-end-ip {ipv4-address-any}
set src-end-ip6 {ipv6-address}
set src-subnet {ipv4-classnet-any}
set src-subnet6 {ipv6-prefix}
set src-port {integer}
set dst-name {string}
set dst-name6 {string}
set dst-addr-type [subnet|range|...]
set dst-start-ip {ipv4-address-any}
set dst-start-ip6 {ipv6-address}
set dst-end-ip {ipv4-address-any}
set dst-end-ip6 {ipv6-address}
set dst-subnet {ipv4-classnet-any}
set dst-subnet6 {ipv6-prefix}
set dst-port {integer}

```

```

next

```

```

end

```

config vpn ipsec phase2-interface

Parameter	Description	Type	Size	Default																								
name	IPsec tunnel name.	string	Maximum length: 35																									
phase1name	Phase 1 determines the options required for phase 2.	string	Maximum length: 15																									
proposal	Phase2 proposal.	option	-																									
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>null-md5</i></td><td>null-md5</td></tr><tr><td><i>null-sha1</i></td><td>null-sha1</td></tr><tr><td><i>null-sha256</i></td><td>null-sha256</td></tr><tr><td><i>null-sha384</i></td><td>null-sha384</td></tr><tr><td><i>null-sha512</i></td><td>null-sha512</td></tr><tr><td><i>des-null</i></td><td>des-null</td></tr><tr><td><i>des-md5</i></td><td>des-md5</td></tr><tr><td><i>des-sha1</i></td><td>des-sha1</td></tr><tr><td><i>des-sha256</i></td><td>des-sha256</td></tr><tr><td><i>des-sha384</i></td><td>des-sha384</td></tr><tr><td><i>des-sha512</i></td><td>des-sha512</td></tr></table>				Option	Description	<i>null-md5</i>	null-md5	<i>null-sha1</i>	null-sha1	<i>null-sha256</i>	null-sha256	<i>null-sha384</i>	null-sha384	<i>null-sha512</i>	null-sha512	<i>des-null</i>	des-null	<i>des-md5</i>	des-md5	<i>des-sha1</i>	des-sha1	<i>des-sha256</i>	des-sha256	<i>des-sha384</i>	des-sha384	<i>des-sha512</i>	des-sha512
Option	Description																											
<i>null-md5</i>	null-md5																											
<i>null-sha1</i>	null-sha1																											
<i>null-sha256</i>	null-sha256																											
<i>null-sha384</i>	null-sha384																											
<i>null-sha512</i>	null-sha512																											
<i>des-null</i>	des-null																											
<i>des-md5</i>	des-md5																											
<i>des-sha1</i>	des-sha1																											
<i>des-sha256</i>	des-sha256																											
<i>des-sha384</i>	des-sha384																											
<i>des-sha512</i>	des-sha512																											

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>3des-null</i>	3des-null		
	<i>3des-md5</i>	3des-md5		
	<i>3des-sha1</i>	3des-sha1		
	<i>3des-sha256</i>	3des-sha256		
	<i>3des-sha384</i>	3des-sha384		
	<i>3des-sha512</i>	3des-sha512		
	<i>aes128-null</i>	aes128-null		
	<i>aes128-md5</i>	aes128-md5		
	<i>aes128-sha1</i>	aes128-sha1		
	<i>aes128-sha256</i>	aes128-sha256		
	<i>aes128-sha384</i>	aes128-sha384		
	<i>aes128-sha512</i>	aes128-sha512		
	<i>aes128gcm</i>	aes128gcm		
	<i>aes192-null</i>	aes192-null		
	<i>aes192-md5</i>	aes192-md5		
	<i>aes192-sha1</i>	aes192-sha1		
	<i>aes192-sha256</i>	aes192-sha256		
	<i>aes192-sha384</i>	aes192-sha384		
	<i>aes192-sha512</i>	aes192-sha512		
	<i>aes256-null</i>	aes256-null		
	<i>aes256-md5</i>	aes256-md5		
	<i>aes256-sha1</i>	aes256-sha1		
	<i>aes256-sha256</i>	aes256-sha256		
	<i>aes256-sha384</i>	aes256-sha384		
	<i>aes256-sha512</i>	aes256-sha512		
	<i>aes256gcm</i>	aes256gcm		
	<i>chacha20poly1305</i>	chacha20poly1305		
	<i>aria128-null</i>	aria128-null		
	<i>aria128-md5</i>	aria128-md5		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>aria128-sha1</i>	aria128-sha1		
	<i>aria128-sha256</i>	aria128-sha256		
	<i>aria128-sha384</i>	aria128-sha384		
	<i>aria128-sha512</i>	aria128-sha512		
	<i>aria192-null</i>	aria192-null		
	<i>aria192-md5</i>	aria192-md5		
	<i>aria192-sha1</i>	aria192-sha1		
	<i>aria192-sha256</i>	aria192-sha256		
	<i>aria192-sha384</i>	aria192-sha384		
	<i>aria192-sha512</i>	aria192-sha512		
	<i>aria256-null</i>	aria256-null		
	<i>aria256-md5</i>	aria256-md5		
	<i>aria256-sha1</i>	aria256-sha1		
	<i>aria256-sha256</i>	aria256-sha256		
	<i>aria256-sha384</i>	aria256-sha384		
	<i>aria256-sha512</i>	aria256-sha512		
	<i>seed-null</i>	seed-null		
	<i>seed-md5</i>	seed-md5		
	<i>seed-sha1</i>	seed-sha1		
	<i>seed-sha256</i>	seed-sha256		
	<i>seed-sha384</i>	seed-sha384		
	<i>seed-sha512</i>	seed-sha512		
dhgrp	Phase2 DH group.	option	-	14
	Option	Description		
	1	DH Group 1.		
	2	DH Group 2.		
	5	DH Group 5.		
	14	DH Group 14.		

Parameter	Description	Type	Size	Default																												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>15</td><td>DH Group 15.</td></tr><tr><td>16</td><td>DH Group 16.</td></tr><tr><td>17</td><td>DH Group 17.</td></tr><tr><td>18</td><td>DH Group 18.</td></tr><tr><td>19</td><td>DH Group 19.</td></tr><tr><td>20</td><td>DH Group 20.</td></tr><tr><td>21</td><td>DH Group 21.</td></tr><tr><td>27</td><td>DH Group 27.</td></tr><tr><td>28</td><td>DH Group 28.</td></tr><tr><td>29</td><td>DH Group 29.</td></tr><tr><td>30</td><td>DH Group 30.</td></tr><tr><td>31</td><td>DH Group 31.</td></tr><tr><td>32</td><td>DH Group 32.</td></tr></table>	Option	Description	15	DH Group 15.	16	DH Group 16.	17	DH Group 17.	18	DH Group 18.	19	DH Group 19.	20	DH Group 20.	21	DH Group 21.	27	DH Group 27.	28	DH Group 28.	29	DH Group 29.	30	DH Group 30.	31	DH Group 31.	32	DH Group 32.			
	Option	Description																														
	15	DH Group 15.																														
	16	DH Group 16.																														
	17	DH Group 17.																														
	18	DH Group 18.																														
	19	DH Group 19.																														
	20	DH Group 20.																														
	21	DH Group 21.																														
	27	DH Group 27.																														
	28	DH Group 28.																														
	29	DH Group 29.																														
	30	DH Group 30.																														
	31	DH Group 31.																														
	32	DH Group 32.																														
replay	Enable/disable replay detection.	option	-	enable																												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable setting.</td></tr><tr><td>disable</td><td>Disable setting.</td></tr></table>	Option	Description	enable	Enable setting.	disable	Disable setting.																									
	Option	Description																														
	enable	Enable setting.																														
disable	Disable setting.																															
keepalive	Enable/disable keep alive.	option	-	disable																												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable setting.</td></tr><tr><td>disable</td><td>Disable setting.</td></tr></table>	Option	Description	enable	Enable setting.	disable	Disable setting.																									
	Option	Description																														
	enable	Enable setting.																														
disable	Disable setting.																															
auto-negotiate	Enable/disable IPsec SA auto-negotiation.	option	-	disable																												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable setting.</td></tr><tr><td>disable</td><td>Disable setting.</td></tr></table>	Option	Description	enable	Enable setting.	disable	Disable setting.																									
	Option	Description																														
	enable	Enable setting.																														
disable	Disable setting.																															
add-route	Enable/disable automatic route addition.	option	-	phase1																												

Parameter	Description	Type	Size	Default								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>phase1</i></td><td>Add route according to phase1 add-route setting.</td></tr><tr><td><i>enable</i></td><td>Add route for remote proxy ID.</td></tr><tr><td><i>disable</i></td><td>Do not add route for remote proxy ID.</td></tr></table>	Option	Description	<i>phase1</i>	Add route according to phase1 add-route setting.	<i>enable</i>	Add route for remote proxy ID.	<i>disable</i>	Do not add route for remote proxy ID.			
	Option	Description										
	<i>phase1</i>	Add route according to phase1 add-route setting.										
	<i>enable</i>	Add route for remote proxy ID.										
<i>disable</i>	Do not add route for remote proxy ID.											
inbound-dscp-copy	Enable/disable copying of the DSCP in the ESP header to the inner IP header.	option	-	phase1								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>phase1</i></td><td>copy the DCSP in the ESP header to the inner IP Header according to the phase1 inbound_dscp_copy setting.</td></tr><tr><td><i>enable</i></td><td>Enable copying of the DSCP in the ESP header to the inner IP header.</td></tr><tr><td><i>disable</i></td><td>Disable copying of the DSCP in the ESP header to the inner IP header.</td></tr></table>	Option	Description	<i>phase1</i>	copy the DCSP in the ESP header to the inner IP Header according to the phase1 inbound_dscp_copy setting.	<i>enable</i>	Enable copying of the DSCP in the ESP header to the inner IP header.	<i>disable</i>	Disable copying of the DSCP in the ESP header to the inner IP header.			
	Option	Description										
	<i>phase1</i>	copy the DCSP in the ESP header to the inner IP Header according to the phase1 inbound_dscp_copy setting.										
	<i>enable</i>	Enable copying of the DSCP in the ESP header to the inner IP header.										
<i>disable</i>	Disable copying of the DSCP in the ESP header to the inner IP header.											
auto-discovery-sender	Enable/disable sending short-cut messages.	option	-	phase1								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>phase1</i></td><td>Send short-cut messages according to the phase1 auto-discovery-sender setting.</td></tr><tr><td><i>enable</i></td><td>Enable sending auto-discovery short-cut messages.</td></tr><tr><td><i>disable</i></td><td>Disable sending auto-discovery short-cut messages.</td></tr></table>	Option	Description	<i>phase1</i>	Send short-cut messages according to the phase1 auto-discovery-sender setting.	<i>enable</i>	Enable sending auto-discovery short-cut messages.	<i>disable</i>	Disable sending auto-discovery short-cut messages.			
	Option	Description										
	<i>phase1</i>	Send short-cut messages according to the phase1 auto-discovery-sender setting.										
	<i>enable</i>	Enable sending auto-discovery short-cut messages.										
<i>disable</i>	Disable sending auto-discovery short-cut messages.											
auto-discovery-forwarder	Enable/disable forwarding short-cut messages.	option	-	phase1								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>phase1</i></td><td>Forward short-cut messages according to the phase1 auto-discovery-forwarder setting.</td></tr><tr><td><i>enable</i></td><td>Enable forwarding auto-discovery short-cut messages.</td></tr><tr><td><i>disable</i></td><td>Disable forwarding auto-discovery short-cut messages.</td></tr></table>	Option	Description	<i>phase1</i>	Forward short-cut messages according to the phase1 auto-discovery-forwarder setting.	<i>enable</i>	Enable forwarding auto-discovery short-cut messages.	<i>disable</i>	Disable forwarding auto-discovery short-cut messages.			
	Option	Description										
	<i>phase1</i>	Forward short-cut messages according to the phase1 auto-discovery-forwarder setting.										
	<i>enable</i>	Enable forwarding auto-discovery short-cut messages.										
<i>disable</i>	Disable forwarding auto-discovery short-cut messages.											
keylifeseconds	Phase2 key life in time in seconds (120 - 172800).	integer	Minimum value: 120 Maximum value: 172800	43200								

Parameter	Description	Type	Size	Default								
keylifekbs	Phase2 key life in number of kilobytes of traffic (5120 - 4294967295).	integer	Minimum value: 5120 Maximum value: 4294967295	5120								
keylife-type	Keylife type.	option	-	seconds								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>seconds</td><td>Key life in seconds.</td></tr><tr><td>kbs</td><td>Key life in kilobytes.</td></tr><tr><td>both</td><td>Key life both.</td></tr></table>	Option	Description	seconds	Key life in seconds.	kbs	Key life in kilobytes.	both	Key life both.			
Option	Description											
seconds	Key life in seconds.											
kbs	Key life in kilobytes.											
both	Key life both.											
single-source	Enable/disable single source IP restriction.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Only single source IP will be accepted.</td></tr><tr><td>disable</td><td>Source IP range will be accepted.</td></tr></table>	Option	Description	enable	Only single source IP will be accepted.	disable	Source IP range will be accepted.					
Option	Description											
enable	Only single source IP will be accepted.											
disable	Source IP range will be accepted.											
route-overlap	Action for overlapping routes.	option	-	use-new								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>use-old</td><td>Use the old route and do not add the new route.</td></tr><tr><td>use-new</td><td>Delete the old route and add the new route.</td></tr><tr><td>allow</td><td>Allow overlapping routes.</td></tr></table>	Option	Description	use-old	Use the old route and do not add the new route.	use-new	Delete the old route and add the new route.	allow	Allow overlapping routes.			
Option	Description											
use-old	Use the old route and do not add the new route.											
use-new	Delete the old route and add the new route.											
allow	Allow overlapping routes.											
comments	Comment.	var-string	Maximum length: 255									
protocol	Quick mode protocol selector (1 - 255 or 0 for all).	integer	Minimum value: 0 Maximum value: 255	0								
src-name	Local proxy ID name.	string	Maximum length: 79									
src-name6	Local proxy ID name.	string	Maximum length: 79									
src-addr-type	Local proxy ID type.	option	-	subnet								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>subnet</td><td>IPv4 subnet.</td></tr></table>	Option	Description	subnet	IPv4 subnet.							
Option	Description											
subnet	IPv4 subnet.											

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>range</i>	IPv4 range.		
	<i>ip</i>	IPv4 IP.		
	<i>name</i>	IPv4 firewall address or group name.		
	<i>subnet6</i>	IPv6 subnet.		
	<i>range6</i>	IPv6 range.		
	<i>ip6</i>	IPv6 IP.		
	<i>name6</i>	IPv6 firewall address or group name.		
src-start-ip	Local proxy ID start.	ipv4-address-any	Not Specified	0.0.0.0
src-start-ip6	Local proxy ID IPv6 start.	ipv6-address	Not Specified	::
src-end-ip	Local proxy ID end.	ipv4-address-any	Not Specified	0.0.0.0
src-end-ip6	Local proxy ID IPv6 end.	ipv6-address	Not Specified	::
src-subnet	Local proxy ID subnet.	ipv4-classnet-any	Not Specified	0.0.0.0 0.0.0.0
src-subnet6	Local proxy ID IPv6 subnet.	ipv6-prefix	Not Specified	::/0
src-port	Quick mode source port (1 - 65535 or 0 for all).	integer	Minimum value: 0 Maximum value: 65535	0
dst-name	Remote proxy ID name.	string	Maximum length: 79	
dst-name6	Remote proxy ID name.	string	Maximum length: 79	
dst-addr-type	Remote proxy ID type.	option	-	subnet
	Option	Description		
	<i>subnet</i>	IPv4 subnet.		
	<i>range</i>	IPv4 range.		
	<i>ip</i>	IPv4 IP.		
	<i>name</i>	IPv4 firewall address or group name.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>subnet6</i>	IPv6 subnet.		
	<i>range6</i>	IPv6 range.		
	<i>ip6</i>	IPv6 IP.		
	<i>name6</i>	IPv6 firewall address or group name.		
dst-start-ip	Remote proxy ID IPv4 start.	ipv4-address-any	Not Specified	0.0.0.0
dst-start-ip6	Remote proxy ID IPv6 start.	ipv6-address	Not Specified	::
dst-end-ip	Remote proxy ID IPv4 end.	ipv4-address-any	Not Specified	0.0.0.0
dst-end-ip6	Remote proxy ID IPv6 end.	ipv6-address	Not Specified	::
dst-subnet	Remote proxy ID IPv4 subnet.	ipv4-classnet-any	Not Specified	0.0.0.0 0.0.0.0
dst-subnet6	Remote proxy ID IPv6 subnet.	ipv6-prefix	Not Specified	::/0
dst-port	Quick mode destination port (1 - 65535 or 0 for all).	integer	Minimum value: 0 Maximum value: 65535	0

config vpn qkd

Configure Quantum Key Distribution servers

```

config vpn qkd
    Description: Configure Quantum Key Distribution servers
    edit <name>
        set server {string}
        set port {integer}
        set id {string}
        set peer {string}
        set certificate <name1>, <name2>, ...
        set comment {var-string}
    next
end

```

config vpn qkd

Parameter	Description	Type	Size	Default
name	Quantum Key Distribution configuration name.	string	Maximum length: 35	
server	IPv4, IPv6 or DNS address of the KME.	string	Maximum length: 63	
port	Port to connect to on the KME.	integer	Minimum value: 1 Maximum value: 65535	0
id	Quantum Key Distribution ID assigned by the KME.	string	Maximum length: 291	
peer	Authenticate Quantum Key Device's certificate with the peer/peergrp.	string	Maximum length: 35	
certificate <name>	Names of up to 4 certificates to offer to the KME. Certificate name.	string	Maximum length: 79	
comment	Comment.	var-string	Maximum length: 255	

waf

This section includes syntax for the following commands:

- [config waf main-class on page 1215](#)
- [config waf profile on page 1215](#)
- [config waf signature on page 1240](#)
- [config waf sub-class on page 1240](#)

config waf main-class

Hidden table for datasource.

```
config waf main-class
  Description: Hidden table for datasource.
  edit <id>
    set name {string}
  next
end
```

config waf main-class

Parameter	Description	Type	Size	Default
name	Main signature class name.	string	Maximum length: 127	
id	Main signature class ID.	integer	Minimum value: 0 Maximum value: 4294967295	0

config waf profile

Configure Web application firewall configuration.

```
config waf profile
  Description: Configure Web application firewall configuration.
  edit <name>
    set external [disable|enable]
    set extended-log [enable|disable]
    config signature
      Description: WAF signatures.
```

```

config main-class
    Description: Main signature class.
    edit <id>
        set status [enable|disable]
        set action [allow|block|...]
        set log [enable|disable]
        set severity [high|medium|...]
    next
end
set disabled-sub-class <id1>, <id2>, ...
set disabled-signature <id1>, <id2>, ...
set credit-card-detection-threshold {integer}
config custom-signature
    Description: Custom signature.
    edit <name>
        set status [enable|disable]
        set action [allow|block|...]
        set log [enable|disable]
        set severity [high|medium|...]
        set direction [request|response]
        set case-sensitivity [disable|enable]
        set pattern {string}
        set target {option1}, {option2}, ...
    next
end
end
config constraint
    Description: WAF HTTP protocol restrictions.
    config header-length
        Description: HTTP header length in request.
        set status [enable|disable]
        set length {integer}
        set action [allow|block]
        set log [enable|disable]
        set severity [high|medium|...]
    end
    config content-length
        Description: HTTP content length in request.
        set status [enable|disable]
        set length {integer}
        set action [allow|block]
        set log [enable|disable]
        set severity [high|medium|...]
    end
    config param-length
        Description: Maximum length of parameter in URL, HTTP POST request or HTTP
body.
        set status [enable|disable]
        set length {integer}
        set action [allow|block]
        set log [enable|disable]
        set severity [high|medium|...]
    end
    config line-length
        Description: HTTP line length in request.
        set status [enable|disable]

```

```

        set length {integer}
        set action [allow|block]
        set log [enable|disable]
        set severity [high|medium|...]
    end
    config url-param-length
        Description: Maximum length of parameter in URL.
        set status [enable|disable]
        set length {integer}
        set action [allow|block]
        set log [enable|disable]
        set severity [high|medium|...]
    end
    config version
        Description: Enable/disable HTTP version check.
        set status [enable|disable]
        set action [allow|block]
        set log [enable|disable]
        set severity [high|medium|...]
    end
    config method
        Description: Enable/disable HTTP method check.
        set status [enable|disable]
        set action [allow|block]
        set log [enable|disable]
        set severity [high|medium|...]
    end
    config hostname
        Description: Enable/disable hostname check.
        set status [enable|disable]
        set action [allow|block]
        set log [enable|disable]
        set severity [high|medium|...]
    end
    config malformed
        Description: Enable/disable malformed HTTP request check.
        set status [enable|disable]
        set action [allow|block]
        set log [enable|disable]
        set severity [high|medium|...]
    end
    config max-cookie
        Description: Maximum number of cookies in HTTP request.
        set status [enable|disable]
        set max-cookie {integer}
        set action [allow|block]
        set log [enable|disable]
        set severity [high|medium|...]
    end
    config max-header-line
        Description: Maximum number of HTTP header line.
        set status [enable|disable]
        set max-header-line {integer}
        set action [allow|block]
        set log [enable|disable]
        set severity [high|medium|...]

```

```

end
config max-url-param
    Description: Maximum number of parameters in URL.
    set status [enable|disable]
    set max-url-param {integer}
    set action [allow|block]
    set log [enable|disable]
    set severity [high|medium|...]
end
config max-range-segment
    Description: Maximum number of range segments in HTTP range line.
    set status [enable|disable]
    set max-range-segment {integer}
    set action [allow|block]
    set log [enable|disable]
    set severity [high|medium|...]
end
config exception
    Description: HTTP constraint exception.
    edit <id>
        set pattern {string}
        set regex [enable|disable]
        set address {string}
        set header-length [enable|disable]
        set content-length [enable|disable]
        set param-length [enable|disable]
        set line-length [enable|disable]
        set url-param-length [enable|disable]
        set version [enable|disable]
        set method [enable|disable]
        set hostname [enable|disable]
        set malformed [enable|disable]
        set max-cookie [enable|disable]
        set max-header-line [enable|disable]
        set max-url-param [enable|disable]
        set max-range-segment [enable|disable]
    next
end
end
config method
    Description: Method restriction.
    set status [enable|disable]
    set log [enable|disable]
    set severity [high|medium|...]
    set default-allowed-methods {option1}, {option2}, ...
    config method-policy
        Description: HTTP method policy.
        edit <id>
            set pattern {string}
            set regex [enable|disable]
            set address {string}
            set allowed-methods {option1}, {option2}, ...
        next
    end
end
config address-list

```

```

        Description: Address block and allow lists.
        set status [enable|disable]
        set blocked-log [enable|disable]
        set severity [high|medium|...]
        set trusted-address <name1>, <name2>, ...
        set blocked-address <name1>, <name2>, ...
    end
    config url-access
        Description: URL access list.
        edit <id>
            set address {string}
            set action [bypass|permit|...]
            set log [enable|disable]
            set severity [high|medium|...]
            config access-pattern
                Description: URL access pattern.
                edit <id>
                    set srcaddr {string}
                    set pattern {string}
                    set regex [enable|disable]
                    set negate [enable|disable]
                next
            end
        next
    end
    set comment {var-string}
next
end

```

config waf profile

Parameter	Description	Type	Size	Default
name	WAF Profile name.	string	Maximum length: 35	
external	Disable/Enable external HTTP Inspection.	option	-	disable
	Option Description			
	<i>disable</i>	Disable external inspection.		
	<i>enable</i>	Enable external inspection.		
extended-log	Enable/disable extended logging.	option	-	disable
	Option Description			
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
comment	Comment.	var-string	Maximum length: 1023	

config signature

Parameter	Description	Type	Size	Default
disabled-sub-class <id>	Disabled signature subclasses. Signature subclass ID.	integer	Minimum value: 0 Maximum value: 4294967295	
disabled-signature <id>	Disabled signatures. Signature ID.	integer	Minimum value: 0 Maximum value: 4294967295	
credit-card-detection-threshold	The minimum number of Credit cards to detect violation.	integer	Minimum value: 0 Maximum value: 128	3

config main-class

Parameter	Description	Type	Size	Default								
id	Main signature class ID.	integer	Minimum value: 0 Maximum value: 4294967295	0								
status	Status.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>				Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.		
	Option	Description										
	<i>enable</i>	Enable setting.										
<i>disable</i>	Disable setting.											
action	Action.	option	-	allow								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>allow</i></td><td>Allow.</td></tr><tr><td><i>block</i></td><td>Block.</td></tr><tr><td><i>erase</i></td><td>Erase credit card numbers.</td></tr></table>				Option	Description	<i>allow</i>	Allow.	<i>block</i>	Block.	<i>erase</i>	Erase credit card numbers.
	Option	Description										
	<i>allow</i>	Allow.										
	<i>block</i>	Block.										
<i>erase</i>	Erase credit card numbers.											
log	Enable/disable logging.	option	-	enable								

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
severity	Severity.	option	-	medium
	Option	Description		
	<i>high</i>	High severity.		
	<i>medium</i>	Medium severity.		
	<i>low</i>	Low severity.		

config custom-signature

Parameter	Description	Type	Size	Default
name	Signature name.	string	Maximum length: 35	
status	Status.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
action	Action.	option	-	allow
	Option	Description		
	<i>allow</i>	Allow.		
	<i>block</i>	Block.		
	<i>erase</i>	Erase credit card numbers.		
log	Enable/disable logging.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
severity	Severity.	option	-	medium

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>high</i>	High severity.		
	<i>medium</i>	Medium severity.		
	<i>low</i>	Low severity.		
direction	Traffic direction.	option	-	request
	Option	Description		
	<i>request</i>	Match HTTP request.		
	<i>response</i>	Match HTTP response.		
case-sensitivity	Case sensitivity in pattern.	option	-	disable
	Option	Description		
	<i>disable</i>	Case insensitive in pattern.		
	<i>enable</i>	Case sensitive in pattern.		
pattern	Match pattern.	string	Maximum length: 511	
target	Match HTTP target.	option	-	
	Option	Description		
	<i>arg</i>	HTTP arguments.		
	<i>arg-name</i>	Names of HTTP arguments.		
	<i>req-body</i>	HTTP request body.		
	<i>req-cookie</i>	HTTP request cookies.		
	<i>req-cookie-name</i>	HTTP request cookie names.		
	<i>req-filename</i>	HTTP request file name.		
	<i>req-header</i>	HTTP request headers.		
	<i>req-header-name</i>	HTTP request header names.		
	<i>req-raw-uri</i>	Raw URI of HTTP request.		
	<i>req-uri</i>	URI of HTTP request.		
	<i>resp-body</i>	HTTP response body.		
	<i>resp-hdr</i>	HTTP response headers.		
	<i>resp-status</i>	HTTP response status.		

config header-length

Parameter	Description	Type	Size	Default
status	Enable/disable the constraint.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
length	Length of HTTP header in bytes (0 to 2147483647).	integer	Minimum value: 0 Maximum value: 2147483647	8192
action	Action.	option	-	allow
	Option	Description		
	<i>allow</i>	Allow.		
	<i>block</i>	Block.		
log	Enable/disable logging.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
severity	Severity.	option	-	medium
	Option	Description		
	<i>high</i>	High severity.		
	<i>medium</i>	Medium severity.		
	<i>low</i>	Low severity.		

config content-length

Parameter	Description	Type	Size	Default
status	Enable/disable the constraint.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		

Parameter	Description	Type	Size	Default								
length	Length of HTTP content in bytes (0 to 2147483647).	integer	Minimum value: 0 Maximum value: 2147483647	67108864								
action	Action.	option	-	allow								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>allow</i></td><td>Allow.</td></tr><tr><td><i>block</i></td><td>Block.</td></tr></table>				Option	Description	<i>allow</i>	Allow.	<i>block</i>	Block.		
	Option	Description										
	<i>allow</i>	Allow.										
<i>block</i>	Block.											
log	Enable/disable logging.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>				Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.		
	Option	Description										
	<i>enable</i>	Enable setting.										
<i>disable</i>	Disable setting.											
severity	Severity.	option	-	medium								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>high</i></td><td>High severity.</td></tr><tr><td><i>medium</i></td><td>Medium severity.</td></tr><tr><td><i>low</i></td><td>Low severity.</td></tr></table>				Option	Description	<i>high</i>	High severity.	<i>medium</i>	Medium severity.	<i>low</i>	Low severity.
	Option	Description										
	<i>high</i>	High severity.										
	<i>medium</i>	Medium severity.										
<i>low</i>	Low severity.											

config param-length

Parameter	Description	Type	Size	Default						
status	Enable/disable the constraint.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>				Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.
	Option	Description								
	<i>enable</i>	Enable setting.								
<i>disable</i>	Disable setting.									
length	Maximum length of parameter in URL, HTTP POST request or HTTP body in bytes (0 to 2147483647).	integer	Minimum value: 0 Maximum value: 2147483647	8192						
action	Action.	option	-	allow						

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>allow</i>	Allow.		
	<i>block</i>	Block.		
log	Enable/disable logging.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
severity	Severity.	option	-	medium
	Option	Description		
	<i>high</i>	High severity.		
	<i>medium</i>	Medium severity.		
	<i>low</i>	Low severity.		

config line-length

Parameter	Description	Type	Size	Default
status	Enable/disable the constraint.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
length	Length of HTTP line in bytes (0 to 2147483647).	integer	Minimum value: 0 Maximum value: 2147483647	1024
action	Action.	option	-	allow
	Option	Description		
	<i>allow</i>	Allow.		
	<i>block</i>	Block.		
log	Enable/disable logging.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
severity	Severity.	option	-	medium
	Option	Description		
	<i>high</i>	High severity.		
	<i>medium</i>	Medium severity.		
	<i>low</i>	Low severity.		

config url-param-length

Parameter	Description	Type	Size	Default
status	Enable/disable the constraint.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
length	Maximum length of URL parameter in bytes (0 to 2147483647).	integer	Minimum value: 0 Maximum value: 2147483647	8192
action	Action.	option	-	allow
	Option	Description		
	<i>allow</i>	Allow.		
	<i>block</i>	Block.		
log	Enable/disable logging.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
severity	Severity.	option	-	medium

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>high</i>	High severity.		
	<i>medium</i>	Medium severity.		
	<i>low</i>	Low severity.		

config version

Parameter	Description	Type	Size	Default
status	Enable/disable the constraint.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
action	Action.	option	-	allow
	Option	Description		
	<i>allow</i>	Allow.		
	<i>block</i>	Block.		
log	Enable/disable logging.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
severity	Severity.	option	-	medium
	Option	Description		
	<i>high</i>	High severity.		
	<i>medium</i>	Medium severity.		
	<i>low</i>	Low severity.		

config method

Parameter	Description	Type	Size	Default
status	Enable/disable the constraint.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
action	Action.	option	-	allow
	Option	Description		
	<i>allow</i>	Allow.		
	<i>block</i>	Block.		
log	Enable/disable logging.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
severity	Severity.	option	-	medium
	Option	Description		
	<i>high</i>	High severity.		
	<i>medium</i>	Medium severity.		
	<i>low</i>	Low severity.		

config hostname

Parameter	Description	Type	Size	Default
status	Enable/disable the constraint.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
action	Action.	option	-	allow
	Option	Description		
	<i>allow</i>	Allow.		
	<i>block</i>	Block.		
log	Enable/disable logging.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
severity	Severity.	option	-	medium
	Option	Description		
	<i>high</i>	High severity.		
	<i>medium</i>	Medium severity.		
	<i>low</i>	Low severity.		

config malformed

Parameter	Description	Type	Size	Default
status	Enable/disable the constraint.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
action	Action.	option	-	allow
	Option	Description		
	<i>allow</i>	Allow.		
	<i>block</i>	Block.		
log	Enable/disable logging.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
severity	Severity.	option	-	medium
	Option	Description		
	<i>high</i>	High severity.		
	<i>medium</i>	Medium severity.		
	<i>low</i>	Low severity.		

config max-cookie

Parameter	Description	Type	Size	Default
status	Enable/disable the constraint.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
max-cookie	Maximum number of cookies in HTTP request (0 to 2147483647).	integer	Minimum value: 0 Maximum value: 2147483647	16
action	Action.	option	-	allow
	Option	Description		
	<i>allow</i>	Allow.		
	<i>block</i>	Block.		
log	Enable/disable logging.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
severity	Severity.	option	-	medium
	Option	Description		
	<i>high</i>	High severity.		
	<i>medium</i>	Medium severity.		
	<i>low</i>	Low severity.		

config max-header-line

Parameter	Description	Type	Size	Default
status	Enable/disable the constraint.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		

Parameter	Description	Type	Size	Default
max-header-line	Maximum number HTTP header lines (0 to 2147483647).	integer	Minimum value: 0 Maximum value: 2147483647	32
action	Action.	option	-	allow
	Option		Description	
	<i>allow</i>	Allow.		
	<i>block</i>	Block.		
log	Enable/disable logging.	option	-	disable
	Option		Description	
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
severity	Severity.	option	-	medium
	Option		Description	
	<i>high</i>	High severity.		
	<i>medium</i>	Medium severity.		
	<i>low</i>	Low severity.		

config max-url-param

Parameter	Description	Type	Size	Default
status	Enable/disable the constraint.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
max-url-param	Maximum number of parameters in URL (0 to 2147483647).	integer	Minimum value: 0 Maximum value: 2147483647	16
action	Action.	option	-	allow

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>allow</i>	Allow.		
	<i>block</i>	Block.		
log	Enable/disable logging.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
severity	Severity.	option	-	medium
	Option	Description		
	<i>high</i>	High severity.		
	<i>medium</i>	Medium severity.		
	<i>low</i>	Low severity.		

config max-range-segment

Parameter	Description	Type	Size	Default
status	Enable/disable the constraint.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
max-range-segment	Maximum number of range segments in HTTP range line (0 to 2147483647).	integer	Minimum value: 0 Maximum value: 2147483647	5
action	Action.	option	-	allow
	Option	Description		
	<i>allow</i>	Allow.		
	<i>block</i>	Block.		
log	Enable/disable logging.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
severity	Severity.	option	-	medium
	Option	Description		
	<i>high</i>	High severity.		
	<i>medium</i>	Medium severity.		
	<i>low</i>	Low severity.		

config exception

Parameter	Description	Type	Size	Default
id	Exception ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
pattern	URL pattern.	string	Maximum length: 511	
regex	Enable/disable regular expression based pattern match.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
address	Host address.	string	Maximum length: 79	
header-length	HTTP header length in request.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
content-length	HTTP content length in request.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
param-length	Maximum length of parameter in URL, HTTP POST request or HTTP body.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
line-length	HTTP line length in request.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
url-param-length	Maximum length of parameter in URL.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
version	Enable/disable HTTP version check.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
method	Enable/disable HTTP method check.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
hostname	Enable/disable hostname check.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
malformed	Enable/disable malformed HTTP request check.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
max-cookie	Maximum number of cookies in HTTP request.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
max-header-line	Maximum number of HTTP header line.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
max-url-param	Maximum number of parameters in URL.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
max-range-segment	Maximum number of range segments in HTTP range line.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		

config method

Parameter	Description	Type	Size	Default
status	Status.	option	-	disable
	Option	Description		
	enable	Enable setting.		
	disable	Disable setting.		
log	Enable/disable logging.	option	-	disable
	Option	Description		
	enable	Enable setting.		
	disable	Disable setting.		
severity	Severity.	option	-	medium
	Option	Description		
	high	High severity		
	medium	medium severity		
	low	low severity		
default-allowed-methods	Methods.	option	-	
	Option	Description		
	get	HTTP GET method.		
	post	HTTP POST method.		
	put	HTTP PUT method.		
	head	HTTP HEAD method.		
	connect	HTTP CONNECT method.		
	trace	HTTP TRACE method.		
	options	HTTP OPTIONS method.		
	delete	HTTP DELETE method.		
others	Other HTTP methods.			

config method-policy

Parameter	Description	Type	Size	Default																				
id	HTTP method policy ID.	integer	Minimum value: 0 Maximum value: 4294967295	0																				
pattern	URL pattern.	string	Maximum length: 511																					
regex	Enable/disable regular expression based pattern match.	option	-	disable																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>				Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.														
	Option	Description																						
	<i>enable</i>	Enable setting.																						
<i>disable</i>	Disable setting.																							
address	Host address.	string	Maximum length: 79																					
allowed-methods	Allowed Methods.	option	-																					
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>get</i></td><td>HTTP GET method.</td></tr><tr><td><i>post</i></td><td>HTTP POST method.</td></tr><tr><td><i>put</i></td><td>HTTP PUT method.</td></tr><tr><td><i>head</i></td><td>HTTP HEAD method.</td></tr><tr><td><i>connect</i></td><td>HTTP CONNECT method.</td></tr><tr><td><i>trace</i></td><td>HTTP TRACE method.</td></tr><tr><td><i>options</i></td><td>HTTP OPTIONS method.</td></tr><tr><td><i>delete</i></td><td>HTTP DELETE method.</td></tr><tr><td><i>others</i></td><td>Other HTTP methods.</td></tr></table>				Option	Description	<i>get</i>	HTTP GET method.	<i>post</i>	HTTP POST method.	<i>put</i>	HTTP PUT method.	<i>head</i>	HTTP HEAD method.	<i>connect</i>	HTTP CONNECT method.	<i>trace</i>	HTTP TRACE method.	<i>options</i>	HTTP OPTIONS method.	<i>delete</i>	HTTP DELETE method.	<i>others</i>	Other HTTP methods.
	Option	Description																						
	<i>get</i>	HTTP GET method.																						
	<i>post</i>	HTTP POST method.																						
	<i>put</i>	HTTP PUT method.																						
	<i>head</i>	HTTP HEAD method.																						
	<i>connect</i>	HTTP CONNECT method.																						
	<i>trace</i>	HTTP TRACE method.																						
	<i>options</i>	HTTP OPTIONS method.																						
<i>delete</i>	HTTP DELETE method.																							
<i>others</i>	Other HTTP methods.																							

config address-list

Parameter	Description	Type	Size	Default
status	Status.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
blocked-log	Enable/disable logging on blocked addresses.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
severity	Severity.	option	-	medium
	Option	Description		
	<i>high</i>	High severity.		
	<i>medium</i>	Medium severity.		
	<i>low</i>	Low severity.		
trusted-address <name>	Trusted address. Address name.	string	Maximum length: 79	
blocked-address <name>	Blocked address. Address name.	string	Maximum length: 79	

config url-access

Parameter	Description	Type	Size	Default
id	URL access ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
address	Host address.	string	Maximum length: 79	
action	Action.	option	-	permit
	Option	Description		
	<i>bypass</i>	Allow the HTTP request, also bypass further WAF scanning.		
	<i>permit</i>	Allow the HTTP request, and continue further WAF scanning.		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>block</i>	Block HTTP request.		
log	Enable/disable logging.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
severity	Severity.	option	-	medium
	Option	Description		
	<i>high</i>	High severity.		
	<i>medium</i>	Medium severity.		
	<i>low</i>	Low severity.		

config access-pattern

Parameter	Description	Type	Size	Default
id	URL access pattern ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
srcaddr	Source address.	string	Maximum length: 79	
pattern	URL pattern.	string	Maximum length: 511	
regex	Enable/disable regular expression based pattern match.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
negate	Enable/disable match negation.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		

config waf signature

Hidden table for datasource.

```
config waf signature
  Description: Hidden table for datasource.
  edit <id>
    set desc {string}
  next
end
```

config waf signature

Parameter	Description	Type	Size	Default
desc	Signature description.	string	Maximum length: 511	
id	Signature ID.	integer	Minimum value: 0 Maximum value: 4294967295	0

config waf sub-class

Hidden table for datasource.

```
config waf sub-class
  Description: Hidden table for datasource.
  edit <id>
    set name {string}
  next
end
```

config waf sub-class

Parameter	Description	Type	Size	Default
name	Signature subclass name.	string	Maximum length: 127	
id	Signature subclass ID.	integer	Minimum value: 0 Maximum value: 4294967295	0

wanopt

This section includes syntax for the following commands:

- [config wanopt auth-group on page 1241](#)
- [config wanopt cache-service on page 1242](#)
- [config wanopt content-delivery-network-rule on page 1244](#)
- [config wanopt peer on page 1249](#)
- [config wanopt profile on page 1250](#)
- [config wanopt remote-storage on page 1257](#)
- [config wanopt settings on page 1258](#)

config wanopt auth-group

Configure WAN optimization authentication groups.

```
config wanopt auth-group
    Description: Configure WAN optimization authentication groups.
    edit <name>
        set auth-method [cert|psk]
        set psk {password}
        set cert {string}
        set peer-accept [any|defined|...]
        set peer {string}
    next
end
```

config wanopt auth-group

Parameter	Description	Type	Size	Default
name	Auth-group name.	string	Maximum length: 35	
auth-method	Select certificate or pre-shared key authentication for this authentication group.	option	-	cert
	Option		Description	
	<i>cert</i>		Certificate authentication.	
	<i>psk</i>		Pre-shared secret key authentication.	
psk	Pre-shared key used by the peers in this authentication group.	password	Not Specified	

Parameter	Description	Type	Size	Default								
cert	Name of certificate to identify this peer.	string	Maximum length: 35									
peer-accept	Determine if this auth group accepts, any peer, a list of defined peers, or just one peer.	option	-	any								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>any</i></td><td>Accept any peer that can authenticate with this auth group.</td></tr><tr><td><i>defined</i></td><td>Accept only the peers added with the wanopt peer command.</td></tr><tr><td><i>one</i></td><td>Accept the peer added to this auth group using the peer option.</td></tr></table>				Option	Description	<i>any</i>	Accept any peer that can authenticate with this auth group.	<i>defined</i>	Accept only the peers added with the wanopt peer command.	<i>one</i>	Accept the peer added to this auth group using the peer option.
	Option	Description										
	<i>any</i>	Accept any peer that can authenticate with this auth group.										
	<i>defined</i>	Accept only the peers added with the wanopt peer command.										
<i>one</i>	Accept the peer added to this auth group using the peer option.											
peer	If peer-accept is set to one, select the name of one peer to add to this authentication group. The peer must have added with the wanopt peer command.	string	Maximum length: 35									

config wanopt cache-service

Designate cache-service for wan-optimization and webcache.

```

config wanopt cache-service
    Description: Designate cache-service for wan-optimization and webcache.
    set prefer-scenario [balance|prefer-speed|...]
    set collaboration [enable|disable]
    set device-id {string}
    set acceptable-connections [any|peers]
    config dst-peer
        Description: Modify cache-service destination peer list.
        edit <device-id>
            set auth-type {integer}
            set encode-type {integer}
            set priority {integer}
            set ip {ipv4-address-any}
        next
    end
    config src-peer
        Description: Modify cache-service source peer list.
        edit <device-id>
            set auth-type {integer}
            set encode-type {integer}
            set priority {integer}
            set ip {ipv4-address-any}
        next
    end
end

```

config wanopt cache-service

Parameter	Description	Type	Size	Default
prefer-scenario	Set the preferred cache behavior towards the balance between latency and hit-ratio.	option	-	balance
	Option	Description		
	<i>balance</i>	Balance between speed and cache hit ratio.		
	<i>prefer-speed</i>	Prefer response speed at the expense of increased cache bypasses.		
	<i>prefer-cache</i>	Prefer improving hit-ratio through increasing latency tolerance.		
collaboration	Enable/disable cache-collaboration between cache-service clusters.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable cache cache-collaboration.		
	<i>disable</i>	Disable cache cache-collaboration.		
device-id	Set identifier for this cache device.	string	Maximum length: 35	default_dev_id
acceptable-connections	Set strategy when accepting cache collaboration connection.	option	-	any
	Option	Description		
	<i>any</i>	We can accept any cache-collaboration connection.		
	<i>peers</i>	We can only accept connections that are already in src-peers.		

config dst-peer

Parameter	Description	Type	Size	Default
device-id	Device ID of this peer.	string	Maximum length: 35	
auth-type	Set authentication type for this peer.	integer	Minimum value: 0 Maximum value: 255	0
encode-type	Set encode type for this peer.	integer	Minimum value: 0 Maximum value: 255	0

Parameter	Description	Type	Size	Default
priority	Set priority for this peer.	integer	Minimum value: 0 Maximum value: 255	1
ip	Set cluster IP address of this peer.	ipv4-address-any	Not Specified	0.0.0.0

config src-peer

Parameter	Description	Type	Size	Default
device-id	Device ID of this peer.	string	Maximum length: 35	
auth-type	Set authentication type for this peer.	integer	Minimum value: 0 Maximum value: 255	0
encode-type	Set encode type for this peer.	integer	Minimum value: 0 Maximum value: 255	0
priority	Set priority for this peer.	integer	Minimum value: 0 Maximum value: 255	1
ip	Set cluster IP address of this peer.	ipv4-address-any	Not Specified	0.0.0.0

config wanopt content-delivery-network-rule

Configure WAN optimization content delivery network rules.

```
config wanopt content-delivery-network-rule
    Description: Configure WAN optimization content delivery network rules.
    edit <name>
        set comment {var-string}
        set status [enable|disable]
        set host-domain-name-suffix <name1>, <name2>, ...
        set category [vcache|youtube]
        set request-cache-control [enable|disable]
        set response-cache-control [enable|disable]
        set response-expires [enable|disable]
        set updateserver [enable|disable]
```



```

config rules
  Description: WAN optimization content delivery network rule entries.
  edit <name>
    set match-mode [all|any]
    set skip-rule-mode [all|any]
    config match-entries
      Description: List of entries to match.
      edit <id>
        set target [path|parameter|...]
        set pattern <string1>, <string2>, ...
      next
    end
    config skip-entries
      Description: List of entries to skip.
      edit <id>
        set target [path|parameter|...]
        set pattern <string1>, <string2>, ...
      next
    end
    config content-id
      Description: Content ID settings.
      set target [path|parameter|...]
      set start-str {string}
      set start-skip {integer}
      set start-direction [forward|backward]
      set end-str {string}
      set end-skip {integer}
      set end-direction [forward|backward]
      set range-str {string}
    end
  next
end
next
end

```

config wanopt content-delivery-network-rule

Parameter	Description	Type	Size	Default
name	Name of table.	string	Maximum length: 35	
comment	Comment about this CDN-rule.	var-string	Maximum length: 255	
status	Enable/disable WAN optimization content delivery network rules.	option	-	enable
		Option	Description	
		enable	Enable setting.	
		disable	Disable setting.	

Parameter	Description	Type	Size	Default						
host-domain-name-suffix <name>	Suffix portion of the fully qualified domain name. For example, fortinet.com in "www.fortinet.com". Suffix portion of the fully qualified domain name.	string	Maximum length: 79							
category	Content delivery network rule category.	option	-	vcache						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>vcache</td><td>Vcache content delivery network.</td></tr><tr><td>youtube</td><td>Youtube content delivery network.</td></tr></table>	Option	Description	vcache	Vcache content delivery network.	youtube	Youtube content delivery network.			
Option	Description									
vcache	Vcache content delivery network.									
youtube	Youtube content delivery network.									
request-cache-control	Enable/disable HTTP request cache control.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable setting.</td></tr><tr><td>disable</td><td>Disable setting.</td></tr></table>	Option	Description	enable	Enable setting.	disable	Disable setting.			
Option	Description									
enable	Enable setting.									
disable	Disable setting.									
response-cache-control	Enable/disable HTTP response cache control.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable setting.</td></tr><tr><td>disable</td><td>Disable setting.</td></tr></table>	Option	Description	enable	Enable setting.	disable	Disable setting.			
Option	Description									
enable	Enable setting.									
disable	Disable setting.									
response-expires	Enable/disable HTTP response cache expires.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable setting.</td></tr><tr><td>disable</td><td>Disable setting.</td></tr></table>	Option	Description	enable	Enable setting.	disable	Disable setting.			
Option	Description									
enable	Enable setting.									
disable	Disable setting.									
updateserver	Enable/disable update server.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable setting.</td></tr><tr><td>disable</td><td>Disable setting.</td></tr></table>	Option	Description	enable	Enable setting.	disable	Disable setting.			
Option	Description									
enable	Enable setting.									
disable	Disable setting.									

config rules

Parameter	Description	Type	Size	Default						
name	WAN optimization content delivery network rule name.	string	Maximum length: 35							
match-mode	Match criteria for collecting content ID.	option	-	all						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>all</i></td><td>Must match all of the match entries.</td></tr><tr><td><i>any</i></td><td>Must match any of the match entries.</td></tr></table>				Option	Description	<i>all</i>	Must match all of the match entries.	<i>any</i>	Must match any of the match entries.
	Option	Description								
	<i>all</i>	Must match all of the match entries.								
<i>any</i>	Must match any of the match entries.									
skip-rule-mode	Skip mode when evaluating skip-rules.	option	-	all						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>all</i></td><td>Must match all skip entries.</td></tr><tr><td><i>any</i></td><td>Must match any skip entries.</td></tr></table>				Option	Description	<i>all</i>	Must match all skip entries.	<i>any</i>	Must match any skip entries.
	Option	Description								
	<i>all</i>	Must match all skip entries.								
<i>any</i>	Must match any skip entries.									

config match-entries

Parameter	Description	Type	Size	Default
id	Rule ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
target	Option in HTTP header or URL parameter to match.	option	-	path
	Option	Description		
	<i>path</i>	Match with the URL path.		
	<i>parameter</i>	Match with the URL parameters.		
	<i>referrer</i>	Match with the Referrer option in HTTP header.		
	<i>youtube-map</i>	Match Youtube content-id collection.		
	<i>youtube-id</i>	Match Youtube content-id.		
	<i>youku-id</i>	Match Youku content-id.		
pattern <string>	Pattern string for matching target (Referrer or URL pattern). For example, a, a*c, *a*, a*c*e, and *. Pattern strings.	string	Maximum length: 79	

config skip-entries

Parameter	Description	Type	Size	Default
id	Rule ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
target	Option in HTTP header or URL parameter to match.	option	-	path
	Option	Description		
	<i>path</i>	Match with the URL path.		
	<i>parameter</i>	Match with the URL parameters.		
	<i>referrer</i>	Match with the Referrer option in HTTP header.		
	<i>youtube-map</i>	Match Youtube content-id collection.		
	<i>youtube-id</i>	Match Youtube content-id.		
	<i>youku-id</i>	Match Youku content-id.		
pattern <string>	Pattern string for matching target (Referrer or URL pattern). For example, a, a*c, *a*, a*c*e, and *. Pattern strings.	string	Maximum length: 79	

config content-id

Parameter	Description	Type	Size	Default
target	Option in HTTP header or URL parameter to match.	option	-	path
	Option	Description		
	path	Match with the URL path.		
	parameter	Match with the URL parameters.		
	referrer	Match with the Referrer option in HTTP header.		
	youtube-map	Match Youtube content-id collection.		
	youtube-id	Match Youtube content-id.		
	youku-id	Match Youku content-id.		
	hls-manifest	Match with HLS manifest.		
	dash-manifest	Match with DASH manifest.		
	hls-fragment	Match HLS stream fragment.		
	dash-fragment	Match DASH stream fragment.		

Parameter	Description	Type	Size	Default						
start-str	String from which to start search.	string	Maximum length: 35							
start-skip	Number of characters in URL to skip after start-str has been matched.	integer	Minimum value: 0 Maximum value: 4294967295	0						
start-direction	Search direction from start-str match.	option	-	forward						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>forward</i></td><td>Forward direction.</td></tr><tr><td><i>backward</i></td><td>Backward direction.</td></tr></table>				Option	Description	<i>forward</i>	Forward direction.	<i>backward</i>	Backward direction.
Option	Description									
<i>forward</i>	Forward direction.									
<i>backward</i>	Backward direction.									
end-str	String from which to end search.	string	Maximum length: 35							
end-skip	Number of characters in URL to skip after end-str has been matched.	integer	Minimum value: 0 Maximum value: 4294967295	0						
end-direction	Search direction from end-str match.	option	-	forward						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>forward</i></td><td>Forward direction.</td></tr><tr><td><i>backward</i></td><td>Backward direction.</td></tr></table>				Option	Description	<i>forward</i>	Forward direction.	<i>backward</i>	Backward direction.
Option	Description									
<i>forward</i>	Forward direction.									
<i>backward</i>	Backward direction.									
range-str	Name of content ID within the start string and end string.	string	Maximum length: 35							

config wanopt peer

Configure WAN optimization peers.

```

config wanopt peer
    Description: Configure WAN optimization peers.
    edit <peer-host-id>
        set ip {ipv4-address-any}
    next
end

```

config wanopt peer

Parameter	Description	Type	Size	Default
peer-host-id	Peer host ID.	string	Maximum length: 35	
ip	Peer IP address.	ipv4-address-any	Not Specified	0.0.0.0

config wanopt profile

Configure WAN optimization profiles.

```
config wanopt profile
    Description: Configure WAN optimization profiles.
    edit <name>
        set transparent [enable|disable]
        set comments {var-string}
        set auth-group {string}
        config http
            Description: Enable/disable HTTP WAN Optimization and configure HTTP WAN
            Optimization features.
            set status [enable|disable]
            set secure-tunnel [enable|disable]
            set byte-caching [enable|disable]
            set ssl [enable|disable]
            set prefer-chunking [dynamic|fix]
            set protocol-opt [protocol|tcp]
            set tunnel-sharing [shared|express-shared|...]
        end
        config cifs
            Description: Enable/disable CIFS (Windows sharing) WAN Optimization and
            configure CIFS WAN Optimization features.
            set status [enable|disable]
            set secure-tunnel [enable|disable]
            set byte-caching [enable|disable]
            set prefer-chunking [dynamic|fix]
            set protocol-opt [protocol|tcp]
            set tunnel-sharing [shared|express-shared|...]
        end
        config mapi
            Description: Enable/disable MAPI email WAN Optimization and configure MAPI WAN
            Optimization features.
            set status [enable|disable]
            set secure-tunnel [enable|disable]
            set byte-caching [enable|disable]
            set tunnel-sharing [shared|express-shared|...]
        end
        config ftp
            Description: Enable/disable FTP WAN Optimization and configure FTP WAN
            Optimization features.
```

```

        set status [enable|disable]
        set secure-tunnel [enable|disable]
        set byte-caching [enable|disable]
        set prefer-chunking [dynamic|fix]
        set protocol-opt [protocol|tcp]
        set tunnel-sharing [shared|express-shared|...]
    end
    config tcp
        Description: Enable/disable TCP WAN Optimization and configure TCP WAN
        Optimization features.
        set status [enable|disable]
        set secure-tunnel [enable|disable]
        set byte-caching [enable|disable]
        set byte-caching-opt [mem-only|mem-disk]
        set tunnel-sharing [shared|express-shared|...]
        set port {user}
        set ssl [enable|disable]
        set ssl-port {user}
    end
next
end

```

config wanopt profile

Parameter	Description	Type	Size	Default
name	Profile name.	string	Maximum length: 35	
transparent	Enable/disable transparent mode.	option	-	enable
	Option	Description		
	<i>enable</i>	Determine if WAN Optimization changes client packet source addresses. Affects the routing configuration on the server network.		
	<i>disable</i>	Disable transparent mode. Client packets source addresses are changed to the source address of the FortiProxy internal interface. Similar to source NAT.		
comments	Comment.	var-string	Maximum length: 255	
auth-group	Optionally add an authentication group to restrict access to the WAN Optimization tunnel to peers in the authentication group.	string	Maximum length: 35	

config http

Parameter	Description	Type	Size	Default
status	Enable/disable WAN Optimization.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable WAN Optimization.		
	<i>disable</i>	Disable WAN Optimization.		
secure-tunnel	Enable/disable securing the WAN Opt tunnel using SSL. Secure and non-secure tunnels use the same TCP port (7810).	option	-	disable
	Option	Description		
	<i>enable</i>	Enable SSL-secured tunnelling.		
	<i>disable</i>	Disable SSL-secured tunnelling.		
byte-caching	Enable/disable byte-caching. Byte caching reduces the amount of traffic by caching file data sent across the WAN and in future serving it from the cache.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable byte-caching.		
	<i>disable</i>	Disable byte-caching.		
ssl	Enable/disable SSL/TLS offloading (hardware acceleration) for traffic in this tunnel.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable SSL/TLS offloading.		
	<i>disable</i>	Disable SSL/TLS offloading.		
prefer-chunking	Select dynamic or fixed-size data chunking for WAN Optimization.	option	-	fix
	Option	Description		
	<i>dynamic</i>	Select dynamic data chunking to help to detect persistent data chunks in a changed file or in an embedded unknown protocol.		
	<i>fix</i>	Select fixed data chunking.		
protocol-opt	Select protocol specific optimization or generic TCP optimization.	option	-	protocol
	Option	Description		
	<i>protocol</i>	Using protocol-specific optimization.		
	<i>tcp</i>	Using generic TCP optimization.		

Parameter	Description	Type	Size	Default								
tunnel-sharing	Tunnel sharing mode for aggressive/non-aggressive and/or interactive/non-interactive protocols.	option	-	private								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>shared</i></td><td>For profiles that accept nonaggressive and non-interactive protocols.</td></tr><tr><td><i>express-shared</i></td><td>For profiles that accept interactive protocols such as Telnet.</td></tr><tr><td><i>private</i></td><td>For profiles that accept aggressive protocols such as HTTP and FTP so that these aggressive protocols do not share tunnels with less-aggressive protocols.</td></tr></table>				Option	Description	<i>shared</i>	For profiles that accept nonaggressive and non-interactive protocols.	<i>express-shared</i>	For profiles that accept interactive protocols such as Telnet.	<i>private</i>	For profiles that accept aggressive protocols such as HTTP and FTP so that these aggressive protocols do not share tunnels with less-aggressive protocols.
Option	Description											
<i>shared</i>	For profiles that accept nonaggressive and non-interactive protocols.											
<i>express-shared</i>	For profiles that accept interactive protocols such as Telnet.											
<i>private</i>	For profiles that accept aggressive protocols such as HTTP and FTP so that these aggressive protocols do not share tunnels with less-aggressive protocols.											

config cifs

Parameter	Description	Type	Size	Default						
status	Enable/disable WAN Optimization.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable WAN Optimization.</td></tr><tr><td><i>disable</i></td><td>Disable WAN Optimization.</td></tr></table>	Option	Description	<i>enable</i>	Enable WAN Optimization.	<i>disable</i>	Disable WAN Optimization.			
Option	Description									
<i>enable</i>	Enable WAN Optimization.									
<i>disable</i>	Disable WAN Optimization.									
secure-tunnel	Enable/disable securing the WAN Opt tunnel using SSL. Secure and non-secure tunnels use the same TCP port (7810).	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable SSL-secured tunnelling.</td></tr><tr><td><i>disable</i></td><td>Disable SSL-secured tunnelling.</td></tr></table>	Option	Description	<i>enable</i>	Enable SSL-secured tunnelling.	<i>disable</i>	Disable SSL-secured tunnelling.			
Option	Description									
<i>enable</i>	Enable SSL-secured tunnelling.									
<i>disable</i>	Disable SSL-secured tunnelling.									
byte-caching	Enable/disable byte-caching. Byte caching reduces the amount of traffic by caching file data sent across the WAN and in future serving if from the cache.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable byte-caching.</td></tr><tr><td><i>disable</i></td><td>Disable byte-caching.</td></tr></table>	Option	Description	<i>enable</i>	Enable byte-caching.	<i>disable</i>	Disable byte-caching.			
Option	Description									
<i>enable</i>	Enable byte-caching.									
<i>disable</i>	Disable byte-caching.									
prefer-chunking	Select dynamic or fixed-size data chunking for WAN Optimization.	option	-	fix						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>dynamic</i></td><td>Select dynamic data chunking to help to detect persistent data chunks in a changed file or in an embedded unknown protocol.</td></tr></table>	Option	Description	<i>dynamic</i>	Select dynamic data chunking to help to detect persistent data chunks in a changed file or in an embedded unknown protocol.					
Option	Description									
<i>dynamic</i>	Select dynamic data chunking to help to detect persistent data chunks in a changed file or in an embedded unknown protocol.									

Parameter	Description	Type	Size	Default								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>fix</i></td><td>Select fixed data chunking.</td></tr></table>	Option	Description	<i>fix</i>	Select fixed data chunking.							
	Option	Description										
<i>fix</i>	Select fixed data chunking.											
protocol-opt	Select protocol specific optimization or generic TCP optimization.	option	-	protocol								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>protocol</i></td><td>Using protocol-specific optimization.</td></tr><tr><td><i>tcp</i></td><td>Using generic TCP optimization.</td></tr></table>	Option	Description	<i>protocol</i>	Using protocol-specific optimization.	<i>tcp</i>	Using generic TCP optimization.					
	Option	Description										
	<i>protocol</i>	Using protocol-specific optimization.										
<i>tcp</i>	Using generic TCP optimization.											
tunnel-sharing	Tunnel sharing mode for aggressive/non-aggressive and/or interactive/non-interactive protocols.	option	-	private								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>shared</i></td><td>For profiles that accept nonaggressive and non-interactive protocols.</td></tr><tr><td><i>express-shared</i></td><td>For profiles that accept interactive protocols such as Telnet.</td></tr><tr><td><i>private</i></td><td>For profiles that accept aggressive protocols such as HTTP and FTP so that these aggressive protocols do not share tunnels with less-aggressive protocols.</td></tr></table>	Option	Description	<i>shared</i>	For profiles that accept nonaggressive and non-interactive protocols.	<i>express-shared</i>	For profiles that accept interactive protocols such as Telnet.	<i>private</i>	For profiles that accept aggressive protocols such as HTTP and FTP so that these aggressive protocols do not share tunnels with less-aggressive protocols.			
	Option	Description										
	<i>shared</i>	For profiles that accept nonaggressive and non-interactive protocols.										
	<i>express-shared</i>	For profiles that accept interactive protocols such as Telnet.										
<i>private</i>	For profiles that accept aggressive protocols such as HTTP and FTP so that these aggressive protocols do not share tunnels with less-aggressive protocols.											

config mapi

Parameter	Description	Type	Size	Default						
status	Enable/disable WAN Optimization.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable WAN Optimization.</td></tr><tr><td><i>disable</i></td><td>Disable WAN Optimization.</td></tr></table>	Option	Description	<i>enable</i>	Enable WAN Optimization.	<i>disable</i>	Disable WAN Optimization.			
Option	Description									
<i>enable</i>	Enable WAN Optimization.									
<i>disable</i>	Disable WAN Optimization.									
secure-tunnel	Enable/disable securing the WAN Opt tunnel using SSL. Secure and non-secure tunnels use the same TCP port (7810).	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable SSL-secured tunnelling.</td></tr><tr><td><i>disable</i></td><td>Disable SSL-secured tunnelling.</td></tr></table>	Option	Description	<i>enable</i>	Enable SSL-secured tunnelling.	<i>disable</i>	Disable SSL-secured tunnelling.			
Option	Description									
<i>enable</i>	Enable SSL-secured tunnelling.									
<i>disable</i>	Disable SSL-secured tunnelling.									
byte-caching	Enable/disable byte-caching. Byte caching reduces the amount of traffic by caching file data sent across the WAN and in future serving if from the cache.	option	-	enable						

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable byte-caching.		
	<i>disable</i>	Disable byte-caching.		
tunnel-sharing	Tunnel sharing mode for aggressive/non-aggressive and/or interactive/non-interactive protocols.	option	-	private
	Option	Description		
	<i>shared</i>	For profiles that accept nonaggressive and non-interactive protocols.		
	<i>express-shared</i>	For profiles that accept interactive protocols such as Telnet.		
	<i>private</i>	For profiles that accept aggressive protocols such as HTTP and FTP so that these aggressive protocols do not share tunnels with less-aggressive protocols.		

config ftp

Parameter	Description	Type	Size	Default
status	Enable/disable WAN Optimization.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable WAN Optimization.		
	<i>disable</i>	Disable WAN Optimization.		
secure-tunnel	Enable/disable securing the WAN Opt tunnel using SSL. Secure and non-secure tunnels use the same TCP port (7810).	option	-	disable
	Option	Description		
	<i>enable</i>	Enable SSL-secured tunnelling.		
	<i>disable</i>	Disable SSL-secured tunnelling.		
byte-caching	Enable/disable byte-caching. Byte caching reduces the amount of traffic by caching file data sent across the WAN and in future serving if from the cache.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable byte-caching.		
	<i>disable</i>	Disable byte-caching.		
prefer-chunking	Select dynamic or fixed-size data chunking for WAN Optimization.	option	-	fix

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>dynamic</i>	Select dynamic data chunking to help to detect persistent data chunks in a changed file or in an embedded unknown protocol.		
	<i>fix</i>	Select fixed data chunking.		
protocol-opt	Select protocol specific optimization or generic TCP optimization.	option	-	protocol
	Option	Description		
	<i>protocol</i>	Using protocol-specific optimization.		
	<i>tcp</i>	Using generic TCP optimization.		
tunnel-sharing	Tunnel sharing mode for aggressive/non-aggressive and/or interactive/non-interactive protocols.	option	-	private
	Option	Description		
	<i>shared</i>	For profiles that accept nonaggressive and non-interactive protocols.		
	<i>express-shared</i>	For profiles that accept interactive protocols such as Telnet.		
	<i>private</i>	For profiles that accept aggressive protocols such as HTTP and FTP so that these aggressive protocols do not share tunnels with less-aggressive protocols.		

config tcp

Parameter	Description	Type	Size	Default
status	Enable/disable WAN Optimization.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable WAN Optimization.		
	<i>disable</i>	Disable WAN Optimization.		
secure-tunnel	Enable/disable securing the WAN Opt tunnel using SSL. Secure and non-secure tunnels use the same TCP port (7810).	option	-	disable
	Option	Description		
	<i>enable</i>	Enable SSL-secured tunnelling.		
	<i>disable</i>	Disable SSL-secured tunnelling.		

Parameter	Description	Type	Size	Default								
byte-caching	Enable/disable byte-caching. Byte caching reduces the amount of traffic by caching file data sent across the WAN and in future serving if from the cache.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable byte-caching.</td></tr><tr><td><i>disable</i></td><td>Disable byte-caching.</td></tr></table>	Option	Description	<i>enable</i>	Enable byte-caching.	<i>disable</i>	Disable byte-caching.					
Option	Description											
<i>enable</i>	Enable byte-caching.											
<i>disable</i>	Disable byte-caching.											
byte-caching-opt	Select whether TCP byte-caching uses system memory only or both memory and disk space.	option	-	mem-only								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>mem-only</i></td><td>Byte caching with memory only.</td></tr><tr><td><i>mem-disk</i></td><td>Byte caching with memory and disk.</td></tr></table>	Option	Description	<i>mem-only</i>	Byte caching with memory only.	<i>mem-disk</i>	Byte caching with memory and disk.					
Option	Description											
<i>mem-only</i>	Byte caching with memory only.											
<i>mem-disk</i>	Byte caching with memory and disk.											
tunnel-sharing	Tunnel sharing mode for aggressive/non-aggressive and/or interactive/non-interactive protocols.	option	-	private								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>shared</i></td><td>For profiles that accept nonaggressive and non-interactive protocols.</td></tr><tr><td><i>express-shared</i></td><td>For profiles that accept interactive protocols such as Telnet.</td></tr><tr><td><i>private</i></td><td>For profiles that accept aggressive protocols such as HTTP and FTP so that these aggressive protocols do not share tunnels with less-aggressive protocols.</td></tr></table>	Option	Description	<i>shared</i>	For profiles that accept nonaggressive and non-interactive protocols.	<i>express-shared</i>	For profiles that accept interactive protocols such as Telnet.	<i>private</i>	For profiles that accept aggressive protocols such as HTTP and FTP so that these aggressive protocols do not share tunnels with less-aggressive protocols.			
Option	Description											
<i>shared</i>	For profiles that accept nonaggressive and non-interactive protocols.											
<i>express-shared</i>	For profiles that accept interactive protocols such as Telnet.											
<i>private</i>	For profiles that accept aggressive protocols such as HTTP and FTP so that these aggressive protocols do not share tunnels with less-aggressive protocols.											
port	Port numbers or port number ranges for TCP. Only packets with a destination port number that matches this port number or range are accepted by this profile.	user	Not Specified									
ssl	Enable/disable SSL/TLS offloading (hardware acceleration) for traffic in this tunnel.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable SSL/TLS offloading.</td></tr><tr><td><i>disable</i></td><td>Disable SSL/TLS offloading.</td></tr></table>	Option	Description	<i>enable</i>	Enable SSL/TLS offloading.	<i>disable</i>	Disable SSL/TLS offloading.					
Option	Description											
<i>enable</i>	Enable SSL/TLS offloading.											
<i>disable</i>	Disable SSL/TLS offloading.											
ssl-port	Port numbers or port number ranges on which to expect HTTPS traffic for SSL/TLS offloading.	user	Not Specified									

config wanopt remote-storage

Configure a remote cache device as Web cache storage.

```

config wanopt remote-storage
    Description: Configure a remote cache device as Web cache storage.
    set status [disable|enable]
    set local-cache-id {string}
    set remote-cache-id {string}
    set remote-cache-ip {ipv4-address-any}
end

```

config wanopt remote-storage

Parameter	Description	Type	Size	Default						
status	Enable/disable using remote device as Web cache storage.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Use local disks as Web cache storage.</td></tr><tr><td><i>enable</i></td><td>Use a remote device as Web cache storage.</td></tr></table>				Option	Description	<i>disable</i>	Use local disks as Web cache storage.	<i>enable</i>	Use a remote device as Web cache storage.
	Option	Description								
	<i>disable</i>	Use local disks as Web cache storage.								
<i>enable</i>	Use a remote device as Web cache storage.									
local-cache-id	ID that this device uses to connect to the remote device.	string	Maximum length: 35							
remote-cache-id	ID of the remote device to which the device connects.	string	Maximum length: 35							
remote-cache-ip	IP address of the remote device to which the device connects.	ipv4-address-any	Not Specified	0.0.0.0						

config wanopt settings

Configure WAN optimization settings.

```

config wanopt settings
    Description: Configure WAN optimization settings.
    set host-id {string}
    set tunnel-ssl-algorithm [high|medium|...]
    set auto-detect-algorithm [simple|diff-req-resp]
    set tunnel-optimization [memory-usage|balanced|...]
end

```

config wanopt settings

Parameter	Description	Type	Size	Default
host-id	Local host ID (must also be entered in the remote FortiProxy's peer list).	string	Maximum length: 35	default-id

Parameter	Description	Type	Size	Default								
tunnel-ssl-algorithm	Relative strength of encryption algorithms accepted during tunnel negotiation.	option	-	high								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>high</td><td>High encryption. Allow only AES and ChaCha.</td></tr><tr><td>medium</td><td>Medium encryption. Allow AES, ChaCha, 3DES, and RC4.</td></tr><tr><td>low</td><td>Low encryption. Allow AES, ChaCha, 3DES, RC4, and DES.</td></tr></table>	Option	Description	high	High encryption. Allow only AES and ChaCha.	medium	Medium encryption. Allow AES, ChaCha, 3DES, and RC4.	low	Low encryption. Allow AES, ChaCha, 3DES, RC4, and DES.			
Option	Description											
high	High encryption. Allow only AES and ChaCha.											
medium	Medium encryption. Allow AES, ChaCha, 3DES, and RC4.											
low	Low encryption. Allow AES, ChaCha, 3DES, RC4, and DES.											
auto-detect-algorithm	Auto detection algorithms used in tunnel negotiations.	option	-	simple								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>simple</td><td>Use the same TCP option value in SYN/SYNACK packets. Backward compatible.</td></tr><tr><td>diff-req-resp</td><td>Use different TCP option values in SYN/SYNACK packets to avoid false positive detection.</td></tr></table>	Option	Description	simple	Use the same TCP option value in SYN/SYNACK packets. Backward compatible.	diff-req-resp	Use different TCP option values in SYN/SYNACK packets to avoid false positive detection.					
Option	Description											
simple	Use the same TCP option value in SYN/SYNACK packets. Backward compatible.											
diff-req-resp	Use different TCP option values in SYN/SYNACK packets to avoid false positive detection.											
tunnel-optimization	WANOpt tunnel optimization option.	option	-	balanced								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>memory-usage</td><td>Optimize tunnel for low system memory usage.</td></tr><tr><td>balanced</td><td>Optimize tunnel to balance between system memory usage and throughput.</td></tr><tr><td>throughput</td><td>Optimize tunnel for throughput.</td></tr></table>	Option	Description	memory-usage	Optimize tunnel for low system memory usage.	balanced	Optimize tunnel to balance between system memory usage and throughput.	throughput	Optimize tunnel for throughput.			
Option	Description											
memory-usage	Optimize tunnel for low system memory usage.											
balanced	Optimize tunnel to balance between system memory usage and throughput.											
throughput	Optimize tunnel for throughput.											

web-proxy

This section includes syntax for the following commands:

- [config web-proxy debug-url on page 1260](#)
- [config web-proxy dynamic-bypass on page 1261](#)
- [config web-proxy explicit-proxy on page 1262](#)
- [config web-proxy fast-fallback on page 1268](#)
- [config web-proxy forward-server-group on page 1272](#)
- [config web-proxy forward-server on page 1269](#)
- [config web-proxy global on page 1273](#)
- [config web-proxy implicit-proxy-rule on page 1278](#)
- [config web-proxy implicit-proxy-setting on page 1279](#)
- [config web-proxy isolator-server on page 1280](#)
- [config web-proxy pac-policy on page 1281](#)
- [config web-proxy profile on page 1282](#)
- [config web-proxy redirect-profile on page 1287](#)
- [config web-proxy url-list on page 1288](#)
- [config web-proxy url-match on page 1289](#)
- [config web-proxy wisp on page 1291](#)

config web-proxy debug-url

Configure debug URL addresses.

```
config web-proxy debug-url
    Description: Configure debug URL addresses.
    edit <name>
        set url-pattern {string}
        set status [enable|disable]
        set exact [enable|disable]
    next
end
```

config web-proxy debug-url

Parameter	Description	Type	Size	Default
name	Debug URL name.	string	Maximum length: 63	

Parameter	Description	Type	Size	Default						
url-pattern	URL exemption pattern.	string	Maximum length: 511							
status	Enable/disable this URL exemption.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable this URL exemption.</td></tr><tr><td><i>disable</i></td><td>Disable this URL exemption.</td></tr></table>	Option	Description	<i>enable</i>	Enable this URL exemption.	<i>disable</i>	Disable this URL exemption.			
Option	Description									
<i>enable</i>	Enable this URL exemption.									
<i>disable</i>	Disable this URL exemption.									
exact	Enable/disable matching the exact path.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable matching the exact path.</td></tr><tr><td><i>disable</i></td><td>Disable matching the exact path.</td></tr></table>	Option	Description	<i>enable</i>	Enable matching the exact path.	<i>disable</i>	Disable matching the exact path.			
Option	Description									
<i>enable</i>	Enable matching the exact path.									
<i>disable</i>	Disable matching the exact path.									

config web-proxy dynamic-bypass

Configure dynamic bypass settings.

```

config web-proxy dynamic-bypass
    Description: Configure dynamic bypass settings.
    set status [enable|disable]
    set errors {option1}, {option2}, ...
    set total-max {integer}
    set server-max {integer}
    set timeout {integer}
end

```

config web-proxy dynamic-bypass

Parameter	Description	Type	Size	Default						
status	Enable/disable dynamic bypass.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable dynamic bypass.</td></tr><tr><td><i>disable</i></td><td>Disable dynamic bypass.</td></tr></table>				Option	Description	<i>enable</i>	Enable dynamic bypass.	<i>disable</i>	Disable dynamic bypass.
	Option	Description								
	<i>enable</i>	Enable dynamic bypass.								
<i>disable</i>	Disable dynamic bypass.									
errors	Configure bypass errors.	option	-							
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>connect-error</i></td><td>Connect error.</td></tr></table>				Option	Description	<i>connect-error</i>	Connect error.		
	Option	Description								
<i>connect-error</i>	Connect error.									

Parameter	Description	Type	Size	Default																								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>receive-error</i></td><td>HTTP response is not received.</td></tr><tr><td><i>non-http</i></td><td>HTTP protocol is not detected.</td></tr><tr><td><i>400</i></td><td>HTTP response code is 400.</td></tr><tr><td><i>401</i></td><td>HTTP response code is 401.</td></tr><tr><td><i>403</i></td><td>HTTP response code is 403.</td></tr><tr><td><i>405</i></td><td>HTTP response code is 405.</td></tr><tr><td><i>406</i></td><td>HTTP response code is 406.</td></tr><tr><td><i>500</i></td><td>HTTP response code is 500.</td></tr><tr><td><i>502</i></td><td>HTTP response code is 502.</td></tr><tr><td><i>503</i></td><td>HTTP response code is 503.</td></tr><tr><td><i>504</i></td><td>HTTP response code is 504.</td></tr></table>	Option	Description	<i>receive-error</i>	HTTP response is not received.	<i>non-http</i>	HTTP protocol is not detected.	<i>400</i>	HTTP response code is 400.	<i>401</i>	HTTP response code is 401.	<i>403</i>	HTTP response code is 403.	<i>405</i>	HTTP response code is 405.	<i>406</i>	HTTP response code is 406.	<i>500</i>	HTTP response code is 500.	<i>502</i>	HTTP response code is 502.	<i>503</i>	HTTP response code is 503.	<i>504</i>	HTTP response code is 504.			
	Option	Description																										
	<i>receive-error</i>	HTTP response is not received.																										
	<i>non-http</i>	HTTP protocol is not detected.																										
	<i>400</i>	HTTP response code is 400.																										
	<i>401</i>	HTTP response code is 401.																										
	<i>403</i>	HTTP response code is 403.																										
	<i>405</i>	HTTP response code is 405.																										
	<i>406</i>	HTTP response code is 406.																										
	<i>500</i>	HTTP response code is 500.																										
	<i>502</i>	HTTP response code is 502.																										
	<i>503</i>	HTTP response code is 503.																										
<i>504</i>	HTTP response code is 504.																											
total-max	Maximum numbers of entries in dynamic bypass list (10 - 50000, default = 5000).	integer	Minimum value: 10 Maximum value: 50000	5000																								
server-max	Maximum numbers of entries in dynamic bypass list belongs to one server, all requests to this server will be bypassed once server-max is reached (1 - 255, default = 16).	integer	Minimum value: 1 Maximum value: 255	16																								
timeout	Maximum time (in minutes) that an entry is kept in dynamic bypass list from its last hit (1 - 21600, default = 60).	integer	Minimum value: 1 Maximum value: 21600	60																								

config web-proxy explicit-proxy

Configure explicit Web proxy settings.

```
config web-proxy explicit-proxy
  Description: Configure explicit Web proxy settings.
  edit <name>
    set status [enable|disable]
    set interface {string}
    set secure-web-proxy [disable|enable|...]
    set http [enable|disable]
    set ftp-over-http [enable|disable]
```

```

set socks [enable|disable]
set http-incoming-port {user}
set http-connection-mode [static|multiplex|...]
set https-incoming-port {user}
set ftp-incoming-port {user}
set socks-incoming-port {user}
set secure-web-proxy-cert <name1>, <name2>, ...
set client-cert [disable|enable]
set user-agent-detect [disable|enable]
set empty-cert-action [accept|block|...]
set ssl-dh-bits [768|1024|...]
set incoming-ip {ipv4-address-any}
set ipv6-status [enable|disable]
set incoming-ip6 {ipv6-address}
set pref-dns-result [ipv4|ipv6|...]
set unknown-http-version [reject|best-effort]
set realm {string}
set sec-default-action [accept|deny]
set pac-file-server-status [enable|disable]
set pac-file-url {user}
set pac-file-server-port {user}
set pac-file-through-https [enable|disable]
set pac-file-name {string}
set pac-file-data {user}
set ssl-algorithm [high|medium|...]
set return-to-sender [enable|disable]
set learn-dst-from-sni [enable|disable]
set dstport-from-incoming [enable|disable]
set header-proxy-agent [enable|disable]
set dns-mode [recursive|non-recursive|...]

```

next

end

config web-proxy explicit-proxy

Parameter	Description	Type	Size	Default
name	object name	string	Maximum length: 35	
status	Enable/disable the explicit Web proxy for HTTP and HTTPS session.	option	-	disable
	Option	Description		
	enable	Enable the explicit web proxy.		
	disable	Disable the explicit web proxy.		
interface	interface name	string	Maximum length: 15	
secure-web-proxy	Enable/disable/require the secure web proxy for HTTP and HTTPS session.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable secure webproxy.		
	<i>enable</i>	Enable secure webproxy access.		
	<i>secure</i>	Require secure webproxy access.		
http	Enable/disable the HTTP & HTTPS proxy.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable the HTTP & HTTPS proxy.		
	<i>disable</i>	Disable the HTTP & HTTPS proxy.		
ftp-over-http	Enable to proxy FTP-over-HTTP sessions sent from a web browser.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable FTP-over-HTTP sessions.		
	<i>disable</i>	Disable FTP-over-HTTP sessions.		
socks	Enable/disable the SOCKS proxy.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable the SOCKS proxy.		
	<i>disable</i>	Disable the SOCKS proxy.		
http-incoming-port	Accept incoming HTTP requests on one or more ports (0 - 65535, default = 8080).	user	Not Specified	
http-connection-mode	HTTP connection mode (default = static).	option	-	static
	Option	Description		
	<i>static</i>	Only one server connection exists during the proxy session.		
	<i>multiplex</i>	Established connections are held until the proxy session ends.		
	<i>serverpool</i>	Established connections are shared with other proxy sessions.		
https-incoming-port	Accept incoming HTTPS requests on one or more ports (0 - 65535, default = 0, use the same as HTTP).	user	Not Specified	

Parameter	Description	Type	Size	Default								
ftp-incoming-port	Accept incoming FTP-over-HTTP requests on one or more ports (0 - 65535, default = 0; use the same as HTTP).	user	Not Specified									
socks-incoming-port	Accept incoming SOCKS proxy requests on one or more ports (0 - 65535, default = 0; use the same as HTTP).	user	Not Specified									
secure-web-proxy-cert <name>	Name of certificates for secure web proxy. Certificate list.	string	Maximum length: 79									
client-cert	Enable/disable to request client certificate.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable client certificate request.</td></tr><tr><td><i>enable</i></td><td>Enable client certificate request.</td></tr></table>	Option	Description	<i>disable</i>	Disable client certificate request.	<i>enable</i>	Enable client certificate request.					
Option	Description											
<i>disable</i>	Disable client certificate request.											
<i>enable</i>	Enable client certificate request.											
user-agent-detect	Enable/disable to detect device type by HTTP user-agent if no client certificate provided.	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable to detect unknown device by HTTP user-agent if no client certificate provided.</td></tr><tr><td><i>enable</i></td><td>Enable to detect unknown device by HTTP user-agent if no client certificate provided.</td></tr></table>	Option	Description	<i>disable</i>	Disable to detect unknown device by HTTP user-agent if no client certificate provided.	<i>enable</i>	Enable to detect unknown device by HTTP user-agent if no client certificate provided.					
Option	Description											
<i>disable</i>	Disable to detect unknown device by HTTP user-agent if no client certificate provided.											
<i>enable</i>	Enable to detect unknown device by HTTP user-agent if no client certificate provided.											
empty-cert-action	Action of an empty client certificate.	option	-	block								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>accept</i></td><td>Accept the SSL handshake if the client certificate is empty.</td></tr><tr><td><i>block</i></td><td>Block the SSL handshake if the client certificate is empty.</td></tr><tr><td><i>accept-unmanageable</i></td><td>Accept the SSL handshake only if the end-point is unmanageable.</td></tr></table>	Option	Description	<i>accept</i>	Accept the SSL handshake if the client certificate is empty.	<i>block</i>	Block the SSL handshake if the client certificate is empty.	<i>accept-unmanageable</i>	Accept the SSL handshake only if the end-point is unmanageable.			
Option	Description											
<i>accept</i>	Accept the SSL handshake if the client certificate is empty.											
<i>block</i>	Block the SSL handshake if the client certificate is empty.											
<i>accept-unmanageable</i>	Accept the SSL handshake only if the end-point is unmanageable.											
ssl-dh-bits	Bit-size of Diffie-Hellman (DH) prime used in DHE-RSA negotiation (default = 2048).	option	-	2048								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>768</i></td><td>768-bit Diffie-Hellman prime.</td></tr><tr><td><i>1024</i></td><td>1024-bit Diffie-Hellman prime.</td></tr></table>	Option	Description	<i>768</i>	768-bit Diffie-Hellman prime.	<i>1024</i>	1024-bit Diffie-Hellman prime.					
Option	Description											
<i>768</i>	768-bit Diffie-Hellman prime.											
<i>1024</i>	1024-bit Diffie-Hellman prime.											

Parameter	Description	Type	Size	Default										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>1536</td><td>1536-bit Diffie-Hellman prime.</td></tr><tr><td>2048</td><td>2048-bit Diffie-Hellman prime.</td></tr></table>	Option	Description	1536	1536-bit Diffie-Hellman prime.	2048	2048-bit Diffie-Hellman prime.							
Option	Description													
1536	1536-bit Diffie-Hellman prime.													
2048	2048-bit Diffie-Hellman prime.													
incoming-ip	Restrict the explicit HTTP proxy to only accept sessions from this IP address. An interface must have this IP address.	ipv4-address-any	Not Specified	0.0.0.0										
ipv6-status	Enable/disable allowing an IPv6 web proxy destination in policies and all IPv6 related entries in this command.	option	-	disable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>enable</td><td>Enable allowing an IPv6 web proxy destination.</td></tr><tr><td>disable</td><td>Disable allowing an IPv6 web proxy destination.</td></tr></table>	Option	Description	enable	Enable allowing an IPv6 web proxy destination.	disable	Disable allowing an IPv6 web proxy destination.							
Option	Description													
enable	Enable allowing an IPv6 web proxy destination.													
disable	Disable allowing an IPv6 web proxy destination.													
incoming-ip6	Restrict the explicit web proxy to only accept sessions from this IPv6 address. An interface must have this IPv6 address.	ipv6-address	Not Specified	::										
pref-dns-result	Prefer resolving addresses using the configured IPv4 or IPv6 DNS server (default = ipv4).	option	-	ipv4										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>ipv4</td><td>Send the IPv4 request first and then the IPv6 request. Use the DNS response that returns to the FortiGate first.</td></tr><tr><td>ipv6</td><td>Send the IPv6 request first and then the IPv4 request. Use the DNS response that returns to the FortiGate first.</td></tr><tr><td>ipv4-strict</td><td>Use the IPv4 DNS response. If the IPv6 DNS response arrives first, wait 50ms for the IPv4 response and then use the IPv4 response, otherwise the IPv6.</td></tr><tr><td>ipv6-strict</td><td>Use the IPv6 DNS response. If the IPv4 DNS response arrives first, wait 50ms for the IPv6 response and then use the IPv6 response, otherwise the IPv4.</td></tr></table>	Option	Description	ipv4	Send the IPv4 request first and then the IPv6 request. Use the DNS response that returns to the FortiGate first.	ipv6	Send the IPv6 request first and then the IPv4 request. Use the DNS response that returns to the FortiGate first.	ipv4-strict	Use the IPv4 DNS response. If the IPv6 DNS response arrives first, wait 50ms for the IPv4 response and then use the IPv4 response, otherwise the IPv6.	ipv6-strict	Use the IPv6 DNS response. If the IPv4 DNS response arrives first, wait 50ms for the IPv6 response and then use the IPv6 response, otherwise the IPv4.			
Option	Description													
ipv4	Send the IPv4 request first and then the IPv6 request. Use the DNS response that returns to the FortiGate first.													
ipv6	Send the IPv6 request first and then the IPv4 request. Use the DNS response that returns to the FortiGate first.													
ipv4-strict	Use the IPv4 DNS response. If the IPv6 DNS response arrives first, wait 50ms for the IPv4 response and then use the IPv4 response, otherwise the IPv6.													
ipv6-strict	Use the IPv6 DNS response. If the IPv4 DNS response arrives first, wait 50ms for the IPv6 response and then use the IPv6 response, otherwise the IPv4.													
unknown-http-version	How to handle HTTP sessions that do not comply with HTTP 0.9, 1.0, or 1.1.	option	-	reject										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>reject</td><td>Reject or tear down HTTP sessions that do not use HTTP 0.9, 1.0, or 1.1.</td></tr><tr><td>best-effort</td><td>Assume all HTTP sessions comply with HTTP 0.9, 1.0, or 1.1. If a session uses a different HTTP version, it may not parse correctly and the connection may be lost.</td></tr></table>	Option	Description	reject	Reject or tear down HTTP sessions that do not use HTTP 0.9, 1.0, or 1.1.	best-effort	Assume all HTTP sessions comply with HTTP 0.9, 1.0, or 1.1. If a session uses a different HTTP version, it may not parse correctly and the connection may be lost.							
Option	Description													
reject	Reject or tear down HTTP sessions that do not use HTTP 0.9, 1.0, or 1.1.													
best-effort	Assume all HTTP sessions comply with HTTP 0.9, 1.0, or 1.1. If a session uses a different HTTP version, it may not parse correctly and the connection may be lost.													

Parameter	Description	Type	Size	Default								
realm	Authentication realm used to identify the explicit web proxy (maximum of 63 characters).	string	Maximum length: 63	default								
sec-default-action	Accept or deny explicit web proxy sessions when no web proxy firewall policy exists.	option	-	deny								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>accept</i></td><td>Accept requests. All explicit web proxy traffic is accepted whether there is an explicit web proxy policy or not.</td></tr><tr><td><i>deny</i></td><td>Deny requests unless there is a matching explicit web proxy policy.</td></tr></table>				Option	Description	<i>accept</i>	Accept requests. All explicit web proxy traffic is accepted whether there is an explicit web proxy policy or not.	<i>deny</i>	Deny requests unless there is a matching explicit web proxy policy.		
	Option	Description										
	<i>accept</i>	Accept requests. All explicit web proxy traffic is accepted whether there is an explicit web proxy policy or not.										
<i>deny</i>	Deny requests unless there is a matching explicit web proxy policy.											
pac-file-server-status	Enable/disable Proxy Auto-Configuration (PAC) for users of this explicit proxy profile.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable Proxy Auto-Configuration (PAC).</td></tr><tr><td><i>disable</i></td><td>Disable Proxy Auto-Configuration (PAC).</td></tr></table>				Option	Description	<i>enable</i>	Enable Proxy Auto-Configuration (PAC).	<i>disable</i>	Disable Proxy Auto-Configuration (PAC).		
	Option	Description										
	<i>enable</i>	Enable Proxy Auto-Configuration (PAC).										
<i>disable</i>	Disable Proxy Auto-Configuration (PAC).											
pac-file-url	PAC file access URL.	user	Not Specified									
pac-file-server-port	Port number that PAC traffic from client web browsers uses to connect to the explicit web proxy (0 - 65535, default = 0; use the same as HTTP).	user	Not Specified									
pac-file-through-https	Enable/disable to get Proxy Auto-Configuration (PAC) through HTTPS.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable to get Proxy Auto-Configuration (PAC) through HTTPS.</td></tr><tr><td><i>disable</i></td><td>Disable to get Proxy Auto-Configuration (PAC) through HTTPS.</td></tr></table>				Option	Description	<i>enable</i>	Enable to get Proxy Auto-Configuration (PAC) through HTTPS.	<i>disable</i>	Disable to get Proxy Auto-Configuration (PAC) through HTTPS.		
	Option	Description										
	<i>enable</i>	Enable to get Proxy Auto-Configuration (PAC) through HTTPS.										
<i>disable</i>	Disable to get Proxy Auto-Configuration (PAC) through HTTPS.											
pac-file-name	Pac file name.	string	Maximum length: 63	proxy.pac								
pac-file-data	PAC file contents enclosed in quotes (maximum of 256K bytes).	user	Not Specified									
ssl-algorithm	Relative strength of encryption algorithms accepted in HTTPS deep scan: high, medium, or low.	option	-	low								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>high</i></td><td>High encription. Allow only AES and ChaCha.</td></tr><tr><td><i>medium</i></td><td>Medium encryption. Allow AES, ChaCha, 3DES, and RC4.</td></tr><tr><td><i>low</i></td><td>Low encryption. Allow AES, ChaCha, 3DES, RC4, and DES.</td></tr></table>				Option	Description	<i>high</i>	High encription. Allow only AES and ChaCha.	<i>medium</i>	Medium encryption. Allow AES, ChaCha, 3DES, and RC4.	<i>low</i>	Low encryption. Allow AES, ChaCha, 3DES, RC4, and DES.
	Option	Description										
	<i>high</i>	High encription. Allow only AES and ChaCha.										
	<i>medium</i>	Medium encryption. Allow AES, ChaCha, 3DES, and RC4.										
<i>low</i>	Low encryption. Allow AES, ChaCha, 3DES, RC4, and DES.											

Parameter	Description	Type	Size	Default								
return-to-sender	Enable/disable return-to-sender.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.					
Option	Description											
<i>enable</i>	Enable setting.											
<i>disable</i>	Disable setting.											
learn-dst-from-sni	Enable/disable learning destination from SNI in client hello.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable learning destination from SNI in client hello.</td></tr><tr><td><i>disable</i></td><td>Disable learning destination from SNI in client hello.</td></tr></table>	Option	Description	<i>enable</i>	Enable learning destination from SNI in client hello.	<i>disable</i>	Disable learning destination from SNI in client hello.					
Option	Description											
<i>enable</i>	Enable learning destination from SNI in client hello.											
<i>disable</i>	Disable learning destination from SNI in client hello.											
dstport-from-incoming	Enable/disable reusing incoming port to connect to server.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable reusing incoming port to connect to server.</td></tr><tr><td><i>disable</i></td><td>Disable reusing incoming port to connect to server.</td></tr></table>	Option	Description	<i>enable</i>	Enable reusing incoming port to connect to server.	<i>disable</i>	Disable reusing incoming port to connect to server.					
Option	Description											
<i>enable</i>	Enable reusing incoming port to connect to server.											
<i>disable</i>	Disable reusing incoming port to connect to server.											
header-proxy-agent	Enable/disable HTTP CONNECT response header Proxy-Agent.	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable HTTP CONNECT response header Proxy-Agent.</td></tr><tr><td><i>disable</i></td><td>Disable HTTP CONNECT response header Proxy-Agent.</td></tr></table>	Option	Description	<i>enable</i>	Enable HTTP CONNECT response header Proxy-Agent.	<i>disable</i>	Disable HTTP CONNECT response header Proxy-Agent.					
Option	Description											
<i>enable</i>	Enable HTTP CONNECT response header Proxy-Agent.											
<i>disable</i>	Disable HTTP CONNECT response header Proxy-Agent.											
dns-mode	DNS lookup mode (default=recursive).	option	-	recursive								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>recursive</i></td><td>Shadow DNS database and forward.</td></tr><tr><td><i>non-recursive</i></td><td>Public DNS database only.</td></tr><tr><td><i>forward-only</i></td><td>Forward only.</td></tr></table>	Option	Description	<i>recursive</i>	Shadow DNS database and forward.	<i>non-recursive</i>	Public DNS database only.	<i>forward-only</i>	Forward only.			
Option	Description											
<i>recursive</i>	Shadow DNS database and forward.											
<i>non-recursive</i>	Public DNS database only.											
<i>forward-only</i>	Forward only.											

config web-proxy fast-fallback

Proxy destination connection fast-fallback.

```
config web-proxy fast-fallback
  Description: Proxy destination connection fast-fallback.
  edit <name>
```



```

    set status [enable|disable]
    set connection-mode [sequentially|simultaneously]
    set protocol [IPv4-first|IPv6-first|...]
    set connection-timeout {integer}
next
end

```

config web-proxy fast-fallback

Parameter	Description	Type	Size	Default
name	Configure a name for the fast-fallback entry.	string	Maximum length: 63	
status	Enable/disable the fast-fallback entry.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable Status of the entry.		
	<i>disable</i>	Disable Status of the entry.		
connection-mode	Connection mode for multiple destinations.	option	-	sequentially
	Option	Description		
	<i>sequentially</i>	Connect the different destinations sequentially.		
	<i>simultaneously</i>	Connect the different destinations simultaneously.		
protocol	Connection protocols for multiple destinations.	option	-	IPv4-first
	Option	Description		
	<i>IPv4-first</i>	Connect IPv4 destinations first.		
	<i>IPv6-first</i>	Connect IPv6 destinations first.		
	<i>IPv4-only</i>	Connect IPv4 destinations only.		
	<i>IPv6-only</i>	Connect IPv6 destinations only.		
connection-timeout	Number of milliseconds to wait before starting another connection (200 - 1800000, default = 200). For sequential connection-mode only.	integer	Minimum value: 200 Maximum value: 1800000	200

config web-proxy forward-server

Configure forward-server addresses.

```

config web-proxy forward-server
    Description: Configure forward-server addresses.
    edit <name>
        set addr-type [ip|ipv6|...]
        set ip {ipv4-address-any}
        set ipv6 {ipv6-address}
        set fqdn {string}
        set port {integer}
        set comment {string}
        set masquerade [enable|disable]
        set protocol {option1}, {option2}, ...
        set ippool <name1>, <name2>, ...
        set healthcheck [disable|enable]
        set monitor {string}
        set server-down-option [block|pass]
        set username {string}
        set password {password}
    next
end

```

config web-proxy forward-server

Parameter	Description	Type	Size	Default								
name	Server name.	string	Maximum length: 63									
addr-type	Address type of the forwarding proxy server: IP or FQDN.	option	-	ip								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>ip</i></td><td>Use an IPv4 address for the forwarding proxy server.</td></tr><tr><td><i>ipv6</i></td><td>Use an IPv6 address for the forwarding proxy server.</td></tr><tr><td><i>fqdn</i></td><td>Use the FQDN for the forwarding proxy server.</td></tr></table>				Option	Description	<i>ip</i>	Use an IPv4 address for the forwarding proxy server.	<i>ipv6</i>	Use an IPv6 address for the forwarding proxy server.	<i>fqdn</i>	Use the FQDN for the forwarding proxy server.
Option	Description											
<i>ip</i>	Use an IPv4 address for the forwarding proxy server.											
<i>ipv6</i>	Use an IPv6 address for the forwarding proxy server.											
<i>fqdn</i>	Use the FQDN for the forwarding proxy server.											
ip	Forward proxy server IPv4 address.	ipv4-address-any	Not Specified	0.0.0.0								
ipv6	Forward proxy server IPv6 address.	ipv6-address	Not Specified	::								
fqdn	Forward server Fully Qualified Domain Name (FQDN).	string	Maximum length: 255									
port	Port number that the forwarding server expects to receive HTTP sessions on (1 - 65535, default = 3128).	integer	Minimum value: 1 Maximum value: 65535	3128								

Parameter	Description	Type	Size	Default								
comment	Comment.	string	Maximum length: 63									
masquerade	set webproxy to use device address to connect proxy server.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable using device address to connect proxy server.</td></tr><tr><td><i>disable</i></td><td>Disable using device address to connect proxy server.</td></tr></table>	Option	Description	<i>enable</i>	Enable using device address to connect proxy server.	<i>disable</i>	Disable using device address to connect proxy server.					
Option	Description											
<i>enable</i>	Enable using device address to connect proxy server.											
<i>disable</i>	Disable using device address to connect proxy server.											
protocol	Supported proxy protocols.	option	-	http socks								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>http</i></td><td>Support forwarding through HTTP proxy.</td></tr><tr><td><i>socks</i></td><td>Support forwarding through SOCKS.</td></tr><tr><td><i>ftp</i></td><td>Support forwarding through FTP proxy.</td></tr></table>	Option	Description	<i>http</i>	Support forwarding through HTTP proxy.	<i>socks</i>	Support forwarding through SOCKS.	<i>ftp</i>	Support forwarding through FTP proxy.			
Option	Description											
<i>http</i>	Support forwarding through HTTP proxy.											
<i>socks</i>	Support forwarding through SOCKS.											
<i>ftp</i>	Support forwarding through FTP proxy.											
ippool <name>	Name of IP pool object. IP pool name.	string	Maximum length: 79									
healthcheck	Enable/disable forward server health checking. Attempts to connect through the remote forwarding server to a destination to verify that the forwarding server is operating normally.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable health checking.</td></tr><tr><td><i>enable</i></td><td>Enable health checking.</td></tr></table>	Option	Description	<i>disable</i>	Disable health checking.	<i>enable</i>	Enable health checking.					
Option	Description											
<i>disable</i>	Disable health checking.											
<i>enable</i>	Enable health checking.											
monitor	URL for forward server health check monitoring (default = www.google.com).	string	Maximum length: 255	www.google.com								
server-down-option	Action to take when the forward server is found to be down: block sessions until the server is back up or pass sessions to their destination.	option	-	block								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>block</i></td><td>Block sessions until the server is back up.</td></tr><tr><td><i>pass</i></td><td>Pass sessions to their destination bypassing the forward server.</td></tr></table>	Option	Description	<i>block</i>	Block sessions until the server is back up.	<i>pass</i>	Pass sessions to their destination bypassing the forward server.					
Option	Description											
<i>block</i>	Block sessions until the server is back up.											
<i>pass</i>	Pass sessions to their destination bypassing the forward server.											
username	HTTP authentication user name.	string	Maximum length: 64									
password	HTTP authentication password.	password	Not Specified									

config web-proxy forward-server-group

Configure a forward server group consisting of multiple forward servers. Supports failover and load balancing.

```
config web-proxy forward-server-group
    Description: Configure a forward server group consisting of multiple forward servers.
    Supports failover and load balancing.
    edit <name>
        set affinity [enable|disable]
        set ldb-method [weighted|least-session|...]
        set group-down-option [block|pass]
        config server-list
            Description: Add web forward servers to a list to form a server group.
            Optionally assign weights to each server.
            edit <name>
                set weight {integer}
            next
        end
    next
end
```

config web-proxy forward-server-group

Parameter	Description	Type	Size	Default								
name	Configure a forward server group consisting one or multiple forward servers. Supports failover and load balancing.	string	Maximum length: 63									
affinity	Enable/disable affinity, attaching a source-ip's traffic to the assigned forwarding server until the forward-server-affinity-timeout is reached (under web-proxy global).	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable affinity.</td></tr><tr><td><i>disable</i></td><td>Disable affinity.</td></tr></table>	Option	Description	<i>enable</i>	Enable affinity.	<i>disable</i>	Disable affinity.					
Option	Description											
<i>enable</i>	Enable affinity.											
<i>disable</i>	Disable affinity.											
ldb-method	Load balance method: weighted or least-session.	option	-	weighted								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>weighted</i></td><td>Load balance traffic to forward servers based on assigned weights. Weights are ratios of total number of sessions.</td></tr><tr><td><i>least-session</i></td><td>Send new sessions to the server with lowest session count.</td></tr><tr><td><i>active-passive</i></td><td>Send new sessions to the next active server in the list. Servers are selected with highest weight first and then in order as they are configured. Traffic switches back to the first server upon failure recovery.</td></tr></table>	Option	Description	<i>weighted</i>	Load balance traffic to forward servers based on assigned weights. Weights are ratios of total number of sessions.	<i>least-session</i>	Send new sessions to the server with lowest session count.	<i>active-passive</i>	Send new sessions to the next active server in the list. Servers are selected with highest weight first and then in order as they are configured. Traffic switches back to the first server upon failure recovery.			
Option	Description											
<i>weighted</i>	Load balance traffic to forward servers based on assigned weights. Weights are ratios of total number of sessions.											
<i>least-session</i>	Send new sessions to the server with lowest session count.											
<i>active-passive</i>	Send new sessions to the next active server in the list. Servers are selected with highest weight first and then in order as they are configured. Traffic switches back to the first server upon failure recovery.											

Parameter	Description	Type	Size	Default						
group-down-option	Action to take when all of the servers in the forward server group are down: block sessions until at least one server is back up or pass sessions to their destination.	option	-	block						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>block</i></td><td>Block sessions until at least one server in the group is back up.</td></tr><tr><td><i>pass</i></td><td>Pass sessions to their destination bypassing servers in the forward server group.</td></tr></table>				Option	Description	<i>block</i>	Block sessions until at least one server in the group is back up.	<i>pass</i>	Pass sessions to their destination bypassing servers in the forward server group.
Option	Description									
<i>block</i>	Block sessions until at least one server in the group is back up.									
<i>pass</i>	Pass sessions to their destination bypassing servers in the forward server group.									

config server-list

Parameter	Description	Type	Size	Default
name	Forward server name.	string	Maximum length: 63	
weight	Optionally assign a weight of the forwarding server for weighted load balancing (1 - 100, default = 10).	integer	Minimum value: 1 Maximum value: 100	10

config web-proxy global

Configure Web proxy global settings.

```
config web-proxy global
    Description: Configure Web proxy global settings.
    set ssl-cert {string}
    set ssl-ca-cert {string}
    set fast-policy-match [enable|disable]
    set ldap-user-cache [enable|disable]
    set proxy-fqdn {string}
    set max-request-length {integer}
    set max-message-length {integer}
    set strict-web-check [enable|disable]
    set forward-proxy-auth [enable|disable]
    set forward-server-affinity-timeout {integer}
    set webproxy-profile {string}
    set learn-client-ip [disable|traffic-process|...]
    set always-learn-client-ip [enable|disable]
    set learn-client-ip-from-header {option1}, {option2}, ...
    set learn-client-ip-srcaddr <name1>, <name2>, ...
    set learn-client-ip-srcaddr6 <name1>, <name2>, ...
    set src-affinity-exempt-addr {ipv4-address-any}
    set src-affinity-exempt-addr6 {ipv6-address}
    set strict-guest [enable|disable]
    set https-replacement-message [enable|disable]
    set message-upon-server-error [enable|disable]
```

```

set trace-auth-no-rsp [enable|disable]
set log-policy-pending [enable|disable]
set log-forward-server [enable|disable]
set extended-log [enable|disable]
set log-http-transaction [disable|enable]
set log-app-id [enable|disable]
set proxy-transparent-cert-inspection [enable|disable]
set request-obs-fold [replace-with-sp|block|...]
set explicit-outgoing-ip {ipv4-address-any}
set explicit-outgoing-ip6 {ipv6-address}
set realm {string}

```

end

config web-proxy global

Parameter	Description	Type	Size	Default
ssl-cert	SSL certificate for SSL interception.	string	Maximum length: 35	default-server-cert
ssl-ca-cert	SSL CA certificate for SSL interception.	string	Maximum length: 35	default-ca
fast-policy-match	Enable/disable fast matching algorithm for explicit and transparent proxy policy.	option	-	enable
	Option		Description	
	<i>enable</i>		Enable setting.	
	<i>disable</i>		Disable setting.	
ldap-user-cache	Enable/disable ldap user cache for explicit and transparent proxy user.	option	-	enable
	Option		Description	
	<i>enable</i>		Enable setting.	
	<i>disable</i>		Disable setting.	
proxy-fqdn	Fully Qualified Domain Name (FQDN) that clients connect to (default = default.fqdn) to connect to the explicit web proxy.	string	Maximum length: 255	default.fqdn
max-request-length	Maximum length of HTTP request line (2 - 64 Kbytes, default = 8).	integer	Minimum value: 2 Maximum value: 64	8
max-message-length	Maximum length of HTTP message, not including body (16 - 256 Kbytes, default = 32).	integer	Minimum value: 16 Maximum value: 256	32

Parameter	Description	Type	Size	Default								
strict-web-check	Enable/disable strict web checking to block web sites that send incorrect headers that don't conform to HTTP 1.1.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable strict web checking.</td></tr><tr><td><i>disable</i></td><td>Disable strict web checking.</td></tr></table>	Option	Description	<i>enable</i>	Enable strict web checking.	<i>disable</i>	Disable strict web checking.					
Option	Description											
<i>enable</i>	Enable strict web checking.											
<i>disable</i>	Disable strict web checking.											
forward-proxy-auth	Enable/disable forwarding proxy authentication headers.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable forwarding proxy authentication headers.</td></tr><tr><td><i>disable</i></td><td>Disable forwarding proxy authentication headers.</td></tr></table>	Option	Description	<i>enable</i>	Enable forwarding proxy authentication headers.	<i>disable</i>	Disable forwarding proxy authentication headers.					
Option	Description											
<i>enable</i>	Enable forwarding proxy authentication headers.											
<i>disable</i>	Disable forwarding proxy authentication headers.											
forward-server-affinity-timeout	Period of time before the source IP's traffic is no longer assigned to the forwarding server (6 - 60 min, default = 30).	integer	Minimum value: 6 Maximum value: 60	30								
webproxy-profile	Name of the web proxy profile to apply when explicit proxy traffic is allowed by default and traffic is accepted that does not match an explicit proxy policy.	string	Maximum length: 63									
learn-client-ip	Learn the client's IP address from headers.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Do not learn the client's IP address from headers.</td></tr><tr><td><i>traffic-process</i></td><td>Learn the client's IP address from headers and use it for both policy-matching and logging.</td></tr><tr><td><i>log-only</i></td><td>Learn the client's IP address from headers and use it only for logging.</td></tr></table>	Option	Description	<i>disable</i>	Do not learn the client's IP address from headers.	<i>traffic-process</i>	Learn the client's IP address from headers and use it for both policy-matching and logging.	<i>log-only</i>	Learn the client's IP address from headers and use it only for logging.			
Option	Description											
<i>disable</i>	Do not learn the client's IP address from headers.											
<i>traffic-process</i>	Learn the client's IP address from headers and use it for both policy-matching and logging.											
<i>log-only</i>	Learn the client's IP address from headers and use it only for logging.											
always-learn-client-ip	Enable/disable learning the client's IP address from headers for every request.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable learning the client's IP address from headers for every request.</td></tr><tr><td><i>disable</i></td><td>Disable learning the client's IP address from headers for every request.</td></tr></table>	Option	Description	<i>enable</i>	Enable learning the client's IP address from headers for every request.	<i>disable</i>	Disable learning the client's IP address from headers for every request.					
Option	Description											
<i>enable</i>	Enable learning the client's IP address from headers for every request.											
<i>disable</i>	Disable learning the client's IP address from headers for every request.											
learn-client-ip-from-header	Learn client IP address from the specified headers.	option	-									

Parameter	Description	Type	Size	Default								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>true-client-ip</i></td><td>Learn the client IP address from the True-Client-IP header.</td></tr><tr><td><i>x-real-ip</i></td><td>Learn the client IP address from the X-Real-IP header.</td></tr><tr><td><i>x-forwarded-for</i></td><td>Learn the client IP address from the X-Forwarded-For header.</td></tr></table>	Option	Description	<i>true-client-ip</i>	Learn the client IP address from the True-Client-IP header.	<i>x-real-ip</i>	Learn the client IP address from the X-Real-IP header.	<i>x-forwarded-for</i>	Learn the client IP address from the X-Forwarded-For header.			
	Option	Description										
	<i>true-client-ip</i>	Learn the client IP address from the True-Client-IP header.										
	<i>x-real-ip</i>	Learn the client IP address from the X-Real-IP header.										
<i>x-forwarded-for</i>	Learn the client IP address from the X-Forwarded-For header.											
learn-client-ip-srcaddr <name>	Source address name (srcaddr or srcaddr6 must be set). Address name.	string	Maximum length: 79									
learn-client-ip-srcaddr6 <name>	IPv6 Source address name (srcaddr or srcaddr6 must be set). Address name.	string	Maximum length: 79									
src-affinity-exempt-addr	IPv4 source addresses to exempt proxy affinity.	ipv4-address-any	Not Specified									
src-affinity-exempt-addr6	IPv6 source addresses to exempt proxy affinity.	ipv6-address	Not Specified									
strict-guest	Enable/disable strict guest user checking by the explicit web proxy.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable strict guest user checking.</td></tr><tr><td><i>disable</i></td><td>Disable strict guest user checking.</td></tr></table>	Option	Description	<i>enable</i>	Enable strict guest user checking.	<i>disable</i>	Disable strict guest user checking.					
	Option	Description										
	<i>enable</i>	Enable strict guest user checking.										
<i>disable</i>	Disable strict guest user checking.											
https-replacement-message	Default action to enable or disable return replacement message for HTTPS requests.	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Display a replacement message for HTTPS requests.</td></tr><tr><td><i>disable</i></td><td>Do not display a replacement message for HTTPS requests.</td></tr></table>	Option	Description	<i>enable</i>	Display a replacement message for HTTPS requests.	<i>disable</i>	Do not display a replacement message for HTTPS requests.					
	Option	Description										
	<i>enable</i>	Display a replacement message for HTTPS requests.										
<i>disable</i>	Do not display a replacement message for HTTPS requests.											
message-upon-server-error	Enable/disable return of replacement message upon server error detection.	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Display a replacement message when a server error is detected.</td></tr><tr><td><i>disable</i></td><td>Do not display a replacement message when a server error is detected.</td></tr></table>	Option	Description	<i>enable</i>	Display a replacement message when a server error is detected.	<i>disable</i>	Do not display a replacement message when a server error is detected.					
	Option	Description										
	<i>enable</i>	Display a replacement message when a server error is detected.										
<i>disable</i>	Do not display a replacement message when a server error is detected.											

Parameter	Description	Type	Size	Default						
trace-auth-no-rsp	Enable/disable logging timed-out authentication requests.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable logging timed-out authentication requests.</td></tr><tr><td><i>disable</i></td><td>Disable logging timed-out authentication requests.</td></tr></table>	Option	Description	<i>enable</i>	Enable logging timed-out authentication requests.	<i>disable</i>	Disable logging timed-out authentication requests.			
Option	Description									
<i>enable</i>	Enable logging timed-out authentication requests.									
<i>disable</i>	Disable logging timed-out authentication requests.									
log-policy-pending	Enable/disable logging sessions that are pending on policy matching.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable logging sessions that are pending on policy matching.</td></tr><tr><td><i>disable</i></td><td>Disable logging sessions that are pending on policy matching.</td></tr></table>	Option	Description	<i>enable</i>	Enable logging sessions that are pending on policy matching.	<i>disable</i>	Disable logging sessions that are pending on policy matching.			
Option	Description									
<i>enable</i>	Enable logging sessions that are pending on policy matching.									
<i>disable</i>	Disable logging sessions that are pending on policy matching.									
log-forward-server	Enable/disable forward server name logging in forward traffic log.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable logging forward server name in forward traffic log.</td></tr><tr><td><i>disable</i></td><td>Disable logging forward server name in forward traffic log.</td></tr></table>	Option	Description	<i>enable</i>	Enable logging forward server name in forward traffic log.	<i>disable</i>	Disable logging forward server name in forward traffic log.			
Option	Description									
<i>enable</i>	Enable logging forward server name in forward traffic log.									
<i>disable</i>	Disable logging forward server name in forward traffic log.									
extended-log	Enable/disable extended log of http transaction for implicit policy.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable logging extended http information for implicit policy.</td></tr><tr><td><i>disable</i></td><td>Disable logging extended http information for implicit policy.</td></tr></table>	Option	Description	<i>enable</i>	Enable logging extended http information for implicit policy.	<i>disable</i>	Disable logging extended http information for implicit policy.			
Option	Description									
<i>enable</i>	Enable logging extended http information for implicit policy.									
<i>disable</i>	Disable logging extended http information for implicit policy.									
log-http-transaction	Enable/disable http transaction log for implicit policy.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable HTTP transaction log.</td></tr><tr><td><i>enable</i></td><td>Enable HTTP transaction log</td></tr></table>	Option	Description	<i>disable</i>	Disable HTTP transaction log.	<i>enable</i>	Enable HTTP transaction log			
Option	Description									
<i>disable</i>	Disable HTTP transaction log.									
<i>enable</i>	Enable HTTP transaction log									
log-app-id	Enable/disable always log application type in traffic log.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable logging application type in traffic log.</td></tr><tr><td><i>disable</i></td><td>Disable logging application type in traffic log.</td></tr></table>	Option	Description	<i>enable</i>	Enable logging application type in traffic log.	<i>disable</i>	Disable logging application type in traffic log.			
Option	Description									
<i>enable</i>	Enable logging application type in traffic log.									
<i>disable</i>	Disable logging application type in traffic log.									

Parameter	Description	Type	Size	Default								
proxy-transparent-cert-inspection	Enable/disable transparent proxy certificate inspection.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable proxying certificate inspection in transparent mode.</td></tr><tr><td><i>disable</i></td><td>Disable proxying certificate inspection in transparent mode.</td></tr></table>	Option	Description	<i>enable</i>	Enable proxying certificate inspection in transparent mode.	<i>disable</i>	Disable proxying certificate inspection in transparent mode.					
Option	Description											
<i>enable</i>	Enable proxying certificate inspection in transparent mode.											
<i>disable</i>	Disable proxying certificate inspection in transparent mode.											
request-obs-fold	Action when HTTP/1.x request header contains obs-fold.	option	-	keep								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>replace-with-sp</i></td><td>Replace CRLF in obs-fold with SP in the request header for HTTP/1.x.</td></tr><tr><td><i>block</i></td><td>Block HTTP/1.x request with obs-fold.</td></tr><tr><td><i>keep</i></td><td>Keep obs-fold in the request header for HTTP/1.x. There are known security risks.</td></tr></table>	Option	Description	<i>replace-with-sp</i>	Replace CRLF in obs-fold with SP in the request header for HTTP/1.x.	<i>block</i>	Block HTTP/1.x request with obs-fold.	<i>keep</i>	Keep obs-fold in the request header for HTTP/1.x. There are known security risks.			
Option	Description											
<i>replace-with-sp</i>	Replace CRLF in obs-fold with SP in the request header for HTTP/1.x.											
<i>block</i>	Block HTTP/1.x request with obs-fold.											
<i>keep</i>	Keep obs-fold in the request header for HTTP/1.x. There are known security risks.											
explicit-outgoing-ip	Outgoing HTTP requests by explicit webproxy will have this IP address as their source address. An interface must have this IP address.	ipv4-address-any	Not Specified									
explicit-outgoing-ip6	Outgoing HTTP requests by explicit webproxy will leave this IP. An interface must have this IP address.	ipv6-address	Not Specified									
realm	Authentication realm.	string	Maximum length: 63	default								

config web-proxy implicit-proxy-rule

Configure implicit webproxy rule.

```

config web-proxy implicit-proxy-rule
    Description: Configure implicit webproxy rule.
    edit <name>
        set load-balance-method [static|round-robin|...]
        set bypass-list <name1>, <name2>, ...
        config proxy-servers
            Description: Rule proxy server entries.
            edit <id>
                set ip {ipv4-address-any}
                set port {integer}
                set weight {integer}
            next
        end
    next
end

```

config web-proxy implicit-proxy-rule

Parameter	Description	Type	Size	Default
name	Rule name.	string	Maximum length: 63	
load-balance-method	Method used to distribute sessions to proxies.	option	-	static
	Option	Description		
	<i>static</i>	Distribute to server based on source IP.		
	<i>round-robin</i>	Distribute to server based round robin order.		
	<i>first-alive</i>	Distribute to the first server that is alive.		
	<i>weighted</i>	Distribute to server based on weight.		
bypass-list <name>	Addresses for which you do not want to use any proxy Address name.	string	Maximum length: 79	

config proxy-servers

Parameter	Description	Type	Size	Default
id	Server ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
ip	Proxy IP address.	ipv4-address-any	Not Specified	0.0.0.0
port	Proxy port number (1 - 65535, default = 8080).	integer	Minimum value: 1 Maximum value: 65535	8080
weight	Weight of the proxy server. If weighted load balancing is enabled, the server with the highest weight gets more connections.	integer	Minimum value: 1 Maximum value: 255	1

config web-proxy implicit-proxy-setting

Configure implicit proxy browser extension setting.

```

config web-proxy implicit-proxy-setting
    Description: Configure implicit proxy browser extension setting.
    edit <name>
        set interface {string}
        set implicit-proxy-rule {string}
    next
end

```

config web-proxy implicit-proxy-setting

Parameter	Description	Type	Size	Default
name	object name	string	Maximum length: 35	
interface	interface name	string	Maximum length: 15	
implicit-proxy-rule	Implicit proxy rule name	string	Maximum length: 63	

config web-proxy isolator-server

Configure forward-server addresses.

```

config web-proxy isolator-server
    Description: Configure forward-server addresses.
    edit <name>
        set addr-type [ip|ipv6|...]
        set ip {ipv4-address-any}
        set ipv6 {ipv6-address}
        set fqdn {string}
        set port {integer}
        set comment {string}
        set masquerade [enable|disable]
        set protocol {option1}, {option2}, ...
        set ippool <name1>, <name2>, ...
    next
end

```

config web-proxy isolator-server

Parameter	Description	Type	Size	Default
name	Server name.	string	Maximum length: 63	
addr-type	Address type of the forwarding proxy server: IP or FQDN.	option	-	ip

Parameter	Description	Type	Size	Default								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>ip</i></td><td>Use an IPv4 address for the forwarding proxy server.</td></tr><tr><td><i>ipv6</i></td><td>Use an IPv6 address for the forwarding proxy server.</td></tr><tr><td><i>fqdn</i></td><td>Use the FQDN for the forwarding proxy server.</td></tr></table>	Option	Description	<i>ip</i>	Use an IPv4 address for the forwarding proxy server.	<i>ipv6</i>	Use an IPv6 address for the forwarding proxy server.	<i>fqdn</i>	Use the FQDN for the forwarding proxy server.			
	Option	Description										
	<i>ip</i>	Use an IPv4 address for the forwarding proxy server.										
	<i>ipv6</i>	Use an IPv6 address for the forwarding proxy server.										
<i>fqdn</i>	Use the FQDN for the forwarding proxy server.											
ip	Forward proxy server IPv4 address.	ipv4-address-any	Not Specified	0.0.0.0								
ipv6	Forward proxy server IPv6 address.	ipv6-address	Not Specified	::								
fqdn	Forward server Fully Qualified Domain Name (FQDN).	string	Maximum length: 255									
port	Port number that the forwarding server expects to receive HTTP sessions on (1 - 65535, default = 3128).	integer	Minimum value: 1 Maximum value: 65535	3128								
comment	Comment.	string	Maximum length: 63									
masquerade	set webproxy to use device address to connect proxy server.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable using device address to connect proxy server.</td></tr><tr><td><i>disable</i></td><td>Disable using device address to connect proxy server.</td></tr></table>	Option	Description	<i>enable</i>	Enable using device address to connect proxy server.	<i>disable</i>	Disable using device address to connect proxy server.					
	Option	Description										
	<i>enable</i>	Enable using device address to connect proxy server.										
<i>disable</i>	Disable using device address to connect proxy server.											
protocol	Supported proxy protocols.	option	-	http socks								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>http</i></td><td>Support forwarding through HTTP proxy.</td></tr><tr><td><i>socks</i></td><td>Support forwarding through SOCKS.</td></tr></table>	Option	Description	<i>http</i>	Support forwarding through HTTP proxy.	<i>socks</i>	Support forwarding through SOCKS.					
	Option	Description										
	<i>http</i>	Support forwarding through HTTP proxy.										
<i>socks</i>	Support forwarding through SOCKS.											
ippool <name>	Name of IP pool object. IP pool name.	string	Maximum length: 79									

config web-proxy pac-policy

Configure explicit Web proxy pac policy.

```

config web-proxy pac-policy
    Description: Configure explicit Web proxy pac policy.
    edit <policyid>
        set status [enable|disable]
        set srcaddr <name1>, <name2>, ...
        set srcaddr6 <name1>, <name2>, ...
        set dstaddr <name1>, <name2>, ...
        set pac-file-name {string}
        set pac-file-data {user}
        set comments {var-string}
    next
end

```

config web-proxy pac-policy

Parameter	Description	Type	Size	Default
policyid	Policy ID.	integer	Minimum value: 1 Maximum value: 100	0
status	Enable/disable policy.	option	-	enable
	Option	Description		
	enable	Enable policy.		
	disable	Disable policy.		
srcaddr <name>	Source address objects. Address name.	string	Maximum length: 79	
srcaddr6 <name>	Source address6 objects. Address name.	string	Maximum length: 79	
dstaddr <name>	Destination address objects. Address name.	string	Maximum length: 79	
pac-file-name	Pac file name.	string	Maximum length: 63	proxy.pac
pac-file-data	PAC file contents enclosed in quotes (maximum of 256K bytes).	user	Not Specified	
comments	Optional comments.	var-string	Maximum length: 1023	

config web-proxy profile

Configure web proxy profiles.

```

config web-proxy profile
  Description: Configure web proxy profiles.
  edit <name>
    set max-cache-object-size {integer}
    set header-client-ip [pass|add|...]
    set header-via-request [pass|add|...]
    set header-via-response [pass|add|...]
    set header-x-forwarded-for [pass|add|...]
    set header-x-forwarded-client-cert [pass|add|...]
    set header-front-end-https [pass|add|...]
    set header-x-authenticated-user [pass|add|...]
    set header-x-authenticated-groups [pass|add|...]
    set strip-encoding [enable|disable]
    set log-header-change [enable|disable]
  config headers
    Description: Configure HTTP forwarded requests headers.
    edit <id>
      set name {string}
      set dstaddr <name1>, <name2>, ...
      set dstaddr6 <name1>, <name2>, ...
      set action [add-to-request|add-to-response|...]
      set content {string}
      set base64-encoding [disable|enable]
      set add-option [append|new-on-not-found|...]
      set protocol {option1}, {option2}, ...
    next
  end
next
end

```

config web-proxy profile

Parameter	Description	Type	Size	Default								
name	Profile name.	string	Maximum length: 63									
max-cache-object-size	Maximum cacheable object size in KB (0-3984384 KB (3.8 GB), default = 0.). When the value is set to 0, the max cache object size will be max-object-size under webcache settings.	integer	Minimum value: 0 Maximum value: 3984384	0								
header-client-ip	Action to take on the HTTP client-IP header in forwarded requests: forwards (pass), adds, or removes the HTTP header.	option	-	pass								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>pass</td><td>Forward the same HTTP header.</td></tr><tr><td>add</td><td>Add the HTTP header.</td></tr><tr><td>remove</td><td>Remove the HTTP header.</td></tr></table>				Option	Description	pass	Forward the same HTTP header.	add	Add the HTTP header.	remove	Remove the HTTP header.
Option	Description											
pass	Forward the same HTTP header.											
add	Add the HTTP header.											
remove	Remove the HTTP header.											

Parameter	Description	Type	Size	Default
header-via-request	Action to take on the HTTP via header in forwarded requests: forwards (pass), adds, or removes the HTTP header.	option	-	pass
	Option	Description		
	<i>pass</i>	Forward the same HTTP header.		
	<i>add</i>	Add the HTTP header.		
	<i>remove</i>	Remove the HTTP header.		
header-via-response	Action to take on the HTTP via header in forwarded responses: forwards (pass), adds, or removes the HTTP header.	option	-	pass
	Option	Description		
	<i>pass</i>	Forward the same HTTP header.		
	<i>add</i>	Add the HTTP header.		
	<i>remove</i>	Remove the HTTP header.		
header-x-forwarded-for	Action to take on the HTTP x-forwarded-for header in forwarded requests: forwards (pass), adds, or removes the HTTP header.	option	-	pass
	Option	Description		
	<i>pass</i>	Forward the same HTTP header.		
	<i>add</i>	Add the HTTP header.		
	<i>remove</i>	Remove the HTTP header.		
header-x-forwarded-client-cert	Action to take on the HTTP x-forwarded-client-cert header in forwarded requests: forwards (pass), adds, or removes the HTTP header.	option	-	pass
	Option	Description		
	<i>pass</i>	Forward the same HTTP header.		
	<i>add</i>	Add the HTTP header.		
	<i>remove</i>	Remove the HTTP header.		
header-front-end-https	Action to take on the HTTP front-end-HTTPS header in forwarded requests: forwards (pass), adds, or removes the HTTP header.	option	-	pass

Parameter	Description	Type	Size	Default								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>pass</i></td><td>Forward the same HTTP header.</td></tr><tr><td><i>add</i></td><td>Add the HTTP header.</td></tr><tr><td><i>remove</i></td><td>Remove the HTTP header.</td></tr></table>	Option	Description	<i>pass</i>	Forward the same HTTP header.	<i>add</i>	Add the HTTP header.	<i>remove</i>	Remove the HTTP header.			
	Option	Description										
	<i>pass</i>	Forward the same HTTP header.										
	<i>add</i>	Add the HTTP header.										
<i>remove</i>	Remove the HTTP header.											
header-x-authenticated-user	Action to take on the HTTP x-authenticated-user header in forwarded requests: forwards (pass), adds, or removes the HTTP header.	option	-	pass								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>pass</i></td><td>Forward the same HTTP header.</td></tr><tr><td><i>add</i></td><td>Add the HTTP header.</td></tr><tr><td><i>remove</i></td><td>Remove the HTTP header.</td></tr></table>	Option	Description	<i>pass</i>	Forward the same HTTP header.	<i>add</i>	Add the HTTP header.	<i>remove</i>	Remove the HTTP header.			
	Option	Description										
	<i>pass</i>	Forward the same HTTP header.										
	<i>add</i>	Add the HTTP header.										
<i>remove</i>	Remove the HTTP header.											
header-x-authenticated-groups	Action to take on the HTTP x-authenticated-groups header in forwarded requests: forwards (pass), adds, or removes the HTTP header.	option	-	pass								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>pass</i></td><td>Forward the same HTTP header.</td></tr><tr><td><i>add</i></td><td>Add the HTTP header.</td></tr><tr><td><i>remove</i></td><td>Remove the HTTP header.</td></tr></table>	Option	Description	<i>pass</i>	Forward the same HTTP header.	<i>add</i>	Add the HTTP header.	<i>remove</i>	Remove the HTTP header.			
	Option	Description										
	<i>pass</i>	Forward the same HTTP header.										
	<i>add</i>	Add the HTTP header.										
<i>remove</i>	Remove the HTTP header.											
strip-encoding	Enable/disable stripping unsupported encoding from the request header.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable stripping of unsupported encoding from the request header.</td></tr><tr><td><i>disable</i></td><td>Disable stripping of unsupported encoding from the request header.</td></tr></table>	Option	Description	<i>enable</i>	Enable stripping of unsupported encoding from the request header.	<i>disable</i>	Disable stripping of unsupported encoding from the request header.					
	Option	Description										
	<i>enable</i>	Enable stripping of unsupported encoding from the request header.										
<i>disable</i>	Disable stripping of unsupported encoding from the request header.											
log-header-change	Enable/disable logging HTTP header changes.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable Enable/disable logging HTTP header changes.</td></tr><tr><td><i>disable</i></td><td>Disable Enable/disable logging HTTP header changes.</td></tr></table>	Option	Description	<i>enable</i>	Enable Enable/disable logging HTTP header changes.	<i>disable</i>	Disable Enable/disable logging HTTP header changes.					
	Option	Description										
	<i>enable</i>	Enable Enable/disable logging HTTP header changes.										
<i>disable</i>	Disable Enable/disable logging HTTP header changes.											

config headers

Parameter	Description	Type	Size	Default														
id	HTTP forwarded header id.	integer	Minimum value: 0 Maximum value: 4294967295	0														
name	HTTP forwarded header name.	string	Maximum length: 79															
dstaddr <name>	Destination address and address group names. Address name.	string	Maximum length: 79															
dstaddr6 <name>	Destination address and address group names (IPv6). Address name.	string	Maximum length: 79															
action	Configure adding, removing, or logging of the HTTP header entry in HTTP requests and responses.	option	-	add-to-request														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>add-to-request</i></td><td>Add the HTTP header to request.</td></tr><tr><td><i>add-to-response</i></td><td>Add the HTTP header to response.</td></tr><tr><td><i>remove-from-request</i></td><td>Remove the HTTP header from request.</td></tr><tr><td><i>remove-from-response</i></td><td>Remove the HTTP header from response.</td></tr><tr><td><i>monitor-request</i></td><td>Record the HTTP header in utm-webfilter log.</td></tr><tr><td><i>monitor-response</i></td><td>Record the HTTP header in utm-webfilter log.</td></tr></table>				Option	Description	<i>add-to-request</i>	Add the HTTP header to request.	<i>add-to-response</i>	Add the HTTP header to response.	<i>remove-from-request</i>	Remove the HTTP header from request.	<i>remove-from-response</i>	Remove the HTTP header from response.	<i>monitor-request</i>	Record the HTTP header in utm-webfilter log.	<i>monitor-response</i>	Record the HTTP header in utm-webfilter log.
Option	Description																	
<i>add-to-request</i>	Add the HTTP header to request.																	
<i>add-to-response</i>	Add the HTTP header to response.																	
<i>remove-from-request</i>	Remove the HTTP header from request.																	
<i>remove-from-response</i>	Remove the HTTP header from response.																	
<i>monitor-request</i>	Record the HTTP header in utm-webfilter log.																	
<i>monitor-response</i>	Record the HTTP header in utm-webfilter log.																	
content	HTTP header content.	string	Maximum length: 3999															
base64-encoding	Enable/disable use of base64 encoding of HTTP content.	option	-	disable														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable use of base64 encoding of HTTP content.</td></tr><tr><td><i>enable</i></td><td>Enable use of base64 encoding of HTTP content.</td></tr></table>				Option	Description	<i>disable</i>	Disable use of base64 encoding of HTTP content.	<i>enable</i>	Enable use of base64 encoding of HTTP content.								
Option	Description																	
<i>disable</i>	Disable use of base64 encoding of HTTP content.																	
<i>enable</i>	Enable use of base64 encoding of HTTP content.																	
add-option	Configure options to append content to existing HTTP header or add new HTTP header.	option	-	new														

Parameter	Description	Type	Size	Default												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>append</i></td><td>Append content to existing HTTP header or create new header if HTTP header is not found.</td></tr><tr><td><i>new-on-not-found</i></td><td>Create new header only if existing HTTP header is not found.</td></tr><tr><td><i>new</i></td><td>Create new header regardless if existing HTTP header is found or not.</td></tr><tr><td><i>replace</i></td><td>Replace content to existing HTTP header or create new header if HTTP header is not found.</td></tr><tr><td><i>replace-when-match</i></td><td>Replace content to existing HTTP header.</td></tr></table>	Option	Description	<i>append</i>	Append content to existing HTTP header or create new header if HTTP header is not found.	<i>new-on-not-found</i>	Create new header only if existing HTTP header is not found.	<i>new</i>	Create new header regardless if existing HTTP header is found or not.	<i>replace</i>	Replace content to existing HTTP header or create new header if HTTP header is not found.	<i>replace-when-match</i>	Replace content to existing HTTP header.			
	Option	Description														
	<i>append</i>	Append content to existing HTTP header or create new header if HTTP header is not found.														
	<i>new-on-not-found</i>	Create new header only if existing HTTP header is not found.														
	<i>new</i>	Create new header regardless if existing HTTP header is found or not.														
	<i>replace</i>	Replace content to existing HTTP header or create new header if HTTP header is not found.														
<i>replace-when-match</i>	Replace content to existing HTTP header.															
protocol	Configure protocol(s) to take add-option action on (HTTP, HTTPS, or both).	option	-	https http												
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>https</i></td><td>Perform add-option action on HTTPS.</td></tr><tr><td><i>http</i></td><td>Perform add-option action on HTTP.</td></tr></table>	Option	Description	<i>https</i>	Perform add-option action on HTTPS.	<i>http</i>	Perform add-option action on HTTP.									
	Option	Description														
	<i>https</i>	Perform add-option action on HTTPS.														
<i>http</i>	Perform add-option action on HTTP.															

config web-proxy redirect-profile

URL redirect profile.

```

config web-proxy redirect-profile
  Description: URL redirect profile.
  edit <name>
    config entries
      Description: URL redirect entries.
      edit <id>
        set type [simple|regex|...]
        set url {var-string}
        set redirect-url {var-string}
        set redirect-code [auto|301|...]
      next
    end
  next
end

```

config web-proxy redirect-profile

Parameter	Description	Type	Size	Default
name	Name of the redirect profile.	string	Maximum length: 35	

config entries

Parameter	Description	Type	Size	Default
id	Id.	integer	Minimum value: 0 Maximum value: 4294967295	0
type	URL match type (simple, regex or wildcard).	option	-	simple
	Option	Description		
	simple	Simple URL string.		
	regex	Regular expression URL string.		
	wildcard	Wildcard URL string.		
url	URL to be redirected.	var-string	Maximum length: 1023	
redirect-url	Redirect URL for further web proxy processing.	var-string	Maximum length: 1023	
redirect-code	Redirect code.	option	-	auto
	Option	Description		
	auto	Auto select status code.		
	301	Status code 301 Move Permanently.		
	302	Status code 302 Move.		
	303	Status code 303 See Other.		
	307	Status code 307 Temporary Redirect.		
	308	Status code 308 Permanent Redirect.		

config web-proxy url-list

URLs for web proxy.

```
config web-proxy url-list
  Description: URLs for web proxy.
  edit <name>
    set comment {var-string}
    config entries
      Description: URL list entries.
      edit <id>
        set status [enable|disable]
        set url {string}
```

```

        set type [simple|wildcard]
    next
end
next
end

```

config web-proxy url-list

Parameter	Description	Type	Size	Default
name	Configure a name for the URL list.	string	Maximum length: 63	
comment	Comment.	var-string	Maximum length: 255	

config entries

Parameter	Description	Type	Size	Default						
id	Id.	integer	Minimum value: 0 Maximum value: 4294967295	0						
status	Enable/disable the entry.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable The URL.</td></tr><tr><td><i>disable</i></td><td>Disable The URL.</td></tr></table>				Option	Description	<i>enable</i>	Enable The URL.	<i>disable</i>	Disable The URL.
	Option	Description								
	<i>enable</i>	Enable The URL.								
<i>disable</i>	Disable The URL.									
url	URL.	string	Maximum length: 511							
type	URL type (simple, wildcard).	option	-	simple						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>simple</i></td><td>Simple URL string.</td></tr><tr><td><i>wildcard</i></td><td>Wildcard URL string (only '*').</td></tr></table>				Option	Description	<i>simple</i>	Simple URL string.	<i>wildcard</i>	Wildcard URL string (only '*').
	Option	Description								
	<i>simple</i>	Simple URL string.								
<i>wildcard</i>	Wildcard URL string (only '*').									

config web-proxy url-match

URLs to be exempted from caching and/or to be redirected to forward server.

```

config web-proxy url-match
    Description: URLs to be exempted from caching and/or to be redirected to forward server.

```

```

edit <name>
    set status [enable|disable]
    set explicit-web-proxy <name1>, <name2>, ...
    set type [simple|wildcard|...]
    set url-pattern {string}
    set url-list {string}
    set forward-server {string}
    set ftp-forward-server {string}
    set fast-fallback {string}
    set cache-exemption [enable|disable]
    set comment {var-string}
next
end

```

config web-proxy url-match

Parameter	Description	Type	Size	Default								
name	Configure a name for the URL to be exempted.	string	Maximum length: 63									
status	Enable/disable URLs to be exempted from caching and/or to be redirected to forward server.	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable exempting the matching URLs.</td></tr><tr><td><i>disable</i></td><td>Disable exempting the matching URLs.</td></tr></table>				Option	Description	<i>enable</i>	Enable exempting the matching URLs.	<i>disable</i>	Disable exempting the matching URLs.		
	Option	Description										
	<i>enable</i>	Enable exempting the matching URLs.										
<i>disable</i>	Disable exempting the matching URLs.											
explicit-web-proxy <name>	Explicit Web proxy names. Explicit Web proxy name.	string	Maximum length: 79									
type	URL type (simple, wildcard, list).	option	-	simple								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>simple</i></td><td>Simple URL string.</td></tr><tr><td><i>wildcard</i></td><td>Wildcard URL string (only '*').</td></tr><tr><td><i>list</i></td><td>URL list.</td></tr></table>				Option	Description	<i>simple</i>	Simple URL string.	<i>wildcard</i>	Wildcard URL string (only '*').	<i>list</i>	URL list.
	Option	Description										
	<i>simple</i>	Simple URL string.										
	<i>wildcard</i>	Wildcard URL string (only '*').										
<i>list</i>	URL list.											
url-pattern	URL pattern to be exempted from caching and/or to be redirected to forward server.	string	Maximum length: 511									
url-list	URL list to be exempted from caching and/or to be redirected to forward server.	string	Maximum length: 63									
forward-server	Forward server name.	string	Maximum length: 63									
ftp-forward-server	ftp forward server name.	string	Maximum length: 63									

Parameter	Description	Type	Size	Default						
fast-fallback	Fast fallback configuration entry name.	string	Maximum length: 63							
cache-exemption	Enable/disable exempting this URL pattern from caching.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable exempting this URL pattern from caching.</td></tr><tr><td><i>disable</i></td><td>Disable exempting this URL pattern from caching.</td></tr></table>				Option	Description	<i>enable</i>	Enable exempting this URL pattern from caching.	<i>disable</i>	Disable exempting this URL pattern from caching.
	Option	Description								
	<i>enable</i>	Enable exempting this URL pattern from caching.								
<i>disable</i>	Disable exempting this URL pattern from caching.									
comment	Comment.	var-string	Maximum length: 255							

config web-proxy wisp

Configure Websense Integrated Services Protocol (WISP) servers.

```

config web-proxy wisp
    Description: Configure Websense Integrated Services Protocol (WISP) servers.
    edit <name>
        set comment {var-string}
        set outgoing-ip {ipv4-address-any}
        set server-ip {ipv4-address-any}
        set server-port {integer}
        set max-connections {integer}
        set timeout {integer}
    next
end

```

config web-proxy wisp

Parameter	Description	Type	Size	Default
name	Server name.	string	Maximum length: 35	
comment	Comment.	var-string	Maximum length: 255	
outgoing-ip	WISP outgoing IP address.	ipv4-address-any	Not Specified	0.0.0.0
server-ip	WISP server IP address.	ipv4-address-any	Not Specified	0.0.0.0

Parameter	Description	Type	Size	Default
server-port	WISP server port (1 - 65535, default = 15868).	integer	Minimum value: 1 Maximum value: 65535	15868
max-connections	Maximum number of web proxy WISP connections (4 - 4096, default = 64).	integer	Minimum value: 4 Maximum value: 4096	64
timeout	Period of time before WISP requests time out (1 - 15 sec, default = 5).	integer	Minimum value: 1 Maximum value: 15	5

webcache

This section includes syntax for the following commands:

- [config webcache prefetch on page 1293](#)
- [config webcache reverse-cache-server on page 1294](#)
- [config webcache settings on page 1295](#)
- [config webcache user-agent on page 1299](#)

config webcache prefetch

Configure cache prefetch.

```
config webcache prefetch
  Description: Configure cache prefetch.
  edit <name>
    set url {string}
    set crawl-depth {integer}
    set ignore-robots [enable|disable]
    set interval {integer}
    set start-delay {integer}
    set repeat {integer}
    set user {string}
    set password {password}
    set user-agent <name1>, <name2>, ...
  next
end
```

config webcache prefetch

Parameter	Description	Type	Size	Default
name	Name of the prefetch item.	string	Maximum length: 35	
url	URL of the target.	string	Maximum length: 1023	
crawl-depth	Depth(0-16) to crawl the whole url.	integer	Minimum value: 0 Maximum value: 16	0
ignore-robots	Ignore robots.txt specification.	option	-	disable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Ignore robots.txt config while crawling the url.		
	<i>disable</i>	Obey robots.txt config while crawling the url.		
interval	Time interval (in seconds) to fetch the url.	integer	Minimum value: 0 Maximum value: 608400	43200
start-delay	Delay period to start the fetching (in secondss).	integer	Minimum value: 0 Maximum value: 2422800	0
repeat	How many times repeat to fetch the url (0 - 4,200,000,000).	integer	Minimum value: 0 Maximum value: 4294967295	0
user	Username for the Web resource.	string	Maximum length: 64	
password	Password for the Web resource.	password	Not Specified	
user-agent <name>	User agents can be used by this prefetch. User agent.	string	Maximum length: 79	

config webcache reverse-cache-server

Configure reverse cache server.

```

config webcache reverse-cache-server
    Description: Configure reverse cache server.
    edit <name>
        set ip {ipv4-address-any}
        set port {integer}
        set status [enable|disable]
        set priority {integer}
    next
end

```

config webcache reverse-cache-server

Parameter	Description	Type	Size	Default
name	Name of the reverse cache server	string	Maximum length: 35	
ip	Server IP address.	ipv4-address-any	Not Specified	0.0.0.0
port	Server port.	integer	Minimum value: 1 Maximum value: 65535	80
status	Enable/disable the cache server.	option	-	enable
	Option		Description	
	enable		Enable the reverse-cache-server.	
	disable		Disable the reverse-cache-server.	
priority	Priority of the cache server (reserved).	integer	Minimum value: 0 Maximum value: 15	0

config webcache settings

Configure global Web cache settings.

```
config webcache settings
  Description: Configure global Web cache settings.
  set max-object-size {integer}
  set neg-resp-time {integer}
  set fresh-factor {integer}
  set max-ttl {integer}
  set min-ttl {integer}
  set default-ttl {integer}
  set ignore-ims [enable|disable]
  set ignore-conditional [enable|disable]
  set ignore-pnc [enable|disable]
  set ignore-ie-reload [enable|disable]
  set cache-expired [enable|disable]
  set cache-cookie [enable|disable]
  set reval-pnc [enable|disable]
  set always-revalidate [enable|disable]
  set cache-by-default [enable|disable]
  set host-validate [enable|disable]
  set add-x-cache [enable|disable]
```

```

set x-cache-message {string}
set external [enable|disable]
set crawler-user-agent {string}
end

```

config webcache settings

Parameter	Description	Type	Size	Default
max-object-size	Maximum cacheable object size in kB (1 - 2147483 kb (2GB). All objects that exceed this are delivered to the client but not stored in the web cache.	integer	Minimum value: 1 Maximum value: 2147483	512000
neg-resp-time	Time in minutes to cache negative responses or errors (0 - 4294967295, default = 0 which means negative responses are not cached).	integer	Minimum value: 0 Maximum value: 4294967295	0
fresh-factor	Frequency that the server is checked to see if any objects have expired (1 - 100, default = 100). The higher the fresh factor, the less often the checks occur.	integer	Minimum value: 1 Maximum value: 100	100
max-ttl	Maximum time an object can stay in the web cache without checking to see if it has expired on the server (default = 7200 min (5 days); maximum = 5256000 min (10 years)).	integer	Minimum value: 1 Maximum value: 5256000	7200
min-ttl	Minimum time an object can stay in the web cache without checking to see if it has expired on the server (default = 5 min; maximum = 5256000 (10 years)).	integer	Minimum value: 1 Maximum value: 5256000	5
default-ttl	Default object expiry time (default = 1440 min (1 day); maximum = 5256000 min (10 years)). This only applies to those objects that do not have an expiry time set by the web server.	integer	Minimum value: 1 Maximum value: 5256000	1440
ignore-ims	Enable/disable ignoring the if-modified-since (IMS) header.	option	-	disable
		Option	Description	
		<i>enable</i>	Enable ignoring the if-modified-since (IMS) header.	
		<i>disable</i>	Disable ignoring the if-modified-since (IMS) header.	

Parameter	Description	Type	Size	Default						
ignore-conditional	Enable/disable controlling the behavior of cache-control HTTP 1.1 header values.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable ignoring cache-control HTTP 1.1 header values.</td></tr><tr><td><i>disable</i></td><td>Disable ignoring cache-control HTTP 1.1 header values.</td></tr></table>	Option	Description	<i>enable</i>	Enable ignoring cache-control HTTP 1.1 header values.	<i>disable</i>	Disable ignoring cache-control HTTP 1.1 header values.			
Option	Description									
<i>enable</i>	Enable ignoring cache-control HTTP 1.1 header values.									
<i>disable</i>	Disable ignoring cache-control HTTP 1.1 header values.									
ignore-pnc	Enable/disable ignoring the pragma no-cache (PNC) header.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable ignoring the pragma no-cache (PNC) header.</td></tr><tr><td><i>disable</i></td><td>Disable ignoring the pragma no-cache (PNC) header.</td></tr></table>	Option	Description	<i>enable</i>	Enable ignoring the pragma no-cache (PNC) header.	<i>disable</i>	Disable ignoring the pragma no-cache (PNC) header.			
Option	Description									
<i>enable</i>	Enable ignoring the pragma no-cache (PNC) header.									
<i>disable</i>	Disable ignoring the pragma no-cache (PNC) header.									
ignore-ie-reload	Enable/disable ignoring the PNC-interpretation of Internet Explorer's Accept: / header.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable ignoring the PNC-interpretation of Internet Explorer's Accept: / header.</td></tr><tr><td><i>disable</i></td><td>Disable ignoring the PNC-interpretation of Internet Explorer's Accept: / header.</td></tr></table>	Option	Description	<i>enable</i>	Enable ignoring the PNC-interpretation of Internet Explorer's Accept: / header.	<i>disable</i>	Disable ignoring the PNC-interpretation of Internet Explorer's Accept: / header.			
Option	Description									
<i>enable</i>	Enable ignoring the PNC-interpretation of Internet Explorer's Accept: / header.									
<i>disable</i>	Disable ignoring the PNC-interpretation of Internet Explorer's Accept: / header.									
cache-expired	Enable/disable caching type-1 objects that are already expired on arrival.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable caching type-1 objects that have expired.</td></tr><tr><td><i>disable</i></td><td>Disable caching type-1 objects that have expired.</td></tr></table>	Option	Description	<i>enable</i>	Enable caching type-1 objects that have expired.	<i>disable</i>	Disable caching type-1 objects that have expired.			
Option	Description									
<i>enable</i>	Enable caching type-1 objects that have expired.									
<i>disable</i>	Disable caching type-1 objects that have expired.									
cache-cookie	Enable/disable caching cookies. Since cookies contain information for or about individual users, they not usually cached.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Cache cookies.</td></tr><tr><td><i>disable</i></td><td>Do not cache cookies.</td></tr></table>	Option	Description	<i>enable</i>	Cache cookies.	<i>disable</i>	Do not cache cookies.			
Option	Description									
<i>enable</i>	Cache cookies.									
<i>disable</i>	Do not cache cookies.									
reval-pnc	Enable/disable revalidation of pragma-no-cache (PNC) to address bandwidth concerns.	option	-	disable						

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable revalidation of pragma-no-cache (PNC).		
	<i>disable</i>	Disable revalidation of pragma-no-cache (PNC).		
always-revalidate	Enable/disable revalidation of requested cached objects, which have content on the server, before serving it to the client.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable revalidation of requested cached objects.		
	<i>disable</i>	Disable revalidation of requested cached objects.		
cache-by-default	Enable/disable caching content that lacks explicit caching policies from the server.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable caching content that lacks explicit caching policies.		
	<i>disable</i>	Disable caching content that lacks explicit caching policies.		
host-validate	Enable/disable validating "Host:" with original server IP.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable validating "Host:" with original server IP.		
	<i>disable</i>	Disable validating "Host:" with original server IP.		
add-x-cache	Enable/disable appending local "X-Cache: HIT/MISS" information when http-request is cacheable.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
x-cache-message	Config customized x-cache header message (use empty string to set to default).	string	Maximum length: 400	
external	Enable/disable external Web caching.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable external Web caching		

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>disable</i>	Disable external Web caching		
crawler-user-agent	The user agent that the web crawler will use.	string	Maximum length: 255	fpx

config webcache user-agent

Configure reverse cache user agent.

```
config webcache user-agent
    Description: Configure reverse cache user agent.
    edit <name>
        set value {string}
    next
end
```

config webcache user-agent

Parameter	Description	Type	Size	Default
name	Name of the user agent item.	string	Maximum length: 35	
value	User agent of the URL.	string	Maximum length: 255	

webfilter

This section includes syntax for the following commands:

- [config webfilter categories on page 1300](#)
- [config webfilter content-header on page 1302](#)
- [config webfilter content on page 1300](#)
- [config webfilter domain-list on page 1303](#)
- [config webfilter fortiguard on page 1304](#)
- [config webfilter ftgd-local-cat on page 1306](#)
- [config webfilter ftgd-local-rating on page 1307](#)
- [config webfilter ftgd-local-risk on page 1308](#)
- [config webfilter ftgd-risk-level on page 1308](#)
- [config webfilter ftgd-statistics on page 1309](#)
- [config webfilter ips-urlfilter-cache-setting on page 1309](#)
- [config webfilter ips-urlfilter-setting on page 1310](#)
- [config webfilter ips-urlfilter-setting6 on page 1310](#)
- [config webfilter override-usr on page 1313](#)
- [config webfilter override on page 1311](#)
- [config webfilter profile on page 1313](#)
- [config webfilter search-engine on page 1330](#)
- [config webfilter status on page 1331](#)
- [config webfilter url-list on page 1335](#)
- [config webfilter urlfilter on page 1332](#)

config webfilter categories

List the FortiGuard Web Filter category descriptions.

```
config webfilter categories
    Description: List the FortiGuard Web Filter category descriptions.
end
```

config webfilter content

Configure Web filter banned word table.

```
config webfilter content
    Description: Configure Web filter banned word table.
    edit <id>
        set name {string}
```



```

set comment {var-string}
config entries
  Description: Configure banned word entries.
  edit <name>
    set pattern-type [wildcard|regex]
    set status [enable|disable]
    set lang [western|simch|...]
    set score {integer}
    set action [block|exempt]
  next
end
next
end

```

config webfilter content

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
name	Name of table.	string	Maximum length: 63	
comment	Optional comments.	var-string	Maximum length: 255	

config entries

Parameter	Description	Type	Size	Default
name	Banned word.	string	Maximum length: 127	
pattern-type	Banned word pattern type: wildcard pattern or Perl regular expression.	option	-	wildcard
	Option		Description	
	<i>wildcard</i>	Wildcard pattern.		
	<i>regex</i>	Perl regular expression.		
status	Enable/disable banned word.	option	-	disable
	Option		Description	
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		

Parameter	Description	Type	Size	Default																				
lang	Language of banned word.	option	-	western																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>western</i></td><td>Western.</td></tr><tr><td><i>simch</i></td><td>Simplified Chinese.</td></tr><tr><td><i>trach</i></td><td>Traditional Chinese.</td></tr><tr><td><i>japanese</i></td><td>Japanese.</td></tr><tr><td><i>korean</i></td><td>Korean.</td></tr><tr><td><i>french</i></td><td>French.</td></tr><tr><td><i>thai</i></td><td>Thai.</td></tr><tr><td><i>spanish</i></td><td>Spanish.</td></tr><tr><td><i>cyrillic</i></td><td>Cyrillic.</td></tr></table>	Option	Description	<i>western</i>	Western.	<i>simch</i>	Simplified Chinese.	<i>trach</i>	Traditional Chinese.	<i>japanese</i>	Japanese.	<i>korean</i>	Korean.	<i>french</i>	French.	<i>thai</i>	Thai.	<i>spanish</i>	Spanish.	<i>cyrillic</i>	Cyrillic.			
	Option	Description																						
	<i>western</i>	Western.																						
	<i>simch</i>	Simplified Chinese.																						
	<i>trach</i>	Traditional Chinese.																						
	<i>japanese</i>	Japanese.																						
	<i>korean</i>	Korean.																						
	<i>french</i>	French.																						
	<i>thai</i>	Thai.																						
	<i>spanish</i>	Spanish.																						
<i>cyrillic</i>	Cyrillic.																							
score	Score, to be applied every time the word appears on a web page (0 - 4294967295, default = 10).	integer	Minimum value: 0 Maximum value: 4294967295	10																				
action	Block or exempt word when a match is found.	option	-	block																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>block</i></td><td>Block matches.</td></tr><tr><td><i>exempt</i></td><td>Exempt matches.</td></tr></table>	Option	Description	<i>block</i>	Block matches.	<i>exempt</i>	Exempt matches.																	
	Option	Description																						
	<i>block</i>	Block matches.																						
<i>exempt</i>	Exempt matches.																							

config webfilter content-header

Configure content types used by Web filter.

```

config webfilter content-header
    Description: Configure content types used by Web filter.
    edit <id>
        set name {string}
        set comment {var-string}
        config entries
            Description: Configure content types used by web filter.
            edit <pattern>
                set action [block|allow|...]
                set category {user}
            next
        end
    next
end

```

config webfilter content-header

Parameter	Description	Type	Size	Default
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
name	Name of table.	string	Maximum length: 63	
comment	Optional comments.	var-string	Maximum length: 255	

config entries

Parameter	Description	Type	Size	Default								
pattern	Content type (regular expression).	string	Maximum length: 31									
action	Action to take for this content type.	option	-	allow								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>block</i></td><td>Block content type.</td></tr><tr><td><i>allow</i></td><td>Allow content type.</td></tr><tr><td><i>exempt</i></td><td>Exempt content type.</td></tr></table>				Option	Description	<i>block</i>	Block content type.	<i>allow</i>	Allow content type.	<i>exempt</i>	Exempt content type.
	Option	Description										
	<i>block</i>	Block content type.										
	<i>allow</i>	Allow content type.										
<i>exempt</i>	Exempt content type.											
category	Categories that this content type applies to.	user	Not Specified	all								

config webfilter domain-list

Configure Web filter Domain list.

```
config webfilter domain-list
  Description: Configure Web filter Domain list.
  edit <name>
    set uuid {uuid}
    set status [enable|disable]
    set comment {var-string}
  config entries
    Description: Domain list entries.
    edit <domain>
      next
    end
end
```

```
next
end
```

config webfilter domain-list

Parameter	Description	Type	Size	Default
name	Domain list name.	string	Maximum length: 35	
uuid	Universally Unique Identifier (UUID; automatically assigned but can be manually reset).	uuid	Not Specified	00000000-0000-0000-0000-000000000000
status	Enable/disable Domain list.	option	-	enable
		Option	Description	
		<i>enable</i>	Enable Domain list.	
		<i>disable</i>	Disable Domain list.	
comment	Comment.	var-string	Maximum length: 255	

config entries

Parameter	Description	Type	Size	Default
domain	Domain.	string	Maximum length: 511	

config webfilter fortiguard

Configure FortiGuard Web Filter service.

```
config webfilter fortiguard
  Description: Configure FortiGuard Web Filter service.
  set cache-mode [ttl|db-ver]
  set cache-prefix-match [enable|disable]
  set cache-mem-permille {integer}
  set ovrd-auth-port-http {integer}
  set ovrd-auth-port-https {integer}
  set ovrd-auth-port-https-flow {integer}
  set ovrd-auth-port-warning {integer}
  set ovrd-auth-https [enable|disable]
  set warn-auth-https [enable|disable]
  set close-ports [enable|disable]
  set request-packet-size-limit {integer}
  set embed-image [enable|disable]
end
```

config webfilter fortiguard

Parameter	Description	Type	Size	Default
cache-mode	Cache entry expiration mode.	option	-	tll
	Option	Description		
	<i>tll</i>	Expire cache items by time-to-live.		
	<i>db-ver</i>	Expire cache items when the server DB version changes.		
cache-prefix-match	Enable/disable prefix matching in the cache.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
cache-mem-permille	Maximum permille of available memory allocated to caching (1 - 150).	integer	Minimum value: 1 Maximum value: 150	1
ovrd-auth-port-http	Port to use for FortiGuard Web Filter HTTP override authentication.	integer	Minimum value: 0 Maximum value: 65535	8008
ovrd-auth-port-https	Port to use for FortiGuard Web Filter HTTPS override authentication in proxy mode.	integer	Minimum value: 0 Maximum value: 65535	8010
ovrd-auth-port-https-flow	Port to use for FortiGuard Web Filter HTTPS override authentication in flow mode.	integer	Minimum value: 0 Maximum value: 65535	8015
ovrd-auth-port-warning	Port to use for FortiGuard Web Filter Warning override authentication.	integer	Minimum value: 0 Maximum value: 65535	8020
ovrd-auth-https	Enable/disable use of HTTPS for override authentication.	option	-	enable

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
warn-auth-https	Enable/disable use of HTTPS for warning and authentication.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
close-ports	Close ports used for HTTP/HTTPS override authentication and disable user overrides.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
request-packet-size-limit	Limit size of URL request packets sent to FortiGuard server (0 for default).	integer	Minimum value: 576 Maximum value: 10000	0
embed-image	Enable/disable embedding images into replacement messages (default = enable).	option	-	enable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		

config webfilter ftgd-local-cat

Configure FortiGuard Web Filter local categories.

```
config webfilter ftgd-local-cat
    Description: Configure FortiGuard Web Filter local categories.
    edit <desc>
        set status [enable|disable]
        set id {integer}
    next
end
```

config webfilter ftgd-local-cat

Parameter	Description	Type	Size	Default
status	Enable/disable the local category.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable the local category.		
	<i>disable</i>	Disable the local category.		
id	Local category ID.	integer	Minimum value: 140 Maximum value: 191	0
desc	Local category description.	string	Maximum length: 79	

config webfilter ftgd-local-rating

Configure local FortiGuard Web Filter local ratings.

```
config webfilter ftgd-local-rating
  Description: Configure local FortiGuard Web Filter local ratings.
  edit <url>
    set status [enable|disable]
    set comment {var-string}
    set rating {user}
  next
end
```

config webfilter ftgd-local-rating

Parameter	Description	Type	Size	Default
url	URL to rate locally.	string	Maximum length: 511	
status	Enable/disable local rating.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable local rating.		
	<i>disable</i>	Disable local rating.		
comment	Comment.	var-string	Maximum length: 255	

Parameter	Description	Type	Size	Default
rating	Local rating.	user	Not Specified	

config webfilter ftgd-local-risk

Configure FortiGuard Web Filter local risk score.

```
config webfilter ftgd-local-risk
    Description: Configure FortiGuard Web Filter local risk score.
    edit <url>
        set status [enable|disable]
        set comment {var-string}
        set risk-score {integer}
    next
end
```

config webfilter ftgd-local-risk

Parameter	Description	Type	Size	Default						
url	URL to rate locally.	string	Maximum length: 511							
status	Enable/disable local risk score.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable local risk level.</td></tr><tr><td><i>disable</i></td><td>Disable local risk level.</td></tr></table>				Option	Description	<i>enable</i>	Enable local risk level.	<i>disable</i>	Disable local risk level.
	Option	Description								
	<i>enable</i>	Enable local risk level.								
<i>disable</i>	Disable local risk level.									
comment	Comment.	var-string	Maximum length: 255							
risk-score	Local risk score.	integer	Minimum value: 0 Maximum value: 100	0						

config webfilter ftgd-risk-level

Configure FortiGuard Web Filter risk level.

```
config webfilter ftgd-risk-level
    Description: Configure FortiGuard Web Filter risk level.
    edit <name>
        set high {integer}
        set low {integer}
    end
```



```
next
end
```

config webfilter ftgd-risk-level

Parameter	Description	Type	Size	Default
name	Risk level name.	string	Maximum length: 35	
high	Risk level high.	integer	Minimum value: 0 Maximum value: 100	0
low	Risk level low.	integer	Minimum value: 0 Maximum value: 100	0

config webfilter ftgd-statistics

Display rating cache and daemon statistics.

```
config webfilter ftgd-statistics
    Description: Display rating cache and daemon statistics.
end
```

config webfilter ips-urlfilter-cache-setting

Configure IPS URL filter cache settings.

```
config webfilter ips-urlfilter-cache-setting
    Description: Configure IPS URL filter cache settings.
    set dns-retry-interval {integer}
    set extended-ttl {integer}
end
```

config webfilter ips-urlfilter-cache-setting

Parameter	Description	Type	Size	Default
dns-retry-interval	Retry interval. Refresh DNS faster than TTL to capture multiple IPs for hosts. 0 means use DNS server's TTL only.	integer	Minimum value: 0 Maximum value: 2147483	0

Parameter	Description	Type	Size	Default
extended-ttl	Extend time to live beyond reported by DNS. Use of 0 means use DNS server's TTL.	integer	Minimum value: 0 Maximum value: 2147483	0

config webfilter ips-urlfilter-setting

Configure IPS URL filter settings.

```
config webfilter ips-urlfilter-setting
    Description: Configure IPS URL filter settings.
    set device {string}
    set distance {integer}
    set gateway {ipv4-address}
    set geo-filter {var-string}
end
```

config webfilter ips-urlfilter-setting

Parameter	Description	Type	Size	Default
device	Interface for this route.	string	Maximum length: 35	
distance	Administrative distance (1 - 255) for this route.	integer	Minimum value: 1 Maximum value: 255	1
gateway	Gateway IP address for this route.	ipv4-address	Not Specified	0.0.0.0
geo-filter	Filter based on geographical location. Route will NOT be installed if the resolved IP address belongs to the country in the filter.	var-string	Maximum length: 255	

config webfilter ips-urlfilter-setting6

Configure IPS URL filter settings for IPv6.

```
config webfilter ips-urlfilter-setting6
    Description: Configure IPS URL filter settings for IPv6.
    set device {string}
    set distance {integer}
    set gateway6 {ipv6-address}
```

```

    set geo-filter {var-string}
end

```

config webfilter ips-urlfilter-setting6

Parameter	Description	Type	Size	Default
device	Interface for this route.	string	Maximum length: 35	
distance	Administrative distance (1 - 255) for this route.	integer	Minimum value: 1 Maximum value: 255	1
gateway6	Gateway IPv6 address for this route.	ipv6-address	Not Specified	::
geo-filter	Filter based on geographical location. Route will NOT be installed if the resolved IPv6 address belongs to the country in the filter.	var-string	Maximum length: 255	

config webfilter override

Configure FortiGuard Web Filter administrative overrides.

```

config webfilter override
    Description: Configure FortiGuard Web Filter administrative overrides.
    edit <id>
        set status [enable|disable]
        set scope [user|user-group|...]
        set ip {ipv4-address}
        set user {string}
        set user-group {string}
        set old-profile {string}
        set new-profile {string}
        set ip6 {ipv6-address}
        set expires {user}
        set initiator {string}
    next
end

```

config webfilter override

Parameter	Description	Type	Size	Default										
id	Override rule ID.	integer	Minimum value: 0 Maximum value: 4294967295	0										
status	Enable/disable override rule.	option	-	disable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable override rule.</td></tr><tr><td><i>disable</i></td><td>Disable override rule.</td></tr></table>				Option	Description	<i>enable</i>	Enable override rule.	<i>disable</i>	Disable override rule.				
	Option	Description												
	<i>enable</i>	Enable override rule.												
<i>disable</i>	Disable override rule.													
scope	Override either the specific user, user group, IPv4 address, or IPv6 address.	option	-	user										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>user</i></td><td>Override the specified user.</td></tr><tr><td><i>user-group</i></td><td>Override the specified user group.</td></tr><tr><td><i>ip</i></td><td>Override the specified IP address.</td></tr><tr><td><i>ip6</i></td><td>Override the specified IPv6 address.</td></tr></table>				Option	Description	<i>user</i>	Override the specified user.	<i>user-group</i>	Override the specified user group.	<i>ip</i>	Override the specified IP address.	<i>ip6</i>	Override the specified IPv6 address.
	Option	Description												
	<i>user</i>	Override the specified user.												
	<i>user-group</i>	Override the specified user group.												
	<i>ip</i>	Override the specified IP address.												
<i>ip6</i>	Override the specified IPv6 address.													
ip	IPv4 address which the override applies.	ipv4-address	Not Specified	0.0.0.0										
user	Name of the user which the override applies.	string	Maximum length: 64											
user-group	Specify the user group for which the override applies.	string	Maximum length: 63											
old-profile	Name of the web filter profile which the override applies.	string	Maximum length: 35											
new-profile	Name of the new web filter profile used by the override.	string	Maximum length: 35											
ip6	IPv6 address which the override applies.	ipv6-address	Not Specified	::										
expires	Override expiration date and time, from 5 minutes to 365 from now (format: yyyy/mm/dd hh:mm:ss).	user	Not Specified	1969/12/31 16:00:00										
initiator	Initiating user of override (read-only setting).	string	Maximum length: 64											

config webfilter override-usr

Display list of user overrides.

```
config webfilter override-usr
    Description: Display list of user overrides.
end
```

config webfilter profile

Configure Web filter profiles.

```
config webfilter profile
    Description: Configure Web filter profiles.
    edit <name>
        set comment {var-string}
        set replacemsg-group {string}
        set options {option1}, {option2}, ...
        set https-replacemsg [enable|disable]
        set web-flow-log-encoding [utf-8|punycode]
        set ovr-d-perm {option1}, {option2}, ...
        set post-action [normal|block]
        config override
            Description: Web Filter override settings.
            set ovr-d-cookie [allow|deny]
            set ovr-d-scope [user|user-group|...]
            set profile-type [list|radius]
            set ovr-dur-mode [constant|ask]
            set ovr-dur {user}
            set profile-attribute [User-Name|NAS-IP-Address|...]
            set ovr-d-user-group <name1>, <name2>, ...
            set profile <name1>, <name2>, ...
        end
    end
    config web
        Description: Web content filtering settings.
        set bword-threshold {integer}
        set bword-table {integer}
        set urlfilter-table {integer}
        set content-header-list {integer}
        set blocklist [enable|disable]
        set allowlist {option1}, {option2}, ...
        set safe-search {option1}, {option2}, ...
        set youtube-restrict [none|strict|...]
        set qwant-restrict [none|strict|...]
        set vimeo-restrict {string}
        set log-search [enable|disable]
        set keyword-match <pattern1>, <pattern2>, ...
    end
    config ftgd-wf
        Description: FortiGuard Web Filter settings.
        set options {option1}, {option2}, ...
        set exempt-quota {user}
        set ovr-d {user}
```

```

config filters
    Description: FortiGuard filters.
    edit <id>
        set category {integer}
        set action [block|authenticate|...]
        set warn-duration {user}
        set auth-usr-grp <name1>, <name2>, ...
        set log [enable|disable]
        set override-replacemsg {string}
        set warning-prompt [per-domain|per-category]
        set warning-duration-type [session|timeout]
    next
end
config risk
    Description: FortiGuard risk level settings.
    edit <id>
        set risk-level {string}
        set action [block|monitor]
        set log [enable|disable]
    next
end
config quota
    Description: FortiGuard traffic quota settings.
    edit <id>
        set category {user}
        set type [time|traffic]
        set unit [B|KB|...]
        set value {integer}
        set duration {user}
        set override-replacemsg {string}
    next
end
set max-quota-timeout {integer}
set rate-javascript-urls [disable|enable]
set rate-css-urls [disable|enable]
set rate-crl-urls [disable|enable]
end
config antiphish
    Description: AntiPhishing profile.
    set status [enable|disable]
    set default-action [exempt|log|...]
    set check-uri [enable|disable]
    set check-basic-auth [enable|disable]
    set check-username-only [enable|disable]
    set max-body-len {integer}
    config inspection-entries
        Description: AntiPhishing entries.
        edit <name>
            set fortiguard-category {user}
            set action [exempt|log|...]
        next
    end
    config custom-patterns
        Description: Custom username and password regex patterns.
        edit <pattern>
            set category [username|password]

```

```

        set type [regex|literal]
    next
end
set authentication [domain-controller|ldap]
set domain-controller {string}
set ldap {string}
end
set wisp [enable|disable]
set wisp-servers <name1>, <name2>, ...
set wisp-algorithm [primary-secondary|round-robin|...]
set ia-categorization [enable|disable]
set log-all-url [enable|disable]
set web-content-log [enable|disable]
set web-filter-activex-log [enable|disable]
set web-filter-command-block-log [enable|disable]
set web-filter-cookie-log [enable|disable]
set web-filter-applet-log [enable|disable]
set web-filter-jscript-log [enable|disable]
set web-filter-js-log [enable|disable]
set web-filter-vbs-log [enable|disable]
set web-filter-unknown-log [enable|disable]
set web-filter-referer-log [enable|disable]
set web-filter-cookie-removal-log [enable|disable]
set web-url-log [enable|disable]
set web-invalid-domain-log [enable|disable]
set web-ftgd-err-log [enable|disable]
set web-ftgd-quota-usage [enable|disable]
set web-antiphishing-log [enable|disable]
next
end

```

config webfilter profile

Parameter	Description	Type	Size	Default
name	Profile name.	string	Maximum length: 35	
comment	Optional comments.	var-string	Maximum length: 255	
replacemsg-group	Replacement message group.	string	Maximum length: 35	
options	Options.	option	-	
	Option	Description		
	activexfilter	ActiveX filter.		
	cookiefilter	Cookie filter.		
	javafilter	Java applet filter.		

Parameter	Description	Type	Size	Default																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>block-invalid-url</i></td><td>Block sessions contained an invalid domain name.</td></tr><tr><td><i>jscript</i></td><td>Javascript block.</td></tr><tr><td><i>js</i></td><td>JS block.</td></tr><tr><td><i>vbs</i></td><td>VB script block.</td></tr><tr><td><i>unknown</i></td><td>Unknown script block.</td></tr><tr><td><i>intrinsic</i></td><td>Intrinsic script block.</td></tr><tr><td><i>wf-referer</i></td><td>Referring block.</td></tr><tr><td><i>wf-cookie</i></td><td>Cookie block.</td></tr><tr><td><i>per-user-bal</i></td><td>Per-user block/allow list filter</td></tr></table>	Option	Description	<i>block-invalid-url</i>	Block sessions contained an invalid domain name.	<i>jscript</i>	Javascript block.	<i>js</i>	JS block.	<i>vbs</i>	VB script block.	<i>unknown</i>	Unknown script block.	<i>intrinsic</i>	Intrinsic script block.	<i>wf-referer</i>	Referring block.	<i>wf-cookie</i>	Cookie block.	<i>per-user-bal</i>	Per-user block/allow list filter			
	Option	Description																						
	<i>block-invalid-url</i>	Block sessions contained an invalid domain name.																						
	<i>jscript</i>	Javascript block.																						
	<i>js</i>	JS block.																						
	<i>vbs</i>	VB script block.																						
	<i>unknown</i>	Unknown script block.																						
	<i>intrinsic</i>	Intrinsic script block.																						
	<i>wf-referer</i>	Referring block.																						
	<i>wf-cookie</i>	Cookie block.																						
	<i>per-user-bal</i>	Per-user block/allow list filter																						
https-replacemsg	Enable replacement messages for HTTPS.	option	-	enable																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.																	
	Option	Description																						
	<i>enable</i>	Enable setting.																						
<i>disable</i>	Disable setting.																							
web-flow-log-encoding	Log encoding in flow mode.	option	-	utf-8																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>utf-8</i></td><td>UTF-8 encoding.</td></tr><tr><td><i>punycode</i></td><td>Punycode encoding.</td></tr></table>	Option	Description	<i>utf-8</i>	UTF-8 encoding.	<i>punycode</i>	Punycode encoding.																	
	Option	Description																						
	<i>utf-8</i>	UTF-8 encoding.																						
<i>punycode</i>	Punycode encoding.																							
ovrd-perm	Permitted override types.	option	-																					
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>bannedword-override</i></td><td>Banned word override.</td></tr><tr><td><i>urlfilter-override</i></td><td>URL filter override.</td></tr><tr><td><i>fortiguard-wf-override</i></td><td>FortiGuard Web Filter override.</td></tr><tr><td><i>contenttype-check-override</i></td><td>Content-type header override.</td></tr></table>	Option	Description	<i>bannedword-override</i>	Banned word override.	<i>urlfilter-override</i>	URL filter override.	<i>fortiguard-wf-override</i>	FortiGuard Web Filter override.	<i>contenttype-check-override</i>	Content-type header override.													
	Option	Description																						
	<i>bannedword-override</i>	Banned word override.																						
	<i>urlfilter-override</i>	URL filter override.																						
	<i>fortiguard-wf-override</i>	FortiGuard Web Filter override.																						
<i>contenttype-check-override</i>	Content-type header override.																							
post-action	Action taken for HTTP POST traffic.	option	-	normal																				

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>normal</i>	Normal, POST requests are allowed.		
	<i>block</i>	POST requests are blocked.		
wisp	Enable/disable web proxy WISP.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable web proxy WISP.		
	<i>disable</i>	Disable web proxy WISP.		
wisp-servers <name>	WISP servers. Server name.	string	Maximum length: 79	
wisp-algorithm	WISP server selection algorithm.	option	-	auto-learning
	Option	Description		
	<i>primary-secondary</i>	Select the first healthy server in order.		
	<i>round-robin</i>	Select the next healthy server.		
	<i>auto-learning</i>	Select the lightest loading healthy server.		
ia-categorization	Enable/Disable use of image-analyzer engine to help categorize images with unknown category.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
log-all-url	Enable/disable logging all URLs visited.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
web-content-log	Enable/disable logging blocked web content.	option	-	enable
	Option	Description		
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		

Parameter	Description	Type	Size	Default						
web-filter-activex-log	Enable/disable logging ActiveX.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									
web-filter-command-block-log	Enable/disable logging blocked commands.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									
web-filter-cookie-log	Enable/disable logging cookie filtering.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									
web-filter-applet-log	Enable/disable logging Java applets.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									
web-filter-jscript-log	Enable/disable logging JScripts.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									
web-filter-js-log	Enable/disable logging Java scripts.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									

Parameter	Description	Type	Size	Default						
web-filter-vbs-log	Enable/disable logging VBS scripts.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									
web-filter-unknown-log	Enable/disable logging unknown scripts.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									
web-filter-referer-log	Enable/disable logging referrers.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									
web-filter-cookie-removal-log	Enable/disable logging blocked cookies.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									
web-url-log	Enable/disable logging URL filtering.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									
web-invalid-domain-log	Enable/disable logging invalid domain names.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									

Parameter	Description	Type	Size	Default						
web-ftgd-err-log	Enable/disable logging rating errors.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									
web-ftgd-quota-usage	Enable/disable logging daily quota usage.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									
web-antiphishing-log	Enable/disable logging of AntiPhishing checks.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									

config override

Parameter	Description	Type	Size	Default
ovrd-cookie	Allow/deny browser-based (cookie) overrides.	option	-	deny
	Option	Description		
	<i>allow</i>	Allow browser-based (cookie) override.		
	<i>deny</i>	Deny browser-based (cookie) override.		
ovrd-scope	Override scope.	option	-	user
	Option	Description		
	<i>user</i>	Override for the user.		
	<i>user-group</i>	Override for the user's group.		
	<i>ip</i>	Override for the initiating IP.		
	<i>browser</i>	Create browser-based (cookie) override.		
	<i>ask</i>	Prompt for scope when initiating an override.		
profile-type	Override profile type.	option	-	list

Parameter	Description	Type	Size	Default																														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>list</i></td><td>Profile chosen from list.</td></tr><tr><td><i>radius</i></td><td>Profile determined by RADIUS server.</td></tr></table>	Option	Description	<i>list</i>	Profile chosen from list.	<i>radius</i>	Profile determined by RADIUS server.																											
	Option	Description																																
	<i>list</i>	Profile chosen from list.																																
<i>radius</i>	Profile determined by RADIUS server.																																	
ovrd-dur-mode	Override duration mode.	option	-	constant																														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>constant</i></td><td>Constant mode.</td></tr><tr><td><i>ask</i></td><td>Prompt for duration when initiating an override.</td></tr></table>	Option	Description	<i>constant</i>	Constant mode.	<i>ask</i>	Prompt for duration when initiating an override.																											
	Option	Description																																
	<i>constant</i>	Constant mode.																																
<i>ask</i>	Prompt for duration when initiating an override.																																	
ovrd-dur	Override duration.	user	Not Specified	15m																														
profile-attribute	Profile attribute to retrieve from the RADIUS server.	option	-	Login-LAT-Service																														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>User-Name</i></td><td>Use this attribute.</td></tr><tr><td><i>NAS-IP-Address</i></td><td>Use this attribute.</td></tr><tr><td><i>Framed-IP-Address</i></td><td>Use this attribute.</td></tr><tr><td><i>Framed-IP-Netmask</i></td><td>Use this attribute.</td></tr><tr><td><i>Filter-Id</i></td><td>Use this attribute.</td></tr><tr><td><i>Login-IP-Host</i></td><td>Use this attribute.</td></tr><tr><td><i>Reply-Message</i></td><td>Use this attribute.</td></tr><tr><td><i>Callback-Number</i></td><td>Use this attribute.</td></tr><tr><td><i>Callback-Id</i></td><td>Use this attribute.</td></tr><tr><td><i>Framed-Route</i></td><td>Use this attribute.</td></tr><tr><td><i>Framed-IPX-Network</i></td><td>Use this attribute.</td></tr><tr><td><i>Class</i></td><td>Use this attribute.</td></tr><tr><td><i>Called-Station-Id</i></td><td>Use this attribute.</td></tr><tr><td><i>Calling-Station-Id</i></td><td>Use this attribute.</td></tr></table>	Option	Description	<i>User-Name</i>	Use this attribute.	<i>NAS-IP-Address</i>	Use this attribute.	<i>Framed-IP-Address</i>	Use this attribute.	<i>Framed-IP-Netmask</i>	Use this attribute.	<i>Filter-Id</i>	Use this attribute.	<i>Login-IP-Host</i>	Use this attribute.	<i>Reply-Message</i>	Use this attribute.	<i>Callback-Number</i>	Use this attribute.	<i>Callback-Id</i>	Use this attribute.	<i>Framed-Route</i>	Use this attribute.	<i>Framed-IPX-Network</i>	Use this attribute.	<i>Class</i>	Use this attribute.	<i>Called-Station-Id</i>	Use this attribute.	<i>Calling-Station-Id</i>	Use this attribute.			
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Parameter	Description	Type	Size	Default																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>NAS-Identifier</i></td><td>Use this attribute.</td></tr><tr><td><i>Proxy-State</i></td><td>Use this attribute.</td></tr><tr><td><i>Login-LAT-Service</i></td><td>Use this attribute.</td></tr><tr><td><i>Login-LAT-Node</i></td><td>Use this attribute.</td></tr><tr><td><i>Login-LAT-Group</i></td><td>Use this attribute.</td></tr><tr><td><i>Framed-AppleTalk-Zone</i></td><td>Use this attribute.</td></tr><tr><td><i>Acct-Session-Id</i></td><td>Use this attribute.</td></tr><tr><td><i>Acct-Multi-Session-Id</i></td><td>Use this attribute.</td></tr></table>	Option	Description	<i>NAS-Identifier</i>	Use this attribute.	<i>Proxy-State</i>	Use this attribute.	<i>Login-LAT-Service</i>	Use this attribute.	<i>Login-LAT-Node</i>	Use this attribute.	<i>Login-LAT-Group</i>	Use this attribute.	<i>Framed-AppleTalk-Zone</i>	Use this attribute.	<i>Acct-Session-Id</i>	Use this attribute.	<i>Acct-Multi-Session-Id</i>	Use this attribute.			
	Option	Description																				
	<i>NAS-Identifier</i>	Use this attribute.																				
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	<i>Framed-AppleTalk-Zone</i>	Use this attribute.																				
	<i>Acct-Session-Id</i>	Use this attribute.																				
<i>Acct-Multi-Session-Id</i>	Use this attribute.																					
ovrd-user-group <name>	User groups with permission to use the override. User group name.	string	Maximum length: 79																			
profile <name>	Web filter profile with permission to create overrides. Web profile.	string	Maximum length: 79																			

config web

Parameter	Description	Type	Size	Default
bword-threshold	Banned word score threshold.	integer	Minimum value: 0 Maximum value: 2147483647	10
bword-table	Banned word table ID.	integer	Minimum value: 0 Maximum value: 4294967295	0
urlfilter-table	URL filter table ID.	integer	Minimum value: 0 Maximum value: 4294967295	0

Parameter	Description	Type	Size	Default														
content-header-list	Content header list.	integer	Minimum value: 0 Maximum value: 4294967295	0														
blocklist	Enable/disable automatic addition of URLs detected by FortiSandbox to blocklist.	option	-	disable														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.											
Option	Description																	
<i>enable</i>	Enable setting.																	
<i>disable</i>	Disable setting.																	
allowlist	FortiGuard allowlist settings.	option	-															
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>exempt-av</i></td><td>Exempt antivirus.</td></tr><tr><td><i>exempt-webcontent</i></td><td>Exempt web content.</td></tr><tr><td><i>exempt-activex-java-cookie</i></td><td>Exempt ActiveX-JAVA-Cookie.</td></tr><tr><td><i>exempt-dlp</i></td><td>Exempt DLP.</td></tr><tr><td><i>exempt-rangeblock</i></td><td>Exempt RangeBlock.</td></tr><tr><td><i>extended-log-others</i></td><td>Support extended log.</td></tr></table>	Option	Description	<i>exempt-av</i>	Exempt antivirus.	<i>exempt-webcontent</i>	Exempt web content.	<i>exempt-activex-java-cookie</i>	Exempt ActiveX-JAVA-Cookie.	<i>exempt-dlp</i>	Exempt DLP.	<i>exempt-rangeblock</i>	Exempt RangeBlock.	<i>extended-log-others</i>	Support extended log.			
Option	Description																	
<i>exempt-av</i>	Exempt antivirus.																	
<i>exempt-webcontent</i>	Exempt web content.																	
<i>exempt-activex-java-cookie</i>	Exempt ActiveX-JAVA-Cookie.																	
<i>exempt-dlp</i>	Exempt DLP.																	
<i>exempt-rangeblock</i>	Exempt RangeBlock.																	
<i>extended-log-others</i>	Support extended log.																	
safe-search	Safe search type.	option	-															
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>url</i></td><td>Insert safe search string into URL.</td></tr><tr><td><i>header</i></td><td>Insert safe search header.</td></tr></table>	Option	Description	<i>url</i>	Insert safe search string into URL.	<i>header</i>	Insert safe search header.											
Option	Description																	
<i>url</i>	Insert safe search string into URL.																	
<i>header</i>	Insert safe search header.																	
youtube-restrict	YouTube EDU filter level.	option	-	none														
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>none</i></td><td>Full access for YouTube.</td></tr><tr><td><i>strict</i></td><td>Strict access for YouTube.</td></tr><tr><td><i>moderate</i></td><td>Moderate access for YouTube.</td></tr></table>	Option	Description	<i>none</i>	Full access for YouTube.	<i>strict</i>	Strict access for YouTube.	<i>moderate</i>	Moderate access for YouTube.									
Option	Description																	
<i>none</i>	Full access for YouTube.																	
<i>strict</i>	Strict access for YouTube.																	
<i>moderate</i>	Moderate access for YouTube.																	

Parameter	Description	Type	Size	Default
qwant-restrict	Qwant safe search level.	option	-	strict
	Option Description			
	<i>none</i>	Full access for Qwant.		
	<i>strict</i>	Strict access for Qwant.		
	<i>moderate</i>	Moderate access for Qwant.		
vimeo-restrict	Set Vimeo-restrict ("7" = don't show mature content, "134" = don't show unrated and mature content). A value of cookie "content_rating".	string	Maximum length: 63	
log-search	Enable/disable logging all search phrases.	option	-	disable
	Option Description			
	<i>enable</i>	Enable setting.		
	<i>disable</i>	Disable setting.		
keyword-match <pattern>	Search keywords to log when match is found. Pattern/keyword to search for.	string	Maximum length: 79	

config ftgd-wf

Parameter	Description	Type	Size	Default
options	Options for FortiGuard Web Filter.	option	-	ftgd-disable
	Option Description			
	<i>error-allow</i>	Allow web pages with a rating error to pass through.		
	<i>rate-server-ip</i>	Rate the server IP in addition to the domain name.		
	<i>connect-request-bypass</i>	Bypass connection which has CONNECT request.		
	<i>ftgd-disable</i>	Disable FortiGuard scanning.		
exempt-quota	Do not stop quota for these categories.	user	Not Specified	17
ovrd	Allow web filter profile overrides.	user	Not Specified	

Parameter	Description	Type	Size	Default						
max-quota-timeout	Maximum FortiGuard quota used by single page view in seconds (excludes streams).	integer	Minimum value: 1 Maximum value: 86400	300						
rate-javascript-urls	Enable/disable rating JavaScript by URL.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable rating JavaScript by URL.</td></tr><tr><td><i>enable</i></td><td>Enable rating JavaScript by URL.</td></tr></table>	Option	Description	<i>disable</i>	Disable rating JavaScript by URL.	<i>enable</i>	Enable rating JavaScript by URL.			
Option	Description									
<i>disable</i>	Disable rating JavaScript by URL.									
<i>enable</i>	Enable rating JavaScript by URL.									
rate-css-urls	Enable/disable rating CSS by URL.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable rating CSS by URL.</td></tr><tr><td><i>enable</i></td><td>Enable rating CSS by URL.</td></tr></table>	Option	Description	<i>disable</i>	Disable rating CSS by URL.	<i>enable</i>	Enable rating CSS by URL.			
Option	Description									
<i>disable</i>	Disable rating CSS by URL.									
<i>enable</i>	Enable rating CSS by URL.									
rate-crl-urls	Enable/disable rating CRL by URL.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable rating CRL by URL.</td></tr><tr><td><i>enable</i></td><td>Enable rating CRL by URL.</td></tr></table>	Option	Description	<i>disable</i>	Disable rating CRL by URL.	<i>enable</i>	Enable rating CRL by URL.			
Option	Description									
<i>disable</i>	Disable rating CRL by URL.									
<i>enable</i>	Enable rating CRL by URL.									

config filters

Parameter	Description	Type	Size	Default				
id	ID number.	integer	Minimum value: 0 Maximum value: 255	0				
category	Categories and groups the filter examines.	integer	Minimum value: 0 Maximum value: 255	0				
action	Action to take for matches.	option	-	monitor				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>block</i></td><td>Block access.</td></tr></table>				Option	Description	<i>block</i>	Block access.
Option	Description							
<i>block</i>	Block access.							

Parameter	Description	Type	Size	Default								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>authenticate</i></td><td>Authenticate user before allowing access.</td></tr><tr><td><i>monitor</i></td><td>Allow access while logging the action.</td></tr><tr><td><i>warning</i></td><td>Allow access after warning the user.</td></tr></table>	Option	Description	<i>authenticate</i>	Authenticate user before allowing access.	<i>monitor</i>	Allow access while logging the action.	<i>warning</i>	Allow access after warning the user.			
	Option	Description										
	<i>authenticate</i>	Authenticate user before allowing access.										
	<i>monitor</i>	Allow access while logging the action.										
<i>warning</i>	Allow access after warning the user.											
warn-duration	Duration of warnings.	user	Not Specified	5m								
auth-usr-grp <name>	Groups with permission to authenticate. User group name.	string	Maximum length: 79									
log	Enable/disable logging.	option	-	enable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.					
	Option	Description										
	<i>enable</i>	Enable setting.										
<i>disable</i>	Disable setting.											
override-replacemsg	Override replacement message.	string	Maximum length: 28									
warning-prompt	Warning prompts in each category or each domain.	option	-	per-category								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>per-domain</i></td><td>Per-domain warnings.</td></tr><tr><td><i>per-category</i></td><td>Per-category warnings.</td></tr></table>	Option	Description	<i>per-domain</i>	Per-domain warnings.	<i>per-category</i>	Per-category warnings.					
	Option	Description										
	<i>per-domain</i>	Per-domain warnings.										
<i>per-category</i>	Per-category warnings.											
warning-duration-type	Re-display warning after closing browser or after a timeout.	option	-	timeout								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>session</i></td><td>After session ends.</td></tr><tr><td><i>timeout</i></td><td>After timeout occurs.</td></tr></table>	Option	Description	<i>session</i>	After session ends.	<i>timeout</i>	After timeout occurs.					
	Option	Description										
	<i>session</i>	After session ends.										
<i>timeout</i>	After timeout occurs.											

config risk

Parameter	Description	Type	Size	Default
id	ID number.	integer	Minimum value: 0 Maximum value: 255	0

Parameter	Description	Type	Size	Default						
risk-level	Risk level to be examined.	string	Maximum length: 35							
action	Action to take for matches.	option	-	monitor						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>block</i></td><td>Block access.</td></tr><tr><td><i>monitor</i></td><td>Allow access while logging the action.</td></tr></table>	Option	Description	<i>block</i>	Block access.	<i>monitor</i>	Allow access while logging the action.			
Option	Description									
<i>block</i>	Block access.									
<i>monitor</i>	Allow access while logging the action.									
log	Enable/disable logging.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									

config quota

Parameter	Description	Type	Size	Default										
id	ID number.	integer	Minimum value: 0 Maximum value: 4294967295	0										
category	FortiGuard categories to apply quota to (category action must be set to monitor).	user	Not Specified											
type	Quota type.	option	-	time										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>time</i></td><td>Use a time-based quota.</td></tr><tr><td><i>traffic</i></td><td>Use a traffic-based quota.</td></tr></table>				Option	Description	<i>time</i>	Use a time-based quota.	<i>traffic</i>	Use a traffic-based quota.				
Option	Description													
<i>time</i>	Use a time-based quota.													
<i>traffic</i>	Use a traffic-based quota.													
unit	Traffic quota unit of measurement.	option	-	MB										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>B</i></td><td>Quota in bytes.</td></tr><tr><td><i>KB</i></td><td>Quota in kilobytes.</td></tr><tr><td><i>MB</i></td><td>Quota in megabytes.</td></tr><tr><td><i>GB</i></td><td>Quota in gigabytes.</td></tr></table>				Option	Description	<i>B</i>	Quota in bytes.	<i>KB</i>	Quota in kilobytes.	<i>MB</i>	Quota in megabytes.	<i>GB</i>	Quota in gigabytes.
Option	Description													
<i>B</i>	Quota in bytes.													
<i>KB</i>	Quota in kilobytes.													
<i>MB</i>	Quota in megabytes.													
<i>GB</i>	Quota in gigabytes.													

Parameter	Description	Type	Size	Default
value	Traffic quota value.	integer	Minimum value: 1 Maximum value: 4294967295	1024
duration	Duration of quota.	user	Not Specified	5m
override-replacemsg	Override replacement message.	string	Maximum length: 28	

config antiphish

Parameter	Description	Type	Size	Default								
status	Toggle AntiPhishing functionality.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable AntiPhishing functionality.</td></tr><tr><td><i>disable</i></td><td>Disable AntiPhishing functionality.</td></tr></table>				Option	Description	<i>enable</i>	Enable AntiPhishing functionality.	<i>disable</i>	Disable AntiPhishing functionality.		
	Option	Description										
	<i>enable</i>	Enable AntiPhishing functionality.										
	<i>disable</i>	Disable AntiPhishing functionality.										
default-action	Action to be taken when there is no matching rule.	option	-	exempt								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>exempt</i></td><td>Exempt requests from matching.</td></tr><tr><td><i>log</i></td><td>Log all matched requests.</td></tr><tr><td><i>block</i></td><td>Block all matched requests.</td></tr></table>				Option	Description	<i>exempt</i>	Exempt requests from matching.	<i>log</i>	Log all matched requests.	<i>block</i>	Block all matched requests.
	Option	Description										
	<i>exempt</i>	Exempt requests from matching.										
	<i>log</i>	Log all matched requests.										
<i>block</i>	Block all matched requests.											
check-uri	Enable/disable checking of GET URI parameters for known credentials.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable checking of GET URI for username and password fields.</td></tr><tr><td><i>disable</i></td><td>Disable checking of GET URI for username and password fields.</td></tr></table>				Option	Description	<i>enable</i>	Enable checking of GET URI for username and password fields.	<i>disable</i>	Disable checking of GET URI for username and password fields.		
	Option	Description										
	<i>enable</i>	Enable checking of GET URI for username and password fields.										
<i>disable</i>	Disable checking of GET URI for username and password fields.											
check-basic-auth	Enable/disable checking of HTTP Basic Auth field for known credentials.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable checking of HTTP Basic Auth field for known credentials.</td></tr><tr><td><i>disable</i></td><td>Disable checking of HTTP Basic Auth field for known credentials.</td></tr></table>				Option	Description	<i>enable</i>	Enable checking of HTTP Basic Auth field for known credentials.	<i>disable</i>	Disable checking of HTTP Basic Auth field for known credentials.		
	Option	Description										
	<i>enable</i>	Enable checking of HTTP Basic Auth field for known credentials.										
<i>disable</i>	Disable checking of HTTP Basic Auth field for known credentials.											

Parameter	Description	Type	Size	Default						
check-username-only	Enable/disable username only matching of credentials. Action will be taken for valid usernames regardless of password validity.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable username only credential matches.</td></tr><tr><td><i>disable</i></td><td>Disable username only credential matches.</td></tr></table>				Option	Description	<i>enable</i>	Enable username only credential matches.	<i>disable</i>	Disable username only credential matches.
Option	Description									
<i>enable</i>	Enable username only credential matches.									
<i>disable</i>	Disable username only credential matches.									
max-body-len	Maximum size of a POST body to check for credentials.	integer	Minimum value: 0 Maximum value: 4294967295	1024						
authentication	Authentication methods.	option	-	domain-controller						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>domain-controller</i></td><td>Domain Controller to verify user credential.</td></tr><tr><td><i>ldap</i></td><td>LDAP to verify user credential.</td></tr></table>				Option	Description	<i>domain-controller</i>	Domain Controller to verify user credential.	<i>ldap</i>	LDAP to verify user credential.
Option	Description									
<i>domain-controller</i>	Domain Controller to verify user credential.									
<i>ldap</i>	LDAP to verify user credential.									
domain-controller	Domain for which to verify received credentials against.	string	Maximum length: 63							
ldap	LDAP server for which to verify received credentials against.	string	Maximum length: 63							

config inspection-entries

Parameter	Description	Type	Size	Default								
name	Inspection target name.	string	Maximum length: 63									
fortiguard-category	FortiGuard category to match.	user	Not Specified	0								
action	Action to be taken upon an AntiPhishing match.	option	-	exempt								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>exempt</i></td><td>Exempt requests from matching.</td></tr><tr><td><i>log</i></td><td>Log all matched requests.</td></tr><tr><td><i>block</i></td><td>Block all matched requests.</td></tr></table>				Option	Description	<i>exempt</i>	Exempt requests from matching.	<i>log</i>	Log all matched requests.	<i>block</i>	Block all matched requests.
Option	Description											
<i>exempt</i>	Exempt requests from matching.											
<i>log</i>	Log all matched requests.											
<i>block</i>	Block all matched requests.											

config custom-patterns

Parameter	Description	Type	Size	Default						
pattern	Target pattern.	string	Maximum length: 255							
category	Category that the pattern matches.	option	-	username						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>username</i></td><td>Pattern matches username fields.</td></tr><tr><td><i>password</i></td><td>Pattern matches password fields.</td></tr></table>				Option	Description	<i>username</i>	Pattern matches username fields.	<i>password</i>	Pattern matches password fields.
	Option	Description								
	<i>username</i>	Pattern matches username fields.								
<i>password</i>	Pattern matches password fields.									
type	Pattern will be treated either as a regex pattern or literal string.	option	-	regex						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>regex</i></td><td>Pattern will be treated as a regex pattern.</td></tr><tr><td><i>literal</i></td><td>Pattern will be treated as a literal string.</td></tr></table>				Option	Description	<i>regex</i>	Pattern will be treated as a regex pattern.	<i>literal</i>	Pattern will be treated as a literal string.
	Option	Description								
	<i>regex</i>	Pattern will be treated as a regex pattern.								
<i>literal</i>	Pattern will be treated as a literal string.									

config webfilter search-engine

Configure web filter search engines.

```
config webfilter search-engine
  Description: Configure web filter search engines.
  edit <name>
    set hostname {string}
    set url {string}
    set query {string}
    set safesearch [disable|url|...]
    set charset [utf-8|gb2312]
    set source-url [enable|disable]
    set safesearch-str {string}
  next
end
```

config webfilter search-engine

Parameter	Description	Type	Size	Default
name	Search engine name.	string	Maximum length: 35	
hostname	Hostname (regular expression).	string	Maximum length: 127	

Parameter	Description	Type	Size	Default
url	URL (regular expression).	string	Maximum length: 127	
query	Code used to prefix a query (must end with an equals character).	string	Maximum length: 15	
safesearch	Safe search method. You can disable safe search, add the safe search string to URLs, or insert a safe search header.	option	-	disable
	Option	Description		
	<i>disable</i>	Site does not support safe search.		
	<i>url</i>	Safe search selected with a parameter in the URL.		
	<i>header</i>	Safe search selected by search header (i.e. youtube.edu).		
	<i>translate</i>	Perform URL FortiGuard check on translated URL.		
	<i>yt-pattern</i>	Pattern to match YouTube channel ID.		
	<i>yt-scan</i>	Perform IPS scan.		
	<i>yt-video</i>	Pattern to match YouTube video name.		
	<i>yt-channel</i>	Pattern to match YouTube channel name.		
charset	Search engine charset.	option	-	utf-8
	Option	Description		
	<i>utf-8</i>	UTF-8 encoding.		
	<i>gb2312</i>	GB2312 encoding.		
source-url	Enable/disable source url in the image search result.	option	-	disable
	Option	Description		
	<i>enable</i>	Enable source url in image search.		
	<i>disable</i>	Disable source url in image search.		
safesearch-str	Safe search parameter used in the URL in URL mode. In translate mode, it provides either the regex to translate the URL or the special case to translate the URL.	string	Maximum length: 255	

config webfilter status

Display rating info.

```

config webfilter status
    Description: Display rating info.
    set <refresh-rate> {string}
end

```

config webfilter status

Parameter	Description	Type	Size	Default
<refresh-rate>	Frequency to refresh the server list (sec).	string	Maximum length: -	

config webfilter urlfilter

Configure URL filter lists.

```

config webfilter urlfilter
    Description: Configure URL filter lists.
    edit <id>
        set name {string}
        set comment {var-string}
        set one-arm-ips-urlfilter [enable|disable]
        set ip-addr-block [enable|disable]
        set ip4-mapped-ip6 [enable|disable]
        config entries
            Description: URL filter entries.
            edit <id>
                set url {string}
                set type [simple|regex|...]
                set action [exempt|block|...]
                set antiphish-action [block|log]
                set status [enable|disable]
                set exempt {option1}, {option2}, ...
                set web-proxy-profile {string}
                set referrer-host {string}
                set dns-address-family [ipv4|ipv6|...]
            next
        end
    next
end

```


config webfilter urlfilter

Parameter	Description	Type	Size	Default						
id	ID.	integer	Minimum value: 0 Maximum value: 4294967295	0						
name	Name of URL filter list.	string	Maximum length: 63							
comment	Optional comments.	var-string	Maximum length: 255							
one-arm-ips-urlfilter	Enable/disable DNS resolver for one-arm IPS URL filter operation.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable DNS resolver for one-arm IPS URL filter operation.</td></tr><tr><td><i>disable</i></td><td>Disable DNS resolver for one-arm IPS URL filter operation.</td></tr></table>				Option	Description	<i>enable</i>	Enable DNS resolver for one-arm IPS URL filter operation.	<i>disable</i>	Disable DNS resolver for one-arm IPS URL filter operation.
Option	Description									
<i>enable</i>	Enable DNS resolver for one-arm IPS URL filter operation.									
<i>disable</i>	Disable DNS resolver for one-arm IPS URL filter operation.									
ip-addr-block	Enable/disable blocking URLs when the hostname appears as an IP address.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable blocking URLs when the hostname appears as an IP address.</td></tr><tr><td><i>disable</i></td><td>Disable blocking URLs when the hostname appears as an IP address.</td></tr></table>				Option	Description	<i>enable</i>	Enable blocking URLs when the hostname appears as an IP address.	<i>disable</i>	Disable blocking URLs when the hostname appears as an IP address.
Option	Description									
<i>enable</i>	Enable blocking URLs when the hostname appears as an IP address.									
<i>disable</i>	Disable blocking URLs when the hostname appears as an IP address.									
ip4-mapped-ip6	Enable/disable matching of IPv4 mapped IPv6 URLs.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable matching IPv4 mapped IPv6 URLs.</td></tr><tr><td><i>disable</i></td><td>Disable matching IPv4 mapped IPv6 URLs.</td></tr></table>				Option	Description	<i>enable</i>	Enable matching IPv4 mapped IPv6 URLs.	<i>disable</i>	Disable matching IPv4 mapped IPv6 URLs.
Option	Description									
<i>enable</i>	Enable matching IPv4 mapped IPv6 URLs.									
<i>disable</i>	Disable matching IPv4 mapped IPv6 URLs.									

config entries

Parameter	Description	Type	Size	Default
id	Id.	integer	Minimum value: 0 Maximum value: 4294967295	0

Parameter	Description	Type	Size	Default										
url	URL to be filtered.	string	Maximum length: 511											
type	Filter type (simple, regex, or wildcard).	option	-	simple										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>simple</i></td><td>Simple URL string.</td></tr><tr><td><i>regex</i></td><td>Regular expression URL string.</td></tr><tr><td><i>wildcard</i></td><td>Wildcard URL string.</td></tr></table>	Option	Description	<i>simple</i>	Simple URL string.	<i>regex</i>	Regular expression URL string.	<i>wildcard</i>	Wildcard URL string.					
Option	Description													
<i>simple</i>	Simple URL string.													
<i>regex</i>	Regular expression URL string.													
<i>wildcard</i>	Wildcard URL string.													
action	Action to take for URL filter matches.	option	-	exempt										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>exempt</i></td><td>Exempt matches.</td></tr><tr><td><i>block</i></td><td>Block matches.</td></tr><tr><td><i>allow</i></td><td>Allow matches (no log).</td></tr><tr><td><i>monitor</i></td><td>Allow matches (with log).</td></tr></table>	Option	Description	<i>exempt</i>	Exempt matches.	<i>block</i>	Block matches.	<i>allow</i>	Allow matches (no log).	<i>monitor</i>	Allow matches (with log).			
Option	Description													
<i>exempt</i>	Exempt matches.													
<i>block</i>	Block matches.													
<i>allow</i>	Allow matches (no log).													
<i>monitor</i>	Allow matches (with log).													
antiphish-action	Action to take for AntiPhishing matches.	option	-	block										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>block</i></td><td>Block matches.</td></tr><tr><td><i>log</i></td><td>Allow matches with log.</td></tr></table>	Option	Description	<i>block</i>	Block matches.	<i>log</i>	Allow matches with log.							
Option	Description													
<i>block</i>	Block matches.													
<i>log</i>	Allow matches with log.													
status	Enable/disable this URL filter.	option	-	enable										
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable this URL filter.</td></tr><tr><td><i>disable</i></td><td>Disable this URL filter.</td></tr></table>	Option	Description	<i>enable</i>	Enable this URL filter.	<i>disable</i>	Disable this URL filter.							
Option	Description													
<i>enable</i>	Enable this URL filter.													
<i>disable</i>	Disable this URL filter.													
exempt	If action is set to exempt, select the security profile operations that exempt URLs skip. Separate multiple options with a space.	option	-	av web-content activex-java-cookie dlp fortiguard range-block antiphish all										

Parameter	Description	Type	Size	Default																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>av</i></td><td>AntiVirus scanning.</td></tr><tr><td><i>web-content</i></td><td>Web filter content matching.</td></tr><tr><td><i>activex-java-cookie</i></td><td>ActiveX, Java, and cookie filtering.</td></tr><tr><td><i>dlp</i></td><td>DLP scanning.</td></tr><tr><td><i>fortiguard</i></td><td>FortiGuard web filtering.</td></tr><tr><td><i>range-block</i></td><td>Range block feature.</td></tr><tr><td><i>pass</i></td><td>Pass single connection from all.</td></tr><tr><td><i>antiphish</i></td><td>AntiPhish credential checking.</td></tr><tr><td><i>all</i></td><td>Exempt from all security profiles.</td></tr></table>	Option	Description	<i>av</i>	AntiVirus scanning.	<i>web-content</i>	Web filter content matching.	<i>activex-java-cookie</i>	ActiveX, Java, and cookie filtering.	<i>dlp</i>	DLP scanning.	<i>fortiguard</i>	FortiGuard web filtering.	<i>range-block</i>	Range block feature.	<i>pass</i>	Pass single connection from all.	<i>antiphish</i>	AntiPhish credential checking.	<i>all</i>	Exempt from all security profiles.			
	Option	Description																						
	<i>av</i>	AntiVirus scanning.																						
	<i>web-content</i>	Web filter content matching.																						
	<i>activex-java-cookie</i>	ActiveX, Java, and cookie filtering.																						
	<i>dlp</i>	DLP scanning.																						
	<i>fortiguard</i>	FortiGuard web filtering.																						
	<i>range-block</i>	Range block feature.																						
	<i>pass</i>	Pass single connection from all.																						
	<i>antiphish</i>	AntiPhish credential checking.																						
<i>all</i>	Exempt from all security profiles.																							
web-proxy-profile	Web proxy profile.	string	Maximum length: 63																					
referrer-host	Referrer host name.	string	Maximum length: 255																					
dns-address-family	Resolve IPv4 address, IPv6 address, or both from DNS server.	option	-	ipv4																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>ipv4</i></td><td>Resolve IPv4 address from DNS server.</td></tr><tr><td><i>ipv6</i></td><td>Resolve IPv6 address from DNS server.</td></tr><tr><td><i>both</i></td><td>Resolve both IPv4 and IPv6 addresses from DNS server.</td></tr></table>	Option	Description	<i>ipv4</i>	Resolve IPv4 address from DNS server.	<i>ipv6</i>	Resolve IPv6 address from DNS server.	<i>both</i>	Resolve both IPv4 and IPv6 addresses from DNS server.															
	Option	Description																						
	<i>ipv4</i>	Resolve IPv4 address from DNS server.																						
	<i>ipv6</i>	Resolve IPv6 address from DNS server.																						
<i>both</i>	Resolve both IPv4 and IPv6 addresses from DNS server.																							

config webfilter url-list

Configure Web filter URL list.

```
config webfilter url-list
  Description: Configure Web filter URL list.
  edit <name>
    set uuid {uuid}
    set status [enable|disable]
    set comment {var-string}
    config entries
      Description: URL list entries.
      edit <url>
        next
      end
    end
```

```
next
end
```

config webfilter url-list

Parameter	Description	Type	Size	Default						
name	URL list name.	string	Maximum length: 35							
uuid	Universally Unique Identifier (UUID; automatically assigned but can be manually reset).	uuid	Not Specified	00000000-0000-0000-0000-000000000000						
status	Enable/disable URL list.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable URL list.</td></tr><tr><td><i>disable</i></td><td>Disable URL list.</td></tr></table>				Option	Description	<i>enable</i>	Enable URL list.	<i>disable</i>	Disable URL list.
	Option	Description								
	<i>enable</i>	Enable URL list.								
<i>disable</i>	Disable URL list.									
comment	Comment.	var-string	Maximum length: 255							

config entries

Parameter	Description	Type	Size	Default
url	URL.	string	Maximum length: 511	

ztna

This section includes syntax for the following commands:

- [config ztna connector-service-edge](#) on page 1337
- [config ztna reverse-connector](#) on page 1338
- [config ztna service-connector](#) on page 1339
- [config ztna traffic-forward-proxy](#) on page 1342
- [config ztna web-portal-bookmark](#) on page 1347
- [config ztna web-portal](#) on page 1343
- [config ztna web-proxy](#) on page 1354

config ztna connector-service-edge

Configure ZTNA connector service edge.

```
config ztna connector-service-edge
  Description: Configure ZTNA connector service edge.
  set status [enable|disable]
  set interface <name1>, <name2>, ...
  set port {integer}
  set ssl-max-version [tls-1.1|tls-1.2|...]
  set server-cert {string}
  set trusted-client-ca <name1>, <name2>, ...
end
```

config ztna connector-service-edge

Parameter	Description	Type	Size	Default
status	Connector service edge status.	option	-	disable
	Option Description			
	enable	Enable the connector service edge.		
	disable	Disable the connector service edge.		
interface <name>	Connector service edge interface. Interface name.	string	Maximum length: 79	

Parameter	Description	Type	Size	Default								
port	Connector service edge port(1-65535, default 8443).	integer	Minimum value: 1 Maximum value: 65535	8443								
ssl-max-version	Highest TLS version accepted by server.	option	-	tls-1.3								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>tls-1.1</td><td>TLS 1.1.</td></tr><tr><td>tls-1.2</td><td>TLS 1.2.</td></tr><tr><td>tls-1.3</td><td>TLS 1.3.</td></tr></table>				Option	Description	tls-1.1	TLS 1.1.	tls-1.2	TLS 1.2.	tls-1.3	TLS 1.3.
	Option	Description										
	tls-1.1	TLS 1.1.										
	tls-1.2	TLS 1.2.										
tls-1.3	TLS 1.3.											
server-cert	Server certificate for mTLS.	string	Maximum length: 79	Fortinet_SSL								
trusted-client-ca <name>	CA certificate used for client certificate verification. CA certificate list.	string	Maximum length: 79									

config ztna reverse-connector

Configure ZTNA Reverse-Connector.

```

config ztna reverse-connector
    Description: Configure ZTNA Reverse-Connector.
    edit <name>
        set status [enable|disable]
        set address {string}
        set port {integer}
        set health-check-interval {integer}
        set ssl-max-version [tls-1.1|tls-1.2|...]
        set certificate {string}
        set trusted-server-ca {string}
    next
end

```

config ztna reverse-connector

Parameter	Description	Type	Size	Default
name	Reverse connector name	string	Maximum length: 35	
status	Reverse connector status.	option	-	enable

Parameter	Description	Type	Size	Default								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable the server.</td></tr><tr><td><i>disable</i></td><td>Disable the server.</td></tr></table>	Option	Description	<i>enable</i>	Enable the server.	<i>disable</i>	Disable the server.					
	Option	Description										
	<i>enable</i>	Enable the server.										
<i>disable</i>	Disable the server.											
address	Reverse connector address(IP or FQDN).	string	Maximum length: 255									
port	Port number that traffic uses to connect to remote server (0 - 65535;).	integer	Minimum value: 0 Maximum value: 65535	0								
health-check-interval	Health check interval in seconds (0 - 600, default = 60, 0 = disable).	integer	Minimum value: 0 Maximum value: 600	60								
ssl-max-version	Highest TLS version acceptable from a server.	option	-	tls-1.3								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>tls-1.1</i></td><td>TLS 1.1.</td></tr><tr><td><i>tls-1.2</i></td><td>TLS 1.2.</td></tr><tr><td><i>tls-1.3</i></td><td>TLS 1.3.</td></tr></table>	Option	Description	<i>tls-1.1</i>	TLS 1.1.	<i>tls-1.2</i>	TLS 1.2.	<i>tls-1.3</i>	TLS 1.3.			
	Option	Description										
	<i>tls-1.1</i>	TLS 1.1.										
	<i>tls-1.2</i>	TLS 1.2.										
<i>tls-1.3</i>	TLS 1.3.											
certificate	The name of the certificate to use for SSL handshake.	string	Maximum length: 35									
trusted-server-ca	Trusted Server CA certificate used by SSL connection.	string	Maximum length: 79									

config ztna service-connector

Configure ZTNA service connector.

```
config ztna service-connector
  Description: Configure ZTNA service connector.
  edit <name>
    set status [enable|disable]
    set connection-mode [forward|reverse]
    set forward-address {string}
    set forward-port {integer}
    set forward-destination-cn {string}
    set certificate {string}
    set trusted-ca {string}
    set encryption [enable|disable]
```

```

set ssl-max-version [ssl-3.0|tls-1.0|...]
set ssl-min-version [ssl-3.0|tls-1.0|...]
set url-map {string}
set relay-dev-info [enable|disable]
set relay-user-info [enable|disable]
set log [enable|disable]
set health-check-interval {integer}
next
end

```

config ztna service-connector

Parameter	Description	Type	Size	Default						
name	Service-connector name	string	Maximum length: 79							
status	Service-connector status.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable the service-connector.</td></tr><tr><td><i>disable</i></td><td>Disable the service-connector.</td></tr></table>				Option	Description	<i>enable</i>	Enable the service-connector.	<i>disable</i>	Disable the service-connector.
	Option	Description								
	<i>enable</i>	Enable the service-connector.								
<i>disable</i>	Disable the service-connector.									
connection-mode	Connection mode.	option	-							
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>forward</i></td><td>Forward Service.</td></tr><tr><td><i>reverse</i></td><td>Reverse Service.</td></tr></table>				Option	Description	<i>forward</i>	Forward Service.	<i>reverse</i>	Reverse Service.
	Option	Description								
	<i>forward</i>	Forward Service.								
<i>reverse</i>	Reverse Service.									
forward-address	service-connector address(IP or FQDN, reverse gateway must configure IP address).	string	Maximum length: 255							
forward-port	Port number that forward traffic uses to connect to	integer	Minimum value: 1 Maximum value: 65535	0						
forward-destination-cn	CN for forward server.	string	Maximum length: 255							
certificate	The name of the certificate to use for SSL handshake.	string	Maximum length: 35							
trusted-ca	Trusted CA certificate used by SSL inspection.	string	Maximum length: 79							
encryption	Enable/disable Encryption (default = disable).	option	-	disable						

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>enable</i>	Enable Encryption.		
	<i>disable</i>	Disable Encryption.		
ssl-max-version	Highest SSL/TLS version acceptable from a server.	option	-	tls-1.2
	Option	Description		
	<i>ssl-3.0</i>	SSL 3.0.		
	<i>tls-1.0</i>	TLS 1.0.		
	<i>tls-1.1</i>	TLS 1.1.		
	<i>tls-1.2</i>	TLS 1.2.		
	<i>tls-1.3</i>	TLS 1.3.		
ssl-min-version	Lowest SSL/TLS version acceptable from a server.	option	-	tls-1.1
	Option	Description		
	<i>ssl-3.0</i>	SSL 3.0.		
	<i>tls-1.0</i>	TLS 1.0.		
	<i>tls-1.1</i>	TLS 1.1.		
	<i>tls-1.2</i>	TLS 1.2.		
	<i>tls-1.3</i>	TLS 1.3.		
url-map	URL pattern to match.	string	Maximum length: 63	/tcp
relay-dev-info	Enable/disable device info relay.	option	-	disable
	Option	Description		
	<i>enable</i>	Relay device information to service connector		
	<i>disable</i>	Do not relay device information to service connector.		
relay-user-info	Enable/disable user info relay.	option	-	disable
	Option	Description		
	<i>enable</i>	Relay user information to service connector		
	<i>disable</i>	Do not relay user information to service connector.		

Parameter	Description	Type	Size	Default
log	Enable/disable logging of traffic.	option	-	enable
	Option	Description		
	<i>enable</i>	Log all traffic by this service connector.		
	<i>disable</i>	Do not log traffic by this service connector.		
health-check-interval	health check interval(0-600 seconds, default 60, 0 means disable).	integer	Minimum value: 0 Maximum value: 600	60

config ztna traffic-forward-proxy

Configure ZTNA traffic-forward-proxy.

```

config ztna traffic-forward-proxy
  Description: Configure ZTNA traffic-forward-proxy.
  edit <name>
    config url-route
      Description: Set URL Route.
      edit <name>
        set url-pattern {string}
        set service-connector {string}
      next
    end
    set vip {string}
    set host {string}
    set decrypted-traffic-mirror {string}
    set log-blocked-traffic [disable|enable]
    set auth-portal [disable|enable]
    set auth-virtual-host {string}
  next
end

```

config ztna traffic-forward-proxy

Parameter	Description	Type	Size	Default
name	ZTNA proxy name.	string	Maximum length: 79	
vip	Virtual IP name.	string	Maximum length: 79	
host	Virtual or real host name.	string	Maximum length: 79	

Parameter	Description	Type	Size	Default						
decrypted-traffic-mirror	Decrypted traffic mirror.	string	Maximum length: 35							
log-blocked-traffic	Enable/disable logging of blocked traffic.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Do not log all traffic denied by this ZTNA web-proxy.</td></tr><tr><td><i>enable</i></td><td>Log all traffic denied by this ZTNA web-proxy.</td></tr></table>	Option	Description	<i>disable</i>	Do not log all traffic denied by this ZTNA web-proxy.	<i>enable</i>	Log all traffic denied by this ZTNA web-proxy.			
Option	Description									
<i>disable</i>	Do not log all traffic denied by this ZTNA web-proxy.									
<i>enable</i>	Log all traffic denied by this ZTNA web-proxy.									
auth-portal	Enable/disable authentication portal.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable authentication portal.</td></tr><tr><td><i>enable</i></td><td>Enable authentication portal.</td></tr></table>	Option	Description	<i>disable</i>	Disable authentication portal.	<i>enable</i>	Enable authentication portal.			
Option	Description									
<i>disable</i>	Disable authentication portal.									
<i>enable</i>	Enable authentication portal.									
auth-virtual-host	Virtual host for authentication portal.	string	Maximum length: 79							

config url-route

Parameter	Description	Type	Size	Default
name	URL Route name	string	Maximum length: 79	
url-pattern	URL pattern to match.	string	Maximum length: 511	/tcp
service-connector	Service Connector.	string	Maximum length: 79	

config ztna web-portal

Configure ztna web-portal.

```

config ztna web-portal
  Description: Configure ztna web-portal.
  edit <name>
    set vip {string}
    set host {string}
    set decrypted-traffic-mirror {string}
    set log-blocked-traffic [disable|enable]
    set auth-portal [disable|enable]
    set auth-virtual-host {string}
    set auth-rule {string}
    set display-bookmark [enable|disable]
  
```

```

set focus-bookmark [enable|disable]
set display-status [enable|disable]
set display-history [enable|disable]
set policy-auth-sso [enable|disable]
set heading {string}
set theme [jade|neutrino|...]
set clipboard [enable|disable]
set default-window-width {integer}
set default-window-height {integer}
set cookie-age {integer}
set forticlient-download [enable|disable]
set forticlient-download-method [direct|ssl-vpn]
set customize-forticlient-download-url [enable|disable]
set windows-forticlient-download-url {var-string}
set macos-forticlient-download-url {var-string}
set bookmarks {string}

```

next

end

config ztna web-portal

Parameter	Description	Type	Size	Default						
name	ZTNA proxy name.	string	Maximum length: 79							
vip	Virtual IP name.	string	Maximum length: 79							
host	Virtual or real host name.	string	Maximum length: 79							
decrypted-traffic-mirror	Decrypted traffic mirror.	string	Maximum length: 35							
log-blocked-traffic	Enable/disable logging of blocked traffic.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Do not log all traffic denied by this ZTNA web-proxy.</td></tr><tr><td><i>enable</i></td><td>Log all traffic denied by this ZTNA web-proxy.</td></tr></table>				Option	Description	<i>disable</i>	Do not log all traffic denied by this ZTNA web-proxy.	<i>enable</i>	Log all traffic denied by this ZTNA web-proxy.
Option	Description									
<i>disable</i>	Do not log all traffic denied by this ZTNA web-proxy.									
<i>enable</i>	Log all traffic denied by this ZTNA web-proxy.									
auth-portal	Enable/disable authentication portal.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable authentication portal.</td></tr><tr><td><i>enable</i></td><td>Enable authentication portal.</td></tr></table>				Option	Description	<i>disable</i>	Disable authentication portal.	<i>enable</i>	Enable authentication portal.
Option	Description									
<i>disable</i>	Disable authentication portal.									
<i>enable</i>	Enable authentication portal.									
auth-virtual-host	Virtual host for authentication portal.	string	Maximum length: 79							

Parameter	Description	Type	Size	Default						
auth-rule	Authentication Rule.	string	Maximum length: 35							
display-bookmark	Enable to display the web portal bookmark widget.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									
focus-bookmark	Enable to prioritize the placement of the bookmark section over the quick-connection section in the ztna web-portal.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									
display-status	Enable to display the web portal status widget.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									
display-history	Enable to display the web portal user login history widget.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									
policy-auth-sso	Enable policy sso authentication.	option	-	enable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.			
Option	Description									
<i>enable</i>	Enable setting.									
<i>disable</i>	Disable setting.									
heading	Web portal heading message.	string	Maximum length: 31	ZTNA Portal						
theme	Web portal color scheme.	option	-	security-fabric						

Parameter	Description	Type	Size	Default																						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>jade</i></td><td>Jade theme.</td></tr><tr><td><i>neutrino</i></td><td>Neutrino theme.</td></tr><tr><td><i>mariner</i></td><td>Mariner theme.</td></tr><tr><td><i>graphite</i></td><td>Graphite theme.</td></tr><tr><td><i>melongene</i></td><td>Melongene theme.</td></tr><tr><td><i>jet-stream</i></td><td>Jet Stream theme.</td></tr><tr><td><i>security-fabric</i></td><td>Security Fabric theme.</td></tr><tr><td><i>dark-matter</i></td><td>Dark Matter theme.</td></tr><tr><td><i>onyx</i></td><td>Onyx theme.</td></tr><tr><td><i>eclipse</i></td><td>Eclipse theme.</td></tr></table>	Option	Description	<i>jade</i>	Jade theme.	<i>neutrino</i>	Neutrino theme.	<i>mariner</i>	Mariner theme.	<i>graphite</i>	Graphite theme.	<i>melongene</i>	Melongene theme.	<i>jet-stream</i>	Jet Stream theme.	<i>security-fabric</i>	Security Fabric theme.	<i>dark-matter</i>	Dark Matter theme.	<i>onyx</i>	Onyx theme.	<i>eclipse</i>	Eclipse theme.			
	Option	Description																								
	<i>jade</i>	Jade theme.																								
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	<i>security-fabric</i>	Security Fabric theme.																								
	<i>dark-matter</i>	Dark Matter theme.																								
	<i>onyx</i>	Onyx theme.																								
<i>eclipse</i>	Eclipse theme.																									
clipboard	Enable to support RDP/VPC clipboard functionality.	option	-	enable																						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable support of RDP/VNC clipboard.</td></tr><tr><td><i>disable</i></td><td>Disable support of RDP/VNC clipboard.</td></tr></table>	Option	Description	<i>enable</i>	Enable support of RDP/VNC clipboard.	<i>disable</i>	Disable support of RDP/VNC clipboard.																			
	Option	Description																								
	<i>enable</i>	Enable support of RDP/VNC clipboard.																								
<i>disable</i>	Disable support of RDP/VNC clipboard.																									
default-window-width	Screen width (range from 0 - 65535, default = 1024).	integer	Minimum value: 0 Maximum value: 65535	1024																						
default-window-height	Screen height (range from 0 - 65535, default = 768).	integer	Minimum value: 0 Maximum value: 65535	768																						
cookie-age	Time in minutes that client web browsers should keep a cookie. Default is 60 minutes. 0 = no time limit.	integer	Minimum value: 0 Maximum value: 525600	60																						
forticlient-download	Enable/disable download option for FortiClient.	option	-	enable																						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr></table>	Option	Description	<i>enable</i>	Enable setting.																					
	Option	Description																								
<i>enable</i>	Enable setting.																									

Parameter	Description	Type	Size	Default						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>				Option	Description	<i>disable</i>	Disable setting.		
	Option	Description								
<i>disable</i>	Disable setting.									
forticlient-download-method	FortiClient download method.	option	-	direct						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>direct</i></td><td>Download via direct link.</td></tr><tr><td><i>ssl-vpn</i></td><td>Download via SSL-VPN.</td></tr></table>				Option	Description	<i>direct</i>	Download via direct link.	<i>ssl-vpn</i>	Download via SSL-VPN.
	Option	Description								
	<i>direct</i>	Download via direct link.								
<i>ssl-vpn</i>	Download via SSL-VPN.									
customize-forticlient-download-url	Enable support of customized download URL for FortiClient.	option	-	disable						
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable setting.</td></tr><tr><td><i>disable</i></td><td>Disable setting.</td></tr></table>				Option	Description	<i>enable</i>	Enable setting.	<i>disable</i>	Disable setting.
	Option	Description								
	<i>enable</i>	Enable setting.								
<i>disable</i>	Disable setting.									
windows-forticlient-download-url	Download URL for Windows FortiClient.	var-string	Maximum length: 1023							
macos-forticlient-download-url	Download URL for Mac FortiClient.	var-string	Maximum length: 1023							
bookmarks	Dynamic bookmarks.	string	Maximum length: 35							

config ztna web-portal-bookmark

Configure ztna web-portal bookmark.

```
config ztna web-portal-bookmark
  Description: Configure ztna web-portal bookmark.
  edit <name>
    set type [user|ldap-dynamic|...]
    set users <name1>, <name2>, ...
    set groups <name1>, <name2>, ...
    config bookmarks
      Description: Bookmark table.
      edit <name>
        set apptype [ftp|rdp|...]
        set url {var-string}
        set host {var-string}
```

```

        set folder {var-string}
        set domain {var-string}
        set description {var-string}
        set keyboard-layout [ar-101|ar-102|...]
        set security [any|rdp|...]
        set send-preconnection-id [enable|disable]
        set preconnection-id {integer}
        set preconnection-blob {var-string}
        set load-balancing-info {var-string}
        set restricted-admin [enable|disable]
        set port {integer}
        set logon-user {var-string}
        set logon-password {password}
        set color-depth [32|16|...]
        set sso [disable|enable]
        set width {integer}
        set height {integer}
        set vnc-keyboard-layout [default|da|...]
    next
end
next
end

```

config ztna web-portal-bookmark

Parameter	Description	Type	Size	Default
name	Bookmark name.	string	Maximum length: 35	
type	Bookmark type	option	-	user
	Option	Description		
	<i>user</i>	Users/Groups.		
	<i>ldap-dynamic</i>	LDAP attributes dynamic.		
	<i>saml-dynamic</i>	SAML attributes dynamic.		
users <name>	User name. User name.	string	Maximum length: 79	
groups <name>	User groups. Group name.	string	Maximum length: 79	

config bookmarks

Parameter	Description	Type	Size	Default
name	Bookmark name.	string	Maximum length: 35	

Parameter	Description	Type	Size	Default																				
apptype	Application type.	option	-	web																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>ftp</i></td><td>FTP.</td></tr><tr><td><i>rdp</i></td><td>RDP.</td></tr><tr><td><i>sftp</i></td><td>SFTP.</td></tr><tr><td><i>smb</i></td><td>SMB/CIFS.</td></tr><tr><td><i>ssh</i></td><td>SSH.</td></tr><tr><td><i>telnet</i></td><td>Telnet.</td></tr><tr><td><i>vnc</i></td><td>VNC.</td></tr><tr><td><i>web</i></td><td>HTTP/HTTPS.</td></tr></table>	Option	Description	<i>ftp</i>	FTP.	<i>rdp</i>	RDP.	<i>sftp</i>	SFTP.	<i>smb</i>	SMB/CIFS.	<i>ssh</i>	SSH.	<i>telnet</i>	Telnet.	<i>vnc</i>	VNC.	<i>web</i>	HTTP/HTTPS.					
	Option	Description																						
	<i>ftp</i>	FTP.																						
	<i>rdp</i>	RDP.																						
	<i>sftp</i>	SFTP.																						
	<i>smb</i>	SMB/CIFS.																						
	<i>ssh</i>	SSH.																						
	<i>telnet</i>	Telnet.																						
	<i>vnc</i>	VNC.																						
<i>web</i>	HTTP/HTTPS.																							
url	URL parameter.	var-string	Maximum length: 128																					
host	Host name/IP parameter.	var-string	Maximum length: 128																					
folder	Network shared file folder parameter.	var-string	Maximum length: 128																					
domain	Login domain.	var-string	Maximum length: 128																					
description	Description.	var-string	Maximum length: 128																					
keyboard-layout	Keyboard layout.	option	-	en-us																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>ar-101</i></td><td>Arabic (101).</td></tr><tr><td><i>ar-102</i></td><td>Arabic (102).</td></tr><tr><td><i>ar-102-azerty</i></td><td>Arabic (102) AZERTY.</td></tr><tr><td><i>can-mul</i></td><td>Canadian Multilingual Standard.</td></tr><tr><td><i>cz</i></td><td>Czech.</td></tr><tr><td><i>cz-qwerty</i></td><td>Czech (QWERTY).</td></tr><tr><td><i>cz-pr</i></td><td>Czech Programmers.</td></tr><tr><td><i>da</i></td><td>Danish.</td></tr><tr><td><i>nl</i></td><td>Dutch.</td></tr></table>	Option	Description	<i>ar-101</i>	Arabic (101).	<i>ar-102</i>	Arabic (102).	<i>ar-102-azerty</i>	Arabic (102) AZERTY.	<i>can-mul</i>	Canadian Multilingual Standard.	<i>cz</i>	Czech.	<i>cz-qwerty</i>	Czech (QWERTY).	<i>cz-pr</i>	Czech Programmers.	<i>da</i>	Danish.	<i>nl</i>	Dutch.			
	Option	Description																						
	<i>ar-101</i>	Arabic (101).																						
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<i>nl</i>	Dutch.																							

Parameter	Description	Type	Size	Default

Option	Description
<i>de</i>	German.
<i>de-ch</i>	German, Switzerland.
<i>de-ibm</i>	German (IBM).
<i>en-uk</i>	English, United Kingdom.
<i>en-uk-ext</i>	English, United Kingdom Extended.
<i>en-us</i>	English, United States.
<i>en-us-dvorak</i>	English, United States-Dvorak.
<i>es</i>	Spanish.
<i>es-var</i>	Spanish Variation.
<i>fi</i>	Finnish.
<i>fi-sami</i>	Finnish with Sami.
<i>fr</i>	French.
<i>fr-apple</i>	French, Apple.
<i>fr-ca</i>	French, Canada.
<i>fr-ch</i>	French, Switzerland.
<i>fr-be</i>	French, Belgium.
<i>hr</i>	Croatian.
<i>hu</i>	Hungarian.
<i>hu-101</i>	Hungarian 101-Key.
<i>it</i>	Italian.
<i>it-142</i>	Italian (142).
<i>ja</i>	Japanese.
<i>ja-106</i>	Japanese 106/109 key.
<i>ko</i>	Korean.
<i>la-am</i>	Latin American.
<i>lt</i>	Lithuanian.
<i>lt-ibm</i>	Lithuanian IBM.
<i>lt-std</i>	Lithuanian Standard.
<i>lav-std</i>	Latvian (Standard).

Parameter	Description	Type	Size	Default																																																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>lav-leg</i></td><td>Latvian (Legacy).</td></tr><tr><td><i>mk</i></td><td>Macedonian (FYROM).</td></tr><tr><td><i>mk-std</i></td><td>Macedonia (FYROM) - Standard.</td></tr><tr><td><i>no</i></td><td>Norwegian.</td></tr><tr><td><i>no-sami</i></td><td>Norwegian with Sami.</td></tr><tr><td><i>pol-214</i></td><td>Polish (214).</td></tr><tr><td><i>pol-pr</i></td><td>Polish (Programmers).</td></tr><tr><td><i>pt</i></td><td>Portuguese.</td></tr><tr><td><i>pt-br</i></td><td>Portuguese (Brazilian ABNT).</td></tr><tr><td><i>pt-br-abnt2</i></td><td>Portuguese (Brazilian ABNT2).</td></tr><tr><td><i>ru</i></td><td>Russian.</td></tr><tr><td><i>ru-mne</i></td><td>Russian - Mnemonic.</td></tr><tr><td><i>ru-t</i></td><td>Russian (Typewriter).</td></tr><tr><td><i>sl</i></td><td>Slovenian.</td></tr><tr><td><i>sv</i></td><td>Swedish.</td></tr><tr><td><i>sv-sami</i></td><td>Swedish with Sami.</td></tr><tr><td><i>tuk</i></td><td>Turkmen.</td></tr><tr><td><i>tur-f</i></td><td>Turkish F.</td></tr><tr><td><i>tur-q</i></td><td>Turkish Q.</td></tr><tr><td><i>zh-sym-sg-us</i></td><td>Chinese (Simplified, Singapore) - US keyboard.</td></tr><tr><td><i>zh-sym-us</i></td><td>Chinese (Simplified) - US Keyboard.</td></tr><tr><td><i>zh-tr-hk</i></td><td>Chinese (Traditional, Hong Kong S.A.R.).</td></tr><tr><td><i>zh-tr-mo</i></td><td>Chinese (Traditional Macao S.A.R.) - US Keyboard.</td></tr><tr><td><i>zh-tr-us</i></td><td>Chinese (Traditional) - US keyboard.</td></tr></table>	Option	Description	<i>lav-leg</i>	Latvian (Legacy).	<i>mk</i>	Macedonian (FYROM).	<i>mk-std</i>	Macedonia (FYROM) - Standard.	<i>no</i>	Norwegian.	<i>no-sami</i>	Norwegian with Sami.	<i>pol-214</i>	Polish (214).	<i>pol-pr</i>	Polish (Programmers).	<i>pt</i>	Portuguese.	<i>pt-br</i>	Portuguese (Brazilian ABNT).	<i>pt-br-abnt2</i>	Portuguese (Brazilian ABNT2).	<i>ru</i>	Russian.	<i>ru-mne</i>	Russian - Mnemonic.	<i>ru-t</i>	Russian (Typewriter).	<i>sl</i>	Slovenian.	<i>sv</i>	Swedish.	<i>sv-sami</i>	Swedish with Sami.	<i>tuk</i>	Turkmen.	<i>tur-f</i>	Turkish F.	<i>tur-q</i>	Turkish Q.	<i>zh-sym-sg-us</i>	Chinese (Simplified, Singapore) - US keyboard.	<i>zh-sym-us</i>	Chinese (Simplified) - US Keyboard.	<i>zh-tr-hk</i>	Chinese (Traditional, Hong Kong S.A.R.).	<i>zh-tr-mo</i>	Chinese (Traditional Macao S.A.R.) - US Keyboard.	<i>zh-tr-us</i>	Chinese (Traditional) - US keyboard.			
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	<i>zh-tr-hk</i>	Chinese (Traditional, Hong Kong S.A.R.).																																																				
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<i>zh-tr-us</i>	Chinese (Traditional) - US keyboard.																																																					
security	Security mode for RDP connection (default = any).	option	-	any																																																		
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>any</i></td><td>Allow the server to choose the type of security.</td></tr><tr><td><i>rdp</i></td><td>Standard RDP encryption.</td></tr></table>	Option	Description	<i>any</i>	Allow the server to choose the type of security.	<i>rdp</i>	Standard RDP encryption.																																															
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Parameter	Description	Type	Size	Default								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>nla</i></td><td>Network Level Authentication.</td></tr><tr><td><i>tls</i></td><td>TLS encryption.</td></tr></table>	Option	Description	<i>nla</i>	Network Level Authentication.	<i>tls</i>	TLS encryption.					
	Option	Description										
	<i>nla</i>	Network Level Authentication.										
<i>tls</i>	TLS encryption.											
send-preconnection-id	Enable/disable sending of preconnection ID.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable sending of preconnection ID.</td></tr><tr><td><i>disable</i></td><td>Disable sending of preconnection ID.</td></tr></table>	Option	Description	<i>enable</i>	Enable sending of preconnection ID.	<i>disable</i>	Disable sending of preconnection ID.					
	Option	Description										
	<i>enable</i>	Enable sending of preconnection ID.										
<i>disable</i>	Disable sending of preconnection ID.											
preconnection-id	The numeric ID of the RDP source (0-4294967295).	integer	Minimum value: 0 Maximum value: 4294967295	0								
preconnection-blob	An arbitrary string which identifies the RDP source.	var-string	Maximum length: 511									
load-balancing-info	The load balancing information or cookie which should be provided to the connection broker.	var-string	Maximum length: 511									
restricted-admin	Enable/disable restricted admin mode for RDP.	option	-	disable								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>enable</i></td><td>Enable restricted admin mode for RDP.</td></tr><tr><td><i>disable</i></td><td>Disable restricted admin mode for RDP.</td></tr></table>	Option	Description	<i>enable</i>	Enable restricted admin mode for RDP.	<i>disable</i>	Disable restricted admin mode for RDP.					
	Option	Description										
	<i>enable</i>	Enable restricted admin mode for RDP.										
<i>disable</i>	Disable restricted admin mode for RDP.											
port	Remote port.	integer	Minimum value: 0 Maximum value: 65535	0								
logon-user	Logon user.	var-string	Maximum length: 35									
logon-password	Logon password.	password	Not Specified									
color-depth	Color depth per pixel.	option	-	16								
	<table><tr><th>Option</th><th>Description</th></tr><tr><td>32</td><td>32bits per pixel.</td></tr><tr><td>16</td><td>16bits per pixel.</td></tr><tr><td>8</td><td>8bits per pixel.</td></tr></table>	Option	Description	32	32bits per pixel.	16	16bits per pixel.	8	8bits per pixel.			
	Option	Description										
	32	32bits per pixel.										
	16	16bits per pixel.										
8	8bits per pixel.											

Parameter	Description	Type	Size	Default																																				
sso	Single sign-on.	option	-	disable																																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>disable</i></td><td>Disable SSO.</td></tr><tr><td><i>enable</i></td><td>Enable SSO.</td></tr></table>				Option	Description	<i>disable</i>	Disable SSO.	<i>enable</i>	Enable SSO.																														
	Option	Description																																						
	<i>disable</i>	Disable SSO.																																						
<i>enable</i>	Enable SSO.																																							
width	Screen width (range from 0 - 65535, default = 0).	integer	Minimum value: 0 Maximum value: 65535	0																																				
height	Screen height (range from 0 - 65535, default = 0).	integer	Minimum value: 0 Maximum value: 65535	0																																				
vnc-keyboard-layout	Keyboard layout.	option	-	default																																				
	<table><tr><th>Option</th><th>Description</th></tr><tr><td><i>default</i></td><td>Default.</td></tr><tr><td><i>da</i></td><td>Danish.</td></tr><tr><td><i>nl</i></td><td>Dutch.</td></tr><tr><td><i>en-uk</i></td><td>English, United Kingdom.</td></tr><tr><td><i>en-uk-ext</i></td><td>English, United Kingdom Extended.</td></tr><tr><td><i>fi</i></td><td>Finnish.</td></tr><tr><td><i>fr</i></td><td>French.</td></tr><tr><td><i>fr-be</i></td><td>French, Belgium.</td></tr><tr><td><i>fr-ca-mul</i></td><td>French, Canadian Multilingual Std.</td></tr><tr><td><i>de</i></td><td>German.</td></tr><tr><td><i>de-ch</i></td><td>German, Switzerland.</td></tr><tr><td><i>it</i></td><td>Italian.</td></tr><tr><td><i>it-142</i></td><td>Italian (142).</td></tr><tr><td><i>pt</i></td><td>Portuguese.</td></tr><tr><td><i>pt-br-abnt2</i></td><td>Portuguese (Brazilian ABNT2).</td></tr><tr><td><i>no</i></td><td>Norwegian.</td></tr><tr><td><i>gd</i></td><td>Scottish Gaelic.</td></tr></table>				Option	Description	<i>default</i>	Default.	<i>da</i>	Danish.	<i>nl</i>	Dutch.	<i>en-uk</i>	English, United Kingdom.	<i>en-uk-ext</i>	English, United Kingdom Extended.	<i>fi</i>	Finnish.	<i>fr</i>	French.	<i>fr-be</i>	French, Belgium.	<i>fr-ca-mul</i>	French, Canadian Multilingual Std.	<i>de</i>	German.	<i>de-ch</i>	German, Switzerland.	<i>it</i>	Italian.	<i>it-142</i>	Italian (142).	<i>pt</i>	Portuguese.	<i>pt-br-abnt2</i>	Portuguese (Brazilian ABNT2).	<i>no</i>	Norwegian.	<i>gd</i>	Scottish Gaelic.
	Option	Description																																						
	<i>default</i>	Default.																																						
	<i>da</i>	Danish.																																						
	<i>nl</i>	Dutch.																																						
	<i>en-uk</i>	English, United Kingdom.																																						
	<i>en-uk-ext</i>	English, United Kingdom Extended.																																						
	<i>fi</i>	Finnish.																																						
	<i>fr</i>	French.																																						
	<i>fr-be</i>	French, Belgium.																																						
	<i>fr-ca-mul</i>	French, Canadian Multilingual Std.																																						
	<i>de</i>	German.																																						
	<i>de-ch</i>	German, Switzerland.																																						
	<i>it</i>	Italian.																																						
	<i>it-142</i>	Italian (142).																																						
	<i>pt</i>	Portuguese.																																						
	<i>pt-br-abnt2</i>	Portuguese (Brazilian ABNT2).																																						
<i>no</i>	Norwegian.																																							
<i>gd</i>	Scottish Gaelic.																																							

Parameter	Description	Type	Size	Default
	Option	Description		
	<i>es</i>	Spanish.		
	<i>sv</i>	Swedish.		
	<i>us-intl</i>	United States-International.		

config ztna web-proxy

Configure ZTNA web-proxy.

```
config ztna web-proxy
  Description: Configure ZTNA web-proxy.
  edit <name>
    set vip {string}
    set host {string}
    set decrypted-traffic-mirror {string}
    set log-blocked-traffic [disable|enable]
    set auth-portal [disable|enable]
    set auth-virtual-host {string}
    set vip6 {string}
  next
end
```

config ztna web-proxy

Parameter	Description	Type	Size	Default
name	ZTNA proxy name.	string	Maximum length: 79	
vip	Virtual IP name.	string	Maximum length: 79	
host	Virtual or real host name.	string	Maximum length: 79	
decrypted-traffic-mirror	Decrypted traffic mirror.	string	Maximum length: 35	
log-blocked-traffic	Enable/disable logging of blocked traffic.	option	-	enable
	Option	Description		
	<i>disable</i>	Do not log all traffic denied by this ZTNA web-proxy.		
	<i>enable</i>	Log all traffic denied by this ZTNA web-proxy.		

Parameter	Description	Type	Size	Default
auth-portal	Enable/disable authentication portal.	option	-	disable
	Option Description			
	<i>disable</i>	Disable authentication portal.		
	<i>enable</i>	Enable authentication portal.		
auth-virtual-host	Virtual host for authentication portal.	string	Maximum length: 79	
vip6	Virtual IPv6 name.	string	Maximum length: 79	

CLI diagnose commands

Use diagnose commands to run debugging commands.

This section includes syntax for the following commands:

- [diagnose alertconsole on page 1357](#)
- [diagnose antivirus on page 1358](#)
- [diagnose automation on page 1360](#)
- [diagnose autoupdate on page 1361](#)
- [diagnose casb on page 1362](#)
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- [diagnose ipv6 route on page 1515](#)
- [diagnose lldprx on page 1515](#)
- [diagnose log on page 1518](#)
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- [diagnose nodejs on page 1527](#)
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- [diagnose on-demand-sniffer on page 1529](#)
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- [diagnose vendor-mac on page 1682](#)
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diagnose alertconsole

alertconsole

This topic includes the following commands:

- [diagnose alertconsole clear on page 1358](#)
- [diagnose alertconsole fgd-retrieve on page 1358](#)

- [diagnose alertconsole list on page 1358](#)
- [diagnose alertconsole test on page 1358](#)

diagnose alertconsole clear

Clear alert messages.

```
diagnose alertconsole clear
```

diagnose alertconsole fgd-retrieve

Retrieve FortiGuard alerts.

```
diagnose alertconsole fgd-retrieve
```

diagnose alertconsole list

List current alert messages.

```
diagnose alertconsole list
```

diagnose alertconsole test

Generate alert messages.

```
diagnose alertconsole test
```

diagnose antivirus

antivirus

This topic includes the following commands:

- [diagnose antivirus database-info on page 1359](#)
- [diagnose antivirus outbreak-prevention on page 1359](#)
- [diagnose antivirus outbreak-prevention statistics on page 1359](#)
- [diagnose antivirus outbreak-prevention statistics flush on page 1359](#)
- [diagnose antivirus outbreak-prevention statistics list on page 1359](#)
- [diagnose antivirus quarantine on page 1359](#)
- [diagnose antivirus quarantine delete on page 1359](#)
- [diagnose antivirus quarantine list on page 1360](#)
- [diagnose antivirus quarantine purge on page 1360](#)
- [diagnose antivirus test on page 1360](#)

diagnose antivirus database-info

AntiVirus database info.

```
diagnose antivirus database-info
```

diagnose antivirus outbreak-prevention

FortiGuard - Virus Outbreak Prevention statistics and reporting.

```
diagnose antivirus outbreak-prevention
```

diagnose antivirus outbreak-prevention statistics

Cache and daemon statistics.

```
diagnose antivirus outbreak-prevention statistics
```

diagnose antivirus outbreak-prevention statistics flush

Flush daemon and cache statistics.

```
diagnose antivirus outbreak-prevention statistics flush
```

diagnose antivirus outbreak-prevention statistics list

Display cache and daemon statistics.

```
diagnose antivirus outbreak-prevention statistics list
```

diagnose antivirus quarantine

Quarantine functions.

```
diagnose antivirus quarantine
```

diagnose antivirus quarantine delete

Delete a file in quarantine.

```
diagnose antivirus quarantine delete <checksum>
```

Parameter	Description	Type	Size
<checksum>	Checksum of the file to delete.	string	

diagnose antivirus quarantine list

List the files in quarantine.

```
diagnose antivirus quarantine list <value>
```

Parameter	Description	Type	Size
<value>	service: http, https, ftp, smtp, smtps, pop3, pop3s, imap, imaps, im, nntp status: infected, machine-learning, blocked (optional)	string	

diagnose antivirus quarantine purge

Delete all quarantined files.

```
diagnose antivirus quarantine purge
```

diagnose antivirus test

AV Engine diagnostics.

```
diagnose antivirus test <command>
```

Parameter	Description	Type	Size
<command>	Command to pass into AV engine. Please double quote the command.	string	

diagnose automation

Diagnose commands for automation stitches.

This topic includes the following commands:

- [diagnose automation test on page 1360](#)

diagnose automation test

Test automation stitches.

`diagnose automation test`

diagnose autoupdate

Automatic updates.

This topic includes the following commands:

- [diagnose autoupdate downgrade on page 1361](#)
- [diagnose autoupdate downgrade disable on page 1361](#)
- [diagnose autoupdate downgrade enable on page 1361](#)
- [diagnose autoupdate status on page 1361](#)
- [diagnose autoupdate versions on page 1361](#)

diagnose autoupdate downgrade

Update object downgrade status.

`diagnose autoupdate downgrade`

diagnose autoupdate downgrade disable

Disable Update object downgrade.

`diagnose autoupdate downgrade disable`

diagnose autoupdate downgrade enable

Enable Update object downgrade.

`diagnose autoupdate downgrade enable`

diagnose autoupdate status

Status of automatic updates.

`diagnose autoupdate status`

diagnose autoupdate versions

Update object versions.

`diagnose autoupdate versions`

diagnose casb

CASB diagnose commands.

This topic includes the following commands:

- [diagnose casb build on page 1362](#)
- [diagnose casb show on page 1362](#)
- [diagnose casb show app-details on page 1362](#)
- [diagnose casb show app-domains on page 1362](#)
- [diagnose casb show applications on page 1363](#)
- [diagnose casb show apps on page 1363](#)
- [diagnose casb show domains on page 1363](#)
- [diagnose casb show isdb on page 1363](#)
- [diagnose casb show isdb-all on page 1363](#)
- [diagnose casb show isdb-name on page 1363](#)
- [diagnose casb show isdb-uuid on page 1363](#)
- [diagnose casb verify on page 1364](#)
- [diagnose casb verify casb-isdb on page 1364](#)

diagnose casb build

Test to build the CASB database.

```
diagnose casb build
```

diagnose casb show

Show CASB database.

```
diagnose casb show
```

diagnose casb show app-details

Show built-in CASB application details by name.

```
diagnose casb show app-details
```

diagnose casb show app-domains

Show built-in CASB application domains by name.

```
diagnose casb show app-domains
```

diagnose casb show applications

Show all built-in CASB application details.

```
diagnose casb show applications
```

diagnose casb show apps

Show built-in CASB application list.

```
diagnose casb show apps
```

diagnose casb show domains

Show all built-in CASB domains.

```
diagnose casb show domains
```

diagnose casb show isdb

Show built-in CASB-ISDB mapping database.

```
diagnose casb show isdb
```

diagnose casb show isdb-all

Show all built-in CASB-ISDB mappings.

```
diagnose casb show isdb-all
```

diagnose casb show isdb-name

Show built-in CASB-ISDB mapping by application name.

```
diagnose casb show isdb-name
```

diagnose casb show isdb-uuid

Show built-in CASB-ISDB mapping by application UUID.

```
diagnose casb show isdb-uuid
```

diagnose casb verify

Verify databases.

```
diagnose casb verify
```

diagnose casb verify casb-isdb

Verify the CASB database with CASB-ISDB mapping database.

```
diagnose casb verify casb-isdb
```

diagnose debug

debug

This topic includes the following commands:

- [diagnose debug admin on page 1371](#)
- [diagnose debug admin error-log on page 1371](#)
- [diagnose debug application on page 1371](#)
- [diagnose debug application acd on page 1371](#)
- [diagnose debug application acid on page 1372](#)
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- [diagnose debug application alertmail on page 1372](#)
- [diagnose debug application alicloud-ha on page 1372](#)
- [diagnose debug application alicloud-sdn on page 1372](#)
- [diagnose debug application authd on page 1373](#)
- [diagnose debug application autod on page 1373](#)
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diagnose debug admin

Admin user.

```
diagnose debug admin
```

diagnose debug admin error-log

Last failed admin user login details.

```
diagnose debug admin error-log
```

diagnose debug application

application

```
diagnose debug application
```

diagnose debug application acd

Aggregate Controller

```
diagnose debug application acd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application acid

Cisco Application Centric Infrastructure (Direct Connection) daemon

```
diagnose debug application acid <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application alarmd

Alarmd daemon.

```
diagnose debug application alarmd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application alertmail

Alert mail daemon.

```
diagnose debug application alertmail <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application alicloud-ha

AliCloud HA controller

```
diagnose debug application alicloud-ha <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application alicloud-sdn

AliCloud SDN controller

```
diagnose debug application alicloud-sdn <Integer>
```


Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application authd

Auth daemon.

```
diagnose debug application authd <Integer> <xxx.xxx.xxx.xxx>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	
<xxx.xxx.xxx.xxx>	Specific source IP to debug some modules (e.g.fsso).	string	

diagnose debug application autod

Automation daemon.

```
diagnose debug application autod <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application awsd

Amazon Web Services (AWS) daemon.

```
diagnose debug application awsd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application azd

Microsoft Azure daemon.

```
diagnose debug application azd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application azd-ha

Microsoft Azure daemon.

```
diagnose debug application azd-ha <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application bfdd

BFD daemon.

```
diagnose debug application bfdd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application cert-update

Certificate update in forticron daemon.

```
diagnose debug application cert-update <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application chassis

Chassis daemon.

```
diagnose debug application chassis <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application clearpass

ClearPass daemon.

```
diagnose debug application clearpass <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application cloudapid

Cloud service communication daemon.

```
diagnose debug application cloudapid <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application cloudinitd

cloudinitd daemon.

```
diagnose debug application cloudinitd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application cmp

CMPv2.

```
diagnose debug application cmp <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application curl-update

CRL update in forticron daemon.

```
diagnose debug application curl-update <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application crwl

HTTP/S preload feature crawler.

```
diagnose debug application crwl <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application csfd

Security Fabric daemon.

```
diagnose debug application csfd <Integer> <serial <serialnum>|ip <ip>|direction <up|down>>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	
<serial <serialnum> ip <ip> direction <up down>>	Filter by serial number, IP, or stream direction.	string	

diagnose debug application ddnsd

DDNS client daemon.

```
diagnose debug application ddnsd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application dhcp6c

DHCPv6 client.

```
diagnose debug application dhcp6c <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application dhcp6r

DHCPv6 relay.

```
diagnose debug application dhcp6r <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application dhcp6s

DHCPv6 server.

```
diagnose debug application dhcp6s <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application dhcpc

DHCP client module.

```
diagnose debug application dhcpc <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application dhcrelay

DHCP relay daemon.

```
diagnose debug application dhcrelay <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application dhcps

DHCP server.

```
diagnose debug application dhcps <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application dlpfingerprint

DLP fingerprint daemon.

```
diagnose debug application dlpfingerprint <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application dnp

DNP proxy daemon.

```
diagnose debug application dnp <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application dnsproxy

DNS proxy module.

```
diagnose debug application dnsproxy <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application eap_proxy

EAP proxy daemon.

```
diagnose debug application eap_proxy <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application eap_supp

EAP supplicant daemon.

```
diagnose debug application eap_supp <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application est

Enrollment over Secure Transport

```
diagnose debug application est <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application evpnd

EVPN daemon.

```
diagnose debug application evpnd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application extenderd

Extender Wan daemon.

```
diagnose debug application extenderd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application fclid

Fcllicense daemon.

```
diagnose debug application fclid <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application fcnacd

FortiClient NAC daemon.

```
diagnose debug application fcnacd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application fds_notify

Update notification daemon.

```
diagnose debug application fds_notify <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application fgd_alert

FortiGuard alert message.

```
diagnose debug application fgd_alert <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application fgfmd

FortiGate/FortiManager communication daemon.

```
diagnose debug application fgfmd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application fgtlogd

fgtlogd daemon.

```
diagnose debug application fgtlogd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application fnbamd

Fortiproxy non-blocking auth daemon.

```
diagnose debug application fnbamd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application foauthd

FortiguardOverride auth daemon.

```
diagnose debug application foauthd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application forticldd

FortiCloud daemon.

```
diagnose debug application forticldd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application forticron

Forticron daemon.

```
diagnose debug application forticron <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application fsd

Forti-start daemon.

```
diagnose debug application fsd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application fsso_ldap

FSSO LDAP daemon.

```
diagnose debug application fsso_ldap <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application fssod

FSSO daemon.

```
diagnose debug application fssod <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application fsvrd

FortiService daemon.

```
diagnose debug application fsvrd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application ftm-push

FTM-Push daemon.

```
diagnose debug application ftm-push <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application garpd

VIP gratuitous ARP daemon.

```
diagnose debug application garpd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application gcpd

Google Cloud Platform daemon.

```
diagnose debug application gcpd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application hamonitord

HA monitor module.

```
diagnose debug application hamonitord <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application harelay

HA relay module.

```
diagnose debug application harelay <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application hasync

HA synchronization module.

```
diagnose debug application hasync <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application hatalk

HA protocol module.

```
diagnose debug application hatalk <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application httpsd

HTTPS daemon.

```
diagnose debug application httpsd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level. (Info = 0x01, Warning = 0x02, Error = 0x04, Critical = 0x08, All = -1, Warning/Error/Critical = 0x0E)	string	

diagnose debug application ibmd

IBM Cloud Infrastructure daemon.

```
diagnose debug application ibmd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application icond

Industrial Connectivity daemon.

```
diagnose debug application icond <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application imap

IMAP proxy.

```
diagnose debug application imap <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application init

System init process.

```
diagnose debug application init <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application iotd

IoT device info daemon.

```
diagnose debug application iotd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application ipamd

IP Address Management daemon.

```
diagnose debug application ipamd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application ipamsd

IPAM server daemon.

```
diagnose debug application ipamsd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application ipldbd

Ipldbd daemon.

```
diagnose debug application ipldbd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application ipsengine

IPS sensor.

```
diagnose debug application ipsengine <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application ipsmonitor

IPS monitor.

```
diagnose debug application ipsmonitor <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application ipsufd

IPS URL filter resolver daemon.

```
diagnose debug application ipsufd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application iptables

iptables debug trace

```
diagnose debug application iptables <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application kmiglogd

Kernel Log daemon.

```
diagnose debug application kmiglogd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application kmipd

KMIP daemon

```
diagnose debug application kmipd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application kubed

Kubernetes daemon.

```
diagnose debug application kubed <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application l2tp

L2TP daemon.

```
diagnose debug application l2tp <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application link-monitor

Link monitor daemon.

```
diagnose debug application link-monitor <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application link-monitor-passive

Link monitor daemon.

```
diagnose debug application link-monitor-passive <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application lldptx

Link Layer Discovery Protocol (LLDP) Transmitter

```
diagnose debug application lldptx <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application locallogd

locallogd daemon.

```
diagnose debug application locallogd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application lpmd

LPM daemon.

```
diagnose debug application lpmd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application miglogd

Log daemon.

```
diagnose debug application miglogd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application mrd

Mobile router daemon.

```
diagnose debug application mrd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application nethsm

NETHSM daemon.

```
diagnose debug application nethsm <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application netxd

NetX REST API daemon.

```
diagnose debug application netxd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application nntp

NNTP proxy.

```
diagnose debug application nntp <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application nodejs

Node.js daemon.

```
diagnose debug application nodejs <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level. (Info = 0x01, Warning = 0x02, Error = 0x04, All = - 1, Warning/Error = 0x06)	string	

diagnose debug application npd

NP7 daemon.

```
diagnose debug application npd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application ntnxd

Nutanix Prism Central daemon.

```
diagnose debug application ntnxd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application ntpd

NTPd daemon.

```
diagnose debug application ntpd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application oaas_agent

OaaS agent daemon.

```
diagnose debug application oaas_agent <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application ocid

Oracle Cloud Infrastructure (OCI) daemon

```
diagnose debug application ocid <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application openstackd

OpenStack SDN connector daemon.

```
diagnose debug application openstackd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application ovrd

Override daemon.

```
diagnose debug application ovrd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application pcpd

PCP server daemon.

```
diagnose debug application pcpd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application pop3

POP3 proxy.

```
diagnose debug application pop3 <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application ppp

PPP daemon.

```
diagnose debug application ppp <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application pppoe

PPPoE client Daemon.

```
diagnose debug application pppoe <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application pptp

PPTP daemon.

```
diagnose debug application pptp <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application pptpc

PPTP client.

```
diagnose debug application pptpc <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application proxy

Proxy.

```
diagnose debug application proxy <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application ptpd

Precision Time Protocol daemon.

```
diagnose debug application ptpd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application quarantine

Quarantine daemon.

```
diagnose debug application quarantine <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application radius-das

RADIUS DAS daemon.

```
diagnose debug application radius-das <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application radiusd

RADIUS daemon.

```
diagnose debug application radiusd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application radvd

Router adv daemon.

```
diagnose debug application radvd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application reportd

report daemon

```
diagnose debug application reportd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application route-tag

route-tag daemon.

```
diagnose debug application route-tag <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application rt-router

RT Router daemon.

```
diagnose debug application rt-router <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application samld

SAML SSO daemon.

```
diagnose debug application samld <Integer> <verbose>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	
<verbose>	Verbose output during process. (v, vv, vvv)	string	

diagnose debug application sapd

SAP Control daemon.

```
diagnose debug application sapd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application sccp

SCCP ALG.

```
diagnose debug application sccp <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application scep

SCEP

```
diagnose debug application scep <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application sdncd

SDN Connector daemon.

```
diagnose debug application sdncd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application sdwan

SD-WAN daemon.

```
diagnose debug application sdwan <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application sepmd

Symantec EPM daemon.

```
diagnose debug application sepmd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application server-probe

Server probe daemon.

```
diagnose debug application server-probe <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application sessionsync

Session sync daemon.

```
diagnose debug application sessionsync <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application sflowd

sFlow protocol module.

```
diagnose debug application sflowd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application sfupgraded

Security Fabric Upgrade daemon.

```
diagnose debug application sfupgraded <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application sip

SIP ALG.

```
diagnose debug application sip <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application smbcd

SMB client daemon.

```
diagnose debug application smbcd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application smtp

SMTP proxy.

```
diagnose debug application smtp <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application snmpd

SNMP daemon.

```
diagnose debug application snmpd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application spareblock

Set debug spare block count.

```
diagnose debug application spareblock <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application speedtest

Speed test execution daemon.

```
diagnose debug application speedtest <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application speedtestd

Speed test server daemon.

```
diagnose debug application speedtestd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application sshd

Sshd daemon.

```
diagnose debug application sshd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application syslogd

syslogd daemon.

```
diagnose debug application syslogd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application tvc

SSL-VPN client

```
diagnose debug application tvc <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application update

Update daemon.

```
diagnose debug application update <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application uploadd

Upload daemon.

```
diagnose debug application uploadd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application urlfilter

Urlfilter daemon.

```
diagnose debug application urlfilter <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application vmttoolsd

vmttoolsd daemon.

```
diagnose debug application vmttoolsd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application vmwd

VMware vSphere daemon

```
diagnose debug application vmwd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application vned

Virtual network enabler daemon.

```
diagnose debug application vned <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application vpd

VPN policy daemon.

```
diagnose debug application vpd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application vrrpd

VRRP daemon.

```
diagnose debug application vrrpd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application wabcs

WAN acceleration byte cache storage.

```
diagnose debug application wabcs <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application waocs

WAN acceleration object cache storage.

```
diagnose debug application waocs <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application wccpd

WCCP daemon.

```
diagnose debug application wccpd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug application wf_monitor

WF monitor, parent of urlfilter daemon.

```
diagnose debug application wf_monitor <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level.	string	

diagnose debug authd

Authentication daemon.

```
diagnose debug authd
```

diagnose debug authd clear

Clear internal data structures and keep alive sessions.

```
diagnose debug authd clear
```

diagnose debug authd fsso

FSSO client module.

```
diagnose debug authd fsso
```

diagnose debug authd fsso add-address

Add FSAE dynamic addresses.

```
diagnose debug authd fsso add-address <adgrp1+adgrp2+..*adgrp> <xxx.xxx.xxx.xxx>
```

Parameter	Description	Type	Size
<adgrp1+adgrp2+..*adgrp>	AD groups.	string	
<xxx.xxx.xxx.xxx>	IP start address.	string	

diagnose debug authd fsso clear-logons

Clear logon information.

```
diagnose debug authd fsso clear-logons
```

diagnose debug authd fsso del-address

Delete FSAE dynamic addresses.

```
diagnose debug authd fsso del-address <adgrp1+adgrp2+..*adgrp> <xxx.xxx.xxx.xxx>
```

Parameter	Description	Type	Size
<adgrp1+adgrp2+...*adgrpn>	AD groups.	string	
<xxx.xxx.xxx.xxx>	IP start address.	string	

diagnose debug authd fsso filter

Filters used for list or clear logons.

```
diagnose debug authd fsso filter
```

diagnose debug authd fsso filter clear

Clear all filters.

```
diagnose debug authd fsso filter clear
```

diagnose debug authd fsso filter group

Group name.

```
diagnose debug authd fsso filter group <name>
```

Parameter	Description	Type	Size
<name>	Group name.	string	

diagnose debug authd fsso filter server

FSSO agent name.

```
diagnose debug authd fsso filter server <name>
```

Parameter	Description	Type	Size
<name>	FSSO agent name.	string	

diagnose debug authd fsso filter source

Source IP address.

```
diagnose debug authd fsso filter source <xxx.xxx.xxx.xxx>
```


Parameter	Description	Type	Size
<xxx.xxx.xxx.xxx>	Source IP (range from).	string	

diagnose debug authd fsso filter user

User name.

```
diagnose debug authd fsso filter user <name>
```

Parameter	Description	Type	Size
<name>	User name.	string	

diagnose debug authd fsso flush-address

Flush FSAE dynamic addresse.

```
diagnose debug authd fsso flush-address <name>
```

Parameter	Description	Type	Size
<name>	FSSO address name.	string	

diagnose debug authd fsso flush-address-all

Flush all of FSAE dynamic addresses.

```
diagnose debug authd fsso flush-address-all
```

diagnose debug authd fsso list

List current logons.

```
diagnose debug authd fsso list
```

diagnose debug authd fsso refresh-groups

Refresh group mappings.

```
diagnose debug authd fsso refresh-groups
```

diagnose debug authd fssso refresh-logons

Resync logon database.

```
diagnose debug authd fssso refresh-logons
```

diagnose debug authd fssso server-status

Show FSSO agent connection status.

```
diagnose debug authd fssso server-status
```

diagnose debug authd fssso show-address

Show FSAE dynamic addresses.

```
diagnose debug authd fssso show-address
```

diagnose debug authd fssso summary

Summary of current logons.

```
diagnose debug authd fssso summary
```

diagnose debug authd memory

Show authd memory usage information.

```
diagnose debug authd memory
```

diagnose debug backtrace

Generate backtrace with <type>

```
diagnose debug backtrace
```

diagnose debug cli

Debug CLI.

```
diagnose debug cli <Integer>
```

Parameter	Description	Type	Size
<Integer>	Debug level (0 - 8).	string	

diagnose debug cloudinit

Cloudinit info.

```
diagnose debug cloudinit
```

diagnose debug cloudinit clear

Clear cloudinit log info.

```
diagnose debug cloudinit clear
```

diagnose debug cloudinit show

Show cloudinit log info.

```
diagnose debug cloudinit show
```

diagnose debug cmdb-trace

Trace CLI.

```
diagnose debug cmdb-trace <Integer>
```

Parameter	Description	Type	Size
<Integer>	Trace level (0 - 2).	string	

diagnose debug cmdb-walk

enable/disable cmdb-walk.

```
diagnose debug cmdb-walk <Integer>
```

Parameter	Description	Type	Size
<Integer>	walk value (0 - 1).	string	

diagnose debug config-error-log

Configure error log info.

```
diagnose debug config-error-log
```

diagnose debug config-error-log clear

Clear config error log.

```
diagnose debug config-error-log clear
```

diagnose debug config-error-log read

Display config error on console.

```
diagnose debug config-error-log read
```

diagnose debug console

console

```
diagnose debug console
```

diagnose debug console no-user-log-msg

Console does not show user log messages.

```
diagnose debug console no-user-log-msg
```

diagnose debug console no-user-log-msg disable

Disable console no user log message.

```
diagnose debug console no-user-log-msg disable
```

diagnose debug console no-user-log-msg enable

Enable console no user log message.

```
diagnose debug console no-user-log-msg enable
```

diagnose debug console retry-log-msg

Console does not drop user log messages.

```
diagnose debug console retry-log-msg
```

diagnose debug console retry-log-msg disable

Disable console resend of user log message.

```
diagnose debug console retry-log-msg disable
```

diagnose debug console retry-log-msg enable

Enable console resend of user log message.

```
diagnose debug console retry-log-msg enable
```

diagnose debug console send

Send out MODEM AT command.

```
diagnose debug console send <AT command> <character> <integer>
```

Parameter	Description	Type	Size
<AT command>	MODEM AT command to send.	string	
<character>	escape character (optional, default is '+')	string	
<integer>	Escape guard time in milli-second (1 - 10000, optional, default = 1000ms).	string	

diagnose debug console timestamp

timestamp

```
diagnose debug console timestamp
```

diagnose debug console timestamp disable

Disable timestamp.

```
diagnose debug console timestamp disable
```

diagnose debug console timestamp enable

Enable timestamp.

```
diagnose debug console timestamp enable
```

diagnose debug crashlog

Crash log info.

```
diagnose debug crashlog
```

diagnose debug crashlog clear

Clear crash log.

```
diagnose debug crashlog clear
```

diagnose debug crashlog get

Get crashlog.

```
diagnose debug crashlog get
```

diagnose debug crashlog history

Show process crash history.

```
diagnose debug crashlog history
```

diagnose debug crashlog interval

Change crash log interval in seconds.

```
diagnose debug crashlog interval <interval>
```

Parameter	Description	Type	Size
<interval>	Interval at which process crashes are written to storage (0 - 2147483647 sec, default = 3600, 0 = log all crashes).	string	

diagnose debug disable

Disable debug output.

```
diagnose debug disable
```

diagnose debug duration

Set duration of debug activities.

```
diagnose debug duration <Integer>
```

Parameter	Description	Type	Size
<Integer>	Duration in minutes, min = 1, max = 99999, 0 means unlimited.	string	

diagnose debug enable

Enable debug output.

```
diagnose debug enable
```

diagnose debug flow

Trace packet flow in kernel.

```
diagnose debug flow
```

diagnose debug flow filter

Trace packet with filter.

```
diagnose debug flow filter
```

diagnose debug flow filter addr

IP address.

```
diagnose debug flow filter addr <xxx.xxx.xxx.xxx>
```

Parameter	Description	Type	Size
<xxx.xxx.xxx.xxx>	Host IP (ip1/from).	string	

diagnose debug flow filter clear

Clear filter.

```
diagnose debug flow filter clear
```

diagnose debug flow filter daddr

Destination IP address.

```
diagnose debug flow filter daddr <xxx.xxx.xxx.xxx>
```

Parameter	Description	Type	Size
<xxx.xxx.xxx.xxx>	Destination IP (from).	string	

diagnose debug flow filter dport

Destination port.

```
diagnose debug flow filter dport <xxx>
```

Parameter	Description	Type	Size
<xxx>	Destination port (from).	string	

diagnose debug flow filter negate

Inverse filter.

```
diagnose debug flow filter negate
```

diagnose debug flow filter negate addr

Inverse host IP.

```
diagnose debug flow filter negate addr
```

diagnose debug flow filter negate daddr

Inverse dest IP.

```
diagnose debug flow filter negate daddr
```


diagnose debug flow filter negate dport

Inverse dest port.

```
diagnose debug flow filter negate dport
```

diagnose debug flow filter negate port

Inverse port.

```
diagnose debug flow filter negate port
```

diagnose debug flow filter negate proto

Inverse protocol.

```
diagnose debug flow filter negate proto
```

diagnose debug flow filter negate saddr

Inverse source IP.

```
diagnose debug flow filter negate saddr
```

diagnose debug flow filter negate sport

Inverse source port.

```
diagnose debug flow filter negate sport
```

diagnose debug flow filter negate vd

Inverse virtual domain.

```
diagnose debug flow filter negate vd
```

diagnose debug flow filter port

port

```
diagnose debug flow filter port <xxx>
```

Parameter	Description	Type	Size
<xxx>	Port (from).	string	

diagnose debug flow filter proto

Protocol number.

```
diagnose debug flow filter proto <xxx>
```

Parameter	Description	Type	Size
<xxx>	Protocol number.	string	

diagnose debug flow filter saddr

Source IP address.

```
diagnose debug flow filter saddr <xxx.xxx.xxx.xxx>
```

Parameter	Description	Type	Size
<xxx.xxx.xxx.xxx>	Source IP (from).	string	

diagnose debug flow filter sport

Source port.

```
diagnose debug flow filter sport <xxx>
```

Parameter	Description	Type	Size
<xxx>	Source port (from).	string	

diagnose debug flow filter vd

Index of virtual domain.

```
diagnose debug flow filter vd <xxx>
```

Parameter	Description	Type	Size
<xxx>	Index of virtual domain.	string	

diagnose debug flow filter vd-name

Name of virtual domain.

```
diagnose debug flow filter vd-name <...>
```

Parameter	Description	Type	Size
<...>	Name of virtual domain.	string	

diagnose debug flow filter6

Trace packet with IPv6 filter.

```
diagnose debug flow filter6
```

diagnose debug flow filter6 addr

IPv6 address.

```
diagnose debug flow filter6 addr <xxx:xxx::xxx:xxx>
```

Parameter	Description	Type	Size
<xxx:xxx::xxx:xxx>	Host IPv6 (from).	string	

diagnose debug flow filter6 clear

Clear IPv6 filter.

```
diagnose debug flow filter6 clear
```

diagnose debug flow filter6 daddr

Destination IP address.

```
diagnose debug flow filter6 daddr <xxx:xxx::xxx:xxx>
```

Parameter	Description	Type	Size
<xxx:xxx::xxx:xxx>	Destination IP (from).	string	

diagnose debug flow filter6 dport

Destination port.

```
diagnose debug flow filter6 dport <xxx>
```

Parameter	Description	Type	Size
<xxx>	Destination port (from).	string	

diagnose debug flow filter6 negate

Inverse IPv6 filter.

```
diagnose debug flow filter6 negate
```

diagnose debug flow filter6 negate addr

Inverse host IP.

```
diagnose debug flow filter6 negate addr
```

diagnose debug flow filter6 negate daddr

Inverse dest IP.

```
diagnose debug flow filter6 negate daddr
```

diagnose debug flow filter6 negate dport

Inverse dest port.

```
diagnose debug flow filter6 negate dport
```

diagnose debug flow filter6 negate port

Inverse port.

```
diagnose debug flow filter6 negate port
```

diagnose debug flow filter6 negate proto

Inverse protocol.

```
diagnose debug flow filter6 negate proto
```

diagnose debug flow filter6 negate saddr

Inverse source IP.

```
diagnose debug flow filter6 negate saddr
```

diagnose debug flow filter6 negate sport

Inverse source port.

```
diagnose debug flow filter6 negate sport
```

diagnose debug flow filter6 negate vd

Inverse virtual domain.

```
diagnose debug flow filter6 negate vd
```

diagnose debug flow filter6 port

port

```
diagnose debug flow filter6 port <xxx>
```

Parameter	Description	Type	Size
<xxx>	Port (from).	string	

diagnose debug flow filter6 proto

Protocol number.

```
diagnose debug flow filter6 proto <xxx>
```

Parameter	Description	Type	Size
<xxx>	Protocol number.	string	

diagnose debug flow filter6 saddr

Source IP address.

```
diagnose debug flow filter6 saddr <xxx:xxx::xxx:xxx>
```

Parameter	Description	Type	Size
<xxx:xxx::xxx:xxx>	Source IP (from).	string	

diagnose debug flow filter6 sport

Source port.

```
diagnose debug flow filter6 sport <xxx>
```

Parameter	Description	Type	Size
<xxx>	Source port (from).	string	

diagnose debug flow filter6 vd

Index of virtual domain.

```
diagnose debug flow filter6 vd <xxx>
```

Parameter	Description	Type	Size
<xxx>	Index of virtual domain.	string	

diagnose debug flow filter6 vd-name

Name of virtual domain.

```
diagnose debug flow filter6 vd-name <...>
```

Parameter	Description	Type	Size
<...>	Name of virtual domain.	string	

diagnose debug flow show

Enable/disable display of trace on console.

```
diagnose debug flow show
```

diagnose debug flow show function-name

Enable/disable display function name.

```
diagnose debug flow show function-name
```

diagnose debug flow show function-name disable

Disable display of function name.

```
diagnose debug flow show function-name disable
```

diagnose debug flow show function-name enable

Enable display of function name.

```
diagnose debug flow show function-name enable
```

diagnose debug flow trace

Start/stop trace.

```
diagnose debug flow trace
```

diagnose debug flow trace start

Start trace.

```
diagnose debug flow trace start <xxx>
```

Parameter	Description	Type	Size
<xxx>	Repeat number.	string	

diagnose debug flow trace start6

Start IPv6 trace.

```
diagnose debug flow trace start6 <xxx>
```

Parameter	Description	Type	Size
<xxx>	Repeat number.	string	

diagnose debug flow trace stop

Stop trace.

```
diagnose debug flow trace stop
```

diagnose debug flow trace stop6

Stop IPv6 trace.

```
diagnose debug flow trace stop6
```

diagnose debug fortism

Fortinet security module.

```
diagnose debug fortism
```

diagnose debug fortism enable

Enable Fortinet security module for test purpose.

```
diagnose debug fortism enable
```

diagnose debug fsso-polling

FSSO active directory poll module.

```
diagnose debug fsso-polling
```

diagnose debug fsso-polling client

Show FSSO AD Server Clients.

```
diagnose debug fsso-polling client
```

diagnose debug fsso-polling detail

Show FSSO AD Server Detail.

```
diagnose debug fsso-polling detail <id>
```

Parameter	Description	Type	Size
<id>	AD Server Entry ID.	string	

diagnose debug fsso-polling group

Show FSSO LDAP groups for AD users.


```
diagnose debug fsso-polling group <id> <name>
```

Parameter	Description	Type	Size
<id>	AD Server Entry ID.	string	
<name>	AD Server user.	string	

diagnose debug fsso-polling refresh-user

Refresh FSSO AD Server users.

```
diagnose debug fsso-polling refresh-user <id>
```

Parameter	Description	Type	Size
<id>	AD Server Entry ID.	string	

diagnose debug fsso-polling set-log-source

Source of event log.

```
diagnose debug fsso-polling set-log-source <id> <src>
```

Parameter	Description	Type	Size
<id>	AD Server Entry ID.	string	
<src>	0: security, 1: application.	string	

diagnose debug fsso-polling summary

Show FSSO AD Server Summary.

```
diagnose debug fsso-polling summary
```

diagnose debug fsso-polling user

Show FSSO AD Server users.

```
diagnose debug fsso-polling user <id>
```

Parameter	Description	Type	Size
<id>	AD Server Entry ID.	string	

diagnose debug info

Show active debug level settings.

```
diagnose debug info
```

diagnose debug kernel

kernel

```
diagnose debug kernel
```

diagnose debug kernel ha

Debug kernel HA level.

```
diagnose debug kernel ha <Integer>
```

Parameter	Description	Type	Size
<Integer>	Kernel HA level (0 = disable, 1-7 = higher level).	string	

diagnose debug kernel level

Debug kernel level.

```
diagnose debug kernel level <Integer>
```

Parameter	Description	Type	Size
<Integer>	Kernel level.	string	

diagnose debug kernel log

Interact with kernel log

```
diagnose debug kernel log
```

diagnose debug kernel log clear

Clear the kernel log

```
diagnose debug kernel log clear
```

diagnose debug kernel log show

Dump the kernel log

```
diagnose debug kernel log show
```

diagnose debug kernel sysrq

Magic SysRq.

```
diagnose debug kernel sysrq
```

diagnose debug kernel sysrq command

Magic SysRq command.

```
diagnose debug kernel sysrq command
```

diagnose debug kernel sysrq command crash

Perform a system crash.

```
diagnose debug kernel sysrq command crash
```

diagnose debug kernel sysrq disable

Disable magic SysRq.

```
diagnose debug kernel sysrq disable
```

diagnose debug kernel sysrq enable

Enable magic SysRq.

```
diagnose debug kernel sysrq enable
```

diagnose debug kernel sysrq status

Show the status of magic SysRq.

```
diagnose debug kernel sysrq status
```

diagnose debug rating

Display rating info.

```
diagnose debug rating <refresh-rate>
```

Parameter	Description	Type	Size
<refresh-rate>	Frequency to refresh server list (sec).	string	

diagnose debug remote-extender

remote-extender

```
diagnose debug remote-extender
```

diagnose debug remote-extender extenderd

Debug extenderd level.

```
diagnose debug remote-extender extenderd <Integer>
```

Parameter	Description	Type	Size
<Integer>	extenderd debug level.	string	

diagnose debug remote-extender modem-manager

Debug modem-manager level.

```
diagnose debug remote-extender modem-manager <Integer>
```

Parameter	Description	Type	Size
<Integer>	modem-manager debug level.	string	

diagnose debug report

Report for tech support.

```
diagnose debug report
```

diagnose debug report reset

Reset debug report.

```
diagnose debug report reset
```

diagnose debug reset

Reset all debug level to default.

```
diagnose debug reset
```

diagnose debug sdnc

sdnc

```
diagnose debug sdnc
```

diagnose debug sdnc valgrind

Valgrind analysis.

```
diagnose debug sdnc valgrind
```

diagnose debug sdnc valgrind disable

Force daemon to restart.

```
diagnose debug sdnc valgrind disable
```

diagnose debug sdnc valgrind enable

Force daemon to restart.

```
diagnose debug sdnc valgrind enable
```

diagnose debug sdnc valgrind log

Valgrind logs.

```
diagnose debug sdnc valgrind log
```

diagnose debug sdnc valgrind log clear

Clear logs.

```
diagnose debug sdnc valgrind log clear
```

diagnose debug sdnc valgrind log show

Show logs.

```
diagnose debug sdnc valgrind log show
```

diagnose debug sdnc valgrind memcheck

Force daemon to restart.

```
diagnose debug sdnc valgrind memcheck
```

diagnose debug sdnc valgrind memcheck_less

Force daemon to restart.

```
diagnose debug sdnc valgrind memcheck_less
```

diagnose debug sdnc valgrind status

Show valgrind status.

```
diagnose debug sdnc valgrind status
```

diagnose debug sql-log-error

SQL log database error info

```
diagnose debug sql-log-error
```

diagnose debug sql-log-error clear

clear sql log database error log

```
diagnose debug sql-log-error clear
```

diagnose debug sql-log-error read

display sql log database error on console

```
diagnose debug sql-log-error read
```

diagnose debug sql-log-error status

show sql log database error status

```
diagnose debug sql-log-error status
```

diagnose debug traffic

Traffic statistic data

```
diagnose debug traffic
```

diagnose debug traffic dump-debug

Dump debug info for interface traffic history.

```
diagnose debug traffic dump-debug
```

diagnose debug traffic history

Dump interface traffic history data.

```
diagnose debug traffic history <String> <Integer>
```

Parameter	Description	Type	Size
<String>	Interface name	string	
<Integer>	Period, hour=0, day=1, week=2.	string	

diagnose debug traffic interface

List traffic monitor interface.

```
diagnose debug traffic interface
```

diagnose debug traffic peek

Display interface traffic real-time data.

```
diagnose debug traffic peek <String> <Integer>
```

Parameter	Description	Type	Size
<String>	Interface name	string	
<Integer>	Disable or enable, disable=0, enable=1.	string	

diagnose debug urlfilter

urlfilter

```
diagnose debug urlfilter
```

diagnose debug urlfilter src-addr

Enable debug messages for selected source IP address.

```
diagnose debug urlfilter src-addr <IP address>
```

Parameter	Description	Type	Size
<IP address>	dot delimited IP address or "stop"	string	

diagnose debug urlfilter test-url

Find the result returned from the URL filter cache for a URL.

```
diagnose debug urlfilter test-url <url>
```

Parameter	Description	Type	Size
<url>	URL to test.	string	

diagnose debug urlfilter valgrind

Valgrind analysis.

```
diagnose debug urlfilter valgrind
```

diagnose debug urlfilter valgrind disable

Force daemon to restart.

```
diagnose debug urlfilter valgrind disable
```


diagnose debug urlfilter valgrind enable

Force daemon to restart.

```
diagnose debug urlfilter valgrind enable
```

diagnose debug urlfilter valgrind log

Valgrind logs.

```
diagnose debug urlfilter valgrind log
```

diagnose debug urlfilter valgrind log clear

Clear logs.

```
diagnose debug urlfilter valgrind log clear
```

diagnose debug urlfilter valgrind log show

Show logs.

```
diagnose debug urlfilter valgrind log show
```

diagnose debug urlfilter valgrind memcheck

Force daemon to restart.

```
diagnose debug urlfilter valgrind memcheck
```

diagnose debug urlfilter valgrind memcheck_less

Force daemon to restart.

```
diagnose debug urlfilter valgrind memcheck_less
```

diagnose debug urlfilter valgrind status

Show valgrind status.

```
diagnose debug urlfilter valgrind status
```

diagnose debug user

Local/admin user name

```
diagnose debug user
```

diagnose debug user hash

Display hashed user name.

```
diagnose debug user hash <String>
```

Parameter	Description	Type	Size
<String>	user name	string	

diagnose debug user list

List local/admin user name.

```
diagnose debug user list
```

diagnose debug vm-print-license

Print license info

```
diagnose debug vm-print-license
```

diagnose disktest

Disk test

This topic includes the following commands:

- [diagnose disktest block on page 1431](#)
- [diagnose disktest block 1 on page 1431](#)
- [diagnose disktest block 16 on page 1431](#)
- [diagnose disktest block 256 on page 1431](#)
- [diagnose disktest block 4 on page 1431](#)
- [diagnose disktest block 64 on page 1431](#)
- [diagnose disktest device on page 1431](#)
- [diagnose disktest run on page 1432](#)
- [diagnose disktest size on page 1432](#)
- [diagnose disktest time on page 1432](#)

diagnose disktest block

Block size of each read/write operation.

```
diagnose disktest block
```

diagnose disktest block 1

1M

```
diagnose disktest block 1
```

diagnose disktest block 16

16M

```
diagnose disktest block 16
```

diagnose disktest block 256

256M

```
diagnose disktest block 256
```

diagnose disktest block 4

4M

```
diagnose disktest block 4
```

diagnose disktest block 64

64M

```
diagnose disktest block 64
```

diagnose disktest device

Device to test.

```
diagnose disktest device
```

diagnose disktest run

Run test with specified cycles (default = no limit).

```
diagnose disktest run <Integer>
```

Parameter	Description	Type	Size
<Integer>	Enter test cycles (default = no limit).	string	

diagnose disktest size

Test size limit for each cycle (default = no limit).

```
diagnose disktest size <Integer>
```

Parameter	Description	Type	Size
<Integer>	Enter test size limit for each cycle in MB (default = no limit).	string	

diagnose disktest time

Test time limit for each cycle (default = no limit).

```
diagnose disktest time <Integer>
```

Parameter	Description	Type	Size
<Integer>	Enter test time limit for each cycle in seconds (default = no limit).	string	

diagnose emailfilter

emailfilter

This topic includes the following commands:

- [diagnose emailfilter bword on page 1433](#)
- [diagnose emailfilter bword matchfilter on page 1433](#)
- [diagnose emailfilter fortishield on page 1433](#)
- [diagnose emailfilter fortishield servers on page 1433](#)
- [diagnose emailfilter fortishield statistics on page 1433](#)
- [diagnose emailfilter fortishield statistics flush on page 1433](#)
- [diagnose emailfilter fortishield statistics list on page 1434](#)

diagnose emailfilter bword

Spam banned word match filter.

```
diagnose emailfilter bword
```

diagnose emailfilter bword matchfilter

Filtered list display.

```
diagnose emailfilter bword matchfilter <filter string>
```

Parameter	Description	Type	Size
<filter string>	Filter string from end of spam filter banned word log line. For example: '1-n8 4 0 1 4 10 nC 4'	string	

diagnose emailfilter fortishield

FortiGuard

```
diagnose emailfilter fortishield
```

diagnose emailfilter fortishield servers

FortiGuard-AntiSpam server status.

```
diagnose emailfilter fortishield servers <refresh-rate>
```

Parameter	Description	Type	Size
<refresh-rate>	Frequency to refresh server list (sec).	string	

diagnose emailfilter fortishield statistics

FortiGuard-AntiSpam cache and daemon statistics.

```
diagnose emailfilter fortishield statistics
```

diagnose emailfilter fortishield statistics flush

Flush cache and daemon statistics.

```
diagnose emailfilter fortishield statistics flush
```

diagnose emailfilter fortishield statistics list

Display server status, cache and daemon statistics.

```
diagnose emailfilter fortishield statistics list
```

diagnose endpoint

Endpoint compliance diagnostics.

This topic includes the following commands:

- [diagnose endpoint avatar on page 1436](#)
- [diagnose endpoint avatar allow-nodisk on page 1436](#)
- [diagnose endpoint avatar cleanup on page 1436](#)
- [diagnose endpoint avatar find on page 1436](#)
- [diagnose endpoint avatar find fingerprint on page 1436](#)
- [diagnose endpoint avatar find uid on page 1437](#)
- [diagnose endpoint avatar list on page 1437](#)
- [diagnose endpoint avatar list active on page 1437](#)
- [diagnose endpoint avatar list all on page 1437](#)
- [diagnose endpoint avatar list inactive on page 1437](#)
- [diagnose endpoint avatar purge-all on page 1438](#)
- [diagnose endpoint debug-zone on page 1438](#)
- [diagnose endpoint debug-zone background-debug on page 1438](#)
- [diagnose endpoint debug-zone dump on page 1438](#)
- [diagnose endpoint debug-zone set-lls-quota on page 1438](#)
- [diagnose endpoint ec-shm on page 1439](#)
- [diagnose endpoint ec-shm delete on page 1439](#)
- [diagnose endpoint ec-shm find-by-ipvd on page 1439](#)
- [diagnose endpoint ec-shm find-by-uid on page 1439](#)
- [diagnose endpoint ec-shm list on page 1440](#)
- [diagnose endpoint ec-shm summary on page 1440](#)
- [diagnose endpoint ec-shm update-by-json on page 1440](#)
- [diagnose endpoint fctems on page 1440](#)
- [diagnose endpoint fctems api-status on page 1441](#)
- [diagnose endpoint fctems api-status clear on page 1441](#)
- [diagnose endpoint fctems cloud-server on page 1441](#)
- [diagnose endpoint fctems custom on page 1441](#)
- [diagnose endpoint fctems ec-shm-dump on page 1442](#)
- [diagnose endpoint fctems get-pub-addr on page 1442](#)
- [diagnose endpoint fctems info on page 1442](#)
- [diagnose endpoint fctems info pause on page 1442](#)
- [diagnose endpoint fctems info pre-master-key on page 1442](#)

- [diagnose endpoint fctems info protocol on page 1442](#)
- [diagnose endpoint fctems info repeat on page 1443](#)
- [diagnose endpoint fctems info repeat data-in on page 1443](#)
- [diagnose endpoint fctems info repeat data-out on page 1443](#)
- [diagnose endpoint fctems info repeat header-in on page 1443](#)
- [diagnose endpoint fctems info repeat header-out on page 1443](#)
- [diagnose endpoint fctems info repeat ssl-data-in on page 1444](#)
- [diagnose endpoint fctems info repeat ssl-data-out on page 1444](#)
- [diagnose endpoint fctems info repeat textinfo on page 1444](#)
- [diagnose endpoint fctems info reset on page 1444](#)
- [diagnose endpoint fctems info resume on page 1444](#)
- [diagnose endpoint fctems json on page 1445](#)
- [diagnose endpoint fctems json deep-inspect-cert-sync on page 1445](#)
- [diagnose endpoint fctems json gateway-mac-request on page 1445](#)
- [diagnose endpoint fctems queue-complete-calls on page 1445](#)
- [diagnose endpoint fctems test-authorization on page 1445](#)
- [diagnose endpoint fctems test-connectivity on page 1445](#)
- [diagnose endpoint fctems wss-cert-skip-check on page 1446](#)
- [diagnose endpoint filter on page 1446](#)
- [diagnose endpoint filter avatar-fingerprint on page 1446](#)
- [diagnose endpoint filter clear on page 1446](#)
- [diagnose endpoint filter ems-sn on page 1446](#)
- [diagnose endpoint filter ftcl-uid on page 1447](#)
- [diagnose endpoint filter list on page 1447](#)
- [diagnose endpoint filter record-debug-log on page 1447](#)
- [diagnose endpoint filter show-large-data on page 1447](#)
- [diagnose endpoint lls-comm on page 1447](#)
- [diagnose endpoint lls-comm connect on page 1448](#)
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- [diagnose endpoint lls-comm recv on page 1448](#)
- [diagnose endpoint lls-comm send on page 1448](#)
- [diagnose endpoint lls-comm send echo on page 1448](#)
- [diagnose endpoint lls-comm send general on page 1448](#)
- [diagnose endpoint lls-comm send general get-index on page 1448](#)
- [diagnose endpoint lls-comm send general register on page 1449](#)
- [diagnose endpoint lls-comm send general unregister on page 1449](#)
- [diagnose endpoint lls-comm send ping on page 1449](#)
- [diagnose endpoint lls-comm send ping set-interval on page 1449](#)
- [diagnose endpoint lls-comm send ztna on page 1449](#)
- [diagnose endpoint lls-comm send ztna find-ip-vdom on page 1450](#)
- [diagnose endpoint lls-comm send ztna find-uid on page 1450](#)
- [diagnose endpoint lls-comm send ztna message-format on page 1450](#)
- [diagnose endpoint lls-comm send ztna subscribe-all on page 1450](#)
- [diagnose endpoint lls-comm send ztna unsubscribe-all on page 1451](#)
- [diagnose endpoint lls-comm send ztna unsubscribe-uid on page 1451](#)

- [diagnose endpoint lls-comm status on page 1451](#)
- [diagnose endpoint tags on page 1451](#)
- [diagnose endpoint tags remove-by-id on page 1451](#)
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- [diagnose endpoint tags remove-by-name-legacy on page 1452](#)
- [diagnose endpoint tags remove-by-sn on page 1452](#)
- [diagnose endpoint tags test-common-tag-update on page 1452](#)

diagnose endpoint avatar

FortiClient avatar.

```
diagnose endpoint avatar
```

diagnose endpoint avatar allow-nodisk

Allow no disk for avatar

```
diagnose endpoint avatar allow-nodisk [enable|disable]
```

Parameter	Description	Type	Size
[enable disable]	Allow saving avatars on non-harddisk storage.	string	

diagnose endpoint avatar cleanup

Purge all inactive avatars

```
diagnose endpoint avatar cleanup
```

diagnose endpoint avatar find

Find avatar location

```
diagnose endpoint avatar find
```

diagnose endpoint avatar find fingerprint

Find avatar by fingerprint

```
diagnose endpoint avatar find fingerprint <fingerprint>
```

Parameter	Description	Type	Size
<fingerprint>	Avatar fingerprint	string	

diagnose endpoint avatar find uid

Find avatar by uid/user/domain

```
diagnose endpoint avatar find uid <ftcl-uid> <user-name> <domain>
```

Parameter	Description	Type	Size
<ftcl-uid>	FortiClient UID	string	
<user-name>	User name	string	
<domain>	User domain	string	

diagnose endpoint avatar list

Display avatars

```
diagnose endpoint avatar list
```

diagnose endpoint avatar list active

Display active avatars

```
diagnose endpoint avatar list active <number>
```

Parameter	Description	Type	Size
<number>	Number of files to display per page.	string	

diagnose endpoint avatar list all

Display all avatars

```
diagnose endpoint avatar list all <number>
```

Parameter	Description	Type	Size
<number>	Number of files to display per page.	string	

diagnose endpoint avatar list inactive

Display inactive avatars

```
diagnose endpoint avatar list inactive <number>
```

Parameter	Description	Type	Size
<number>	Number of files to display per page.	string	

diagnose endpoint avatar purge-all

Purge ALL avatars

```
diagnose endpoint avatar purge-all
```

diagnose endpoint debug-zone

Debug Zone.

```
diagnose endpoint debug-zone
```

diagnose endpoint debug-zone background-debug

Background Debugs.

```
diagnose endpoint debug-zone background-debug <val>
```

Parameter	Description	Type	Size
<val>	Value (enable disable)	string	

diagnose endpoint debug-zone dump

Dump all debug zone info.

```
diagnose endpoint debug-zone dump
```

diagnose endpoint debug-zone set-lls-quota

Set send quota for each socket

```
diagnose endpoint debug-zone set-lls-quota <quota>
```

Parameter	Description	Type	Size
<quota>	Quota in bytes	string	

diagnose endpoint ec-shm

Endpoint record.

```
diagnose endpoint ec-shm
```

diagnose endpoint ec-shm delete

Delete endpoint records.

```
diagnose endpoint ec-shm delete <ipv4-address>
```

Parameter	Description	Type	Size
<ipv4-address>	Source IPv4 address.	string	

diagnose endpoint ec-shm find-by-ipvd

Display record by IP and vdom.

```
diagnose endpoint ec-shm find-by-ipvd <ipv4-address> <vdom-name>
```

Parameter	Description	Type	Size
<ipv4-address>	Endpoint IPv4 address.	string	
<vdom-name>	VDOM name of the client.	string	

diagnose endpoint ec-shm find-by-uid

Display record by Client UID.

```
diagnose endpoint ec-shm find-by-uid <ftct-uid> <emssn> <ems-tenant-id>
```

Parameter	Description	Type	Size
<ftct-uid>	Client UID	string	
<emssn>	EMS Serial Number	string	
<ems-tenant-id>	EMS Tenant ID	string	

diagnose endpoint ec-shm list

Display all records for one EMS.

```
diagnose endpoint ec-shm list <ipv4-address> <mac-address> <emssn> <ems-tenant-id>
```

Parameter	Description	Type	Size
<ipv4-address>	Source IPv4 address ("" for all IP addresses).	string	
<mac-address>	Source MAC address ("" for all MAC addresses).	string	
<emssn>	EMS Serial Number	string	
<ems-tenant-id>	EMS Tenant ID	string	

diagnose endpoint ec-shm summary

List summary of endpoint records.

```
diagnose endpoint ec-shm summary
```

diagnose endpoint ec-shm update-by-json

Add endpoint record by JSON.

```
diagnose endpoint ec-shm update-by-json <uid> <ems-sn> <ems-tenant-id> <json>
```

Parameter	Description	Type	Size
<uid>	FortiClient UID.	string	
<ems-sn>	FortiClient EMS serial number.	string	
<ems-tenant-id>	FortiClient EMS tenant ID.	string	
<json>	JSON string.	string	

diagnose endpoint fctems

FortiClient EMS.

```
diagnose endpoint fctems
```

diagnose endpoint fctems api-status

Tools to diagnose EMS API status.

```
diagnose endpoint fctems api-status
```

diagnose endpoint fctems api-status clear

Clear EMS API status.

```
diagnose endpoint fctems api-status clear <fctems>
```

Parameter	Description	Type	Size
<fctems>	FortiClient EMS table entry name in CMDB.	string	

diagnose endpoint fctems cloud-server

cloud server type.

```
diagnose endpoint fctems cloud-server <type>
```

Parameter	Description	Type	Size
<type>	FortiClient EMS cloud server type(0, 1 or 2), 0-Production, 1-Development and 2-Beta.	string	

diagnose endpoint fctems custom

Custom API.

```
diagnose endpoint fctems custom <ems-id> <entry-point> <method> <data-param-type> <data>
```

Parameter	Description	Type	Size
<ems-id>	ems id.	string	
<entry-point>	entry point.	string	
<method>	HTTP method.	string	
<data-param-type>	data parameter type.	string	
<data>	data	string	

diagnose endpoint fctems ec-shm-dump

Dump endpoint record shm.

```
diagnose endpoint fctems ec-shm-dump <fctems>
```

Parameter	Description	Type	Size
<fctems>	FortiClient EMS table entry id in CMDB.	string	

diagnose endpoint fctems get-pub-addr

Get FortiClient EMS public address.

```
diagnose endpoint fctems get-pub-addr <fctems>
```

Parameter	Description	Type	Size
<fctems>	FortiClient EMS table entry id in CMDB.	string	

diagnose endpoint fctems info

Get info from FortiClient EMS calls.

```
diagnose endpoint fctems info
```

diagnose endpoint fctems info pause

Pause getting info.

```
diagnose endpoint fctems info pause
```

diagnose endpoint fctems info pre-master-key

Pre-master Key.

```
diagnose endpoint fctems info pre-master-key [enable|disable]
```

Parameter	Description	Type	Size
[enable disable]	enable/disable	string	

diagnose endpoint fctems info protocol

Protocol.

```
diagnose endpoint fctems info protocol [none|https|wss|all]
```

Parameter	Description	Type	Size
[none https wss all]	none/https/wss/all	string	

diagnose endpoint fctems info repeat

Get/Set repetitions for each infotype.

```
diagnose endpoint fctems info repeat
```

diagnose endpoint fctems info repeat data-in

data in.

```
diagnose endpoint fctems info repeat data-in <num>
```

Parameter	Description	Type	Size
<num>	Integer in the range of [0, 255].	string	

diagnose endpoint fctems info repeat data-out

data out.

```
diagnose endpoint fctems info repeat data-out <num>
```

Parameter	Description	Type	Size
<num>	Integer in the range of [0, 255].	string	

diagnose endpoint fctems info repeat header-in

header in.

```
diagnose endpoint fctems info repeat header-in <num>
```

Parameter	Description	Type	Size
<num>	Integer in the range of [0, 255].	string	

diagnose endpoint fctems info repeat header-out

header out.

```
diagnose endpoint fctems info repeat header-out <num>
```

Parameter	Description	Type	Size
<num>	Integer in the range of [0, 255].	string	

diagnose endpoint fctems info repeat ssl-data-in

SSL data in.

```
diagnose endpoint fctems info repeat ssl-data-in <num>
```

Parameter	Description	Type	Size
<num>	Integer in the range of [0, 255].	string	

diagnose endpoint fctems info repeat ssl-data-out

SSL data out.

```
diagnose endpoint fctems info repeat ssl-data-out <num>
```

Parameter	Description	Type	Size
<num>	Integer in the range of [0, 255].	string	

diagnose endpoint fctems info repeat textinfo

text info.

```
diagnose endpoint fctems info repeat textinfo <num>
```

Parameter	Description	Type	Size
<num>	Integer in the range of [0, 255].	string	

diagnose endpoint fctems info reset

Reset fctems info.

```
diagnose endpoint fctems info reset
```

diagnose endpoint fctems info resume

Resume/Start getting info.


```
diagnose endpoint fctems info resume
```

diagnose endpoint fctems json

FortiClient EMS REST-API JSON test.

```
diagnose endpoint fctems json
```

diagnose endpoint fctems json deep-inspect-cert-sync

Print deep inspection certificate sync json.

```
diagnose endpoint fctems json deep-inspect-cert-sync
```

diagnose endpoint fctems json gateway-mac-request

Print gateway-info json.

```
diagnose endpoint fctems json gateway-mac-request
```

diagnose endpoint fctems queue-complete-calls

Add complete (un)quarantine call(s) to FCEMSD queue.

```
diagnose endpoint fctems queue-complete-calls <call>[,<call>[,...]]
```

Parameter	Description	Type	Size
<call>[,<call>[,...]]	Comma separated list of calls. Run without the argument for more help.	string	

diagnose endpoint fctems test-authorization

Authorization test for FortiClient EMS.

```
diagnose endpoint fctems test-authorization <fctems>
```

Parameter	Description	Type	Size
<fctems>	FortiClient EMS table entry id in CMDB.	string	

diagnose endpoint fctems test-connectivity

Connectivity test for FortiClient EMS.

```
diagnose endpoint fctems test-connectivity <fctems>
```

Parameter	Description	Type	Size
<fctems>	FortiClient EMS table entry id in CMDB.	string	

diagnose endpoint fctems wss-cert-skip-check

Skip WebSocketSecure server certificate check.

```
diagnose endpoint fctems wss-cert-skip-check [yes|no]
```

Parameter	Description	Type	Size
[yes no]	yes/no	string	

diagnose endpoint filter

Debug filter for fcnacd.

```
diagnose endpoint filter
```

diagnose endpoint filter avatar-fingerprint

Avatar fingerprint to filter by.

```
diagnose endpoint filter avatar-fingerprint <avatar-fingerprint>
```

Parameter	Description	Type	Size
<avatar-fingerprint>	Avatar fingerprint.	string	

diagnose endpoint filter clear

Erase the current filter.

```
diagnose endpoint filter clear
```

diagnose endpoint filter ems-sn

FortiClient EMS serial-number to filter by.

```
diagnose endpoint filter ems-sn <ems-sn>
```

Parameter	Description	Type	Size
<ems-sn>	EMS serial-number.	string	

diagnose endpoint filter ftcl-uid

FortiClient UID to filter by.

```
diagnose endpoint filter ftcl-uid <ftcl-uid>
```

Parameter	Description	Type	Size
<ftcl-uid>	FortiClient UID.	string	

diagnose endpoint filter list

Display the current filter.

```
diagnose endpoint filter list
```

diagnose endpoint filter record-debug-log

Record debug log.

```
diagnose endpoint filter record-debug-log [enable/disable]
```

Parameter	Description	Type	Size
[enable/disable]	Enable or disable.	string	

diagnose endpoint filter show-large-data

Show large data.

```
diagnose endpoint filter show-large-data [yes/no]
```

Parameter	Description	Type	Size
[yes/no]	Yes or no.	string	

diagnose endpoint lls-comm

Long-Lived Socket Communication.

```
diagnose endpoint lls-comm
```

diagnose endpoint lls-comm connect

Connect.

```
diagnose endpoint lls-comm connect
```

diagnose endpoint lls-comm disconnect

Disconnect.

```
diagnose endpoint lls-comm disconnect
```

diagnose endpoint lls-comm recv

Receive Messages.

```
diagnose endpoint lls-comm recv <repeat>
```

Parameter	Description	Type	Size
<repeat>	Repeat number of receives	string	

diagnose endpoint lls-comm send

Send Message.

```
diagnose endpoint lls-comm send
```

diagnose endpoint lls-comm send echo

Echo long-lived socket channel

```
diagnose endpoint lls-comm send echo
```

diagnose endpoint lls-comm send general

General long-lived socket channel

```
diagnose endpoint lls-comm send general
```

diagnose endpoint lls-comm send general get-index

Get Long-lived socket channel index.

```
diagnose endpoint lls-comm send general get-index
```

diagnose endpoint lls-comm send general register

Register to Long-lived Socket channel(s)

```
diagnose endpoint lls-comm send general register <channel-mask>
```

Parameter	Description	Type	Size
<channel-mask>	Channel Mask in decimal, octal or hexadecimal	string	

diagnose endpoint lls-comm send general unregister

Unregister from Long-lived Socket channel(s)

```
diagnose endpoint lls-comm send general unregister <channel-mask>
```

Parameter	Description	Type	Size
<channel-mask>	Channel Mask in decimal, octal or hexadecimal	string	

diagnose endpoint lls-comm send ping

Ping long-lived socket channel

```
diagnose endpoint lls-comm send ping
```

diagnose endpoint lls-comm send ping set-interval

Set interval

```
diagnose endpoint lls-comm send ping set-interval <interval>
```

Parameter	Description	Type	Size
<interval>	Period in units of 1/100 seconds	string	

diagnose endpoint lls-comm send ztna

ZTNA long-lived socket channel

```
diagnose endpoint lls-comm send ztna
```

diagnose endpoint lls-comm send ztna find-ip-vdom

Find by IP and VDOM

```
diagnose endpoint lls-comm send ztna find-ip-vdom <ip> <vdom>
```

Parameter	Description	Type	Size
<ip>	IPv4 or IPv6 address of client	string	
<vdom>	VDOM name	string	

diagnose endpoint lls-comm send ztna find-uid

Find by FortiClient UID and EMS SN

```
diagnose endpoint lls-comm send ztna find-uid <ftct-uid> <emssn> <ems-tenant-id>
```

Parameter	Description	Type	Size
<ftct-uid>	Client UID	string	
<emssn>	EMS Serial Number	string	
<ems-tenant-id>	EMS Tenant ID	string	

diagnose endpoint lls-comm send ztna message-format

Select if wad header is sent

```
diagnose endpoint lls-comm send ztna message-format <index>
```

Parameter	Description	Type	Size
<index>	0: standard 1: wad informer 2: diag wad informer	string	

diagnose endpoint lls-comm send ztna subscribe-all

Subscribe to all FortiClients on selected LLS bits

```
diagnose endpoint lls-comm send ztna subscribe-all <mask>
```

Parameter	Description	Type	Size
<mask>	Bit mask	string	

diagnose endpoint lls-comm send ztna unsubscribe-all

Unsubscribe to all FortiClients on issuing LLS

```
diagnose endpoint lls-comm send ztna unsubscribe-all
```

diagnose endpoint lls-comm send ztna unsubscribe-uid

Unsubscribe from FortiClient UID

```
diagnose endpoint lls-comm send ztna unsubscribe-uid <ftct-uid> <emssn> <ems-tenant-id>
```

Parameter	Description	Type	Size
<ftct-uid>	Client UID	string	
<emssn>	EMS Serial Number	string	
<ems-tenant-id>	EMS_Tenant ID	string	

diagnose endpoint lls-comm status

Status.

```
diagnose endpoint lls-comm status
```

diagnose endpoint tags

Tags.

```
diagnose endpoint tags
```

diagnose endpoint tags remove-by-id

Remove Dynamic address tags by EMS ID.

```
diagnose endpoint tags remove-by-id <EMS-ID>
```

Parameter	Description	Type	Size
<EMS-ID>	EMS ID.	string	

diagnose endpoint tags remove-by-name

Remove specific tag by EMS ID and name.

```
diagnose endpoint tags remove-by-name <TAG-Name> <EMS-ID>
```

Parameter	Description	Type	Size
<TAG-Name>	Tag name.	string	
<EMS-ID>	EMS ID.	string	

diagnose endpoint tags remove-by-name-legacy

Remove specific tag by Serial Number and name (LEGACY).

```
diagnose endpoint tags remove-by-name-legacy <TAG-Name> <SN>
```

Parameter	Description	Type	Size
<TAG-Name>	Tag name.	string	
<SN>	Serial Number.	string	

diagnose endpoint tags remove-by-sn

Remove Dynamic address tags by Serial Number (LEGACY).

```
diagnose endpoint tags remove-by-sn <SN>
```

Parameter	Description	Type	Size
<SN>	Serial Number.	string	

diagnose endpoint tags test-common-tag-update

Test update tags for FortiClient EMS

```
diagnose endpoint tags test-common-tag-update <TAG-INFO-JSON>
```

Parameter	Description	Type	Size
<TAG-INFO-JSON>	JSON string for commands.	string	

diagnose fdsm

FortiCloud/FortiManager Service.

This topic includes the following commands:

- [diagnose fdsm account-info on page 1453](#)
- [diagnose fdsm central-mgmt-status on page 1453](#)
- [diagnose fdsm cfg-diff on page 1454](#)
- [diagnose fdsm cfg-download on page 1454](#)
- [diagnose fdsm cfg-list on page 1454](#)
- [diagnose fdsm cfg-upload on page 1454](#)
- [diagnose fdsm contract-controller-update on page 1454](#)
- [diagnose fdsm fap-fsw-contract-download on page 1455](#)
- [diagnose fdsm fc-installer-download on page 1455](#)
- [diagnose fdsm fds-update on page 1455](#)
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- [diagnose fdsm image-upgrade-matrix on page 1457](#)
- [diagnose fdsm log-controller-update on page 1457](#)
- [diagnose fdsm message-update on page 1457](#)
- [diagnose fdsm modem-list on page 1457](#)
- [diagnose fdsm report-download on page 1458](#)
- [diagnose fdsm report-list on page 1458](#)

diagnose fdsm account-info

FortiCloud account information.

```
diagnose fdsm account-info
```

diagnose fdsm central-mgmt-status

Central management registration status.

```
diagnose fdsm central-mgmt-status
```

diagnose fdsm cfg-diff

Configuration difference.

```
diagnose fdsm cfg-diff <revision1> <revision2>
```

Parameter	Description	Type	Size
<revision1>	Revision	string	
<revision2>	Revision	string	

diagnose fdsm cfg-download

Download configuration.

```
diagnose fdsm cfg-download <type> <revision>
```

Parameter	Description	Type	Size
<type>	Configuration type (normal, template, script).	string	
<revision>	Revision	string	

diagnose fdsm cfg-list

Download configuration list.

```
diagnose fdsm cfg-list <type>
```

Parameter	Description	Type	Size
<type>	Configuration type (normal, template, script).	string	

diagnose fdsm cfg-upload

Upload configuration.

```
diagnose fdsm cfg-upload <comments>
```

Parameter	Description	Type	Size
<comments>	Comments	string	

diagnose fdsm contract-controller-update

Update contract controller.

```
diagnose fdsm contract-controller-update
```

diagnose fdsm fap-fsw-contract-download

FAP/FSW contract information.

```
diagnose fdsm fap-fsw-contract-download <serial1*serial2*...>
```

Parameter	Description	Type	Size
<serial1*serial2*...>	Serial numbers of FAP/FSW devices	string	

diagnose fdsm fc-installer-download

Download FortiClient installer.

```
diagnose fdsm fc-installer-download <id>
```

Parameter	Description	Type	Size
<id>	Package ID.	string	

diagnose fdsm fds-update

Perform FortiGuard update.

```
diagnose fdsm fds-update
```

diagnose fdsm fmg-auto-discovery-status

FortiManager auto-discovery status.

```
diagnose fdsm fmg-auto-discovery-status
```

diagnose fdsm forticlient-net-info

FortiClient net information.

```
diagnose fdsm forticlient-net-info
```

diagnose fdsm forticlient-update

FortiClient update.

```
diagnose fdsm forticlient-update
```

diagnose fdsm fortiex-download

Download FortiExtender image.

```
diagnose fdsm fortiex-download <id>
```

Parameter	Description	Type	Size
<id>	Image ID	string	

diagnose fdsm fortiex-latest-ver

Get most recent FortiExtender build information.

```
diagnose fdsm fortiex-latest-ver <model>
```

Parameter	Description	Type	Size
<model>	Model name	string	

diagnose fdsm fortisw-download

Download FortiSwitch image.

```
diagnose fdsm fortisw-download <id>
```

Parameter	Description	Type	Size
<id>	Image ID	string	

diagnose fdsm fortisw-latest-ver

Get most recent FortiSwitch build information.

```
diagnose fdsm fortisw-latest-ver <model>
```

Parameter	Description	Type	Size
<model>	Model name	string	

diagnose fdsm ftk-activate

FortiToken activation.

```
diagnose fdsm ftk-activate
```

diagnose fdsm image-download

Download image.

```
diagnose fdsm image-download <id>
```

Parameter	Description	Type	Size
<id>	Image ID.	string	

diagnose fdsm image-list

Download image list.

```
diagnose fdsm image-list
```

diagnose fdsm image-upgrade-matrix

Download image upgrade matrix.

```
diagnose fdsm image-upgrade-matrix
```

diagnose fdsm log-controller-update

Perform log update.

```
diagnose fdsm log-controller-update
```

diagnose fdsm message-update

Perform message update.

```
diagnose fdsm message-update
```

diagnose fdsm modem-list

MODEM list.

```
diagnose fdsm modem-list
```

diagnose fdsm report-download

Download report.

```
diagnose fdsm report-download <oid>
```

Parameter	Description	Type	Size
<oid>	OID	string	

diagnose fdsm report-list

Download report list.

```
diagnose fdsm report-list <vdom>
```

Parameter	Description	Type	Size
<vdom>	VDOM Name.	string	

diagnose firewall

Firewall

This topic includes the following commands:

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- [diagnose firewall auth clear on page 1460](#)
- [diagnose firewall auth filter on page 1460](#)
- [diagnose firewall auth filter clear on page 1460](#)
- [diagnose firewall auth filter group on page 1461](#)
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diagnose firewall auth

Authenticated users.

```
diagnose firewall auth
```

diagnose firewall auth clear

Clear authenticated IPv4 users.

```
diagnose firewall auth clear
```

diagnose firewall auth filter

Filters used to list entries.

```
diagnose firewall auth filter
```

diagnose firewall auth filter clear

Clear all filters.

```
diagnose firewall auth filter clear
```


diagnose firewall auth filter group

Group name.

```
diagnose firewall auth filter group <name>
```

Parameter	Description	Type	Size
<name>	Group name.	string	

diagnose firewall auth filter mac

MAC address.

```
diagnose firewall auth filter mac <xx:xx:xx:xx:xx:xx>
```

Parameter	Description	Type	Size
<xx:xx:xx:xx:xx:xx>	MAC address.	string	

diagnose firewall auth filter method

method

```
diagnose firewall auth filter method <method>
```

Parameter	Description	Type	Size
<method>	Valid method name: fsso, rso, ntlm, fw, wso, disclaimer, fsso_citrix, sso_guest.	string	

diagnose firewall auth filter policy

Policy ID.

```
diagnose firewall auth filter policy <xxx>
```

Parameter	Description	Type	Size
<xxx>	Policy ID.	string	

diagnose firewall auth filter source

IPv4 source address.

```
diagnose firewall auth filter source <xxx.xxx.xxx.xxx>
```

Parameter	Description	Type	Size
<xxx.xxx.xxx.xxx>	IPv4 source (range from).	string	

diagnose firewall auth filter source6

IPv6 source address.

```
diagnose firewall auth filter source6 <xxxx::xxxx>
```

Parameter	Description	Type	Size
<xxxx::xxxx>	IPv6 source (range from).	string	

diagnose firewall auth filter user

User name.

```
diagnose firewall auth filter user <name>
```

Parameter	Description	Type	Size
<name>	User name.	string	

diagnose firewall auth ipv6

Authenticated IPv6 users.

```
diagnose firewall auth ipv6
```

diagnose firewall auth ipv6 clear

Clear authenticated IPv6 users.

```
diagnose firewall auth ipv6 clear
```

diagnose firewall auth ipv6 list

List authenticated IPv6 users.

```
diagnose firewall auth ipv6 list
```

diagnose firewall auth list

List authenticated IPv4 users.

```
diagnose firewall auth list
```

diagnose firewall auth mac

Authenticated MAC users.

```
diagnose firewall auth mac
```

diagnose firewall auth mac clear

Clear authenticated MAC users.

```
diagnose firewall auth mac clear
```

diagnose firewall auth mac list

List authenticated MAC users.

```
diagnose firewall auth mac list
```

diagnose firewall dynamic

Show dynamic addresses.

```
diagnose firewall dynamic
```

diagnose firewall dynamic address

Get summary of one or all dynamic addresses.

```
diagnose firewall dynamic address <name>
```

Parameter	Description	Type	Size
<name>	Dynamic address name. (Optional)	string	

diagnose firewall dynamic list

Get list of one or all dynamic addresses.

```
diagnose firewall dynamic list <name>
```

Parameter	Description	Type	Size
<name>	Dynamic address name. (Optional)	string	

diagnose firewall dynamic test-common-tag-update

Test update tags API for dynamic addresses.

```
diagnose firewall dynamic test-common-tag-update <TAG-INFO-JSON>
```

Parameter	Description	Type	Size
<TAG-INFO-JSON>	JSON string for commands.	string	

diagnose firewall dynamic6

Show IPv6 dynamic addresses.

```
diagnose firewall dynamic6
```

diagnose firewall dynamic6 address

Get summary of IPv6 dynamic addresses.

```
diagnose firewall dynamic6 address <name>
```

Parameter	Description	Type	Size
<name>	Dynamic address name.	string	

diagnose firewall dynamic6 list

List all IPv6 dynamic addresses.

```
diagnose firewall dynamic6 list <name>
```

Parameter	Description	Type	Size
<name>	Dynamic address name.	string	

diagnose firewall fqdn

fqdn

```
diagnose firewall fqdn
```

diagnose firewall fqdn get-ip

Get and display one IP FQDN address.

```
diagnose firewall fqdn get-ip <name>
```

Parameter	Description	Type	Size
<name>	Address Name	string	

diagnose firewall fqdn get-mac

Get and display one MAC FQDN address.

```
diagnose firewall fqdn get-mac <name>
```

Parameter	Description	Type	Size
<name>	Address Name	string	

diagnose firewall fqdn getinfo-ip

Get info of IP FQDN address

```
diagnose firewall fqdn getinfo-ip <name>
```

Parameter	Description	Type	Size
<name>	name	string	

diagnose firewall fqdn getinfo-mac

Get info of MAC FQDN address

```
diagnose firewall fqdn getinfo-mac <name>
```

Parameter	Description	Type	Size
<name>	name	string	

diagnose firewall fqdn list-all

List FQDN.

```
diagnose firewall fqdn list-all
```

diagnose firewall fqdn list-ip

List IP FQDN.

```
diagnose firewall fqdn list-ip
```

diagnose firewall fqdn list-mac

List MAC FQDN.

```
diagnose firewall fqdn list-mac
```

diagnose firewall fqdn6

IPv6 FQDN.

```
diagnose firewall fqdn6
```

diagnose firewall fqdn6 get

Get and display one IPv6 FQDN address.

```
diagnose firewall fqdn6 get <name>
```

Parameter	Description	Type	Size
<name>	Address Name	string	

diagnose firewall fqdn6 list

List all IPv6 FQDN.

```
diagnose firewall fqdn6 list
```

diagnose firewall internet-service

Internet service in the kernel.

```
diagnose firewall internet-service
```

diagnose firewall internet-service list

List Internet Service.

```
diagnose firewall internet-service list <section>
```

Parameter	Description	Type	Size
<section>	Internet Service table section.(0: entry, 1: index, <integer>: singularity)	string	

diagnose firewall internet-service-app-ctrl

Application control internet service in the kernel.

```
diagnose firewall internet-service-app-ctrl
```

diagnose firewall internet-service-cache

Internet Service database cache entries in the kernel.

```
diagnose firewall internet-service-cache
```

diagnose firewall internet-service-cache list

List Internet Service databse cache entries in the kernel.

```
diagnose firewall internet-service-cache list
```

diagnose firewall internet-service-custom

Custom Internet Service in the kernel.

```
diagnose firewall internet-service-custom
```

diagnose firewall internet-service-custom list

List Custom Internet Service.

```
diagnose firewall internet-service-custom list <name>
```

Parameter	Description	Type	Size
<name>	Custom Internet Service name.	string	

diagnose firewall internet-service-disable

Internet Service disable entries in the kernel.

```
diagnose firewall internet-service-disable
```

diagnose firewall internet-service-disable list

List Internet Service disable entries.

```
diagnose firewall internet-service-disable list <ID>
```

Parameter	Description	Type	Size
<ID>	Internet Service ID.	string	

diagnose firewall internet-service-extension

Internet Service extension in the kernel.

```
diagnose firewall internet-service-extension
```

diagnose firewall internet-service-extension list

List Internet Service extension.

```
diagnose firewall internet-service-extension list <ID>
```

Parameter	Description	Type	Size
<ID>	Internet Service ID.	string	

diagnose firewall internet-service-prio-id

Internet service ID in firewall policy, shaping policy, SD-WAN rule, static route, and router policy.

```
diagnose firewall internet-service-prio-id
```


diagnose firewall internet-service-prio-id list

List Internet Service Priority ID.

```
diagnose firewall internet-service-prio-id list
```

diagnose firewall internet-service6

Internet service6 in the kernel.

```
diagnose firewall internet-service6
```

diagnose firewall internet-service6 list

List Internet Service6.

```
diagnose firewall internet-service6 list <section>
```

Parameter	Description	Type	Size
<section>	Internet Service6 table section.(0: entry, 1: index, <integer>: singularity)	string	

diagnose firewall internet-service6-cache

Internet Service database cache entries for IPv6 in the kernel.

```
diagnose firewall internet-service6-cache
```

diagnose firewall internet-service6-cache list

List Internet Service database cache entries for IPv6 in the kernel.

```
diagnose firewall internet-service6-cache list
```

diagnose firewall internet-service6-custom

Custom Internet Service6 in the kernel.

```
diagnose firewall internet-service6-custom
```

diagnose firewall internet-service6-custom list

List Custom Internet Service.

```
diagnose firewall internet-service6-custom list <name>
```

Parameter	Description	Type	Size
<name>	Custom Internet Service name.	string	

diagnose firewall internet-service6-disable

Internet Service6 disable entries in the kernel.

```
diagnose firewall internet-service6-disable
```

diagnose firewall internet-service6-disable list

List Internet Service6 disable entries.

```
diagnose firewall internet-service6-disable list <ID>
```

Parameter	Description	Type	Size
<ID>	Internet Service6 ID.	string	

diagnose firewall internet-service6-extension

Internet Service6 extension in the kernel.

```
diagnose firewall internet-service6-extension
```

diagnose firewall internet-service6-extension list

List Internet Service6 extension.

```
diagnose firewall internet-service6-extension list <ID>
```

Parameter	Description	Type	Size
<ID>	Internet Service6 ID.	string	

diagnose firewall internet-service6-prio-id

Internet service ID in firewall policy, SD-WAN rule, and router policy.

```
diagnose firewall internet-service6-prio-id
```

diagnose firewall internet-service6-prio-id list

List Internet Service6 Priority ID.

```
diagnose firewall internet-service6-prio-id list
```

diagnose firewall ipgeo

IP geolocation.

```
diagnose firewall ipgeo
```

diagnose firewall ipgeo copyright-notice

Copyright note.

```
diagnose firewall ipgeo copyright-notice
```

diagnose firewall ipgeo country-list

List all countries.

```
diagnose firewall ipgeo country-list
```

diagnose firewall ipgeo ip-list

List IP info of country.

```
diagnose firewall ipgeo ip-list <name>
```

Parameter	Description	Type	Size
<name>	Country ID.	string	

diagnose firewall ipgeo ip2country

Get country info for the IP.

```
diagnose firewall ipgeo ip2country <ip>
```

Parameter	Description	Type	Size
<ip>	IPv4/IPv6 address.	string	

diagnose firewall ipgeo override

Print out all user defined IP geolocation data.

```
diagnose firewall ipgeo override
```

diagnose firewall network-service-dynamic

Dynamic Network Service in the kernel.

```
diagnose firewall network-service-dynamic
```

diagnose firewall network-service-dynamic list

List Dynamic Network Service.

```
diagnose firewall network-service-dynamic list <name>
```

Parameter	Description	Type	Size
<name>	Dynamic Network Service name.	string	

diagnose firewall nslookup

Name server lookup.

```
diagnose firewall nslookup <FQDN> <DNS-server>
```

Parameter	Description	Type	Size
<FQDN>	FQDN.	string	
<DNS-server>	DNS-server.	string	

diagnose firewall shaper

shapers

```
diagnose firewall shaper
```

diagnose firewall shaper per-ip-shaper

Traffic shapers.

```
diagnose firewall shaper per-ip-shaper
```

diagnose firewall shaper per-ip-shaper clear

Per-IP clear statistic data.

```
diagnose firewall shaper per-ip-shaper clear
```

diagnose firewall shaper per-ip-shaper list

List per-IP shapers.

```
diagnose firewall shaper per-ip-shaper list
```

diagnose firewall shaper per-ip-shaper state

Per-IP shapers state.

```
diagnose firewall shaper per-ip-shaper state
```

diagnose firewall shaper per-ip-shaper stats

Per-IP shapers statistic.

```
diagnose firewall shaper per-ip-shaper stats
```

diagnose firewall shaper traffic-shaper

Traffic shapers.

```
diagnose firewall shaper traffic-shaper
```

diagnose firewall shaper traffic-shaper list

List traffic shapers.

```
diagnose firewall shaper traffic-shaper list
```

diagnose firewall shaper traffic-shaper stats

Traffic shaper statistics.

```
diagnose firewall shaper traffic-shaper stats
```

diagnose firewall shaper traffic-shaper stats clear

Clear traffic shaper statistics.

```
diagnose firewall shaper traffic-shaper stats clear <name>
```

Parameter	Description	Type	Size
<name>	Name of traffic shaper to clear.	string	

diagnose firewall shaper traffic-shaper stats list

List traffic shaper statistics.

```
diagnose firewall shaper traffic-shaper stats list
```

diagnose firewall snat-ippool

All IP pool.

```
diagnose firewall snat-ippool
```

diagnose firewall snat-ippool list

List IPv4.

```
diagnose firewall snat-ippool list
```

diagnose firewall snat-ippool list6

List IPv6.

```
diagnose firewall snat-ippool list6
```

diagnose fortiguard-resources

FortiGuard resources.

This topic includes the following commands:

- [diagnose fortiguard-resources delete on page 1476](#)
- [diagnose fortiguard-resources delete app-categories on page 1476](#)
- [diagnose fortiguard-resources delete app-info on page 1477](#)
- [diagnose fortiguard-resources delete dlp-object on page 1477](#)
- [diagnose fortiguard-resources delete fortiap-end-of-support on page 1477](#)
- [diagnose fortiguard-resources delete fortitender-end-of-support on page 1477](#)
- [diagnose fortiguard-resources delete fortigate-end-of-support on page 1477](#)
- [diagnose fortiguard-resources delete fortiswitch-end-of-support on page 1478](#)
- [diagnose fortiguard-resources delete ips-information on page 1478](#)
- [diagnose fortiguard-resources delete prefix-links on page 1478](#)
- [diagnose fortiguard-resources delete sprite-casb on page 1478](#)
- [diagnose fortiguard-resources delete sprite-isdb on page 1478](#)
- [diagnose fortiguard-resources delete sprite-map on page 1478](#)
- [diagnose fortiguard-resources delete static-links on page 1479](#)
- [diagnose fortiguard-resources delete wf-categories on page 1479](#)
- [diagnose fortiguard-resources delete-all on page 1479](#)
- [diagnose fortiguard-resources downloads on page 1479](#)
- [diagnose fortiguard-resources downloads disable on page 1479](#)
- [diagnose fortiguard-resources downloads enable on page 1479](#)
- [diagnose fortiguard-resources info on page 1479](#)
- [diagnose fortiguard-resources info app-categories on page 1480](#)
- [diagnose fortiguard-resources info app-info on page 1480](#)
- [diagnose fortiguard-resources info dlp-object on page 1480](#)
- [diagnose fortiguard-resources info fortiap-end-of-support on page 1480](#)
- [diagnose fortiguard-resources info fortitender-end-of-support on page 1480](#)
- [diagnose fortiguard-resources info fortigate-end-of-support on page 1480](#)
- [diagnose fortiguard-resources info fortiswitch-end-of-support on page 1481](#)
- [diagnose fortiguard-resources info ips-information on page 1481](#)
- [diagnose fortiguard-resources info prefix-links on page 1481](#)
- [diagnose fortiguard-resources info sprite-casb.css on page 1481](#)
- [diagnose fortiguard-resources info sprite-casb.png on page 1481](#)
- [diagnose fortiguard-resources info sprite-isdb.css on page 1481](#)
- [diagnose fortiguard-resources info sprite-isdb.png on page 1482](#)
- [diagnose fortiguard-resources info sprite-map.css on page 1482](#)
- [diagnose fortiguard-resources info sprite-map.png on page 1482](#)
- [diagnose fortiguard-resources info static-links on page 1482](#)
- [diagnose fortiguard-resources info wf-categories on page 1482](#)
- [diagnose fortiguard-resources log on page 1482](#)
- [diagnose fortiguard-resources log all on page 1482](#)

- [diagnose fortiguard-resources log app-categories on page 1483](#)
- [diagnose fortiguard-resources log app-info on page 1483](#)
- [diagnose fortiguard-resources log fortiap-end-of-support on page 1483](#)
- [diagnose fortiguard-resources log fortixtender-end-of-support on page 1483](#)
- [diagnose fortiguard-resources log fortigate-end-of-support on page 1483](#)
- [diagnose fortiguard-resources log fortiswitch-end-of-support on page 1483](#)
- [diagnose fortiguard-resources log ips-information on page 1483](#)
- [diagnose fortiguard-resources log maintainer on page 1484](#)
- [diagnose fortiguard-resources log prefix-links on page 1484](#)
- [diagnose fortiguard-resources log sprite-casb on page 1484](#)
- [diagnose fortiguard-resources log sprite-isdb on page 1484](#)
- [diagnose fortiguard-resources log sprite-map on page 1484](#)
- [diagnose fortiguard-resources log static-links on page 1484](#)
- [diagnose fortiguard-resources log wf-categories on page 1484](#)
- [diagnose fortiguard-resources update on page 1485](#)
- [diagnose fortiguard-resources update app-categories on page 1485](#)
- [diagnose fortiguard-resources update app-info on page 1485](#)
- [diagnose fortiguard-resources update dlp-object on page 1485](#)
- [diagnose fortiguard-resources update fortiap-end-of-support on page 1485](#)
- [diagnose fortiguard-resources update fortixtender-end-of-support on page 1485](#)
- [diagnose fortiguard-resources update fortigate-end-of-support on page 1486](#)
- [diagnose fortiguard-resources update fortiswitch-end-of-support on page 1486](#)
- [diagnose fortiguard-resources update ips-information on page 1486](#)
- [diagnose fortiguard-resources update prefix-links on page 1486](#)
- [diagnose fortiguard-resources update sprite-casb on page 1486](#)
- [diagnose fortiguard-resources update sprite-isdb on page 1486](#)
- [diagnose fortiguard-resources update sprite-map on page 1487](#)
- [diagnose fortiguard-resources update static-links on page 1487](#)
- [diagnose fortiguard-resources update wf-categories on page 1487](#)

diagnose fortiguard-resources delete

Deletes all downloaded files for a FortiGuard resource, restores the original copy if available.

```
diagnose fortiguard-resources delete
```

diagnose fortiguard-resources delete app-categories

Application categories.

```
diagnose fortiguard-resources delete app-categories
```


diagnose fortiguard-resources delete app-info

Application info for a given ID. If no ID given, deletes all application info resources.

```
diagnose fortiguard-resources delete app-info <id>
```

Parameter	Description	Type	Size
<id>	ID of application to be deleted.	string	

diagnose fortiguard-resources delete dlp-object

DLP object info for a given ID. If no ID given, deletes all DLP object info resources.

```
diagnose fortiguard-resources delete dlp-object <id>
```

Parameter	Description	Type	Size
<id>	ID of DLP object to be deleted.	string	

diagnose fortiguard-resources delete fortiap-end-of-support

FortiAP product life cycle information.

```
diagnose fortiguard-resources delete fortiap-end-of-support
```

diagnose fortiguard-resources delete fortiextender-end-of-support

FortiExtender product life cycle information.

```
diagnose fortiguard-resources delete fortiextender-end-of-support
```

diagnose fortiguard-resources delete fortigate-end-of-support

FortiGate product life cycle information.

```
diagnose fortiguard-resources delete fortigate-end-of-support
```

diagnose fortiguard-resources delete fortiswitch-end-of-support

FortiSwitch product life cycle information.

```
diagnose fortiguard-resources delete fortiswitch-end-of-support
```

diagnose fortiguard-resources delete ips-information

IPS information for a given ID. If no ID given, deletes all IPS info resources.

```
diagnose fortiguard-resources delete ips-information <id>
```

Parameter	Description	Type	Size
<id>	ID of IPS to be deleted.	string	

diagnose fortiguard-resources delete prefix-links

Prefix links.

```
diagnose fortiguard-resources delete prefix-links
```

diagnose fortiguard-resources delete sprite-casb

Application icon sprite CASB (CSS & PNG).

```
diagnose fortiguard-resources delete sprite-casb
```

diagnose fortiguard-resources delete sprite-isdb

Application icon sprite ISDB (CSS & PNG).

```
diagnose fortiguard-resources delete sprite-isdb
```

diagnose fortiguard-resources delete sprite-map

Application icon sprite map (CSS & PNG).

```
diagnose fortiguard-resources delete sprite-map
```

diagnose fortiguard-resources delete static-links

Static links.

```
diagnose fortiguard-resources delete static-links
```

diagnose fortiguard-resources delete wf-categories

Web filter categories.

```
diagnose fortiguard-resources delete wf-categories
```

diagnose fortiguard-resources delete-all

Deletes all downloaded FortiGuard resource files (debug image only).

```
diagnose fortiguard-resources delete-all
```

diagnose fortiguard-resources downloads

Settings for download of FortiGuard resources.

```
diagnose fortiguard-resources downloads
```

diagnose fortiguard-resources downloads disable

Disable GUI downloading of resources from FortiGuard.

```
diagnose fortiguard-resources downloads disable
```

diagnose fortiguard-resources downloads enable

Enable GUI downloading of resources from FortiGuard.

```
diagnose fortiguard-resources downloads enable
```

diagnose fortiguard-resources info

View file information of a downloaded FortiGuard resource.

```
diagnose fortiguard-resources info
```

diagnose fortiguard-resources info app-categories

Application categories.

```
diagnose fortiguard-resources info app-categories
```

diagnose fortiguard-resources info app-info

Application info for a given ID.

```
diagnose fortiguard-resources info app-info <id>
```

Parameter	Description	Type	Size
<id>	ID of application to be retrieved.	string	

diagnose fortiguard-resources info dlp-object

DLP object info for a given ID.

```
diagnose fortiguard-resources info dlp-object <id>
```

Parameter	Description	Type	Size
<id>	ID of DLP object to be retrieved.	string	

diagnose fortiguard-resources info fortiap-end-of-support

FortiAP product life cycle information.

```
diagnose fortiguard-resources info fortiap-end-of-support
```

diagnose fortiguard-resources info fortiextender-end-of-support

FortiExtender product life cycle information.

```
diagnose fortiguard-resources info fortiextender-end-of-support
```

diagnose fortiguard-resources info fortigate-end-of-support

FortiGate product life cycle information.

```
diagnose fortiguard-resources info fortigate-end-of-support
```

diagnose fortiguard-resources info fortiswitch-end-of-support

FortiSwitch product life cycle information.

```
diagnose fortiguard-resources info fortiswitch-end-of-support
```

diagnose fortiguard-resources info ips-information

IPS information for a given ID.

```
diagnose fortiguard-resources info ips-information <id>
```

Parameter	Description	Type	Size
<id>	ID of IPS to be retrieved.	string	

diagnose fortiguard-resources info prefix-links

Prefix links.

```
diagnose fortiguard-resources info prefix-links
```

diagnose fortiguard-resources info sprite-casb.css

Application icon sprite CASB (CSS).

```
diagnose fortiguard-resources info sprite-casb.css
```

diagnose fortiguard-resources info sprite-casb.png

Application icon sprite CASB (PNG).

```
diagnose fortiguard-resources info sprite-casb.png
```

diagnose fortiguard-resources info sprite-isdb.css

Application icon sprite ISDB (CSS).

```
diagnose fortiguard-resources info sprite-isdb.css
```

diagnose fortiguard-resources info sprite-isdb.png

Application icon sprite ISDB (PNG).

```
diagnose fortiguard-resources info sprite-isdb.png
```

diagnose fortiguard-resources info sprite-map.css

Application icon sprite map (CSS).

```
diagnose fortiguard-resources info sprite-map.css
```

diagnose fortiguard-resources info sprite-map.png

Application icon sprite map (PNG).

```
diagnose fortiguard-resources info sprite-map.png
```

diagnose fortiguard-resources info static-links

Static links.

```
diagnose fortiguard-resources info static-links
```

diagnose fortiguard-resources info wf-categories

Web filter categories.

```
diagnose fortiguard-resources info wf-categories
```

diagnose fortiguard-resources log

Shows logs for FortiGuard resource prefetch.

```
diagnose fortiguard-resources log
```

diagnose fortiguard-resources log all

All FortiGuard resources.

```
diagnose fortiguard-resources log all
```

diagnose fortiguard-resources log app-categories

Application categories.

```
diagnose fortiguard-resources log app-categories
```

diagnose fortiguard-resources log app-info

Application info for a given ID.

```
diagnose fortiguard-resources log app-info
```

diagnose fortiguard-resources log fortiap-end-of-support

FortiAP product life cycle information.

```
diagnose fortiguard-resources log fortiap-end-of-support
```

diagnose fortiguard-resources log fortiextender-end-of-support

FortiExtender product life cycle information.

```
diagnose fortiguard-resources log fortiextender-end-of-support
```

diagnose fortiguard-resources log fortigate-end-of-support

FortiGate product life cycle information.

```
diagnose fortiguard-resources log fortigate-end-of-support
```

diagnose fortiguard-resources log fortiswitch-end-of-support

FortiSwitch product life cycle information.

```
diagnose fortiguard-resources log fortiswitch-end-of-support
```

diagnose fortiguard-resources log ips-information

IPS information for a given ID.

```
diagnose fortiguard-resources log ips-information
```

diagnose fortiguard-resources log maintainer

FortiGuard resource maintainer log.

```
diagnose fortiguard-resources log maintainer
```

diagnose fortiguard-resources log prefix-links

Prefix links.

```
diagnose fortiguard-resources log prefix-links
```

diagnose fortiguard-resources log sprite-casb

Application icon sprite CASB (CSS & PNG).

```
diagnose fortiguard-resources log sprite-casb
```

diagnose fortiguard-resources log sprite-isdb

Application icon sprite ISDB (CSS & PNG).

```
diagnose fortiguard-resources log sprite-isdb
```

diagnose fortiguard-resources log sprite-map

Application icon sprite map (CSS & PNG).

```
diagnose fortiguard-resources log sprite-map
```

diagnose fortiguard-resources log static-links

Static links.

```
diagnose fortiguard-resources log static-links
```

diagnose fortiguard-resources log wf-categories

Web filter categories.

```
diagnose fortiguard-resources log wf-categories
```


diagnose fortiguard-resources update

Deletes cached files and force downloads the FortiGuard resource (ignores GUI enable/disable).

```
diagnose fortiguard-resources update
```

diagnose fortiguard-resources update app-categories

Application categories.

```
diagnose fortiguard-resources update app-categories
```

diagnose fortiguard-resources update app-info

Application info for a given ID.

```
diagnose fortiguard-resources update app-info <id>
```

Parameter	Description	Type	Size
<id>	ID of application to be retrieved.	string	

diagnose fortiguard-resources update dlp-object

DLP object info for a given ID.

```
diagnose fortiguard-resources update dlp-object <id>
```

Parameter	Description	Type	Size
<id>	ID of DLP object to be retrieved.	string	

diagnose fortiguard-resources update fortiap-end-of-support

FortiAP product life cycle information.

```
diagnose fortiguard-resources update fortiap-end-of-support
```

diagnose fortiguard-resources update fortiextender-end-of-support

FortiExtender product life cycle information.

```
diagnose fortiguard-resources update fortiextender-end-of-support
```

diagnose fortiguard-resources update fortigate-end-of-support

FortiGate product life cycle information.

```
diagnose fortiguard-resources update fortigate-end-of-support
```

diagnose fortiguard-resources update fortiswitch-end-of-support

FortiSwitch product life cycle information.

```
diagnose fortiguard-resources update fortiswitch-end-of-support
```

diagnose fortiguard-resources update ips-information

IPS information for a given ID.

```
diagnose fortiguard-resources update ips-information <id>
```

Parameter	Description	Type	Size
<id>	ID of IPS to be retrieved.	string	

diagnose fortiguard-resources update prefix-links

Prefix links.

```
diagnose fortiguard-resources update prefix-links
```

diagnose fortiguard-resources update sprite-casb

Application icon sprite CASB (CSS & PNG).

```
diagnose fortiguard-resources update sprite-casb
```

diagnose fortiguard-resources update sprite-isdb

Application icon sprite ISDB (CSS & PNG).

```
diagnose fortiguard-resources update sprite-isdb
```

diagnose fortiguard-resources update sprite-map

Application icon sprite map (CSS & PNG).

```
diagnose fortiguard-resources update sprite-map
```

diagnose fortiguard-resources update static-links

Static links.

```
diagnose fortiguard-resources update static-links
```

diagnose fortiguard-resources update wf-categories

Web filter categories.

```
diagnose fortiguard-resources update wf-categories
```

diagnose fortitoken

FortiToken

This topic includes the following commands:

- [diagnose fortitoken debug on page 1487](#)
- [diagnose fortitoken debug disable on page 1487](#)
- [diagnose fortitoken debug enable on page 1488](#)
- [diagnose fortitoken info on page 1488](#)
- [diagnose fortitoken test on page 1488](#)

diagnose fortitoken debug

Debug enable/disable.

```
diagnose fortitoken debug
```

diagnose fortitoken debug disable

Disable debug output.

```
diagnose fortitoken debug disable
```

diagnose fortitoken debug enable

Enable debug output.

```
diagnose fortitoken debug enable
```

diagnose fortitoken info

Show current drift and status for each FortiToken.

```
diagnose fortitoken info <id>
```

Parameter	Description	Type	Size
<id>	FortiToken ID.	string	

diagnose fortitoken test

Test FortiToken with screen setting for drift of internal clock.

```
diagnose fortitoken test <id> <code> <next code> <screen size>
```

Parameter	Description	Type	Size
<id>	FortiToken ID.	string	
<code>	FortiToken code.	string	
<next code>	Next FortiToken code.	string	
<screen size>	Screen size for drift of internal clock.	string	

diagnose fortitoken-cloud

FortiToken Cloud Service.

This topic includes the following commands:

- [diagnose fortitoken-cloud clear on page 1489](#)
- [diagnose fortitoken-cloud debug on page 1489](#)
- [diagnose fortitoken-cloud debug disable on page 1489](#)
- [diagnose fortitoken-cloud debug enable on page 1489](#)
- [diagnose fortitoken-cloud debug info on page 1489](#)
- [diagnose fortitoken-cloud delete on page 1489](#)
- [diagnose fortitoken-cloud migrate-ftm on page 1490](#)
- [diagnose fortitoken-cloud server on page 1490](#)

- [diagnose fortitoken-cloud set-http on page 1490](#)
- [diagnose fortitoken-cloud show on page 1490](#)
- [diagnose fortitoken-cloud sync on page 1490](#)
- [diagnose fortitoken-cloud update on page 1491](#)

diagnose fortitoken-cloud clear

Clear server connection settings for diagnostics.

```
diagnose fortitoken-cloud clear
```

diagnose fortitoken-cloud debug

Enable/disable debug output.

```
diagnose fortitoken-cloud debug
```

diagnose fortitoken-cloud debug disable

Disable debug output.

```
diagnose fortitoken-cloud debug disable
```

diagnose fortitoken-cloud debug enable

Enable debug output.

```
diagnose fortitoken-cloud debug enable
```

diagnose fortitoken-cloud debug info

Debug status.

```
diagnose fortitoken-cloud debug info
```

diagnose fortitoken-cloud delete

Command to delete a user.

```
diagnose fortitoken-cloud delete <string>
```

Parameter	Description	Type	Size
<string>	User name.	string	

diagnose fortitoken-cloud migrate-ftm

Perform FTM license migration.

```
diagnose fortitoken-cloud migrate-ftm <string>
```

Parameter	Description	Type	Size
<string>	Enter command: show, start, abort, add-users, delete-users, ftm2ftc.	string	

diagnose fortitoken-cloud server

IP address port number and https.

```
diagnose fortitoken-cloud server <xxx.xxx.xxx.xxx> <xxx>
```

Parameter	Description	Type	Size
<xxx.xxx.xxx.xxx>	IP address.	string	
<xxx>	Port number <0-65535>.	string	

diagnose fortitoken-cloud set-http

Set HTTP status return code for diagnostics only.

```
diagnose fortitoken-cloud set-http <number>
```

Parameter	Description	Type	Size
<number>	Status code (value < 300 clears the error diagnostics).	string	

diagnose fortitoken-cloud show

Display diagnostics information.

```
diagnose fortitoken-cloud show <string>
```

Parameter	Description	Type	Size
<string>	Enter <server service users user>.	string	

diagnose fortitoken-cloud sync

Synchronize user information with FortiToken Cloud.

```
diagnose fortitoken-cloud sync <user type>
```

Parameter	Description	Type	Size
<user type>	Enter <return>, all, local, or remote.	string	

diagnose fortitoken-cloud update

Update cache data manually.

```
diagnose fortitoken-cloud update <string> <number>
```

Parameter	Description	Type	Size
<string>	Enter <balance count>.	string	
<number>	argument.	string	

diagnose fortiview

Fortiview backend diagnostic

This topic includes the following commands:

- [diagnose fortiview device on page 1491](#)
- [diagnose fortiview result on page 1491](#)
- [diagnose fortiview shaper-stats on page 1492](#)
- [diagnose fortiview sortby on page 1492](#)
- [diagnose fortiview time on page 1492](#)
- [diagnose fortiview view on page 1492](#)

diagnose fortiview device

device

```
diagnose fortiview device
```

diagnose fortiview result

result

```
diagnose fortiview result
```

diagnose fortiview shaper-stats

Fortiview shaper stats

```
diagnose fortiview shaper-stats
```

diagnose fortiview sortby

sortby

```
diagnose fortiview sortby
```

diagnose fortiview time

time

```
diagnose fortiview time
```

diagnose fortiview view

view

```
diagnose fortiview view
```

diagnose geoip

Diagnose geography IP database and service.

This topic includes the following commands:

- [diagnose geoip delete-geoip-db on page 1492](#)
- [diagnose geoip geoip-query on page 1493](#)
- [diagnose geoip ip2country on page 1493](#)
- [diagnose geoip iprange on page 1493](#)
- [diagnose geoip iprange6 on page 1493](#)

diagnose geoip delete-geoip-db

Delete geography IP database currently saved on this FortiProxy unit.

```
diagnose geoip delete-geoip-db
```


diagnose geoip geoip-query

Query FortiGuard service for geography information based on IP address.

```
diagnose geoip geoip-query <ip>
```

Parameter	Description	Type	Size
<ip>	IPv4 address.	string	

diagnose geoip ip2country

Query local geography IP database for country information based on IP address.

```
diagnose geoip ip2country <ip>
```

Parameter	Description	Type	Size
<ip>	IPv4/IPv6 address.	string	

diagnose geoip iprange

List IP ranges of specified country.

```
diagnose geoip iprange
```

diagnose geoip iprange6

List IPv6 ranges of specified country.

```
diagnose geoip iprange6
```

diagnose hardware

hardware

This topic includes the following commands:

- [diagnose hardware certificate on page 1494](#)
- [diagnose hardware deviceinfo on page 1494](#)
- [diagnose hardware deviceinfo disk on page 1494](#)
- [diagnose hardware deviceinfo nic on page 1494](#)
- [diagnose hardware deviceinfo nic-channel on page 1495](#)
- [diagnose hardware deviceinfo nic-stats on page 1495](#)

- [diagnose hardware deviceinfo tpm on page 1495](#)
- [diagnose hardware getcbp on page 1495](#)
- [diagnose hardware ioport on page 1495](#)
- [diagnose hardware lspci on page 1495](#)
- [diagnose hardware mii on page 1495](#)
- [diagnose hardware setcbp on page 1496](#)
- [diagnose hardware setpci on page 1496](#)
- [diagnose hardware sysinfo on page 1496](#)
- [diagnose hardware sysinfo conserve on page 1496](#)
- [diagnose hardware sysinfo cpu on page 1496](#)
- [diagnose hardware sysinfo interrupts on page 1496](#)
- [diagnose hardware sysinfo iomem on page 1496](#)
- [diagnose hardware sysinfo ioports on page 1497](#)
- [diagnose hardware sysinfo memory on page 1497](#)
- [diagnose hardware sysinfo mtrr on page 1497](#)
- [diagnose hardware sysinfo slab on page 1497](#)

diagnose hardware certificate

Verify certificates.

```
diagnose hardware certificate
```

diagnose hardware deviceinfo

Get device information.

```
diagnose hardware deviceinfo
```

diagnose hardware deviceinfo disk

Display information of all disks.

```
diagnose hardware deviceinfo disk
```

diagnose hardware deviceinfo nic

Display NIC information.

```
diagnose hardware deviceinfo nic
```

diagnose hardware deviceinfo nic-channel

Display NIC channels.

```
diagnose hardware deviceinfo nic-channel
```

diagnose hardware deviceinfo nic-stats

Display NIC statistics.

```
diagnose hardware deviceinfo nic-stats
```

diagnose hardware deviceinfo tpm

Display information of TPM chip information.

```
diagnose hardware deviceinfo tpm
```

diagnose hardware getcbp

Get current CBP mode state.

```
diagnose hardware getcbp
```

diagnose hardware ioport

Read/write data via IO port.

```
diagnose hardware ioport
```

diagnose hardware lspci

List PCI parameters.

```
diagnose hardware lspci
```

diagnose hardware mii

Access mii registers.

```
diagnose hardware mii
```

diagnose hardware setcbp

Set CBP mode before CBP tests.

```
diagnose hardware setcbp
```

diagnose hardware setpci

Set PCI parameters.

```
diagnose hardware setpci
```

diagnose hardware sysinfo

Get system information.

```
diagnose hardware sysinfo
```

diagnose hardware sysinfo conserve

Display information about memory conservation status.

```
diagnose hardware sysinfo conserve
```

diagnose hardware sysinfo cpu

Display detailed information for all installed CPU(s).

```
diagnose hardware sysinfo cpu
```

diagnose hardware sysinfo interrupts

Display system interrupts information.

```
diagnose hardware sysinfo interrupts
```

diagnose hardware sysinfo iomem

Display memory map of I/O ports.

```
diagnose hardware sysinfo iomem
```

diagnose hardware sysinfo ioports

Display address list of I/O ports.

```
diagnose hardware sysinfo ioports
```

diagnose hardware sysinfo memory

Display system memory information.

```
diagnose hardware sysinfo memory
```

diagnose hardware sysinfo mtrr

Display memory type range register.

```
diagnose hardware sysinfo mtrr
```

diagnose hardware sysinfo slab

Display memory allocation information.

```
diagnose hardware sysinfo slab
```

diagnose http-view

HTTP/S traffic daemon

This topic includes the following commands:

- [diagnose http-view clear on page 1497](#)
- [diagnose http-view debug on page 1498](#)
- [diagnose http-view log-show on page 1498](#)
- [diagnose http-view restart on page 1498](#)
- [diagnose http-view stats on page 1498](#)

diagnose http-view clear

Restart daemon, reset statistics & remove all history

```
diagnose http-view clear
```

diagnose http-view debug

Set debug level for daemon

```
diagnose http-view debug <debug level>
```

Parameter	Description	Type	Size
<debug level>	Hexadecimal number	string	

diagnose http-view log-show

Show log of daemon

```
diagnose http-view log-show <log generation> <time format>
```

Parameter	Description	Type	Size
<log generation>	Log generation: default 0	string	
<time format>	Time format: 0 for human readable and 1 for raw, default 0	string	

diagnose http-view restart

Restart the daemon and reset statistics

```
diagnose http-view restart
```

diagnose http-view stats

Show statistics.

```
diagnose http-view stats
```

diagnose ip

ip

This topic includes the following commands:

- [diagnose ip address on page 1499](#)
- [diagnose ip address add on page 1499](#)
- [diagnose ip address delete on page 1499](#)
- [diagnose ip address list on page 1500](#)

- [diagnose ip arp on page 1500](#)
- [diagnose ip arp add on page 1500](#)
- [diagnose ip arp delete on page 1500](#)
- [diagnose ip arp list on page 1500](#)
- [diagnose ip parp on page 1501](#)
- [diagnose ip parp list on page 1501](#)
- [diagnose ip route on page 1501](#)
- [diagnose ip route add on page 1501](#)
- [diagnose ip route delete on page 1501](#)
- [diagnose ip route list on page 1501](#)
- [diagnose ip route match on page 1502](#)
- [diagnose ip route verify on page 1502](#)
- [diagnose ip tcp on page 1502](#)
- [diagnose ip tcp list on page 1502](#)
- [diagnose ip udp on page 1502](#)
- [diagnose ip udp list on page 1503](#)

diagnose ip address

IP addresses.

```
diagnose ip address
```

diagnose ip address add

Add IP address.

```
diagnose ip address add <intf-name> <XXX.XXX.XXX.XXX>
```

Parameter	Description	Type	Size
<intf-name>	Interface Name.	string	
<XXX.XXX.XXX.XXX>	IP address.	string	

diagnose ip address delete

Delete IP address.

```
diagnose ip address delete <intf-name> <XXX.XXX.XXX.XXX>
```

Parameter	Description	Type	Size
<intf-name>	Interface Name.	string	
<XXX.XXX.XXX.XXX>	IP address.	string	

diagnose ip address list

List IP addresses.

```
diagnose ip address list
```

diagnose ip arp

ARP table.

```
diagnose ip arp
```

diagnose ip arp add

Add an ARP entry.

```
diagnose ip arp add <intf-name> <XXX.XXX.XXX.XXX> <XX:XX:XX:XX:XX:XX>
```

Parameter	Description	Type	Size
<intf-name>	Interface Name.	string	
<XXX.XXX.XXX.XXX>	IP address.	string	
<XX:XX:XX:XX:XX:XX>	MAC address.	string	

diagnose ip arp delete

Delete an ARP entry.

```
diagnose ip arp delete <intf-name> <XXX.XXX.XXX.XXX>
```

Parameter	Description	Type	Size
<intf-name>	Interface Name.	string	
<XXX.XXX.XXX.XXX>	IP address.	string	

diagnose ip arp list

Show ARP table.

```
diagnose ip arp list
```


diagnose ip parp

Proxy-ARP table.

```
diagnose ip parp
```

diagnose ip parp list

Show Proxy-ARP table.

```
diagnose ip parp list
```

diagnose ip route

Routing table.

```
diagnose ip route
```

diagnose ip route add

Add static route.

```
diagnose ip route add <intf-name> <XXX.XXX.XXX.XXX>
```

Parameter	Description	Type	Size
<intf-name>	Interface Name.	string	
<XXX.XXX.XXX.XXX>	IP address.	string	

diagnose ip route delete

Delete static route.

```
diagnose ip route delete <intf-name> <XXX.XXX.XXX.XXX>
```

Parameter	Description	Type	Size
<intf-name>	Interface Name.	string	
<XXX.XXX.XXX.XXX>	IP address.	string	

diagnose ip route list

List routing table.

```
diagnose ip route list
```

diagnose ip route match

Match kernel route.

```
diagnose ip route match <XXX.XXX.XXX.XXX>
```

Parameter	Description	Type	Size
<XXX.XXX.XXX.XXX>	Destination address.	string	

diagnose ip route verify

Verify static route.

```
diagnose ip route verify <intf-name> <XXX.XXX.XXX.XXX>
```

Parameter	Description	Type	Size
<intf-name>	Interface Name.	string	
<XXX.XXX.XXX.XXX>	IP address.	string	

diagnose ip tcp

TCP sockets.

```
diagnose ip tcp
```

diagnose ip tcp list

List TCP sockets.

```
diagnose ip tcp list
```

diagnose ip udp

UDP sockets.

```
diagnose ip udp
```

diagnose ip udp list

List UDP sockets.

```
diagnose ip udp list
```

diagnose ip address

IP addresses.

This topic includes the following commands:

- [diagnose ip address add on page 1503](#)
- [diagnose ip address delete on page 1503](#)
- [diagnose ip address list on page 1503](#)

diagnose ip address add

Add IP address.

```
diagnose ip address add <intf-name> <XXX.XXX.XXX.XXX>
```

Parameter	Description	Type	Size
<intf-name>	Interface Name.	string	
<XXX.XXX.XXX.XXX>	IP address.	string	

diagnose ip address delete

Delete IP address.

```
diagnose ip address delete <intf-name> <XXX.XXX.XXX.XXX>
```

Parameter	Description	Type	Size
<intf-name>	Interface Name.	string	
<XXX.XXX.XXX.XXX>	IP address.	string	

diagnose ip address list

List IP addresses.

```
diagnose ip address list
```

diagnose ip arp

ARP table.

This topic includes the following commands:

- [diagnose ip arp add on page 1504](#)
- [diagnose ip arp delete on page 1504](#)
- [diagnose ip arp list on page 1504](#)

diagnose ip arp add

Add an ARP entry.

```
diagnose ip arp add <intf-name> <XXX.XXX.XXX.XXX> <XX:XX:XX:XX:XX:XX>
```

Parameter	Description	Type	Size
<intf-name>	Interface Name.	string	
<XXX.XXX.XXX.XXX>	IP address.	string	
<XX:XX:XX:XX:XX:XX>	MAC address.	string	

diagnose ip arp delete

Delete an ARP entry.

```
diagnose ip arp delete <intf-name> <XXX.XXX.XXX.XXX>
```

Parameter	Description	Type	Size
<intf-name>	Interface Name.	string	
<XXX.XXX.XXX.XXX>	IP address.	string	

diagnose ip arp list

Show ARP table.

```
diagnose ip arp list
```

diagnose ip parp

Proxy-ARP table.

This topic includes the following commands:

- [diagnose ip parp list on page 1505](#)

diagnose ip parp list

Show Proxy-ARP table.

```
diagnose ip parp list
```

diagnose ip route

Routing table.

This topic includes the following commands:

- [diagnose ip route add on page 1505](#)
- [diagnose ip route delete on page 1505](#)
- [diagnose ip route list on page 1506](#)
- [diagnose ip route match on page 1506](#)
- [diagnose ip route verify on page 1506](#)

diagnose ip route add

Add static route.

```
diagnose ip route add <intf-name> <XXX.XXX.XXX.XXX>
```

Parameter	Description	Type	Size
<intf-name>	Interface Name.	string	
<XXX.XXX.XXX.XXX>	IP address.	string	

diagnose ip route delete

Delete static route.

```
diagnose ip route delete <intf-name> <XXX.XXX.XXX.XXX>
```

Parameter	Description	Type	Size
<intf-name>	Interface Name.	string	
<XXX.XXX.XXX.XXX>	IP address.	string	

diagnose ip route list

List routing table.

```
diagnose ip route list
```

diagnose ip route match

Match kernel route.

```
diagnose ip route match <XXX.XXX.XXX.XXX>
```

Parameter	Description	Type	Size
<XXX.XXX.XXX.XXX>	Destination address.	string	

diagnose ip route verify

Verify static route.

```
diagnose ip route verify <intf-name> <XXX.XXX.XXX.XXX>
```

Parameter	Description	Type	Size
<intf-name>	Interface Name.	string	
<XXX.XXX.XXX.XXX>	IP address.	string	

diagnose ip tcp

TCP sockets.

This topic includes the following commands:

- [diagnose ip tcp list on page 1507](#)

diagnose ip tcp list

List TCP sockets.

```
diagnose ip tcp list
```

diagnose ip udp

UDP sockets.

This topic includes the following commands:

- [diagnose ip udp list on page 1507](#)

diagnose ip udp list

List UDP sockets.

```
diagnose ip udp list
```

diagnose ipsec

ipsec

This topic includes the following commands:

- [diagnose ipsec connect on page 1507](#)
- [diagnose ipsec list-conn on page 1508](#)
- [diagnose ipsec list-sa on page 1508](#)
- [diagnose ipsec p1-status on page 1508](#)
- [diagnose ipsec reload-ca on page 1508](#)
- [diagnose ipsec reload-ipsec on page 1508](#)

diagnose ipsec connect

connect sa

```
diagnose ipsec connect <phase1> <phase2>
```

Parameter	Description	Type	Size
<phase1>	phase1 name	string	
<phase2>	phase2 name	string	

diagnose ipsec list-conn

list ipsec conn

diagnose ipsec list-conn

diagnose ipsec list-sa

list ipsec sa

diagnose ipsec list-sa

diagnose ipsec p1-status

get phase1 tunnel status

diagnose ipsec p1-status

diagnose ipsec reload-ca

reload ipsec ca

diagnose ipsec reload-ca

diagnose ipsec reload-ipsec

reload ipsec

diagnose ipsec reload-ipsec

diagnose ipset

ipset

This topic includes the following commands:

- [diagnose ipset list on page 1508](#)

diagnose ipset list

list ipset entries

diagnose ipset list

diagnose iptables

iptables

This topic includes the following commands:

- [diagnose iptables dry-run on page 1509](#)
- [diagnose iptables list on page 1509](#)
- [diagnose iptables list6 on page 1509](#)
- [diagnose iptables refresh on page 1509](#)
- [diagnose iptables shaper on page 1509](#)
- [diagnose iptables shaper-stats on page 1510](#)

diagnose iptables dry-run

dump iptables rule

```
diagnose iptables dry-run
```

diagnose iptables list

list iptables

```
diagnose iptables list
```

diagnose iptables list6

list ip6tables

```
diagnose iptables list6
```

diagnose iptables refresh

refresh iptables

```
diagnose iptables refresh
```

diagnose iptables shaper

refresh shaper profile

```
diagnose iptables shaper
```

diagnose iptables shaper-stats

print shaper stats

```
diagnose iptables shaper-stats
```

diagnose ipv6

ipv6

This topic includes the following commands:

- [diagnose ipv6 address on page 1510](#)
- [diagnose ipv6 address add on page 1510](#)
- [diagnose ipv6 address delete on page 1511](#)
- [diagnose ipv6 address list on page 1511](#)
- [diagnose ipv6 devconf on page 1511](#)
- [diagnose ipv6 devconf accept-dad on page 1511](#)
- [diagnose ipv6 devconf disable_ipv6 on page 1511](#)
- [diagnose ipv6 neighbor-cache on page 1512](#)
- [diagnose ipv6 neighbor-cache add on page 1512](#)
- [diagnose ipv6 neighbor-cache delete on page 1512](#)
- [diagnose ipv6 neighbor-cache flush on page 1512](#)
- [diagnose ipv6 neighbor-cache list on page 1512](#)
- [diagnose ipv6 route on page 1513](#)
- [diagnose ipv6 route list on page 1513](#)

diagnose ipv6 address

IPv6 addresses.

```
diagnose ipv6 address
```

diagnose ipv6 address add

Add IPv6 address.

```
diagnose ipv6 address add <intf-name> <xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx/xxx>
```

Parameter	Description	Type	Size
<intf-name>	Interface Name.	string	
<xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx/xxx>	IPv6 prefix.	string	

diagnose ipv6 address delete

Delete IPv6 address.

```
diagnose ipv6 address delete <intf-name> <xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx/xxx>
```

Parameter	Description	Type	Size
<intf-name>	Interface Name.	string	
<xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx/xxx>	IPv6 prefix.	string	

diagnose ipv6 address list

List IPv6 addresses.

```
diagnose ipv6 address list
```

diagnose ipv6 devconf

IPv6 device config.

```
diagnose ipv6 devconf
```

diagnose ipv6 devconf accept-dad

IPv6 Duplicate Address Detection.

```
diagnose ipv6 devconf accept-dad <0, 1 or 2>
```

Parameter	Description	Type	Size
<0, 1 or 2>	0: disable DAD; 1: enable DAD; 2: enable DAD, and disable IPv6 operation if MAC-based duplicate link-local address has been found	string	

diagnose ipv6 devconf disable_ipv6

Disable/enable IPv6 operation.

```
diagnose ipv6 devconf disable_ipv6 <0 or 1>
```

Parameter	Description	Type	Size
<0 or 1>	0: enabling IPv6 operation; 1: disabling.	string	

diagnose ipv6 neighbor-cache

IPv6 neighbor-cache table.

```
diagnose ipv6 neighbor-cache
```

diagnose ipv6 neighbor-cache add

Add an IPv6 neighbor cache entry.

```
diagnose ipv6 neighbor-cache add <intf-name> <xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx>  
<XX:XX:XX:XX:XX:XX>
```

Parameter	Description	Type	Size
<intf-name>	Interface Name.	string	
<xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx>	IPv6 address.	string	
<XX:XX:XX:XX:XX:XX>	MAC address.	string	

diagnose ipv6 neighbor-cache delete

Delete an IPv6 neighbor cache entry.

```
diagnose ipv6 neighbor-cache delete <intf-name> <xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx>
```

Parameter	Description	Type	Size
<intf-name>	Interface Name.	string	
<xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx>	IPv6 address.	string	

diagnose ipv6 neighbor-cache flush

Flush IPv6 neighbor cache table.

```
diagnose ipv6 neighbor-cache flush <intf-name>
```

Parameter	Description	Type	Size
<intf-name>	Interface Name.	string	

diagnose ipv6 neighbor-cache list

Show IPv6 neighbor cache table.

```
diagnose ipv6 neighbor-cache list
```

diagnose ipv6 route

IPv6 routing table.

```
diagnose ipv6 route
```

diagnose ipv6 route list

List IPv6 routing table.

```
diagnose ipv6 route list
```

diagnose ipv6 address

IPv6 addresses.

This topic includes the following commands:

- [diagnose ipv6 address add on page 1513](#)
- [diagnose ipv6 address delete on page 1513](#)
- [diagnose ipv6 address list on page 1514](#)

diagnose ipv6 address add

Add IPv6 address.

```
diagnose ipv6 address add <intf-name> <xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx/xxx>
```

Parameter	Description	Type	Size
<intf-name>	Interface Name.	string	
<xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx/xxx>	IPv6 prefix.	string	

diagnose ipv6 address delete

Delete IPv6 address.

```
diagnose ipv6 address delete <intf-name> <xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx/xxx>
```

Parameter	Description	Type	Size
<intf-name>	Interface Name.	string	
<xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx/xxx>	IPv6 prefix.	string	

diagnose ipv6 address list

List IPv6 addresses.

```
diagnose ipv6 address list
```

diagnose ipv6 neighbor-cache

IPv6 neighbor-cache table.

This topic includes the following commands:

- [diagnose ipv6 neighbor-cache add on page 1514](#)
- [diagnose ipv6 neighbor-cache delete on page 1514](#)
- [diagnose ipv6 neighbor-cache flush on page 1515](#)
- [diagnose ipv6 neighbor-cache list on page 1515](#)

diagnose ipv6 neighbor-cache add

Add an IPv6 neighbor cache entry.

```
diagnose ipv6 neighbor-cache add <intf-name> <xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx>  
<XX:XX:XX:XX:XX:XX>
```

Parameter	Description	Type	Size
<intf-name>	Interface Name.	string	
<xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx>	IPv6 address.	string	
<XX:XX:XX:XX:XX:XX>	MAC address.	string	

diagnose ipv6 neighbor-cache delete

Delete an IPv6 neighbor cache entry.

```
diagnose ipv6 neighbor-cache delete <intf-name> <xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx>
```

Parameter	Description	Type	Size
<intf-name>	Interface Name.	string	
<xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx>	IPv6 address.	string	

diagnose ipv6 neighbor-cache flush

Flush IPv6 neighbor cache table.

```
diagnose ipv6 neighbor-cache flush <intf-name>
```

Parameter	Description	Type	Size
<intf-name>	Interface Name.	string	

diagnose ipv6 neighbor-cache list

Show IPv6 neighbor cache table.

```
diagnose ipv6 neighbor-cache list
```

diagnose ipv6 route

IPv6 routing table.

This topic includes the following commands:

- [diagnose ipv6 route list on page 1515](#)

diagnose ipv6 route list

List IPv6 routing table.

```
diagnose ipv6 route list
```

diagnose lldprx

Link Layer Description Protocol (LLDP) Receiver diagnostics.

This topic includes the following commands:

- [diagnose lldprx config on page 1516](#)
- [diagnose lldprx neighbor on page 1516](#)
- [diagnose lldprx neighbor clear on page 1516](#)
- [diagnose lldprx neighbor details on page 1516](#)
- [diagnose lldprx neighbor summary on page 1516](#)
- [diagnose lldprx port on page 1517](#)
- [diagnose lldprx port details on page 1517](#)

- [diagnose lldprx port neighbor on page 1517](#)
- [diagnose lldprx port neighbor clear on page 1517](#)
- [diagnose lldprx port neighbor details on page 1517](#)
- [diagnose lldprx port neighbor summary on page 1517](#)
- [diagnose lldprx port summary on page 1517](#)
- [diagnose lldprx restart on page 1518](#)
- [diagnose lldprx stats on page 1518](#)
- [diagnose lldprx stats config on page 1518](#)
- [diagnose lldprx stats crash on page 1518](#)
- [diagnose lldprx stats manager on page 1518](#)
- [diagnose lldprx stats scan on page 1518](#)

diagnose lldprx config

Display LLDPRX configuration.

```
diagnose lldprx config
```

diagnose lldprx neighbor

Display LLDP neighbors.

```
diagnose lldprx neighbor
```

diagnose lldprx neighbor clear

Clear the LLDP from all ports.

```
diagnose lldprx neighbor clear
```

diagnose lldprx neighbor details

Display details of each LLDP neighbor.

```
diagnose lldprx neighbor details
```

diagnose lldprx neighbor summary

Display summary of each LLDP neighbor.

```
diagnose lldprx neighbor summary
```


diagnose lldprx port

Display summary information about each port with LLDP reception enabled.

```
diagnose lldprx port
```

diagnose lldprx port details

Display details of the LLDP enabled ports.

```
diagnose lldprx port details
```

diagnose lldprx port neighbor

Display information about each LLDP neighbor for one or more ports.

```
diagnose lldprx port neighbor
```

diagnose lldprx port neighbor clear

Clear the LLDP neighbor information for one or more ports.

```
diagnose lldprx port neighbor clear
```

diagnose lldprx port neighbor details

Display details of each LLDP neighbor for one or more ports.

```
diagnose lldprx port neighbor details
```

diagnose lldprx port neighbor summary

Display summary of each LLDP neighbor for one or more ports.

```
diagnose lldprx port neighbor summary
```

diagnose lldprx port summary

Display summary of the LLDP enabled ports.

```
diagnose lldprx port summary
```

diagnose lldprx restart

Restart the LLDPRX process

```
diagnose lldprx restart
```

diagnose lldprx stats

Display LLDPRX statistics.

```
diagnose lldprx stats
```

diagnose lldprx stats config

Display LLDPRX statistics for the configuration handling process.

```
diagnose lldprx stats config
```

diagnose lldprx stats crash

Display LLDPRX statistics for the crash log generating process.

```
diagnose lldprx stats crash
```

diagnose lldprx stats manager

Display LLDPRX statistics for the manager process.

```
diagnose lldprx stats manager
```

diagnose lldprx stats scan

Display LLDPRX statistics for the scanning process.

```
diagnose lldprx stats scan
```

diagnose log

log

This topic includes the following commands:

- [diagnose log alertmail on page 1519](#)
- [diagnose log alertmail authcode on page 1519](#)
- [diagnose log alertmail test on page 1519](#)
- [diagnose log check-empty on page 1520](#)
- [diagnose log clear-kernel-stats on page 1520](#)
- [diagnose log dummy-log on page 1520](#)
- [diagnose log dummy-log fill on page 1520](#)
- [diagnose log dummy-log remove on page 1520](#)
- [diagnose log field-enum on page 1520](#)
- [diagnose log field-list on page 1520](#)
- [diagnose log kernel-stats on page 1521](#)
- [diagnose log severity on page 1521](#)
- [diagnose log show on page 1521](#)
- [diagnose log stress-test on page 1521](#)
- [diagnose log sub-category on page 1521](#)
- [diagnose log test on page 1521](#)
- [diagnose log test-text on page 1521](#)

diagnose log alertmail

alertmail

```
diagnose log alertmail
```

diagnose log alertmail authcode

Send a test authentication code.

```
diagnose log alertmail authcode <recipient>
```

Parameter	Description	Type	Size
<recipient>	recipient's email address	string	

diagnose log alertmail test

Send a test alert mail.

```
diagnose log alertmail test <level> <number>
```

Parameter	Description	Type	Size
<level>	Log level number.	string	
<number>	Number of messages.	string	

diagnose log check-empty

check-empty

```
diagnose log check-empty
```

diagnose log clear-kernel-stats

Clear logging statistics.

```
diagnose log clear-kernel-stats
```

diagnose log dummy-log

dummy-log

```
diagnose log dummy-log
```

diagnose log dummy-log fill

Fill up log disk with dummy logs.

```
diagnose log dummy-log fill
```

diagnose log dummy-log remove

Remove dummy logs from log disk.

```
diagnose log dummy-log remove
```

diagnose log field-enum

field-enum

```
diagnose log field-enum
```

diagnose log field-list

field-list

```
diagnose log field-list
```

diagnose log kernel-stats

Query logging statistics.

```
diagnose log kernel-stats
```

diagnose log severity

severity

```
diagnose log severity
```

diagnose log show

Display the contents of a log file.

```
diagnose log show
```

diagnose log stress-test

stress-test

```
diagnose log stress-test
```

diagnose log sub-category

sub-category

```
diagnose log sub-category
```

diagnose log test

Test miglog.

```
diagnose log test
```

diagnose log test-text

Test miglog.

```
diagnose log test-text
```

diagnose netlink

netlink

This topic includes the following commands:

- [diagnose netlink backlog on page 1522](#)
- [diagnose netlink backlog get on page 1522](#)
- [diagnose netlink backlog set on page 1523](#)
- [diagnose netlink brctl on page 1523](#)
- [diagnose netlink brctl forward-domain-status on page 1523](#)
- [diagnose netlink brctl interface-stats on page 1523](#)
- [diagnose netlink brctl list on page 1523](#)
- [diagnose netlink brctl name on page 1523](#)
- [diagnose netlink brctl vlan-filt-conf on page 1524](#)
- [diagnose netlink device on page 1524](#)
- [diagnose netlink device list on page 1524](#)
- [diagnose netlink interface on page 1524](#)
- [diagnose netlink interface clear on page 1524](#)
- [diagnose netlink interface list on page 1524](#)
- [diagnose netlink interface packet-rate on page 1524](#)
- [diagnose netlink interface speed-test on page 1525](#)
- [diagnose netlink interface speed-test-result on page 1525](#)
- [diagnose netlink interface speed-test-result-clear on page 1525](#)
- [diagnose netlink intf-class on page 1525](#)
- [diagnose netlink intf-class list on page 1525](#)
- [diagnose netlink intf-qdisc on page 1526](#)
- [diagnose netlink intf-qdisc list on page 1526](#)
- [diagnose netlink qlen on page 1526](#)
- [diagnose netlink qlen get on page 1526](#)
- [diagnose netlink qlen set on page 1526](#)

diagnose netlink backlog

UDP sockets.

```
diagnose netlink backlog
```

diagnose netlink backlog get

Show backlog.

```
diagnose netlink backlog get
```

diagnose netlink backlog set

Backlog.

```
diagnose netlink backlog set <backlog>
```

Parameter	Description	Type	Size
<backlog>	Backlog value.	string	

diagnose netlink brctl

bridge

```
diagnose netlink brctl
```

diagnose netlink brctl forward-domain-status

forward-domain-status

```
diagnose netlink brctl forward-domain-status
```

diagnose netlink brctl interface-stats

interface-stats

```
diagnose netlink brctl interface-stats
```

diagnose netlink brctl list

list

```
diagnose netlink brctl list
```

diagnose netlink brctl name

name

```
diagnose netlink brctl name <type> <name>
```

Parameter	Description	Type	Size
<type>	"host" or "port"	string	
<name>	name	string	

diagnose netlink brctl vlan-filt-conf

vlan-filt-conf

```
diagnose netlink brctl vlan-filt-conf
```

diagnose netlink device

devices

```
diagnose netlink device
```

diagnose netlink device list

List devices.

```
diagnose netlink device list
```

diagnose netlink interface

Network interfaces.

```
diagnose netlink interface
```

diagnose netlink interface clear

Clear interface counters.

```
diagnose netlink interface clear
```

diagnose netlink interface list

List interfaces.

```
diagnose netlink interface list
```

diagnose netlink interface packet-rate

Show send/receive rate of interfaces.

```
diagnose netlink interface packet-rate
```


diagnose netlink interface speed-test

Execute speed-test on the interface.

```
diagnose netlink interface speed-test <intf-name> <server> <mode> <dry-run>
```

Parameter	Description	Type	Size
<intf-name>	Interface Name.	string	
<server>	server name.	string	
<mode>	Optional. Auto(default), TCP or UDP.	string	
<dry-run>	Optional. <0> execute speed-test; <1> dry run to verify routing etc.	string	

diagnose netlink interface speed-test-result

Get speed-test result for a specific test ID.

```
diagnose netlink interface speed-test-result <test-id>
```

Parameter	Description	Type	Size
<test-id>	Test ID from executing speed-test.	string	

diagnose netlink interface speed-test-result-clear

Remove speed test results from disk.

```
diagnose netlink interface speed-test-result-clear
```

diagnose netlink intf-class

Network interface class.

```
diagnose netlink intf-class
```

diagnose netlink intf-class list

list

```
diagnose netlink intf-class list <string>
```

Parameter	Description	Type	Size
<string>	Interface name.	string	

diagnose netlink intf-qdisc

Network interface qdisc.

```
diagnose netlink intf-qdisc
```

diagnose netlink intf-qdisc list

list

```
diagnose netlink intf-qdisc list <string>
```

Parameter	Description	Type	Size
<string>	Interface name.	string	

diagnose netlink qlen

Interface queue length.

```
diagnose netlink qlen
```

diagnose netlink qlen get

Get queue length.

```
diagnose netlink qlen get <intf-name>
```

Parameter	Description	Type	Size
<intf-name>	Interface Name.	string	

diagnose netlink qlen set

Queue length.

```
diagnose netlink qlen set <intf-name> <len_integer>
```

Parameter	Description	Type	Size
<intf-name>	Interface Name.	string	
<len_integer>	Length value.	string	

diagnose nodejs

Node.JS web server diagnostics.

This topic includes the following commands:

- [diagnose nodejs health-check on page 1527](#)
- [diagnose nodejs health-check ping on page 1527](#)
- [diagnose nodejs logs on page 1527](#)
- [diagnose nodejs logs delete on page 1527](#)
- [diagnose nodejs logs list on page 1528](#)
- [diagnose nodejs logs show on page 1528](#)
- [diagnose nodejs logs show-all on page 1528](#)
- [diagnose nodejs performance on page 1528](#)
- [diagnose nodejs performance mass-ztna-event-logs on page 1528](#)
- [diagnose nodejs process on page 1529](#)
- [diagnose nodejs process restart on page 1529](#)

diagnose nodejs health-check

Node.JS health check commands.

```
diagnose nodejs health-check
```

diagnose nodejs health-check ping

Send HTTP request to Node.JS, and check if Node.JS can handle HTTP request.

```
diagnose nodejs health-check ping
```

diagnose nodejs logs

Show/List Node.JS debug log.

```
diagnose nodejs logs
```

diagnose nodejs logs delete

Delete one of the Node.JS debug log files. Use log sequence number as an argument.

```
diagnose nodejs logs delete <log sequence number>
```

Parameter	Description	Type	Size
<log sequence number>	Log sequence number.	string	

diagnose nodejs logs list

List all of the Node.JS debug log files.

```
diagnose nodejs logs list
```

diagnose nodejs logs show

Show one of the Node.JS debug logs files. Use log sequence number as an argument.

```
diagnose nodejs logs show <log sequence number>
```

Parameter	Description	Type	Size
<log sequence number>	Log sequence number.	string	

diagnose nodejs logs show-all

Show all of the Node.JS debug log files.

```
diagnose nodejs logs show-all
```

diagnose nodejs performance

Performance testing for Node.js.

```
diagnose nodejs performance
```

diagnose nodejs performance mass-ztna-event-logs

Generate thousands of ZTNA tag update events.

```
diagnose nodejs performance mass-ztna-event-logs <count>
```

Parameter	Description	Type	Size
<count>	Number of events to generate.	string	

diagnose nodejs process

Actions to Node.JS process.

```
diagnose nodejs process
```

diagnose nodejs process restart

Send SIGKILL and restart Node.JS.

```
diagnose nodejs process restart
```

diagnose oci

Oracle Cloud Infrastructure platform diagnose commands.

This topic includes the following commands:

- [diagnose oci pubkey on page 1529](#)

diagnose oci pubkey

Display OCI public key information.

```
diagnose oci pubkey <name>
```

Parameter	Description	Type	Size
<name>	OCI SDN connector name	string	

diagnose on-demand-sniffer

On-demand sniffer command.

This topic includes the following commands:

- [diagnose on-demand-sniffer delete-results on page 1530](#)
- [diagnose on-demand-sniffer list on page 1530](#)
- [diagnose on-demand-sniffer start on page 1530](#)
- [diagnose on-demand-sniffer stop on page 1530](#)

diagnose on-demand-sniffer delete-results

Delete files associated with an on-demand sniffer. Does not delete the config entry.

```
diagnose on-demand-sniffer delete-results <mkey/name>
```

Parameter	Description	Type	Size
<mkey/name>	Mkey/name of on-demand sniffer.	string	

diagnose on-demand-sniffer list

List on-demand sniffers and its info.

```
diagnose on-demand-sniffer list <mkey/name>
```

Parameter	Description	Type	Size
<mkey/name>	Mkey/name of on-demand sniffer.	string	

diagnose on-demand-sniffer start

Start an on-demand sniffer.

```
diagnose on-demand-sniffer start <mkey/name>
```

Parameter	Description	Type	Size
<mkey/name>	Mkey/name of on-demand sniffer.	string	

diagnose on-demand-sniffer stop

Stop an on-demand sniffer.

```
diagnose on-demand-sniffer stop <mkey/name>
```

Parameter	Description	Type	Size
<mkey/name>	Mkey/name of on-demand sniffer.	string	

diagnose preload

HTTP preload daemon

This topic includes the following commands:

- [diagnose preload clear on page 1531](#)
- [diagnose preload debug on page 1531](#)
- [diagnose preload log-show on page 1531](#)
- [diagnose preload restart on page 1531](#)
- [diagnose preload stats on page 1531](#)

diagnose preload clear

Restart daemon, reset statistics & remove scheduled tasks

```
diagnose preload clear
```

diagnose preload debug

Set debug level for daemon

```
diagnose preload debug <debug level>
```

Parameter	Description	Type	Size
<debug level>	Hexadecimal number	string	

diagnose preload log-show

Show log of daemon

```
diagnose preload log-show <log generation> <time format>
```

Parameter	Description	Type	Size
<log generation>	Log generation: default 0	string	
<time format>	Time format: 0 for human readable and 1 for raw, default 0	string	

diagnose preload restart

Restart the daemon and reset statistics

```
diagnose preload restart
```

diagnose preload stats

Show statistics.

`diagnose preload stats`

diagnose report

report

This topic includes the following commands:

- [diagnose report clear-filter on page 1532](#)
- [diagnose report dataset on page 1532](#)
- [diagnose report filter on page 1532](#)
- [diagnose report min-points on page 1532](#)
- [diagnose report ondemand-table on page 1533](#)
- [diagnose report sql on page 1533](#)
- [diagnose report time on page 1533](#)
- [diagnose report top-n on page 1533](#)

diagnose report clear-filter

clear-filter

`diagnose report clear-filter`

diagnose report dataset

dataset

`diagnose report dataset`

diagnose report filter

filter

`diagnose report filter`

diagnose report min-points

min-points

`diagnose report min-points`

diagnose report ondemand-table

ondemand-table

```
diagnose report ondemand-table
```

diagnose report sql

sql

```
diagnose report sql
```

diagnose report time

time

```
diagnose report time
```

diagnose report top-n

top-n

```
diagnose report top-n
```

diagnose report-runner

Report Runner service.

This topic includes the following commands:

- [diagnose report-runner clean on page 1533](#)
- [diagnose report-runner trigger on page 1534](#)
- [diagnose report-runner trigger security-rating-reports on page 1534](#)
- [diagnose report-runner vuln-clean on page 1534](#)
- [diagnose report-runner vuln-read on page 1534](#)

diagnose report-runner clean

Delete all Report Runner results.

```
diagnose report-runner clean
```

diagnose report-runner trigger

Execute a report.

```
diagnose report-runner trigger
```

diagnose report-runner trigger security-rating-reports

Execute the Security Rating reports (Security Posture, Fabric Coverage, Optimization).

```
diagnose report-runner trigger security-rating-reports
```

diagnose report-runner vuln-clean

Delete critical vulnerability results.

```
diagnose report-runner vuln-clean
```

diagnose report-runner vuln-read

View critical vulnerability results.

```
diagnose report-runner vuln-read
```

diagnose report-runner-v2

Report Runner v2 service.

This topic includes the following commands:

- [diagnose report-runner-v2 security-rating on page 1534](#)
- [diagnose report-runner-v2 security-rating clean on page 1535](#)
- [diagnose report-runner-v2 security-rating reset-trigger on page 1535](#)

diagnose report-runner-v2 security-rating

Security Rating.

```
diagnose report-runner-v2 security-rating
```

diagnose report-runner-v2 security-rating clean

Delete all Security Rating v2 results.

```
diagnose report-runner-v2 security-rating clean
```

diagnose report-runner-v2 security-rating reset-trigger

Reset the automatic trigger timeout.

```
diagnose report-runner-v2 security-rating reset-trigger
```

diagnose saas

SaaS diagnose commands.

This topic includes the following commands:

- [diagnose saas reload on page 1535](#)
- [diagnose saas show on page 1535](#)
- [diagnose saas show apps on page 1535](#)
- [diagnose saas show details on page 1536](#)
- [diagnose saas show status on page 1536](#)

diagnose saas reload

Reload SaaS database.

```
diagnose saas reload
```

diagnose saas show

Show SaaS database.

```
diagnose saas show
```

diagnose saas show apps

Show SaaS database application list.

```
diagnose saas show apps
```

diagnose saas show details

Show SaaS database details.

```
diagnose saas show details
```

diagnose saas show status

Show SaaS database status.

```
diagnose saas show status
```

diagnose settings

settings

This topic includes the following commands:

- [diagnose settings info on page 1536](#)
- [diagnose settings reset on page 1536](#)

diagnose settings info

Show all diagnose settings.

```
diagnose settings info
```

diagnose settings reset

Reset all diagnose settings.

```
diagnose settings reset
```

diagnose sniffer

Sniffer command.

This topic includes the following commands:

- [diagnose sniffer migsock on page 1537](#)
- [diagnose sniffer migsock debug-trace on page 1537](#)
- [diagnose sniffer migsock debug-trace disable on page 1537](#)

- [diagnose sniffer migsock debug-trace enable on page 1537](#)
- [diagnose sniffer migsock filter on page 1537](#)
- [diagnose sniffer migsock ssl-trace on page 1538](#)
- [diagnose sniffer migsock ssl-trace disable on page 1538](#)
- [diagnose sniffer migsock ssl-trace enable on page 1538](#)
- [diagnose sniffer migsock start on page 1538](#)
- [diagnose sniffer migsock timestamp on page 1538](#)
- [diagnose sniffer migsock timestamp disable on page 1538](#)
- [diagnose sniffer migsock timestamp enable on page 1538](#)
- [diagnose sniffer packet on page 1539](#)

diagnose sniffer migsock

Sniff migsock packets.

```
diagnose sniffer migsock
```

diagnose sniffer migsock debug-trace

Enable/disable debug trace.

```
diagnose sniffer migsock debug-trace
```

diagnose sniffer migsock debug-trace disable

Disable debug trace.

```
diagnose sniffer migsock debug-trace disable
```

diagnose sniffer migsock debug-trace enable

Enable debug trace.

```
diagnose sniffer migsock debug-trace enable
```

diagnose sniffer migsock filter

Filter flow.

```
diagnose sniffer migsock filter
```

diagnose sniffer migsock ssl-trace

Enable/disable SSL trace.

```
diagnose sniffer migsock ssl-trace
```

diagnose sniffer migsock ssl-trace disable

Disable SSL trace.

```
diagnose sniffer migsock ssl-trace disable
```

diagnose sniffer migsock ssl-trace enable

Enable SSL trace.

```
diagnose sniffer migsock ssl-trace enable
```

diagnose sniffer migsock start

Start sniffer.

```
diagnose sniffer migsock start
```

diagnose sniffer migsock timestamp

Enable/disable timestamp trace.

```
diagnose sniffer migsock timestamp
```

diagnose sniffer migsock timestamp disable

Disable timestamp trace.

```
diagnose sniffer migsock timestamp disable
```

diagnose sniffer migsock timestamp enable

Enable timestamp trace.

```
diagnose sniffer migsock timestamp enable
```

diagnose sniffer packet

Sniff packets.

```
diagnose sniffer packet <interface> <filter> <verbose> <count> <tsformat> <frame size>
<hostnames>
```

Parameter	Description	Type	Size
<interface>	Network interfaces to sniff (or "any").	string	
<filter>	Flexible logical filters for sniffer (or "none"). For example: To print UDP 1812 traffic between forti1 and either forti2 or forti3 'udp and port 1812 and host forti1 and (forti2 or forti3)'	string	
<verbose>	1: print header of packets 2: print header and data from ip of packets 3: print header and data from ethernet of packets (if available) 4: print header of packets with interface name 5: print header and data from ip of packets with interface name 6: print header and data from ethernet of packets (if available) with intf name	string	
<count>	Sniffer count.	string	
<tsformat>	Format of timestamp. a: absolute UTC time, yyyy-mm-dd hh:mm:ss.ms l: absolute LOCAL time, yyyy-mm-dd hh:mm:ss.ms otherwise: relative to the start of sniffing, ss.ms	string	
<frame size>	Set the frame size that is printed before truncation. Defaults to the interface MTU.	string	
<hostnames>	Hostnames to filter sniffed packets with.	string	

diagnose snmp

snmp

This topic includes the following commands:

- [diagnose snmp ip on page 1540](#)
- [diagnose snmp ip frags on page 1540](#)
- [diagnose snmp ip icmp on page 1540](#)
- [diagnose snmp ip tcp on page 1540](#)
- [diagnose snmp ip udp on page 1540](#)
- [diagnose snmp ip6 on page 1541](#)
- [diagnose snmp ip6 frags on page 1541](#)
- [diagnose snmp ip6 icmp6 on page 1541](#)
- [diagnose snmp ip6 udp6 on page 1541](#)
- [diagnose snmp net on page 1541](#)
- [diagnose snmp net stat on page 1541](#)

- [diagnose snmp trap on page 1542](#)
- [diagnose snmp trap send on page 1542](#)

diagnose snmp ip

Some IP stats.

```
diagnose snmp ip
```

diagnose snmp ip frags

Fragmentation and reassembly info.

```
diagnose snmp ip frags <rate>
```

Parameter	Description	Type	Size
<rate>	Fragmentation and reassembly info per second	string	

diagnose snmp ip icmp

ICMP related statistics info.

```
diagnose snmp ip icmp <rate>
```

Parameter	Description	Type	Size
<rate>	ICMP related statistics per second	string	

diagnose snmp ip tcp

TCP related statistics info.

```
diagnose snmp ip tcp
```

diagnose snmp ip udp

UDP related statistics info.

```
diagnose snmp ip udp <rate>
```

Parameter	Description	Type	Size
<rate>	UDP related statistics per second	string	

diagnose snmp ip6

Some IPv6 stats.

```
diagnose snmp ip6
```

diagnose snmp ip6 frags

Fragmentation and reassembly info.

```
diagnose snmp ip6 frags <rate>
```

Parameter	Description	Type	Size
<rate>	Fragmentation and reassembly info per second	string	

diagnose snmp ip6 icmp6

ICMP related statistics info.

```
diagnose snmp ip6 icmp6 <rate>
```

Parameter	Description	Type	Size
<rate>	ICMP related statistics per second	string	

diagnose snmp ip6 udp6

UDP related statistics info.

```
diagnose snmp ip6 udp6 <rate>
```

Parameter	Description	Type	Size
<rate>	UDP related statistics per second	string	

diagnose snmp net

Some network statistics.

```
diagnose snmp net
```

diagnose snmp net stat

Network statistics.

`diagnose snmp net stat`

diagnose snmp trap

SNMP trap diagnostics.

`diagnose snmp trap`

diagnose snmp trap send

Generate a trap event.

`diagnose snmp trap send`

diagnose sys

system

This topic includes the following commands:

- [diagnose sys botnet-domain on page 1553](#)
- [diagnose sys botnet-domain hit on page 1553](#)
- [diagnose sys botnet-domain list on page 1553](#)
- [diagnose sys botnet-ip on page 1553](#)
- [diagnose sys botnet-ip find on page 1553](#)
- [diagnose sys botnet-ip flush on page 1554](#)
- [diagnose sys botnet-ip hit on page 1554](#)
- [diagnose sys botnet-ip list on page 1554](#)
- [diagnose sys cmdb on page 1554](#)
- [diagnose sys cmdb check-lock on page 1554](#)
- [diagnose sys cmdb dump on page 1554](#)
- [diagnose sys cmdb dump vdom on page 1555](#)
- [diagnose sys cmdb flag on page 1555](#)
- [diagnose sys cmdb flag info on page 1555](#)
- [diagnose sys cmdb flag reset on page 1555](#)
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- [diagnose sys cmdb set-readlock on page 1556](#)
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- [diagnose sys cmdb-profile on page 1557](#)
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- [diagnose sys csf downstream on page 1562](#)
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diagnose sys botnet-domain

Botnet domain diagnostics.

```
diagnose sys botnet-domain
```

diagnose sys botnet-domain hit

Botnet domain hits.

```
diagnose sys botnet-domain hit
```

diagnose sys botnet-domain list

List botnet domain entry.

```
diagnose sys botnet-domain list
```

diagnose sys botnet-ip

Botnet IP diagnostics.

```
diagnose sys botnet-ip
```

diagnose sys botnet-ip find

Find botnet IP entry.

```
diagnose sys botnet-ip find <ip> <port> <proto>
```

Parameter	Description	Type	Size
<ip>	IP address.	string	
<port>	Port number.	string	
<proto>	Protocol number.	string	

diagnose sys botnet-ip flush

Flush botnet IP entry hit count data.

```
diagnose sys botnet-ip flush
```

diagnose sys botnet-ip hit

Show botnet IP entry hit count data.

```
diagnose sys botnet-ip hit
```

diagnose sys botnet-ip list

List botnet IP entry.

```
diagnose sys botnet-ip list <offset> <number>
```

Parameter	Description	Type	Size
<offset>	Botnet IP entry offset.	string	
<number>	The number of botnet IP entries to display.	string	

diagnose sys cmdb

CMDB related information.

```
diagnose sys cmdb
```

diagnose sys cmdb check-lock

Check CMDB lock.

```
diagnose sys cmdb check-lock
```

diagnose sys cmdb dump

Dump cmdb internal data.

```
diagnose sys cmdb dump
```

diagnose sys cmdb dump vdom

Dump vdom data.

```
diagnose sys cmdb dump vdom <global/vdom-name>
```

Parameter	Description	Type	Size
<global/vdom-name>	Dump global or vdom-name data details.	string	

diagnose sys cmdb flag

CMDB related flags.

```
diagnose sys cmdb flag
```

diagnose sys cmdb flag info

CMDB related flags information.

```
diagnose sys cmdb flag info
```

diagnose sys cmdb flag reset

Reset CMDB related flags.

```
diagnose sys cmdb flag reset
```

diagnose sys cmdb flag reset script-running

Reset CMDB script-running flag.

```
diagnose sys cmdb flag reset script-running
```

diagnose sys cmdb info

CMDB information.

```
diagnose sys cmdb info
```

diagnose sys cmdb obj-verno

Display object version#.

```
diagnose sys cmdb obj-verno <global|vdom-name> <obj-path> <obj-name>
```

Parameter	Description	Type	Size
<global vdom-name>	global or vdom-name.	string	
<obj-path>	object path.	string	
<obj-name>	object name.	string	

diagnose sys cmdb refcnt

Datasource reference count.

```
diagnose sys cmdb refcnt
```

diagnose sys cmdb refcnt reset

Reset reference count to be consistent with real reference.

```
diagnose sys cmdb refcnt reset <path.object.mkey> <tablename>
```

Parameter	Description	Type	Size
<path.object.mkey>	Table.	string	
<tablename>	Entry.	string	

diagnose sys cmdb refcnt show

Show datasource reference details.

```
diagnose sys cmdb refcnt show <path.object.mkey> <tablename>
```

Parameter	Description	Type	Size
<path.object.mkey>	Table.	string	
<tablename>	Entry.	string	

diagnose sys cmdb set-readlock

Set CMDB read lock.

```
diagnose sys cmdb set-readlock
```


diagnose sys cmdb unset-readlock

Unset CMDB read lock.

```
diagnose sys cmdb unset-readlock
```

diagnose sys cmdb-profile

Get CMDB profile information.

```
diagnose sys cmdb-profile
```

diagnose sys cmdb-profile info

Get CMDB profile shm info.

```
diagnose sys cmdb-profile info
```

diagnose sys cmdb-profile node

Get CMDB profile by node.

```
diagnose sys cmdb-profile node <path.object[.attribute]>
```

Parameter	Description	Type	Size
<path.object [.attribute]>	Path to object/attribute.	string	

diagnose sys cmdb-profile reset

Reset CMDB profile shm info.

```
diagnose sys cmdb-profile reset
```

diagnose sys cmdb-profile top10

sort nodes by operator's time

```
diagnose sys cmdb-profile top10
```

diagnose sys cmdb-profile top10 average

sort nodes by operator's average time

```
diagnose sys cmdb-profile top10 average [n]
```

Parameter	Description	Type	Size
[n]	get n nodes' profile (optional, default is 10)	string	

diagnose sys cmdb-profile top10 total

sort nodes by operator's total time

```
diagnose sys cmdb-profile top10 total [n]
```

Parameter	Description	Type	Size
[n]	get n nodes' profile (optional, default is 10)	string	

diagnose sys config-transaction

Config transaction related information.

```
diagnose sys config-transaction
```

diagnose sys config-transaction show

Show config transaction information.

```
diagnose sys config-transaction show
```

diagnose sys config-transaction show entity-by-txn

Show configuration objects being configured by individual transactions.

```
diagnose sys config-transaction show entity-by-txn <txn-id>
```

Parameter	Description	Type	Size
<txn-id>	Transaction ID.	string	

diagnose sys config-transaction show mctx

Show mctx.

```
diagnose sys config-transaction show mctx
```

diagnose sys config-transaction show txn-cli-commands

Show CLI commands used in a given transaction.

```
diagnose sys config-transaction show txn-cli-commands <txn-id>
```

Parameter	Description	Type	Size
<txn-id>	Transaction ID.	string	

diagnose sys config-transaction show txn-entity

Show configuration objects being configured in transactions.

```
diagnose sys config-transaction show txn-entity
```

diagnose sys config-transaction show txn-info

Show config transaction details.

```
diagnose sys config-transaction show txn-info
```

diagnose sys config-transaction show txn-lock

Show transaction lock status.

```
diagnose sys config-transaction show txn-lock
```

diagnose sys config-transaction show txn-meta

Show config transaction meta information.

```
diagnose sys config-transaction show txn-meta
```

diagnose sys config-transaction status

Show config transaction status in current CLI.

```
diagnose sys config-transaction status
```

diagnose sys conntrack

conntrack diagnostics.

```
diagnose sys conntrack
```

diagnose sys conntrack clear

Clear all conntrack.

```
diagnose sys conntrack clear
```

diagnose sys conntrack count

Show number of conntrack.

```
diagnose sys conntrack count
```

diagnose sys conntrack list-dying4

List IPv4 dying conntrack.

```
diagnose sys conntrack list-dying4
```

diagnose sys conntrack list-dying6

List IPv6 dying conntrack.

```
diagnose sys conntrack list-dying6
```

diagnose sys conntrack list-unconfirmed4

List IPv4 unconfirmed conntrack.

```
diagnose sys conntrack list-unconfirmed4
```

diagnose sys conntrack list-unconfirmed6

List IPv6 unconfirmed conntrack.

```
diagnose sys conntrack list-unconfirmed6
```

diagnose sys conntrack list4

List IPv4 conntrack.

```
diagnose sys conntrack list4
```

diagnose sys conntrack list6

List IPv6 conntrack.

```
diagnose sys conntrack list6
```

diagnose sys conntrack stats

Show conntrack statistics.

```
diagnose sys conntrack stats
```

diagnose sys csf

Security Fabric diagnostics.

```
diagnose sys csf
```

diagnose sys csf authorization

Authorization requests and permits.

```
diagnose sys csf authorization
```

diagnose sys csf authorization accept

Authorize device to join CSF tree.

```
diagnose sys csf authorization accept <SN> [Name]
```

Parameter	Description	Type	Size
<SN>	Serial number.	string	
[Name]	Optional entry name (if not passed SN is used).	string	

diagnose sys csf authorization deny

Deny device from joining CSF tree.

```
diagnose sys csf authorization deny <SN> [Name]
```

Parameter	Description	Type	Size
<SN>	Serial number.	string	
[Name]	Optional entry name (if not passed SN is used).	string	

diagnose sys csf authorization pending-list

List of pending requests to join security fabric.

```
diagnose sys csf authorization pending-list
```

diagnose sys csf downstream

Show connected downstream FortiProxies.

```
diagnose sys csf downstream [-x] [-a]
```

Parameter	Description	Type	Size
[-x]	Show encrypted tokens	string	
[-a]	Show all devices	string	

diagnose sys csf downstream-devices

Show downstream fabric device.

```
diagnose sys csf downstream-devices <device type> [vdom] [group]
```

Parameter	Description	Type	Size
<device type>	fabric device type (e.g. fortinac, fortimail, fortivoice, any).	string	
[vdom]	Connecting VDOM.	string	
[group]	CSF key group.	string	

diagnose sys csf dynamic-sync-read

Read incoming dynamic sync data updates

```
diagnose sys csf dynamic-sync-read <count>
```

Parameter	Description	Type	Size
<count>	Number of updates to read	string	

diagnose sys csf dynamic-sync-request

Get the current dynamic sync data from csfd

```
diagnose sys csf dynamic-sync-request
```

diagnose sys csf dynamic-sync-update

Change the dynamic sync update data

```
diagnose sys csf dynamic-sync-update <content>
```

Parameter	Description	Type	Size
<content>	New data content string	string	

diagnose sys csf fabric-device

Debug fabric device handling.

```
diagnose sys csf fabric-device
```

diagnose sys csf fabric-device list

List all known fabric devices.

```
diagnose sys csf fabric-device list
```

diagnose sys csf file

csfd file management.

```
diagnose sys csf file
```

diagnose sys csf file cat

Dump file.

```
diagnose sys csf file cat <name>
```

Parameter	Description	Type	Size
<name>	Name of the file to be dumped.	string	

diagnose sys csf file top-mem

Display largest files.

```
diagnose sys csf file top-mem [count]
```

Parameter	Description	Type	Size
[count]	Number of files to be displayed ([1 - 20] default = 5).	string	

diagnose sys csf forticloud-id-list

List of FortiCloud IDs of downstreams.

```
diagnose sys csf forticloud-id-list
```

diagnose sys csf get-bulk-global-view

Request global view file

```
diagnose sys csf get-bulk-global-view [refresh seconds]
```

Parameter	Description	Type	Size
[refresh seconds]	Acceptable age for cached global file in seconds.	string	

diagnose sys csf global

Show a summary of all connected members in Security Fabric.

```
diagnose sys csf global
```

diagnose sys csf initialize-cmd

send an init command for merge.

```
diagnose sys csf initialize-cmd <path> <cmdb_path> <cmdb_table>
```


Parameter	Description	Type	Size
<path>	fabric path made of serial numbers e.g: SNCURRENT:SNMIDDLE:SNDESTINATION.	string	
<cmdb_path>	path for cmdb table	string	
<cmdb_table>	cmdb table name	string	

diagnose sys csf license

Show a summary of FPX license sharing in the cluster.

```
diagnose sys csf license
```

diagnose sys csf merge-cmd

send a merge command to downstream.

```
diagnose sys csf merge-cmd <path> <cmdb_path> <cmdb_table> <key> <new_key>
```

Parameter	Description	Type	Size
<path>	fabric path made of serial numbers e.g: SNCURRENT:SNMIDDLE:SNDESTINATION.	string	
<cmdb_path>	path for cmdb table	string	
<cmdb_table>	cmdb table name	string	
<key>	current entry name	string	
<new_key>	new entry name	string	

diagnose sys csf neighbor

CSF enabled devices in adjacency.

```
diagnose sys csf neighbor
```

diagnose sys csf neighbor flush

Clear discovered physical addresses of adjacent devices.

```
diagnose sys csf neighbor flush [interface]
```

Parameter	Description	Type	Size
[interface]	Receiving local interface name.	string	

diagnose sys csf neighbor list

List discovered physical addresses of adjacent devices.

```
diagnose sys csf neighbor list [interface]
```

Parameter	Description	Type	Size
[interface]	Receiving local interface name.	string	

diagnose sys csf query

Query through CSF.

```
diagnose sys csf query <path> [-p]
```

Parameter	Description	Type	Size
<path>	FGT1(SN):FGT2(SN):...:FGTn(SN)	string	
[-p]	partial process.	string	

diagnose sys csf ratelimit-test-sender

Floods a socket tunnel to test rate limit behaviour.

```
diagnose sys csf ratelimit-test-sender <serial>
```

Parameter	Description	Type	Size
<serial>	Serial number of destination FortiGate.	string	

diagnose sys csf ratelimit-test-server

A dummy server for the unix tunnel rate limit testing to work against.

```
diagnose sys csf ratelimit-test-server <close-delay-seconds>
```

Parameter	Description	Type	Size
<close-delay-seconds>	Seconds to keep the client socket open after accepting it.	string	

diagnose sys csf send-test-log-upstream

Send a test log to upstream

```
diagnose sys csf send-test-log-upstream
```

diagnose sys csf seqpacket-message-listener

Read a line over a tunneled seqpacket socket.

```
diagnose sys csf seqpacket-message-listener <all|root|upstream|downstream>
```

Parameter	Description	Type	Size
<all root upstream downstream>	Client FortiGates to allow.	string	

diagnose sys csf seqpacket-message-sender

Read a line over a tunneled seqpacket socket.

```
diagnose sys csf seqpacket-message-sender <serial> <all|root|upstream|downstream>
```

Parameter	Description	Type	Size
<serial>	Serial number of destination FortiGate.	string	
<all root upstream downstream>	Allow mode of the destination.	string	

diagnose sys csf stream-message-listener

Read a line over a tunneled stream socket

```
diagnose sys csf stream-message-listener <all|root|upstream|downstream>
```

Parameter	Description	Type	Size
<all root upstream downstream>	Client FortiGates to allow.	string	

diagnose sys csf stream-message-sender

Read a line over a tunneled stream socket.

```
diagnose sys csf stream-message-sender <serial> <all|root|upstream|downstream>
```

Parameter	Description	Type	Size
<serial>	Serial number of destination FortiGate.	string	
<all root upstream downstream>	Allow mode of the destination.	string	

diagnose sys csf tunnel-test-listener

Test the reliable tunnel, listener side

```
diagnose sys csf tunnel-test-listener
```

diagnose sys csf tunnel-test-sender

Test the reliable tunnel, sender side

```
diagnose sys csf tunnel-test-sender <target-sn> <msg-content> <repeats>
```

Parameter	Description	Type	Size
<target-sn>	SN to send the message to	string	
<msg-content>	Content of the message	string	
<repeats>	Number of times to repeat the message	string	

diagnose sys csf upstream

Show connected upstream FortiProxies.

```
diagnose sys csf upstream
```

diagnose sys csf versions

get latest incremental version of CSF groups.

```
diagnose sys csf versions
```

diagnose sys dayst-info

Daylight saving time information.

```
diagnose sys dayst-info <timezone db name> [year]
```

Parameter	Description	Type	Size
<timezone db name>	Timezone Database Name.	string	
[year]	year	string	

diagnose sys device

Virtual domain device management.

```
diagnose sys device
```

diagnose sys device add

Add device to Virtual Domain.

```
diagnose sys device add <vdname> <devname>
```

Parameter	Description	Type	Size
<vdname>	Virtual Domain Name.	string	
<devname>	Device Name.	string	

diagnose sys device delete

Delete device from Virtual Domain.

```
diagnose sys device delete <vdname> <devname>
```

Parameter	Description	Type	Size
<vdname>	Virtual Domain Name.	string	
<devname>	Device Name.	string	

diagnose sys device list

List devices in Virtual Domain.

```
diagnose sys device list <vdname>
```

Parameter	Description	Type	Size
<vdname>	Virtual Domain Name.	string	

diagnose sys external-resource

External resource.

```
diagnose sys external-resource
```

diagnose sys external-resource list

Dump external resource file by name.

```
diagnose sys external-resource list <name>
```

Parameter	Description	Type	Size
<name>	Name of external resource.	string	

diagnose sys external-resource push-add

Add entry to external resource set to push updates.

```
diagnose sys external-resource push-add
```

diagnose sys external-resource push-api-json-commands

Test push commands JSON API

```
diagnose sys external-resource push-api-json-commands <COMMANDS-JSON>
```

Parameter	Description	Type	Size
<COMMANDS-JSON>	JSON string for commands.	string	

diagnose sys external-resource push-remove

Remove entry to push external resource set to push updates.

```
diagnose sys external-resource push-remove
```

diagnose sys external-resource push-snapshot

Overwrite external resource set to push updates.

```
diagnose sys external-resource push-snapshot
```

diagnose sys external-resource stats

Display external resource file info.

```
diagnose sys external-resource stats <name>
```

Parameter	Description	Type	Size
<name>	Name of external resource.	string	

diagnose sys fips

FIPS mode.

```
diagnose sys fips
```

diagnose sys fips error-mode

Go to error mode.

```
diagnose sys fips error-mode
```

diagnose sys fips kat-error

Force test failure at next self-test.

```
diagnose sys fips kat-error <KAT>
```

Parameter	Description	Type	Size
<KAT>	KAT, empty to display available values.	string	

diagnose sys forticonverter

FortiConverter config conversion service diagnostics.

```
diagnose sys forticonverter set-prompt-visibility
```

Parameter	Description	Type	Size
set-prompt-visibility	Set the visibility for the FortiConverter wizard on login.	option	

diagnose sys forticonverter available-source-devices

Retrieve known source device options for a ticket.

```
diagnose sys forticonverter available-source-devices <ticket-id>
```

Parameter	Description	Type	Size
<ticket-id>	Ticket ID to retrieve device information for.	string	

diagnose sys forticonverter create-ticket

Create a ticket for FortiConverter conversion services.

```
diagnose sys forticonverter create-ticket
```

diagnose sys forticonverter custom-create-ticket

Use the custom request API to create a ticket for FortiConverter conversion services.

```
diagnose sys forticonverter custom-create-ticket
```

diagnose sys forticonverter download-status

Get current download status.

```
diagnose sys forticonverter download-status <ticket-id> <extension>
```

Parameter	Description	Type	Size
<ticket-id>	Ticket ID to check for download status	string	
<extension>	Extension of the file to check.	string	

diagnose sys forticonverter eligibility-status

Show current FortiConverter eligibility status.

```
diagnose sys forticonverter eligibility-status
```

diagnose sys forticonverter get-prompt-visibility

Read the visibility status for the FortiConverter wizard on login.

```
diagnose sys forticonverter get-prompt-visibility
```

diagnose sys forticonverter result-availability

Retrieve result file availability status for a ticket.


```
diagnose sys forticonverter result-availability <ticket-id> <extension>
```

Parameter	Description	Type	Size
<ticket-id>	Ticket ID to retrieve result availability for.	string	
<extension>	File extension to retrieve availability for.	string	

diagnose sys forticonverter set-source-fortigate

Set the source FortiGate for a FortiConverter ticket.

```
diagnose sys forticonverter set-source-fortigate <ticket-id> <source-serial>
```

Parameter	Description	Type	Size
<ticket-id>	Ticket ID to set the source FortiGate for.	string	
<source-serial>	Serial number of the source FortiGate.	string	

diagnose sys forticonverter source-config-upload-status

Retrieve source config upload status for a draft ticket.

```
diagnose sys forticonverter source-config-upload-status <ticket-id>
```

Parameter	Description	Type	Size
<ticket-id>	Ticket ID to retrieve source config upload status info for.	string	

diagnose sys forticonverter source-interfaces

Retrieve source interface JSON for a draft ticket.

```
diagnose sys forticonverter source-interfaces <ticket-id>
```

Parameter	Description	Type	Size
<ticket-id>	Ticket ID to retrieve interface information for.	string	

diagnose sys forticonverter start-download

Start download of config from a ticket.

```
diagnose sys forticonverter start-download <ticket-id> <extension>
```

Parameter	Description	Type	Size
<ticket-id>	Ticket ID to download from.	string	
<extension>	Extension of the file to download.	string	

diagnose sys forticonverter submitted-info

Retrieve previously submitted info for a draft ticket.

```
diagnose sys forticonverter submitted-info <ticket-id>
```

Parameter	Description	Type	Size
<ticket-id>	Ticket ID to retrieve submitted info for.	string	

diagnose sys forticonverter update-eligibility

Request updated eligibility status from FortiConverter.

```
diagnose sys forticonverter update-eligibility
```

diagnose sys forticonverter update-result-availability

Request updated result availability from FortiConverter.

```
diagnose sys forticonverter update-result-availability
```

diagnose sys forticonverter upload-local-config

Upload local config to a ticket for this FGT. Debugging purposes only.

```
diagnose sys forticonverter upload-local-config <ticket-id>
```

Parameter	Description	Type	Size
<ticket-id>	Ticket ID to upload config to.	string	

diagnose sys forticonverter upload-status

Retrieve upload status for a ticket.

```
diagnose sys forticonverter upload-status <ticket-id>
```

Parameter	Description	Type	Size
<ticket-id>	Ticket ID to upload config to.	string	

diagnose sys ha

High availability.

```
diagnose sys ha
```

diagnose sys ha check-vc

check-vc

```
diagnose sys ha check-vc
```

diagnose sys ha checksum

checksum.

```
diagnose sys ha checksum
```

diagnose sys ha checksum cached

Show HA cached checksum.

```
diagnose sys ha checksum cached <global/vdom-name>
```

Parameter	Description	Type	Size
<global/vdom-name>	Show global or a specific vdom's cached HA checksum.	string	

diagnose sys ha checksum cluster

Show HA cluster checksum by serial number.

```
diagnose sys ha checksum cluster
```

diagnose sys ha checksum log

Enable/disable log.

```
diagnose sys ha checksum log
```

diagnose sys ha checksum log clear

Clear log.

```
diagnose sys ha checksum log clear
```

diagnose sys ha checksum log disable

Disable log.

```
diagnose sys ha checksum log disable
```

diagnose sys ha checksum log enable

Enable log.

```
diagnose sys ha checksum log enable
```

diagnose sys ha checksum recalculate

Re-calculate HA checksum.

```
diagnose sys ha checksum recalculate <Enter> or <global/vdom-name>
```

Parameter	Description	Type	Size
<Enter> or <global/vdom-name>	<Enter> to re-calculate all checksums, or global/vdom-name to re-calculate global or a specific vdom HA checksum.	string	

diagnose sys ha checksum show

Show HA checksum.

```
diagnose sys ha checksum show <Enter> or <global/vdom-name> <Enter> or <object-fullpath> <Enter> or <entry-name>
```

Parameter	Description	Type	Size
<Enter> or <global/vdom-name>	<Enter> to show system checksum; <global/vdom-name> to show global/vdom-name detail checksum.	string	
<Enter> or <object-fullpath>	<Enter> to show objects checksum; <object-fullpath> to show individual object's detail checksum.	string	

Parameter	Description	Type	Size
<Enter> or <entry-name>	<Enter> to show the specific object's detail checksum; <entry-name> to show a single entry's detail checksum.	string	

diagnose sys ha checksum show-nonsync

Show non-sync HA checksum.

```
diagnose sys ha checksum show-nonsync
```

diagnose sys ha checksum test

test.

```
diagnose sys ha checksum test
```

diagnose sys ha dump-by

Dump HA data by name.

```
diagnose sys ha dump-by
```

diagnose sys ha dump-by debug-zone

Dump HA debug zone.

```
diagnose sys ha dump-by debug-zone
```

diagnose sys ha dump-by device

Dump HA device.

```
diagnose sys ha dump-by device
```

diagnose sys ha dump-by group

Dump all group.

```
diagnose sys ha dump-by group
```

diagnose sys ha dump-by kernel

Dump HA kernel info.

```
diagnose sys ha dump-by kernel
```

diagnose sys ha dump-by rcache

Dump rcache.

```
diagnose sys ha dump-by rcache
```

diagnose sys ha dump-by vcluster

Dump all vcluster.

```
diagnose sys ha dump-by vcluster
```

diagnose sys ha dump-by vdom

Dump HA vdom info.

```
diagnose sys ha dump-by vdom
```

diagnose sys ha extfile-sig

Dump extfile's signature.

```
diagnose sys ha extfile-sig
```

diagnose sys ha fgsp-zone

FGSP zone information.

```
diagnose sys ha fgsp-zone
```

diagnose sys ha fib

FIB information.

```
diagnose sys ha fib
```

diagnose sys ha hactx-stats

HA context statistics

```
diagnose sys ha hactx-stats
```

diagnose sys ha hactx-stats clear

HA context statistics

```
diagnose sys ha hactx-stats clear
```

diagnose sys ha hadiff

HA diff debug.

```
diagnose sys ha hadiff
```

diagnose sys ha hadiff log

Enable/disable log.

```
diagnose sys ha hadiff log
```

diagnose sys ha hadiff log clear

Clear log.

```
diagnose sys ha hadiff log clear
```

diagnose sys ha hadiff log disable

Disable log.

```
diagnose sys ha hadiff log disable
```

diagnose sys ha hadiff log enable

Enable log.

```
diagnose sys ha hadiff log enable
```

diagnose sys ha hadiff max-sync-turns

Set/get max number of sync turns.

```
diagnose sys ha hadiff max-sync-turns <integer>
```

Parameter	Description	Type	Size
<integer>	Set/get max number of sync turns.	string	

diagnose sys ha hadiff max-unsync-wait

Set/get max unsync wait times.

```
diagnose sys ha hadiff max-unsync-wait <integer>
```

Parameter	Description	Type	Size
<integer>	Maximum unsync wait times.	string	

diagnose sys ha hadiff status

HA diff status.

```
diagnose sys ha hadiff status
```

diagnose sys ha hadiff sync-from-higher

enable/disable sync config from higher build.

```
diagnose sys ha hadiff sync-from-higher <Integer>
```

Parameter	Description	Type	Size
<Integer>	the value: 0(=disable), 1(=enable).	string	

diagnose sys ha hasync-conn-max-buf

Set the hasync connection maximum buffer number.

```
diagnose sys ha hasync-conn-max-buf <hasync-conn-max-buf>
```

Parameter	Description	Type	Size
<hasync-conn-max-buf>	Max number of buffers.	string	

diagnose sys ha hasync-stats

hasync daemon stats.

```
diagnose sys ha hasync-stats
```

diagnose sys ha hasync-stats all

Display hasync all objects' stats.

```
diagnose sys ha hasync-stats all
```

diagnose sys ha hasync-stats by-object

Display hasync stats by object.

```
diagnose sys ha hasync-stats by-object <integer>
```

Parameter	Description	Type	Size
<integer>	Object number.	string	

diagnose sys ha hasync-stats most-recent

Display hasync objects recent stats.

```
diagnose sys ha hasync-stats most-recent [integer]
```

Parameter	Description	Type	Size
[integer]	Most recent # of objects to display.	string	

diagnose sys ha hasync-stats most-time

Display hasync objects ranked by total time.

```
diagnose sys ha hasync-stats most-time [interger]
```

Parameter	Description	Type	Size
[interger]	# of top objects to display.	string	

diagnose sys ha heartbeat

Show kernel heartbeat stats.

```
diagnose sys ha heartbeat
```

diagnose sys ha history

Cluster history information.

```
diagnose sys ha history
```

diagnose sys ha history clear

Clear cluster history.

```
diagnose sys ha history clear
```

diagnose sys ha history read

Display cluster history.

```
diagnose sys ha history read
```

diagnose sys ha mac

Mac Information.

```
diagnose sys ha mac
```

diagnose sys ha pingsvr-secondary-force-reset

Reset HA up time.

```
diagnose sys ha pingsvr-secondary-force-reset
```

diagnose sys ha recalculate-extfile-signature

Recalculate external files signature in hasync daemon.

```
diagnose sys ha recalculate-extfile-signature
```

diagnose sys ha reset-health-status

Reset HA health status.

```
diagnose sys ha reset-health-status
```

diagnose sys ha reset-uptime

Reset HA up time.

```
diagnose sys ha reset-uptime
```

diagnose sys ha reset-uptime-primary-only

Reset HA up time (can take effect on primary unit only).

```
diagnose sys ha reset-uptime-primary-only
```

diagnose sys ha session-sync-dev

Session sync ports.

```
diagnose sys ha session-sync-dev
```

diagnose sys ha session-sync-dev clear

Clear session sync ports.

```
diagnose sys ha session-sync-dev clear
```

diagnose sys ha session-sync-dev set

Configure session sync ports.

```
diagnose sys ha session-sync-dev set
```

diagnose sys ha standalone-peers

Standalone peers on kernel.

```
diagnose sys ha standalone-peers
```

diagnose sys ha standalone-peers reset-stats

Reset standalone peers session/packet type counters in kernel.

```
diagnose sys ha standalone-peers reset-stats
```

diagnose sys ha stats

statistics

```
diagnose sys ha stats
```

diagnose sys ha status

status

```
diagnose sys ha status
```

diagnose sys ha sync-stats

Dump HA sync statistics.

```
diagnose sys ha sync-stats
```

diagnose sys ha sync-stats-reset

Reset HA sync statistics.

```
diagnose sys ha sync-stats-reset
```

diagnose sys ha vlan-hb-monitor

Dump vlan heartbeat monitor list.

```
diagnose sys ha vlan-hb-monitor
```

diagnose sys icap-remote-server

Display remote icap servers status.

```
diagnose sys icap-remote-server
```

diagnose sys icap-remote-server status

List remote icap servers status.

```
diagnose sys icap-remote-server status
```

diagnose sys iotop

Show disk-accessing processes.

```
diagnose sys iotop <interval>
```

Parameter	Description	Type	Size
<interval>	Print interval in seconds (default to 5). Accept value from 5 to 3600.	string	

diagnose sys link-monitor

Link Monitor.

```
diagnose sys link-monitor
```

diagnose sys link-monitor filter

Filter link-monitor

```
diagnose sys link-monitor filter
```

diagnose sys link-monitor filter clear

Clear all filters.

```
diagnose sys link-monitor filter clear
```

diagnose sys link-monitor filter name

Link monitor names <name>.

```
diagnose sys link-monitor filter name <name>
```

Parameter	Description	Type	Size
<name>	Link monitor name.	string	

diagnose sys link-monitor interface

interface quality.

```
diagnose sys link-monitor interface <name> <childname>
```

Parameter	Description	Type	Size
<name>	Show details of an interface entry.	string	
<childname>	Child interface name.	string	

diagnose sys link-monitor launch

Launching a link monitor entry manually.

```
diagnose sys link-monitor launch <entry name>
```

Parameter	Description	Type	Size
<entry name>	Entry.	string	

diagnose sys link-monitor reset-monitor

Reset link monitor statistics.

```
diagnose sys link-monitor reset-monitor <name>
```

Parameter	Description	Type	Size
<name>	Link monitor name.	string	

diagnose sys link-monitor sdwan-hc

SD-WAN health-check monitors.

```
diagnose sys link-monitor sdwan-hc <name> <seq>
```

Parameter	Description	Type	Size
<name>	Health check name.	string	
<seq>	Sequence number.	string	

diagnose sys link-monitor sdwan-service

SD-WAN rule monitors.

```
diagnose sys link-monitor sdwan-service <name> <seq>
```

Parameter	Description	Type	Size
<name>	Heach check name.	string	
<seq>	Sequence number.	string	

diagnose sys link-monitor shm-band-stats

Read link bandwidth statistics in SHM.

```
diagnose sys link-monitor shm-band-stats <name>
```

Parameter	Description	Type	Size
<name>	Interface name.	string	

diagnose sys link-monitor shm-stats

Read link monitor statistics in SHM.

```
diagnose sys link-monitor shm-stats <name>
```

Parameter	Description	Type	Size
<name>	Link monitor name.	string	

diagnose sys link-monitor status

status

```
diagnose sys link-monitor status <name | all>
```

Parameter	Description	Type	Size
<name all>	Show details of monitor entry.	string	

diagnose sys nmi-watchdog

nmi-watchdog

```
diagnose sys nmi-watchdog
```

diagnose sys nmi-watchdog disable

Disable NMI watchdog.

```
diagnose sys nmi-watchdog disable
```

diagnose sys nmi-watchdog enable

Enable NMI watchdog.

```
diagnose sys nmi-watchdog enable
```

diagnose sys nmi-watchdog reboot

reboot on lockup detection.

```
diagnose sys nmi-watchdog reboot
```

diagnose sys nmi-watchdog reboot disable

Disable reboot on lockup detection.

```
diagnose sys nmi-watchdog reboot disable
```

diagnose sys nmi-watchdog reboot enable

Enable reboot on lockup detection.

```
diagnose sys nmi-watchdog reboot enable
```

diagnose sys nmi-watchdog threshold

Duration of lockup that register as a detection.

```
diagnose sys nmi-watchdog threshold <seconds>
```

Parameter	Description	Type	Size
<seconds>	(6 to 40 seconds)	string	

diagnose sys ntp

NTP daemon command.

```
diagnose sys ntp
```


diagnose sys ntp status

List NTP servers information.

```
diagnose sys ntp status
```

diagnose sys pair

Pair device.

```
diagnose sys pair
```

diagnose sys process

Dump process stack.

```
diagnose sys process
```

diagnose sys process daemon-auto-restart

Set daemon respawn behaviour.

```
diagnose sys process daemon-auto-restart <action> <daemon>
```

Parameter	Description	Type	Size
<action>	(enable disable)	string	
<daemon>	Daemon name.	string	

diagnose sys process dump

Dump process kernel stack.

```
diagnose sys process dump <pid>
```

Parameter	Description	Type	Size
<pid>	PID of the process to dump.	string	

diagnose sys process nameof

List name of process with a specific PID.

```
diagnose sys process nameof <integer>
```

Parameter	Description	Type	Size
<integer>	PID to find the process name.	string	

diagnose sys process pidof

List PIDs of processes with a specific name.

```
diagnose sys process pidof <string>
```

Parameter	Description	Type	Size
<string>	Name to find PIDs for.	string	

diagnose sys process pstack

Dump process userspace stack.

```
diagnose sys process pstack <pid>
```

Parameter	Description	Type	Size
<pid>	PID of the process to dump.	string	

diagnose sys process sock-mem

Show process socket mem usage.

```
diagnose sys process sock-mem
```

diagnose sys process socket

Find PID of processes which owns the socket.

```
diagnose sys process socket <socket-inode>
```

Parameter	Description	Type	Size
<socket-inode>	Socket to find PID for.	string	

diagnose sys process trace

Sample process instructions.

diagnose sys process trace

diagnose sys profile

kernel profiling

diagnose sys profile

diagnose sys profile cpumask

profile which CPUs

diagnose sys profile cpumask

diagnose sys profile show

show kernel profiling result

diagnose sys profile show

diagnose sys profile show detail

show detail of kernel profiling

diagnose sys profile show detail

diagnose sys profile show order

order kernel profiling result

diagnose sys profile show order

diagnose sys profile start

start kernel profiling data

diagnose sys profile start

diagnose sys profile step

set profile step

diagnose sys profile step <Integer>

Parameter	Description	Type	Size
<Integer>	Profile step for CPU profiling. Argument should be a power of two between 2 to 32	string	

diagnose sys profile stop

copy kernel profiling data

```
diagnose sys profile stop
```

diagnose sys profile sysmap

show kernel sysmap

```
diagnose sys profile sysmap
```

diagnose sys ptp

PTP daemon command.

```
diagnose sys ptp
```

diagnose sys ptp status

List PTP information.

```
diagnose sys ptp status
```

diagnose sys scanunit

Scanunit diagnostics.

```
diagnose sys scanunit
```

diagnose sys scanunit auto-restart

Auto-restart settings.

```
diagnose sys scanunit auto-restart
```

diagnose sys scanunit auto-restart requests

Number of scan requests before restarting.

```
diagnose sys scanunit auto-restart requests <Integer>
```

Parameter	Description	Type	Size
<Integer>	Number of requests before restarting (0 disables auto restart).	string	

diagnose sys scanunit auto-restart reset

Reset auto restart settings.

```
diagnose sys scanunit auto-restart reset
```

diagnose sys scanunit auto-restart status

Show auto restart settings.

```
diagnose sys scanunit auto-restart status
```

diagnose sys scanunit auto-restart time

Minimum interval in seconds between restarting workers.

```
diagnose sys scanunit auto-restart time <Integer>
```

Parameter	Description	Type	Size
<Integer>	Minimum interval in seconds between restarting workers.	string	

diagnose sys scanunit av-filetype-reuse

Enable/disable AV filetype reuse.

```
diagnose sys scanunit av-filetype-reuse
```

diagnose sys scanunit av-filetype-reuse disable

Disable scanunit AV filetype reuse.

```
diagnose sys scanunit av-filetype-reuse disable
```

diagnose sys scanunit av-filetype-reuse enable

Enable scanunit AV filetype reuse.

```
diagnose sys scanunit av-filetype-reuse enable
```

diagnose sys scanunit bypass

Bypass setting.

```
diagnose sys scanunit bypass
```

diagnose sys scanunit bypass clear

Clear bypass settings.

```
diagnose sys scanunit bypass clear
```

diagnose sys scanunit bypass disable

Disable bypass settings.

```
diagnose sys scanunit bypass disable
```

diagnose sys scanunit bypass disable category

Disable category bypass.

```
diagnose sys scanunit bypass disable category
```

diagnose sys scanunit bypass disable category all

Bypass all.

```
diagnose sys scanunit bypass disable category all
```

diagnose sys scanunit bypass disable category av-engine

Bypass AV engine.

```
diagnose sys scanunit bypass disable category av-engine
```

diagnose sys scanunit bypass disable category scanunit

Bypass scanunit.

```
diagnose sys scanunit bypass disable category scanunit
```

diagnose sys scanunit bypass disable protocol

Disable protocol bypass.

```
diagnose sys scanunit bypass disable protocol
```

diagnose sys scanunit bypass disable protocol all

All proxy protocols

```
diagnose sys scanunit bypass disable protocol all
```

diagnose sys scanunit bypass disable protocol cifs

CIFS protocol

```
diagnose sys scanunit bypass disable protocol cifs
```

diagnose sys scanunit bypass disable protocol ftp

FTP(S) protocol

```
diagnose sys scanunit bypass disable protocol ftp
```

diagnose sys scanunit bypass disable protocol http

HTTP(S) protocol

```
diagnose sys scanunit bypass disable protocol http
```

diagnose sys scanunit bypass disable protocol imap

IMAP(S) protocol

```
diagnose sys scanunit bypass disable protocol imap
```

diagnose sys scanunit bypass disable protocol nntp

NNTP protocol

```
diagnose sys scanunit bypass disable protocol nntp
```

diagnose sys scanunit bypass disable protocol pop3

POP3(S) protocol

```
diagnose sys scanunit bypass disable protocol pop3
```

diagnose sys scanunit bypass disable protocol smtp

SMTP(S) protocol

```
diagnose sys scanunit bypass disable protocol smtp
```

diagnose sys scanunit bypass enable

Enable bypass settings.

```
diagnose sys scanunit bypass enable
```

diagnose sys scanunit bypass enable category

Enable category bypass.

```
diagnose sys scanunit bypass enable category
```

diagnose sys scanunit bypass enable category all

Bypass all.

```
diagnose sys scanunit bypass enable category all
```

diagnose sys scanunit bypass enable category av-engine

Bypass AV engine.

```
diagnose sys scanunit bypass enable category av-engine
```


diagnose sys scanunit bypass enable category scanunit

Bypass scanunit.

```
diagnose sys scanunit bypass enable category scanunit
```

diagnose sys scanunit bypass enable protocol

Enable protocol bypass.

```
diagnose sys scanunit bypass enable protocol
```

diagnose sys scanunit bypass enable protocol all

All proxy protocols

```
diagnose sys scanunit bypass enable protocol all
```

diagnose sys scanunit bypass enable protocol cifs

CIFS protocol

```
diagnose sys scanunit bypass enable protocol cifs
```

diagnose sys scanunit bypass enable protocol ftp

FTP(S) protocol

```
diagnose sys scanunit bypass enable protocol ftp
```

diagnose sys scanunit bypass enable protocol http

HTTP(S) protocol

```
diagnose sys scanunit bypass enable protocol http
```

diagnose sys scanunit bypass enable protocol imap

IMAP(S) protocol

```
diagnose sys scanunit bypass enable protocol imap
```

diagnose sys scanunit bypass enable protocol nntp

NNTP protocol

```
diagnose sys scanunit bypass enable protocol nntp
```

diagnose sys scanunit bypass enable protocol pop3

POP3(S) protocol

```
diagnose sys scanunit bypass enable protocol pop3
```

diagnose sys scanunit bypass enable protocol smtp

SMTP(S) protocol

```
diagnose sys scanunit bypass enable protocol smtp
```

diagnose sys scanunit bypass show

Show bypass settings.

```
diagnose sys scanunit bypass show
```

diagnose sys scanunit cfg

Cached configuration.

```
diagnose sys scanunit cfg
```

diagnose sys scanunit cfg clear

Clear cached configuration.

```
diagnose sys scanunit cfg clear
```

diagnose sys scanunit cfg list

List the key for each cached configuration entry.

```
diagnose sys scanunit cfg list
```

diagnose sys scanunit crash-dump

Enable/disable crash dump.

```
diagnose sys scanunit crash-dump
```

diagnose sys scanunit crash-dump clear

Clear scanunit crash dump.

```
diagnose sys scanunit crash-dump clear
```

diagnose sys scanunit crash-dump disable

Disable scanunit crash dump.

```
diagnose sys scanunit crash-dump disable
```

diagnose sys scanunit crash-dump enable

Enable scanunit crash dump.

```
diagnose sys scanunit crash-dump enable
```

diagnose sys scanunit crash-dump read

Read the last crash dump.

```
diagnose sys scanunit crash-dump read
```

diagnose sys scanunit debug

Debug settings.

```
diagnose sys scanunit debug
```

diagnose sys scanunit debug all

Enable all debug categories.

```
diagnose sys scanunit debug all <status>
```

Parameter	Description	Type	Size
<status>	Enable or disable debug category.	string	

diagnose sys scanunit debug analytics

Enable analytics category.

```
diagnose sys scanunit debug analytics <status>
```

Parameter	Description	Type	Size
<status>	Enable or disable debug category.	string	

diagnose sys scanunit debug antispam

Enable antispam category.

```
diagnose sys scanunit debug antispam <status>
```

Parameter	Description	Type	Size
<status>	Enable or disable debug category.	string	

diagnose sys scanunit debug daemon

Enable scanunit daemon category.

```
diagnose sys scanunit debug daemon <status>
```

Parameter	Description	Type	Size
<status>	Enable or disable debug category.	string	

diagnose sys scanunit debug dlp

Enable DLP category.

```
diagnose sys scanunit debug dlp <status>
```

Parameter	Description	Type	Size
<status>	Enable or disable debug category.	string	

diagnose sys scanunit debug file-filter

Enable file filter category.

```
diagnose sys scanunit debug file-filter <status>
```

Parameter	Description	Type	Size
<status>	Enable or disable debug category.	string	

diagnose sys scanunit debug ia

Enable IA category.

```
diagnose sys scanunit debug ia <status>
```

Parameter	Description	Type	Size
<status>	Enable or disable debug category.	string	

diagnose sys scanunit debug icb

Enable ICB category.

```
diagnose sys scanunit debug icb <status>
```

Parameter	Description	Type	Size
<status>	Enable or disable debug category.	string	

diagnose sys scanunit debug job

Enable scanunit job category.

```
diagnose sys scanunit debug job <status>
```

Parameter	Description	Type	Size
<status>	Enable or disable debug category.	string	

diagnose sys scanunit debug level

Set debug level.

```
diagnose sys scanunit debug level
```

diagnose sys scanunit debug level error

Error level.

```
diagnose sys scanunit debug level error
```

diagnose sys scanunit debug level info

Info level.

```
diagnose sys scanunit debug level info
```

diagnose sys scanunit debug level verbose

Verbose level.

```
diagnose sys scanunit debug level verbose
```

diagnose sys scanunit debug level warning

Warning level.

```
diagnose sys scanunit debug level warning
```

diagnose sys scanunit debug outbreak-prevention

Enable outbreak prevention category.

```
diagnose sys scanunit debug outbreak-prevention <status>
```

Parameter	Description	Type	Size
<status>	Enable or disable debug category.	string	

diagnose sys scanunit debug quarantine

Enable quarantine category.

```
diagnose sys scanunit debug quarantine <status>
```

Parameter	Description	Type	Size
<status>	Enable or disable debug category.	string	

diagnose sys scanunit debug reset

Reset debug category and level.

```
diagnose sys scanunit debug reset
```

diagnose sys scanunit debug sane

Enable a sane group of categories.

```
diagnose sys scanunit debug sane <status>
```

Parameter	Description	Type	Size
<status>	Enable or disable debug category.	string	

diagnose sys scanunit debug show

Show current debug settings.

```
diagnose sys scanunit debug show
```

diagnose sys scanunit dlp

DLP data size scanning threshold settings.

```
diagnose sys scanunit dlp
```

diagnose sys scanunit dlp reset

Reset DLP data size scanning threshold value.

```
diagnose sys scanunit dlp reset
```

diagnose sys scanunit dlp status

Show DLP data size scanning threshold value.

```
diagnose sys scanunit dlp status
```

diagnose sys scanunit dlp threshold

Set DLP data size scanning threshold in bytes (0 = default).

```
diagnose sys scanunit dlp threshold <Integer>
```

Parameter	Description	Type	Size
<Integer>	DLP data size scanning threshold.	string	

diagnose sys scanunit file-hash

File hash list.

```
diagnose sys scanunit file-hash
```

diagnose sys scanunit file-hash list

List malware hashes.

```
diagnose sys scanunit file-hash list
```

diagnose sys scanunit file-hash list all

List all malware hashes.

```
diagnose sys scanunit file-hash list all
```

diagnose sys scanunit file-hash list md5

List md5 malware hashes.

```
diagnose sys scanunit file-hash list md5
```

diagnose sys scanunit file-hash list sha1

List sha1 malware hashes.

```
diagnose sys scanunit file-hash list sha1
```

diagnose sys scanunit file-hash list sha256

List sha256 malware hashes.

```
diagnose sys scanunit file-hash list sha256
```


diagnose sys scanunit file-hash query

Query a malware hash.

```
diagnose sys scanunit file-hash query
```

diagnose sys scanunit file-hash query md5

Query an md5 malware hash.

```
diagnose sys scanunit file-hash query md5 <value>
```

Parameter	Description	Type	Size
<value>	md5 hash	string	

diagnose sys scanunit file-hash query sha1

Query a sha1 malware hash.

```
diagnose sys scanunit file-hash query sha1 <value>
```

Parameter	Description	Type	Size
<value>	sha1 hash	string	

diagnose sys scanunit file-hash query sha256

Query a sha256 malware hash.

```
diagnose sys scanunit file-hash query sha256 <value>
```

Parameter	Description	Type	Size
<value>	sha256 hash	string	

diagnose sys scanunit file-hash status

File hash database status.

```
diagnose sys scanunit file-hash status
```

diagnose sys scanunit filter

Diagnostics filter.

```
diagnose sys scanunit filter
```

diagnose sys scanunit filter clear

Clear the current filter.

```
diagnose sys scanunit filter clear
```

diagnose sys scanunit filter list

Display the current filter.

```
diagnose sys scanunit filter list
```

diagnose sys scanunit filter negate

Negate the specified filter parameter.

```
diagnose sys scanunit filter negate
```

diagnose sys scanunit filter negate vd

Negate virtual domain.

```
diagnose sys scanunit filter negate vd
```

diagnose sys scanunit filter negate worker

Negate worker ID.

```
diagnose sys scanunit filter negate worker
```

diagnose sys scanunit filter vd

Index of virtual domain. -1 matches all.

```
diagnose sys scanunit filter vd <index>
```

Parameter	Description	Type	Size
<index>	Index of virtual domain. -1 matches all.	string	

diagnose sys scanunit filter worker

ID of worker or "m" for manager. Invalid ID matches all.

```
diagnose sys scanunit filter worker <id>
```

Parameter	Description	Type	Size
<id>	ID of worker or "m" for manager. Invalid ID matches all.	string	

diagnose sys scanunit log

Logging diagnostics.

```
diagnose sys scanunit log
```

diagnose sys scanunit log filter

Debug log filter.

```
diagnose sys scanunit log filter
```

diagnose sys scanunit log filter clear

Clear the current filter.

```
diagnose sys scanunit log filter clear
```

diagnose sys scanunit log filter list

Display the current filter.

```
diagnose sys scanunit log filter list
```

diagnose sys scanunit log filter negate

Negate the specified filter parameter.

```
diagnose sys scanunit log filter negate
```

diagnose sys scanunit log filter negate vd

Negate virtual domain.

```
diagnose sys scanunit log filter negate vd
```

diagnose sys scanunit log filter negate worker

Negate worker ID.

```
diagnose sys scanunit log filter negate worker
```

diagnose sys scanunit log filter vd

Index of virtual domain. -1 matches all.

```
diagnose sys scanunit log filter vd <index>
```

Parameter	Description	Type	Size
<index>	Index of virtual domain. -1 matches all.	string	

diagnose sys scanunit log filter worker

ID of worker or "m" for manager. Invalid ID matches all.

```
diagnose sys scanunit log filter worker <id>
```

Parameter	Description	Type	Size
<id>	ID of worker or "m" for manager. Invalid ID matches all.	string	

diagnose sys scanunit memory

Memory configuration

```
diagnose sys scanunit memory
```

diagnose sys scanunit memory conserve

Enter/exit conserve mode.

```
diagnose sys scanunit memory conserve
```

diagnose sys scanunit memory conserve enter

Enter conserve mode.

```
diagnose sys scanunit memory conserve enter
```

diagnose sys scanunit memory conserve exit

Exit conserve mode.

```
diagnose sys scanunit memory conserve exit
```

diagnose sys scanunit reload-avdb

Reload AVDB.

```
diagnose sys scanunit reload-avdb
```

diagnose sys scanunit reload-aveng

Reload AV engine.

```
diagnose sys scanunit reload-aveng
```

diagnose sys scanunit reload-fsa-ext

Reload FSA extensions list.

```
diagnose sys scanunit reload-fsa-ext
```

diagnose sys scanunit restart

Restart scanunit.

```
diagnose sys scanunit restart <which>
```

Parameter	Description	Type	Size
<which>	Worker id to restart. Or 'all' for all processes.	string	

diagnose sys scanunit simulate-crash

Simulate scanunit crashes.

```
diagnose sys scanunit simulate-crash
```

diagnose sys scanunit simulate-crash lockup-workers

Simulate locked up scanunit workers.

```
diagnose sys scanunit simulate-crash lockup-workers
```

diagnose sys scanunit simulate-crash lockup-workers all

Lock up all workers.

```
diagnose sys scanunit simulate-crash lockup-workers all
```

diagnose sys scanunit simulate-crash lockup-workers worker

Lock up worker <id>.

```
diagnose sys scanunit simulate-crash lockup-workers worker <id>
```

Parameter	Description	Type	Size
<id>	ID of worker to lock up.	string	

diagnose sys scanunit simulate-error

Simulate scanunit errors.

```
diagnose sys scanunit simulate-error
```

diagnose sys scanunit simulate-error av-engine-delay

Add delay in AV engine filetype callback

```
diagnose sys scanunit simulate-error av-engine-delay <Integer>
```

Parameter	Description	Type	Size
<Integer>	Delay (in seconds) to introduce in AV engine filetype callback	string	

diagnose sys scanunit simulate-error av-error

Simulate AV engine error codes

```
diagnose sys scanunit simulate-error av-error <Integer>
```

Parameter	Description	Type	Size
<Integer>	AV engine error code, interpreted as bitmask.	string	

diagnose sys scanunit simulate-error av-status

Simulate AV engine status codes.

```
diagnose sys scanunit simulate-error av-status <Integer>
```

Parameter	Description	Type	Size
<Integer>	AV engine status code. (-1 == INFECTED_ERROR, 1 == INFECTED_VIRUS, etc.)	string	

diagnose sys scanunit simulate-error cdr-error

Simulate CDR engine internal error when active content detected.

```
diagnose sys scanunit simulate-error cdr-error
```

diagnose sys scanunit simulate-error reset

Reset all error simulation settings.

```
diagnose sys scanunit simulate-error reset
```

diagnose sys scanunit simulate-error scan-error-code

Simulate scanunit scan error.

```
diagnose sys scanunit simulate-error scan-error-code <Integer>
```

Parameter	Description	Type	Size
<Integer>	Scanunit error code (negated) (e.g., 0 = none, 3 = invalid infection pointer, 5 = scanunit crash).	string	

diagnose sys scanunit simulate-error status

Show error simulation settings.

```
diagnose sys scanunit simulate-error status
```

diagnose sys scanunit stats

Statistics.

```
diagnose sys scanunit stats
```

diagnose sys scanunit stats all

Per-process statistics.

```
diagnose sys scanunit stats all
```

diagnose sys scanunit stats clear

Clear all statistics.

```
diagnose sys scanunit stats clear
```

diagnose sys scanunit stats crash

Crash process statistics.

```
diagnose sys scanunit stats crash
```

diagnose sys scanunit stats forker

scanunit forker statistics.

```
diagnose sys scanunit stats forker
```

diagnose sys scanunit stats list

List statistics.

```
diagnose sys scanunit stats list
```

diagnose sys scanunit stats manager

scanunit manager statistics.

```
diagnose sys scanunit stats manager
```


diagnose sys scanunit stats worker

scanunit worker statistics.

```
diagnose sys scanunit stats worker
```

diagnose sys scanunit valgrind

Valgrind analysis.

```
diagnose sys scanunit valgrind
```

diagnose sys scanunit valgrind disable

Force daemon to restart.

```
diagnose sys scanunit valgrind disable
```

diagnose sys scanunit valgrind enable

Force daemon to restart.

```
diagnose sys scanunit valgrind enable
```

diagnose sys scanunit valgrind log

Valgrind logs.

```
diagnose sys scanunit valgrind log
```

diagnose sys scanunit valgrind log clear

Clear logs.

```
diagnose sys scanunit valgrind log clear
```

diagnose sys scanunit valgrind log show

Show logs.

```
diagnose sys scanunit valgrind log show
```

diagnose sys scanunit valgrind memcheck

Force daemon to restart.

```
diagnose sys scanunit valgrind memcheck
```

diagnose sys scanunit valgrind memcheck_less

Force daemon to restart.

```
diagnose sys scanunit valgrind memcheck_less
```

diagnose sys scanunit valgrind status

Show valgrind status.

```
diagnose sys scanunit valgrind status
```

diagnose sys scanunit vdom-stats

Current VDOM statistics.

```
diagnose sys scanunit vdom-stats
```

diagnose sys scanunit vdom-stats all

List all VDOM statistics.

```
diagnose sys scanunit vdom-stats all
```

diagnose sys scanunit vdom-stats clear

Clear current VDOM statistics.

```
diagnose sys scanunit vdom-stats clear
```

diagnose sys scanunit vdom-stats clear-all

Clear all VDOM statistics.

```
diagnose sys scanunit vdom-stats clear-all
```

diagnose sys scanunit vdom-stats list

List current VDOM statistics.

```
diagnose sys scanunit vdom-stats list
```

diagnose sys scanunit watchdog-override

Configure scanunit manager watchdog override.

```
diagnose sys scanunit watchdog-override
```

diagnose sys scanunit watchdog-override disable

Disable watchdog override.

```
diagnose sys scanunit watchdog-override disable
```

diagnose sys scanunit watchdog-override enable

Enable watchdog override.

```
diagnose sys scanunit watchdog-override enable
```

diagnose sys scanunit watchdog-override interval

Set watchdog override interval.

```
diagnose sys scanunit watchdog-override interval <time>
```

Parameter	Description	Type	Size
<time>	Override interval (sec) for worker watchdog.	string	

diagnose sys sdn

SDN Connector diagnostics.

```
diagnose sys sdn
```

diagnose sys sdn cache

Show SDN Connector cache.

```
diagnose sys sdn cache <sdn-data-type> <sdn-connector-name>
```

Parameter	Description	Type	Size
<sdn-data-type>	Specify the data type of the SDN Connector: address/service.	string	
<sdn-connector-name>	Specify the name of the SDN connector.	string	

diagnose sys sdn status

Show SDN Connector status.

```
diagnose sys sdn status <sdn-connector-name> <server-ip-address>
```

Parameter	Description	Type	Size
<sdn-connector-name>	Specify the name of the SDN Connector.	string	
<server-ip-address>	Specify the IP address of the SDN connector.	string	

diagnose sys server-probe

Server probe.

```
diagnose sys server-probe
```

diagnose sys server-probe response

Probe response.

```
diagnose sys server-probe response
```

diagnose sys session

IPv4 session.

```
diagnose sys session
```

diagnose sys session clear

Clear the sessions defined by filter.

```
diagnose sys session clear
```

diagnose sys session count

Show number of sessions.

```
diagnose sys session count
```

diagnose sys session exp-stat

Expectation session statistics.

```
diagnose sys session exp-stat
```

diagnose sys session expectation

List expectation session.

```
diagnose sys session expectation
```

diagnose sys session filter

List session with filters.

```
diagnose sys session filter
```

diagnose sys session filter clear

Clear session filter.

```
diagnose sys session filter clear
```

diagnose sys session filter clear dintf

Clear destination interface filter.

```
diagnose sys session filter clear dintf
```

diagnose sys session filter clear dport

Clear destination port filter.

```
diagnose sys session filter clear dport
```

diagnose sys session filter clear dst

Clear destination IP filter.

```
diagnose sys session filter clear dst
```

diagnose sys session filter clear nsrc

clear NAT'd source IP filter

```
diagnose sys session filter clear nsrc
```

diagnose sys session filter clear policy

Clear policy ID filter.

```
diagnose sys session filter clear policy
```

diagnose sys session filter clear proto

Clear protocol filter.

```
diagnose sys session filter clear proto
```

diagnose sys session filter clear proto-state

Clear protocol state filter.

```
diagnose sys session filter clear proto-state
```

diagnose sys session filter clear intf

Clear source interface filter.

```
diagnose sys session filter clear intf
```

diagnose sys session filter clear sport

Clear source port filter.

```
diagnose sys session filter clear sport
```

diagnose sys session filter clear src

Clear source IP filter.

```
diagnose sys session filter clear src
```

diagnose sys session filter dintf

Destination interface.

```
diagnose sys session filter dintf <xxxx>
```

Parameter	Description	Type	Size
<xxxx>	Interface name.	string	

diagnose sys session filter dport

Destination port.

```
diagnose sys session filter dport <xxxx>
```

Parameter	Description	Type	Size
<xxxx>	<0-65535> (from).	string	

diagnose sys session filter dst

Destination IP address.

```
diagnose sys session filter dst <xxx.xxx.xxx.xxx>
```

Parameter	Description	Type	Size
<xxx.xxx.xxx.xxx>	Destination IP (from).	string	

diagnose sys session filter nsrc

NAT'd source ip address

```
diagnose sys session filter nsrc <xxx.xxx.xxx.xxx>
```

Parameter	Description	Type	Size
<xxx.xxx.xxx.xxx>	NAT'd source ip (from)	string	

diagnose sys session filter policy

Policy ID.

```
diagnose sys session filter policy <xxx>
```

Parameter	Description	Type	Size
<xxx>	Policy ID (from).	string	

diagnose sys session filter proto

Protocol number.

```
diagnose sys session filter proto <xx>
```

Parameter	Description	Type	Size
<xx>	<0-255>.	string	

diagnose sys session filter sintf

Source interface.

```
diagnose sys session filter sintf <xxxx>
```

Parameter	Description	Type	Size
<xxxx>	Interface name.	string	

diagnose sys session filter sport

Source port.

```
diagnose sys session filter sport <xxxx>
```

Parameter	Description	Type	Size
<xxxx>	<0-65535> (from).	string	

diagnose sys session filter src

Source IP address.

```
diagnose sys session filter src <xxx.xxx.xxx.xxx>
```

Parameter	Description	Type	Size
<xxx.xxx.xxx.xxx>	Source IP (from).	string	

diagnose sys session full-stat

Fully stat session.

```
diagnose sys session full-stat
```

diagnose sys session list

List session.

```
diagnose sys session list
```

diagnose sys session stat

Stat session.

```
diagnose sys session stat
```

diagnose sys session ttl

TTL session.

```
diagnose sys session ttl
```

diagnose sys session6

IPv6 session.

```
diagnose sys session6
```

diagnose sys session6 clear

Clear IPv6 sessions defined by filter.

```
diagnose sys session6 clear
```

diagnose sys session6 expectation

List IPv6 expectation session.

```
diagnose sys session6 expectation
```

diagnose sys session6 filter

List IPv6 session with filters.

```
diagnose sys session6 filter
```

diagnose sys session6 filter clear

Clear IPv6 session filter.

```
diagnose sys session6 filter clear
```

diagnose sys session6 filter clear dintf

Clear destination interface filter.

```
diagnose sys session6 filter clear dintf
```

diagnose sys session6 filter clear dport

Clear destination port filter.

```
diagnose sys session6 filter clear dport
```

diagnose sys session6 filter clear dst

Clear destination IP filter.

```
diagnose sys session6 filter clear dst
```

diagnose sys session6 filter clear nsrc

Clear NAT'd source IP filter.

```
diagnose sys session6 filter clear nsrc
```

diagnose sys session6 filter clear policy

Clear policy ID filter.

```
diagnose sys session6 filter clear policy
```

diagnose sys session6 filter clear proto

Clear protocol filter.

```
diagnose sys session6 filter clear proto
```

diagnose sys session6 filter clear proto-state

Clear protocol state filter.

```
diagnose sys session6 filter clear proto-state
```

diagnose sys session6 filter clear sintf

Clear source interface filter.

```
diagnose sys session6 filter clear sintf
```

diagnose sys session6 filter clear sport

Clear source port filter.

```
diagnose sys session6 filter clear sport
```

diagnose sys session6 filter clear src

Clear source IP filter.

```
diagnose sys session6 filter clear src
```

diagnose sys session6 filter clear vd

Clear virtual domain filter.

```
diagnose sys session6 filter clear vd
```

diagnose sys session6 filter dintf

Destination interface.

```
diagnose sys session6 filter dintf <xxxxx>
```

Parameter	Description	Type	Size
<xxxxx>	Interface name.	string	

diagnose sys session6 filter dport

Destination port.

```
diagnose sys session6 filter dport <xxxx>
```

Parameter	Description	Type	Size
<xxxx>	<0-65535> (from).	string	

diagnose sys session6 filter dst

Destination IP address.

```
diagnose sys session6 filter dst <xxx:xxx::xxx:xxx>
```

Parameter	Description	Type	Size
<xxx:xxx::xxx:xxx>	Destination IP (from).	string	

diagnose sys session6 filter nsrc

NAT'd source IP address.

```
diagnose sys session6 filter nsrc <xxx:xxx::xxx:xxx>
```

Parameter	Description	Type	Size
<xxx:xxx::xxx:xxx>	NAT'd source IP (from).	string	

diagnose sys session6 filter policy

Policy ID.

```
diagnose sys session6 filter policy <xxx>
```

Parameter	Description	Type	Size
<xxx>	Policy ID (from).	string	

diagnose sys session6 filter proto

Protocol number.

```
diagnose sys session6 filter proto <xx>
```

Parameter	Description	Type	Size
<xx>	<0-255>.	string	

diagnose sys session6 filter sintf

Source interface.

```
diagnose sys session6 filter sintf <xxxxx>
```

Parameter	Description	Type	Size
<xxxxx>	Interface name.	string	

diagnose sys session6 filter sport

Source port.

```
diagnose sys session6 filter sport <xxxx>
```

Parameter	Description	Type	Size
<xxxx>	<0-65535> (from).	string	

diagnose sys session6 filter src

Source IP address.

```
diagnose sys session6 filter src <xxx:xxx::xxx:xxx>
```

Parameter	Description	Type	Size
<xxx:xxx::xxx:xxx>	Source IP (from).	string	

diagnose sys session6 list

List IPv6 session.

```
diagnose sys session6 list
```

diagnose sys shmfile

shmfile related information.

```
diagnose sys shmfile
```

diagnose sys shmfile dump

dump.

```
diagnose sys shmfile dump
```

diagnose sys shmfile dump oid-app

oid-app information.

```
diagnose sys shmfile dump oid-app <path.name>
```

Parameter	Description	Type	Size
<path.name>	object's path.name.	string	

diagnose sys shmfile dump oid-slab

oid-slab information.

```
diagnose sys shmfile dump oid-slab <path.object>
```

Parameter	Description	Type	Size
<path.object>	vdom root object's information.	string	

diagnose sys shmfile dump slab-file

slab file information.

```
diagnose sys shmfile dump slab-file [file-id]
```

Parameter	Description	Type	Size
[file-id]	file id.	string	

diagnose sys shmfile dump table-count

table count information.

```
diagnose sys shmfile dump table-count
```

diagnose sys shmfile dump table-count total

total table count information.

```
diagnose sys shmfile dump table-count total <path.name>
```

Parameter	Description	Type	Size
<path.name>	object's path.name (e.g. system.interface).	string	

diagnose sys shmfile dump table-count vdom

vdom table count information.

```
diagnose sys shmfile dump table-count vdom <vdom-name> <path.name>
```

Parameter	Description	Type	Size
<vdom-name>	vdom name.	string	
<path.name>	object's path.name (e.g. system.interface).	string	

diagnose sys shmfile dump vdom

vdom information.

```
diagnose sys shmfile dump vdom <vdom-name>
```

Parameter	Description	Type	Size
<vdom-name>	vdom name.	string	

diagnose sys tcp-option

Enable/disable TCP option.

```
diagnose sys tcp-option
```

diagnose sys tcp-option disable

disable

```
diagnose sys tcp-option disable
```

diagnose sys tcp-option dump

Show TCP option status

```
diagnose sys tcp-option dump
```

diagnose sys tcp-option enable

enable

```
diagnose sys tcp-option enable
```

diagnose sys tcpsock

TCP sock info.

```
diagnose sys tcpsock
```

diagnose sys tcpsock6

TCP sock6 info.

```
diagnose sys tcpsock6
```

diagnose sys top

Show top processes information.

```
diagnose sys top <value> <Integer> <value>
```

Parameter	Description	Type	Size
<value>	Delay in seconds (default 5).	string	

Parameter	Description	Type	Size
<Integer>	Maximum lines to display (default 20). Show all the running processes if larger than its total number.	string	
<value>	Iterations to run (default unlimited).	string	

diagnose sys top-all

Show top threads information.

```
diagnose sys top-all <value> <Integer> <value>
```

Parameter	Description	Type	Size
<value>	Delay in seconds (default 5).	string	
<Integer>	Maximum lines to display (default 20). Show all the running threads if larger than its total number.	string	
<value>	Iterations to run (default unlimited).	string	

diagnose sys top-fd

Display processes with the most active file descriptors (default 5 processes).

```
diagnose sys top-fd [process-count]
```

Parameter	Description	Type	Size
[process-count]	Number of processes to include info for (default 5).	string	

diagnose sys top-fd detail

Display per-process active fd info along with details (default 5 processes, 50 fds).

```
diagnose sys top-fd detail [process-count] [fd-count]
```

Parameter	Description	Type	Size
[process-count]	Number of processes to include info for (default 5).	string	
[fd-count]	Number of FDs to include (per process, default 50).	string	

diagnose sys top-mem

Display processes with the most used memory (default 5 processes).

```
diagnose sys top-mem [process-count]
```

Parameter	Description	Type	Size
[process-count]	Number of processes to include info for (default 5).	string	

diagnose sys top-mem detail

Display per-process memory info along with details (default 5 processes).

```
diagnose sys top-mem detail [process-count]
```

Parameter	Description	Type	Size
[process-count]	Number of processes to include info for (default 5).	string	

diagnose sys top-sockmem

Display processes with the most used socket memory (default 5 processes).

```
diagnose sys top-sockmem [process-count]
```

Parameter	Description	Type	Size
[process-count]	Number of processes to include info for (default 5).	string	

diagnose sys traffic

Traffic information

```
diagnose sys traffic
```

diagnose sys traffic app-stats

Traffic application statistics.

```
diagnose sys traffic app-stats
```

diagnose sys traffic app-stats list

List traffic application statistics entry.

```
diagnose sys traffic app-stats list
```

diagnose sys udpsock

UDP sock info.

```
diagnose sys udpsock
```

diagnose sys udpsock6

UDP sock6 info.

```
diagnose sys udpsock6
```

diagnose sys uuid

UUID debug.

```
diagnose sys uuid
```

diagnose sys uuid allow-manual-set

Allow to set UUID manually.

```
diagnose sys uuid allow-manual-set
```

diagnose sys uuid allow-manual-set disable

Disable.

```
diagnose sys uuid allow-manual-set disable
```

diagnose sys uuid allow-manual-set enable

Enable.

```
diagnose sys uuid allow-manual-set enable
```

diagnose sys uuid generate

Generate a UUID.

```
diagnose sys uuid generate
```

diagnose sys var-zone

var-zone information.

```
diagnose sys var-zone
```

diagnose sys var-zone show

Show var-zone data.

```
diagnose sys var-zone show
```

diagnose sys vd

Virtual domain management.

```
diagnose sys vd
```

diagnose sys vd add

Add a Virtual System.

```
diagnose sys vd add <vdname>
```

Parameter	Description	Type	Size
<vdname>	Virtual Domain Name.	string	

diagnose sys vd delete

Delete a Virtual System.

```
diagnose sys vd delete <vdname>
```

Parameter	Description	Type	Size
<vdname>	Virtual Domain Name.	string	

diagnose sys vd list

List Virtual Domains.

```
diagnose sys vd list
```

diagnose sys vd set

Set current VDOM.

```
diagnose sys vd set <vdname>
```

Parameter	Description	Type	Size
<vdname>	Virtual Domain Name.	string	

diagnose sys vd stats

Show VDOM statistics.

```
diagnose sys vd stats
```

diagnose sys vlan

vlan

```
diagnose sys vlan
```

diagnose sys vlan list

List VLAN.

```
diagnose sys vlan list
```

diagnose sys vxlan

VXLAN diagnostics.

```
diagnose sys vxlan
```

diagnose sys vxlan device

VXLAN device.

```
diagnose sys vxlan device
```

diagnose sys vxlan fdb

VXLAN forwarding DB.

```
diagnose sys vxlan fdb
```

diagnose sys vxlan fdb list

Display VXLAN forwarding DB.

```
diagnose sys vxlan fdb list <string>
```

Parameter	Description	Type	Size
<string>	Interface name.	string	

diagnose test analytics-pdf-report

Retrieve analytics PDF report from FortiSandbox.

This topic includes the following commands:

- [diagnose test analytics-pdf-report list on page 1634](#)
- [diagnose test analytics-pdf-report max on page 1634](#)
- [diagnose test analytics-pdf-report request on page 1635](#)
- [diagnose test analytics-pdf-report status on page 1635](#)

diagnose test analytics-pdf-report list

List the PDF report requested.

```
diagnose test analytics-pdf-report list
```

diagnose test analytics-pdf-report max

Maximum number of PDF reports to cache in this FortiGate (<1> - <100>, default = 10).

```
diagnose test analytics-pdf-report max
```

diagnose test analytics-pdf-report request

Send the checksum of file to download.

```
diagnose test analytics-pdf-report request
```

diagnose test analytics-pdf-report status

Send the checksum of file to query status.

```
diagnose test analytics-pdf-report status
```

diagnose test analytics-report

Retrieve analytics report from FortiSandbox.

This topic includes the following commands:

- [diagnose test analytics-report checksum on page 1635](#)

diagnose test analytics-report checksum

Checksum of file to query.

```
diagnose test analytics-report checksum
```

diagnose test application

application

This topic includes the following commands:

- [diagnose test application acd on page 1637](#)
- [diagnose test application acsd on page 1637](#)
- [diagnose test application autod on page 1638](#)
- [diagnose test application awsd on page 1638](#)
- [diagnose test application azd on page 1638](#)
- [diagnose test application bfd on page 1638](#)
- [diagnose test application cloudapid on page 1638](#)
- [diagnose test application cmdbsvr on page 1639](#)
- [diagnose test application csfd on page 1639](#)
- [diagnose test application ddnsd on page 1639](#)

- [diagnose test application dhcp6c on page 1639](#)
- [diagnose test application dhcp6r on page 1640](#)
- [diagnose test application dhcprelay on page 1640](#)
- [diagnose test application dlpfingerprint on page 1640](#)
- [diagnose test application dlpfpcache on page 1640](#)
- [diagnose test application dnsproxy on page 1640](#)
- [diagnose test application dsd on page 1641](#)
- [diagnose test application eap_supp on page 1641](#)
- [diagnose test application evpn on page 1641](#)
- [diagnose test application fas on page 1641](#)
- [diagnose test application fcnacd on page 1642](#)
- [diagnose test application fds_notify on page 1642](#)
- [diagnose test application fgtlogd on page 1642](#)
- [diagnose test application fnbamd on page 1642](#)
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- [diagnose test application ipsengine on page 1646](#)
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- [diagnose test application ocid on page 1648](#)
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- [diagnose test application pcpd on page 1649](#)

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- [diagnose test application radius-das on page 1650](#)
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- [diagnose test application sessionsync on page 1652](#)
- [diagnose test application sfupgraded on page 1652](#)
- [diagnose test application smtp on page 1652](#)
- [diagnose test application snmpd on page 1652](#)
- [diagnose test application syslogd on page 1652](#)
- [diagnose test application updated on page 1653](#)
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- [diagnose test application urlfilter on page 1653](#)
- [diagnose test application vned on page 1653](#)
- [diagnose test application wad on page 1654](#)
- [diagnose test application wccpd on page 1654](#)
- [diagnose test application wf_monitor on page 1654](#)
- [diagnose test application wiredapd on page 1654](#)

diagnose test application acd

Aggregate Controller.

```
diagnose test application acd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application acsd

Ali Cloud Service daemon.

```
diagnose test application acsd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application autod

Automation daemon.

```
diagnose test application autod <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application awsd

Amazon Web Services (AWS) daemon.

```
diagnose test application awsd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application azd

Microsoft Azure daemon.

```
diagnose test application azd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application bfd

BFD daemon.

```
diagnose test application bfd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application cloudapid

Cloud service communication daemon.

```
diagnose test application cloudapid <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application cmdbsvr

cmdb server

```
diagnose test application cmdbsvr <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application csfd

Security Fabric daemon.

```
diagnose test application csfd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application ddnsd

DDNS client daemon.

```
diagnose test application ddnsd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application dhcp6c

DHCP6 client daemon.

```
diagnose test application dhcp6c <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application dhcp6r

DHCP6 relay daemon.

```
diagnose test application dhcp6r <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application dhcprelay

DHCP relay daemon.

```
diagnose test application dhcprelay <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application dlpfingerprint

DLP fingerprint daemon.

```
diagnose test application dlpfingerprint <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application dlpfpcache

DLP fingerprint cache daemon.

```
diagnose test application dlpfpcache <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application dnsproxy

DNS proxy.

```
diagnose test application dnsproxy <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application dsd

DLP Statistics daemon.

```
diagnose test application dsd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application eap_supp

EAP Supplicant daemon.

```
diagnose test application eap_supp <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application evpn

EVPN daemon.

```
diagnose test application evpn <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application fas

FortiToken Cloud daemon.

```
diagnose test application fas <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application fcnacd

FortiClient NAC daemon.

```
diagnose test application fcnacd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application fds_notify

Update Notification daemon.

```
diagnose test application fds_notify <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application fgtlogd

Fgtlog daemon.

```
diagnose test application fgtlogd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application fnbamd

FortiGate non-blocking auth daemon.

```
diagnose test application fnbamd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application forticldd

FortiCloud daemon.

```
diagnose test application forticldd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application forticron

Forticron daemon.

```
diagnose test application forticron <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application fsd

FortiExplorer daemon.

```
diagnose test application fsd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application fsvrd

FortiService daemon.

```
diagnose test application fsvrd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application gcpd

Google Cloud Platform (GCP) daemon.

```
diagnose test application gcpd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application harelay

HA relay daemon.

```
diagnose test application harelay <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application hasync

HA sync daemon.

```
diagnose test application hasync <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application hatalk

HA talk daemon.

```
diagnose test application hatalk <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application ibmd

IBM Cloud Infrastructure daemon.

```
diagnose test application ibmd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application imap

IMAP proxy.

```
diagnose test application imap <Integer>
```


Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application init

init process.

```
diagnose test application init <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application iotd

IoT device info daemon.

```
diagnose test application iotd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application ipamd

IP Address Management daemon.

```
diagnose test application ipamd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application ipamsd

IPAM server daemon.

```
diagnose test application ipamsd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application ipldbd

IP load balancing daemon.

```
diagnose test application ipldbd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application ipsengine

IPS sensor.

```
diagnose test application ipsengine <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application ipsmonitor

IPS monitor.

```
diagnose test application ipsmonitor <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application ipsufd

IPS urlfilter daemon.

```
diagnose test application ipsufd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application kmipd

KMIP daemon.

```
diagnose test application kmipd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application kubed

Kubernetes daemon.

```
diagnose test application kubed <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application l2tpcd

L2TP client daemon.

```
diagnose test application l2tpcd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application lnkmttd

Link monitor daemon.

```
diagnose test application lnkmttd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application locallogd

Locallogd daemon.

```
diagnose test application locallogd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application miglogd

Miglog logging daemon.

```
diagnose test application miglogd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application mrd

Mobile router daemon.

```
diagnose test application mrd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application netxd

VMWare NetX service manager daemon.

```
diagnose test application netxd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application nntp

NNTP proxy.

```
diagnose test application nntp <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application ocid

Oracle Cloud Infrastructure.

```
diagnose test application ocid <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application openstackd

OpenStack SDN connector daemon.

```
diagnose test application openstackd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application ovrd

Override daemon.

```
diagnose test application ovrd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application pcpd

PCP server daemon.

```
diagnose test application pcpd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application pop3

POP3 proxy.

```
diagnose test application pop3 <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application pptpcd

PPTP client.

```
diagnose test application pptpcd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application quarantined

Quarantine daemon.

```
diagnose test application quarantined <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application radius-das

Radius-das daemon.

```
diagnose test application radius-das <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application radiusd

RADIUS daemon.

```
diagnose test application radiusd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application radvd

radvd daemon.

```
diagnose test application radvd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application reportd

Report daemon.

```
diagnose test application reportd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application sdncd

SDN Connector daemon.

```
diagnose test application sdncd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application sdnd

SDN connector daemon.

```
diagnose test application sdnd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application sepmd

Symantec Endpoint Protection Manager daemon.

```
diagnose test application sepmd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application sessionsync

Session sync daemon.

```
diagnose test application sessionsync <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application sfupgraded

Security Fabric Upgrade daemon.

```
diagnose test application sfupgraded <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application smtp

SMTP proxy.

```
diagnose test application smtp <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application snmpd

SNMP daemon.

```
diagnose test application snmpd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application syslogd

Syslog daemon.

```
diagnose test application syslogd <Integer>
```


Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application updated

Update daemon.

```
diagnose test application updated <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application uploadd

Upload daemon.

```
diagnose test application uploadd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application urlfilter

URL filter daemon.

```
diagnose test application urlfilter <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application vned

Virtual network enabler daemon.

```
diagnose test application vned <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application wad

WAD related processes.

```
diagnose test application wad <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application wccpd

WCCP daemon.

```
diagnose test application wccpd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application wf_monitor

WF monitor.

```
diagnose test application wf_monitor <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test application wiredapd

Wiredapd daemon.

```
diagnose test application wiredapd <Integer>
```

Parameter	Description	Type	Size
<Integer>	Test level.	string	

diagnose test authserver

Test authentication server.

This topic includes the following commands:

- [diagnose test authserver cert on page 1655](#)
- [diagnose test authserver ext-idp on page 1655](#)
- [diagnose test authserver ldap on page 1655](#)
- [diagnose test authserver ldap-digest on page 1655](#)
- [diagnose test authserver ldap-direct on page 1655](#)
- [diagnose test authserver ldap-search on page 1656](#)
- [diagnose test authserver local on page 1656](#)
- [diagnose test authserver pop3 on page 1656](#)
- [diagnose test authserver radius on page 1656](#)
- [diagnose test authserver radius-direct on page 1656](#)
- [diagnose test authserver tacacs+ on page 1656](#)
- [diagnose test authserver tacacs+-direct on page 1656](#)
- [diagnose test authserver user on page 1657](#)

diagnose test authserver cert

Test certificate authentication.

```
diagnose test authserver cert
```

diagnose test authserver ext-idp

Test external identity provider.

```
diagnose test authserver ext-idp
```

diagnose test authserver ldap

Test LDAP server.

```
diagnose test authserver ldap
```

diagnose test authserver ldap-digest

Test LDAP HA1 password query.

```
diagnose test authserver ldap-digest
```

diagnose test authserver ldap-direct

Test LDAP server directly.

```
diagnose test authserver ldap-direct
```

diagnose test authserver ldap-search

Search LDAP server.

```
diagnose test authserver ldap-search
```

diagnose test authserver local

Test local user.

```
diagnose test authserver local
```

diagnose test authserver pop3

Test POP3 server.

```
diagnose test authserver pop3
```

diagnose test authserver radius

Test RADIUS server.

```
diagnose test authserver radius
```

diagnose test authserver radius-direct

Test RADIUS server directly.

```
diagnose test authserver radius-direct
```

diagnose test authserver tacacs+

test TACACS+ server.

```
diagnose test authserver tacacs+
```

diagnose test authserver tacacs+-direct

Test TACACS+ server directly.

```
diagnose test authserver tacacs+-direct
```

diagnose test authserver user

Test user with group/user ID/name(s).

```
diagnose test authserver user
```

diagnose test guest

Guest user add/delete/list.

This topic includes the following commands:

- [diagnose test guest add on page 1657](#)
- [diagnose test guest del on page 1657](#)
- [diagnose test guest list on page 1657](#)

diagnose test guest add

Add a guest user.

```
diagnose test guest add
```

diagnose test guest del

Delete guest users.

```
diagnose test guest del
```

diagnose test guest list

List guest users.

```
diagnose test guest list
```

diagnose test security

System security test.

This topic includes the following commands:

- [diagnose test security mount-invalid-flag on page 1658](#)
- [diagnose test security status on page 1658](#)

diagnose test security mount-invalid-flag

Test mounting with invalid flags.

```
diagnose test security mount-invalid-flag
```

diagnose test security status

Check system security enforcement status.

```
diagnose test security status
```

diagnose test update

Update daemon test.

This topic includes the following commands:

- [diagnose test update info on page 1658](#)
- [diagnose test update tzdb on page 1658](#)

diagnose test update info

Display debug info.

```
diagnose test update info
```

diagnose test update tzdb

Test TZDB.

```
diagnose test update tzdb
```

diagnose tpm

TPM chip diagnostic feature

This topic includes the following commands:

- [diagnose tpm SHA-1 on page 1659](#)
- [diagnose tpm SHA-256 on page 1659](#)
- [diagnose tpm generate-random-number on page 1659](#)

- [diagnose tpm get-property on page 1659](#)
- [diagnose tpm get-var-property on page 1659](#)
- [diagnose tpm read-clock on page 1660](#)
- [diagnose tpm selftest on page 1660](#)
- [diagnose tpm shutdown-prepare on page 1660](#)

diagnose tpm SHA-1

HASH a sequence of num with SHA-1 algo

```
diagnose tpm SHA-1 <Byte Sequence>
```

Parameter	Description	Type	Size
<Byte Sequence>	Enter a byte sequence like '0F56FE...' for {0x0f, 0x56, 0xfe, ...}	string	

diagnose tpm SHA-256

HASH a sequence of num with SHA-256 algo

```
diagnose tpm SHA-256 <Byte Sequence>
```

Parameter	Description	Type	Size
<Byte Sequence>	Enter a byte sequence like '0F56FE...' for {0x0f, 0x56, 0xfe, ...}	string	

diagnose tpm generate-random-number

Generate a 4-byte random number

```
diagnose tpm generate-random-number
```

diagnose tpm get-property

Get TPM properties.

```
diagnose tpm get-property
```

diagnose tpm get-var-property

Get TPM var properties.

```
diagnose tpm get-var-property
```

diagnose tpm read-clock

Read TPM internal clock.

```
diagnose tpm read-clock
```

diagnose tpm selftest

Perform self tests.

```
diagnose tpm selftest
```

diagnose tpm shutdown-prepare

Prepare for TPM power cycle.

```
diagnose tpm shutdown-prepare
```

diagnose traffictest

Offloading traffic test using internal TX/RX

This topic includes the following commands:

- [diagnose traffictest client-intf](#) on page 1660
- [diagnose traffictest port](#) on page 1661
- [diagnose traffictest proto](#) on page 1661
- [diagnose traffictest proto 0](#) on page 1661
- [diagnose traffictest proto 1](#) on page 1661
- [diagnose traffictest run](#) on page 1661
- [diagnose traffictest server-intf](#) on page 1661
- [diagnose traffictest show](#) on page 1662

diagnose traffictest client-intf

Client interface.

```
diagnose traffictest client-intf <string>
```

Parameter	Description	Type	Size
<string>	Interface name	string	

diagnose traffictest port

TCP or UDP port number (1 - 65535).

```
diagnose traffictest port <port>
```

Parameter	Description	Type	Size
<port>	Port number	string	

diagnose traffictest proto

0 for TCP or 1 for UDP (default = 0).

```
diagnose traffictest proto
```

diagnose traffictest proto 0

TCP

```
diagnose traffictest proto 0
```

diagnose traffictest proto 1

UDP

```
diagnose traffictest proto 1
```

diagnose traffictest run

Start traffic.

```
diagnose traffictest run [-h/arg] [arg]
```

Parameter	Description	Type	Size
[-h/arg]	Help/Multi-Arguments for client	string	
[arg]	Multi-Arguments for client	string	

diagnose traffictest server-intf

Server interface.

```
diagnose traffictest server-intf <string>
```

Parameter	Description	Type	Size
<string>	Interface name	string	

diagnose traffictest show

Traffic settings show

```
diagnose traffictest show
```

diagnose user

User

This topic includes the following commands:

- [diagnose user banned-ip on page 1663](#)
- [diagnose user banned-ip add on page 1663](#)
- [diagnose user banned-ip add src4 on page 1663](#)
- [diagnose user banned-ip add src6 on page 1663](#)
- [diagnose user banned-ip clear on page 1664](#)
- [diagnose user banned-ip delete on page 1664](#)
- [diagnose user banned-ip delete src4 on page 1664](#)
- [diagnose user banned-ip delete src6 on page 1664](#)
- [diagnose user banned-ip list on page 1664](#)
- [diagnose user banned-ip list all on page 1665](#)
- [diagnose user banned-ip list src4 on page 1665](#)
- [diagnose user banned-ip list src6 on page 1665](#)
- [diagnose user banned-ip stat on page 1665](#)
- [diagnose user banned-ip stress-test on page 1665](#)
- [diagnose user device on page 1665](#)
- [diagnose user device clear on page 1666](#)
- [diagnose user device del on page 1666](#)
- [diagnose user device filter on page 1666](#)
- [diagnose user device filter addr on page 1666](#)
- [diagnose user device filter clear on page 1666](#)
- [diagnose user device filter clear addr on page 1667](#)
- [diagnose user device filter clear generation on page 1667](#)
- [diagnose user device filter clear index on page 1667](#)
- [diagnose user device filter clear joined on page 1667](#)
- [diagnose user device filter clear vd on page 1667](#)
- [diagnose user device filter generation on page 1667](#)
- [diagnose user device filter joined on page 1668](#)
- [diagnose user device filter list on page 1668](#)

- [diagnose user device filter negate on page 1668](#)
- [diagnose user device filter negate addr on page 1668](#)
- [diagnose user device filter negate generation on page 1668](#)
- [diagnose user device filter negate index on page 1668](#)
- [diagnose user device filter negate joined on page 1668](#)
- [diagnose user device filter negate vd on page 1669](#)
- [diagnose user device filter vd on page 1669](#)
- [diagnose user device get on page 1669](#)
- [diagnose user device list on page 1669](#)
- [diagnose user device stats on page 1669](#)

diagnose user banned-ip

Banned IP addresses.

```
diagnose user banned-ip
```

diagnose user banned-ip add

Add banned IP address.

```
diagnose user banned-ip add
```

diagnose user banned-ip add src4

IPv4 source ban.

```
diagnose user banned-ip add src4 <src-ipv4> <expiry> <ban-source> <creation-timestamp>
```

Parameter	Description	Type	Size
<src-ipv4>	Source IPv4 address.	string	
<expiry>	Expiry in seconds.	string	
<ban-source>	Ban source (admin/dlp/ips/av/dos/app).	string	
<creation-timestamp>	Optional, unix timestamp (seconds) for the creation date	string	

diagnose user banned-ip add src6

IPv6 source ban.

```
diagnose user banned-ip add src6 <src-ipv6> <expiry> <ban-source> <creation-timestamp>
```

Parameter	Description	Type	Size
<src-ipv6>	Source IPv6 address.	string	
<expiry>	Expiry in seconds.	string	
<ban-source>	Ban source (admin/dlp/ips/av/dos/app).	string	
<creation-timestamp>	Optional, unix timestamp (seconds) for the creation date	string	

diagnose user banned-ip clear

Clear all banned IP addresses.

```
diagnose user banned-ip clear
```

diagnose user banned-ip delete

Delete banned IP address.

```
diagnose user banned-ip delete
```

diagnose user banned-ip delete src4

IPv4 source ban.

```
diagnose user banned-ip delete src4 <src-ipv4>
```

Parameter	Description	Type	Size
<src-ipv4>	Source IPv4 address.	string	

diagnose user banned-ip delete src6

IPv6 source ban.

```
diagnose user banned-ip delete src6 <src-ipv6>
```

Parameter	Description	Type	Size
<src-ipv6>	Source IPv6 address.	string	

diagnose user banned-ip list

List banned IPs.

```
diagnose user banned-ip list
```

diagnose user banned-ip list all

List all bans.

```
diagnose user banned-ip list all
```

diagnose user banned-ip list src4

IPv4 source ban.

```
diagnose user banned-ip list src4
```

diagnose user banned-ip list src6

IPv6 source ban.

```
diagnose user banned-ip list src6
```

diagnose user banned-ip stat

stat

```
diagnose user banned-ip stat
```

diagnose user banned-ip stress-test

IPv4 stress test for SRC bans.

```
diagnose user banned-ip stress-test <ipv4> <expiry> <ban-counts> <ban-source>
```

Parameter	Description	Type	Size
<ipv4>	Starting IPv4 address.	string	
<expiry>	Expiry in seconds.	string	
<ban-counts>	Number of banned IP addresses.	string	
<ban-source>	Ban source (admin/dlp/ips/av/dos/app).	string	

diagnose user device

User devices.

```
diagnose user device
```

diagnose user device clear

Clear discovered hosts.

```
diagnose user device clear
```

diagnose user device del

Remove a specific host.

```
diagnose user device del <mac>
```

Parameter	Description	Type	Size
<mac>	MAC address (xx:xx:xx:xx:xx:xx).	string	

diagnose user device filter

Filter for various src-vis diagnostics.

```
diagnose user device filter
```

diagnose user device filter addr

IPv4 address range.

```
diagnose user device filter addr <from> <to>
```

Parameter	Description	Type	Size
<from>	IPv4 address range.	string	
<to>	IPv4 address range.	string	

diagnose user device filter clear

Clear the filter or parameter.

```
diagnose user device filter clear
```

diagnose user device filter clear addr

Clear parameter.

```
diagnose user device filter clear addr
```

diagnose user device filter clear generation

Clear parameter.

```
diagnose user device filter clear generation
```

diagnose user device filter clear index

Clear parameter.

```
diagnose user device filter clear index
```

diagnose user device filter clear joined

Clear parameter.

```
diagnose user device filter clear joined
```

diagnose user device filter clear vd

Clear parameter.

```
diagnose user device filter clear vd
```

diagnose user device filter generation

Device generation.

```
diagnose user device filter generation <from> <to>
```

Parameter	Description	Type	Size
<from>	<from>	string	
<to>	<to>	string	

diagnose user device filter joined

Device is joined to another.

```
diagnose user device filter joined <value>
```

Parameter	Description	Type	Size
<value>	<value>	string	

diagnose user device filter list

Display the current filter.

```
diagnose user device filter list
```

diagnose user device filter negate

Negate the specified filter parameter.

```
diagnose user device filter negate
```

diagnose user device filter negate addr

Negate parameter.

```
diagnose user device filter negate addr
```

diagnose user device filter negate generation

Negate parameter.

```
diagnose user device filter negate generation
```

diagnose user device filter negate index

Negate parameter.

```
diagnose user device filter negate index
```

diagnose user device filter negate joined

Negate parameter.


```
diagnose user device filter negate joined
```

diagnose user device filter negate vd

Negate parameter.

```
diagnose user device filter negate vd
```

diagnose user device filter vd

Index of virtual domain.

```
diagnose user device filter vd <index>
```

Parameter	Description	Type	Size
<index>	Index of virtual domain.	string	

diagnose user device get

List a specific host.

```
diagnose user device get <mac>
```

Parameter	Description	Type	Size
<mac>	MAC address (xx:xx:xx:xx:xx:xx).	string	

diagnose user device list

List known hosts.

```
diagnose user device list
```

diagnose user device stats

User device stats.

```
diagnose user device stats
```

diagnose user-device-store

User device store diagnostics.

This topic includes the following commands:

- [diagnose user-device-store device on page 1671](#)
- [diagnose user-device-store device fortifone on page 1671](#)
- [diagnose user-device-store device fortifone add on page 1672](#)
- [diagnose user-device-store device fortifone delete on page 1672](#)
- [diagnose user-device-store device fortifone list on page 1672](#)
- [diagnose user-device-store device memory on page 1672](#)
- [diagnose user-device-store device memory list on page 1672](#)
- [diagnose user-device-store device memory mac-host on page 1672](#)
- [diagnose user-device-store device memory mac-host add on page 1672](#)
- [diagnose user-device-store device memory mac-host filter on page 1673](#)
- [diagnose user-device-store device memory mac-host modify on page 1673](#)
- [diagnose user-device-store device memory mac-host query on page 1673](#)
- [diagnose user-device-store device memory mac-host subscribe on page 1673](#)
- [diagnose user-device-store device memory mac-host subscribe disable on page 1673](#)
- [diagnose user-device-store device memory mac-host subscribe enable on page 1673](#)
- [diagnose user-device-store device memory mac-host validate on page 1674](#)
- [diagnose user-device-store device memory ot-purdue-set on page 1674](#)
- [diagnose user-device-store device memory query on page 1674](#)
- [diagnose user-device-store device memory uid on page 1674](#)
- [diagnose user-device-store device memory uid add on page 1674](#)
- [diagnose user-device-store device memory uid delete on page 1674](#)
- [diagnose user-device-store device memory uid update on page 1674](#)
- [diagnose user-device-store device memory vulnerability-detected on page 1675](#)
- [diagnose user-device-store device memory vulnerability-query on page 1675](#)
- [diagnose user-device-store device memory vulnerability-update on page 1675](#)
- [diagnose user-device-store device-stats-query on page 1675](#)
- [diagnose user-device-store device-stats-query filters-and on page 1675](#)
- [diagnose user-device-store device-stats-query filters-or on page 1675](#)
- [diagnose user-device-store email-stats on page 1676](#)
- [diagnose user-device-store email-stats list on page 1676](#)
- [diagnose user-device-store email-stats query on page 1676](#)
- [diagnose user-device-store fsw-device-stats-query on page 1676](#)
- [diagnose user-device-store fsw-device-stats-query filters-and on page 1676](#)
- [diagnose user-device-store fsw-device-stats-query filters-or on page 1676](#)
- [diagnose user-device-store ftcl-device-stats-query on page 1676](#)
- [diagnose user-device-store ftcl-device-stats-query filters-and on page 1677](#)
- [diagnose user-device-store ftcl-device-stats-query filters-or on page 1677](#)
- [diagnose user-device-store iot-ot-vuln on page 1677](#)
- [diagnose user-device-store iot-ot-vuln list on page 1677](#)

- [diagnose user-device-store iot-ot-vuln query on page 1677](#)
- [diagnose user-device-store unified on page 1677](#)
- [diagnose user-device-store unified clear on page 1677](#)
- [diagnose user-device-store unified debug on page 1678](#)
- [diagnose user-device-store unified debug disable on page 1678](#)
- [diagnose user-device-store unified debug enable on page 1678](#)
- [diagnose user-device-store unified delete on page 1678](#)
- [diagnose user-device-store unified device-memory-query on page 1678](#)
- [diagnose user-device-store unified device-memory-query filters-and on page 1678](#)
- [diagnose user-device-store unified device-memory-query filters-or on page 1678](#)
- [diagnose user-device-store unified device-query on page 1679](#)
- [diagnose user-device-store unified device-query filters-and on page 1679](#)
- [diagnose user-device-store unified device-query filters-or on page 1679](#)
- [diagnose user-device-store unified dump on page 1679](#)
- [diagnose user-device-store unified list on page 1679](#)
- [diagnose user-device-store unified re-query on page 1679](#)
- [diagnose user-device-store unified stats on page 1679](#)
- [diagnose user-device-store unified user-memory-query on page 1680](#)
- [diagnose user-device-store unified user-memory-query filters-and on page 1680](#)
- [diagnose user-device-store unified user-memory-query filters-or on page 1680](#)
- [diagnose user-device-store unified user-query on page 1680](#)
- [diagnose user-device-store unified user-query filters-and on page 1680](#)
- [diagnose user-device-store unified user-query filters-or on page 1680](#)
- [diagnose user-device-store user on page 1681](#)
- [diagnose user-device-store user memory on page 1681](#)
- [diagnose user-device-store user memory list on page 1681](#)
- [diagnose user-device-store user memory query on page 1681](#)
- [diagnose user-device-store user-count on page 1681](#)
- [diagnose user-device-store user-count list on page 1681](#)
- [diagnose user-device-store user-count query on page 1681](#)
- [diagnose user-device-store user-stats on page 1682](#)
- [diagnose user-device-store user-stats query on page 1682](#)

diagnose user-device-store device

Device sessions info.

```
diagnose user-device-store device
```

diagnose user-device-store device fortifone

Add/Delete FortiFone information.

```
diagnose user-device-store device fortifone
```

diagnose user-device-store device fortifone add

Test add FortiFone device by <mac> <ip> <extension> <name>.

```
diagnose user-device-store device fortifone add
```

diagnose user-device-store device fortifone delete

Test deleting a FortiFone device by <mac> <ip>.

```
diagnose user-device-store device fortifone delete
```

diagnose user-device-store device fortifone list

List FortiFone devices.

```
diagnose user-device-store device fortifone list
```

diagnose user-device-store device memory

In memory sessions info.

```
diagnose user-device-store device memory
```

diagnose user-device-store device memory list

List all records.

```
diagnose user-device-store device memory list
```

diagnose user-device-store device memory mac-host

Query/Add/Modify/Subscribe/Validate Operations on mac host.

```
diagnose user-device-store device memory mac-host
```

diagnose user-device-store device memory mac-host add

Add by <vdom> <mac> <ip> <interface-name>.

```
diagnose user-device-store device memory mac-host add
```

diagnose user-device-store device memory mac-host filter

Query mac host info with filter by <vdom> <mac> <ip-from> [ip-to].

```
diagnose user-device-store device memory mac-host filter
```

diagnose user-device-store device memory mac-host modify

Modify by <vdom> <mac> <ip>.

```
diagnose user-device-store device memory mac-host modify
```

diagnose user-device-store device memory mac-host query

Query mac host info by <vdom> <mac> [flags].

```
diagnose user-device-store device memory mac-host query
```

diagnose user-device-store device memory mac-host subscribe

Enable/disable subscribe to mac host notifications.

```
diagnose user-device-store device memory mac-host subscribe
```

diagnose user-device-store device memory mac-host subscribe disable

Disable subscribe for mac host notifications.

```
diagnose user-device-store device memory mac-host subscribe disable
```

diagnose user-device-store device memory mac-host subscribe enable

Enable subscribe for mac host notifications.

```
diagnose user-device-store device memory mac-host subscribe enable
```

diagnose user-device-store device memory mac-host validate

validate mac host with <vdom> <mac> <generation> [flags].

```
diagnose user-device-store device memory mac-host validate
```

diagnose user-device-store device memory ot-purdue-set

OT purdue level set.

```
diagnose user-device-store device memory ot-purdue-set
```

diagnose user-device-store device memory query

Query by <type> <op> <value1|value2|...

```
diagnose user-device-store device memory query
```

diagnose user-device-store device memory uid

In memory devices info with UID present.

```
diagnose user-device-store device memory uid
```

diagnose user-device-store device memory uid add

Test add UID devices by <count>.

```
diagnose user-device-store device memory uid add
```

diagnose user-device-store device memory uid delete

Test delete UID device by <uid> <mac> <ip>.

```
diagnose user-device-store device memory uid delete
```

diagnose user-device-store device memory uid update

Test update UID device by <uid> <tags-value-delimited-by-;>.

```
diagnose user-device-store device memory uid update
```

diagnose user-device-store device memory vulnerability-detected

Notify user-store a OT/IOT device is detected.

```
diagnose user-device-store device memory vulnerability-detected
```

diagnose user-device-store device memory vulnerability-query

Query device vulnerability info by MAC and IP.

```
diagnose user-device-store device memory vulnerability-query
```

diagnose user-device-store device memory vulnerability-update

Notify user-store a OT/IOT device is detected and query FGD without looking up in cache.

```
diagnose user-device-store device memory vulnerability-update
```

diagnose user-device-store device-stats-query

Device stats.

```
diagnose user-device-store device-stats-query
```

diagnose user-device-store device-stats-query filters-and

Query by <stats-type> <start-time> <end-time> <type1;op1;values1-delimited-by-|;type2;op2;values2-delimited-by-|...>

```
diagnose user-device-store device-stats-query filters-and
```

diagnose user-device-store device-stats-query filters-or

Query by <stats-type> <start-time> <end-time> <type1;op1;values1-delimited-by-|;type2;op2;values2-delimited-by-|...>

```
diagnose user-device-store device-stats-query filters-or
```

diagnose user-device-store email-stats

Email stats.

```
diagnose user-device-store email-stats
```

diagnose user-device-store email-stats list

List all records.

```
diagnose user-device-store email-stats list
```

diagnose user-device-store email-stats query

Query by <type> <op> <value1|value2|...>

```
diagnose user-device-store email-stats query
```

diagnose user-device-store fsw-device-stats-query

Fortiswitch Device stats.

```
diagnose user-device-store fsw-device-stats-query
```

diagnose user-device-store fsw-device-stats-query filters-and

Query by <stats-type> <start-time> <end-time> <type1;op1;values1-delimited-by-|;type2;op2;values2-delimited-by-|...>

```
diagnose user-device-store fsw-device-stats-query filters-and
```

diagnose user-device-store fsw-device-stats-query filters-or

Query by <stats-type> <start-time> <end-time> <type1;op1;values1-delimited-by-|;type2;op2;values2-delimited-by-|...>

```
diagnose user-device-store fsw-device-stats-query filters-or
```

diagnose user-device-store ftcl-device-stats-query

Forticlient Device stats.

```
diagnose user-device-store ftcl-device-stats-query
```


diagnose user-device-store ftcl-device-stats-query filters-and

Query by <stats-type> <start-time> <end-time> <type1;op1;values1-delimited-by-|;type2;op2;values2-delimited-by-|...>

```
diagnose user-device-store ftcl-device-stats-query filters-and
```

diagnose user-device-store ftcl-device-stats-query filters-or

Query by <stats-type> <start-time> <end-time> <type1;op1;values1-delimited-by-|;type2;op2;values2-delimited-by-|...>

```
diagnose user-device-store ftcl-device-stats-query filters-or
```

diagnose user-device-store iot-ot-vuln

IoT/OT Vulnerabilities.

```
diagnose user-device-store iot-ot-vuln
```

diagnose user-device-store iot-ot-vuln list

List all records.

```
diagnose user-device-store iot-ot-vuln list
```

diagnose user-device-store iot-ot-vuln query

Query by <type> <op> <value1|value2|...

```
diagnose user-device-store iot-ot-vuln query
```

diagnose user-device-store unified

Unified queries info.

```
diagnose user-device-store unified
```

diagnose user-device-store unified clear

Delete all unified queries.

```
diagnose user-device-store unified clear
```

diagnose user-device-store unified debug

Enable/Disable debug logs for unified queries.

```
diagnose user-device-store unified debug
```

diagnose user-device-store unified debug disable

Disable debug logs for unified queries.

```
diagnose user-device-store unified debug disable
```

diagnose user-device-store unified debug enable

Enable debug logs for unified queries.

```
diagnose user-device-store unified debug enable
```

diagnose user-device-store unified delete

Delete unified query by <query-id>.

```
diagnose user-device-store unified delete
```

diagnose user-device-store unified device-memory-query

Get Device records along with associated User records from memory.

```
diagnose user-device-store unified device-memory-query
```

diagnose user-device-store unified device-memory-query filters-and

Query by <iteration-count> <type1;op1;values1-delimited-by-|;type2;op2;values2-delimited-by-|...>

```
diagnose user-device-store unified device-memory-query filters-and
```

diagnose user-device-store unified device-memory-query filters-or

Query by <iteration-count> <type1;op1;values1-delimited-by-|;type2;op2;values2-delimited-by-|...>

```
diagnose user-device-store unified device-memory-query filters-or
```

diagnose user-device-store unified device-query

Get Device records along with associated User records from memory and disk.

```
diagnose user-device-store unified device-query
```

diagnose user-device-store unified device-query filters-and

Query by <iteration-count> <start-time> <end-time> <type1;op1;values1-delimited-by-|;type2;op2;values2-delimited-by-|...>

```
diagnose user-device-store unified device-query filters-and
```

diagnose user-device-store unified device-query filters-or

Query by <iteration-count> <start-time> <end-time> <type1;op1;values1-delimited-by-|;type2;op2;values2-delimited-by-|...>

```
diagnose user-device-store unified device-query filters-or
```

diagnose user-device-store unified dump

Dump unified query stats by <query-id>.

```
diagnose user-device-store unified dump
```

diagnose user-device-store unified list

List unified queries.

```
diagnose user-device-store unified list
```

diagnose user-device-store unified re-query

Retrieve Query by <query-id> <iteration-start> <iteration-count>

```
diagnose user-device-store unified re-query
```

diagnose user-device-store unified stats

Get Stats for unified queries.

```
diagnose user-device-store unified stats
```

diagnose user-device-store unified user-memory-query

Get User records along with associated Device records from memory.

```
diagnose user-device-store unified user-memory-query
```

diagnose user-device-store unified user-memory-query filters-and

Query by <iteration-count> <type1;op1;values1-delimited-by-|;type2;op2;values2-delimited-by-|...>

```
diagnose user-device-store unified user-memory-query filters-and
```

diagnose user-device-store unified user-memory-query filters-or

Query by <iteration-count> <type1;op1;values1-delimited-by-|;type2;op2;values2-delimited-by-|...>

```
diagnose user-device-store unified user-memory-query filters-or
```

diagnose user-device-store unified user-query

Get User records along with associated Device records from memory and disk.

```
diagnose user-device-store unified user-query
```

diagnose user-device-store unified user-query filters-and

Query by <iteration-count> <start-time> <end-time> <type1;op1;values1-delimited-by-|;type2;op2;values2-delimited-by-|...>

```
diagnose user-device-store unified user-query filters-and
```

diagnose user-device-store unified user-query filters-or

Query by <iteration-count> <start-time> <end-time> <type1;op1;values1-delimited-by-|;type2;op2;values2-delimited-by-|...>

```
diagnose user-device-store unified user-query filters-or
```

diagnose user-device-store user

User sessions info.

```
diagnose user-device-store user
```

diagnose user-device-store user memory

In memory sessions info.

```
diagnose user-device-store user memory
```

diagnose user-device-store user memory list

List all records.

```
diagnose user-device-store user memory list
```

diagnose user-device-store user memory query

Query by <type> <op> <value1|value2|...>.

```
diagnose user-device-store user memory query
```

diagnose user-device-store user-count

User count info.

```
diagnose user-device-store user-count
```

diagnose user-device-store user-count list

List all group user count records.

```
diagnose user-device-store user-count list
```

diagnose user-device-store user-count query

Query by groupname <value>.

```
diagnose user-device-store user-count query
```

diagnose user-device-store user-stats

User stats.

```
diagnose user-device-store user-stats
```

diagnose user-device-store user-stats query

Query by <yyyy-mm-dd> <time-range days>

```
diagnose user-device-store user-stats query
```

diagnose vendor-mac

Vendor MAC Database.

This topic includes the following commands:

- [diagnose vendor-mac id on page 1682](#)
- [diagnose vendor-mac id-summary on page 1682](#)
- [diagnose vendor-mac info on page 1683](#)
- [diagnose vendor-mac match on page 1683](#)

diagnose vendor-mac id

Vendor MAC ID.

```
diagnose vendor-mac id <id>
```

Parameter	Description	Type	Size
<id>	Vendor MAC ID (a nonzero integer).	string	

diagnose vendor-mac id-summary

Vendor MAC ID summary.

```
diagnose vendor-mac id-summary <id>
```

Parameter	Description	Type	Size
<id>	Vendor MAC ID (a nonzero integer).	string	

diagnose vendor-mac info

MAC Address information.

```
diagnose vendor-mac info <xx:xx:xx:xx:xx:xx>
```

Parameter	Description	Type	Size
<xx:xx:xx:xx:xx:xx>	Service MAC address.	string	

diagnose vendor-mac match

Find Vendor MAC for a specific MAC address and mask.

```
diagnose vendor-mac match <xx:xx:xx:xx:xx:xx> <mask>
```

Parameter	Description	Type	Size
<xx:xx:xx:xx:xx:xx>	MAC address.	string	
<mask>	mask (0 - 48).	string	

diagnose vmware

VMWare platform diagnose commands.

This topic includes the following commands:

- [diagnose vmware ovfenv on page 1683](#)

diagnose vmware ovfenv

Display OVF environment information.

```
diagnose vmware ovfenv
```

diagnose vpn ssl

SSL-VPN.

```
diagnose vpn ssl
```

diagnose wacs

Web cache DB daemon.

This topic includes the following commands:

- [diagnose wacs clear on page 1684](#)
- [diagnose wacs restart on page 1684](#)
- [diagnose wacs stats on page 1684](#)

diagnose wacs clear

Remove all entries from the database.

```
diagnose wacs clear
```

diagnose wacs restart

Restart the daemon and reset the statistical parameters.

```
diagnose wacs restart
```

diagnose wacs stats

Show statistics.

```
diagnose wacs stats
```

diagnose wad

WAD diagnostics.

This topic includes the following commands:

- [diagnose wad access-proxy on page 1697](#)
- [diagnose wad access-proxy health-check on page 1697](#)
- [diagnose wad access-proxy health-check status on page 1697](#)
- [diagnose wad config on page 1697](#)
- [diagnose wad config auth-rule on page 1698](#)
- [diagnose wad config policy on page 1698](#)
- [diagnose wad config proxy-policy on page 1698](#)
- [diagnose wad config summary on page 1698](#)
- [diagnose wad console-log on page 1698](#)

- [diagnose wad console-log disable on page 1698](#)
- [diagnose wad console-log enable on page 1698](#)
- [diagnose wad csvc on page 1699](#)
- [diagnose wad csvc bytcache on page 1699](#)
- [diagnose wad csvc bytcache clear on page 1699](#)
- [diagnose wad csvc bytcache flush on page 1699](#)
- [diagnose wad csvc bytcache lists on page 1699](#)
- [diagnose wad csvc bytcache stats on page 1699](#)
- [diagnose wad csvc bytcache toggle on page 1700](#)
- [diagnose wad csvc bytcache toggle all on page 1700](#)
- [diagnose wad csvc bytcache toggle create on page 1700](#)
- [diagnose wad csvc bytcache toggle read on page 1700](#)
- [diagnose wad csvc memcache on page 1700](#)
- [diagnose wad csvc memcache clear on page 1701](#)
- [diagnose wad csvc memcache flush on page 1701](#)
- [diagnose wad csvc memcache lists on page 1701](#)
- [diagnose wad csvc memcache stats on page 1701](#)
- [diagnose wad csvc restart on page 1701](#)
- [diagnose wad csvc webcache on page 1702](#)
- [diagnose wad csvc webcache clear on page 1702](#)
- [diagnose wad csvc webcache flush on page 1702](#)
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- [diagnose wad csvc webcache stats on page 1703](#)
- [diagnose wad csvc webcache toggle on page 1703](#)
- [diagnose wad csvc webcache toggle abort on page 1703](#)
- [diagnose wad csvc webcache toggle add_ref on page 1703](#)
- [diagnose wad csvc webcache toggle all on page 1703](#)
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- [diagnose wad csvc webcache toggle update on page 1705](#)
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- [diagnose wad debug crash on page 1705](#)
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- [diagnose wad debug disable category antiphish on page 1707](#)
- [diagnose wad debug disable category auth on page 1707](#)
- [diagnose wad debug disable category autotest on page 1707](#)
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- [diagnose wad debug disable category ssh on page 1713](#)
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- [diagnose wad debug disable category webcache on page 1715](#)
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- [diagnose wad debug enable category aio on page 1716](#)
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- [diagnose wad debug enable category diag on page 1718](#)
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- [diagnose wad debug enable category waf on page 1724](#)
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diagnose wad access-proxy

Show connectivity status with the real server.

```
diagnose wad access-proxy
```

diagnose wad access-proxy health-check

Show connectivity status with the real server.

```
diagnose wad access-proxy health-check
```

diagnose wad access-proxy health-check status

Show connectivity status with the real server.

```
diagnose wad access-proxy health-check status
```

diagnose wad config

CMDB share memroy.

```
diagnose wad config
```

diagnose wad config auth-rule

list firewall authentication rule

```
diagnose wad config auth-rule
```

diagnose wad config policy

list firewall policy details

```
diagnose wad config policy
```

diagnose wad config proxy-policy

list firewall explicit policy details

```
diagnose wad config proxy-policy
```

diagnose wad config summary

list basic stats while building share memory

```
diagnose wad config summary
```

diagnose wad console-log

Send WAD log messages to the console.

```
diagnose wad console-log
```

diagnose wad console-log disable

Disable logging.

```
diagnose wad console-log disable
```

diagnose wad console-log enable

Enable logging.

```
diagnose wad console-log enable
```

diagnose wad csvc

Cache service diagnostics.

```
diagnose wad csvc
```

diagnose wad csvc bytecache

Bytecache diagnostics.

```
diagnose wad csvc bytecache
```

diagnose wad csvc bytecache clear

Purge all entries.

```
diagnose wad csvc bytecache clear [<index>]
```

Parameter	Description	Type	Size
[<index>]	CSVC index or all cache services if not set.	string	

diagnose wad csvc bytecache flush

Reset statistics.

```
diagnose wad csvc bytecache flush [<index>]
```

Parameter	Description	Type	Size
[<index>]	CSVC index or all cache services if not set.	string	

diagnose wad csvc bytecache lists

Show entry lists.

```
diagnose wad csvc bytecache lists [<index>]
```

Parameter	Description	Type	Size
[<index>]	CSVC index or all cache services if not set.	string	

diagnose wad csvc bytecache stats

Show statistics.

```
diagnose wad csvc bytecache stats [<index>]
```

Parameter	Description	Type	Size
[<index>]	CSVC index or all cache services if not set.	string	

diagnose wad csvc bytecache toggle

Toggle operations to storage.

```
diagnose wad csvc bytecache toggle
```

diagnose wad csvc bytecache toggle all

Set/unset all operations as busy.

```
diagnose wad csvc bytecache toggle all [<index>]
```

Parameter	Description	Type	Size
[<index>]	CSVC index or all cache services if not set.	string	

diagnose wad csvc bytecache toggle create

Toggle create as busy.

```
diagnose wad csvc bytecache toggle create [<index>]
```

Parameter	Description	Type	Size
[<index>]	CSVC index or all cache services if not set.	string	

diagnose wad csvc bytecache toggle read

Toggle read as busy.

```
diagnose wad csvc bytecache toggle read [<index>]
```

Parameter	Description	Type	Size
[<index>]	CSVC index or all cache services if not set.	string	

diagnose wad csvc memcache

Memcache diagnostics.


```
diagnose wad csvc memcache
```

diagnose wad csvc memcache clear

Purge all entries.

```
diagnose wad csvc memcache clear [<index>]
```

Parameter	Description	Type	Size
[<index>]	CSVC index or all cache services if not set.	string	

diagnose wad csvc memcache flush

Reset statistics.

```
diagnose wad csvc memcache flush [<index>]
```

Parameter	Description	Type	Size
[<index>]	CSVC index or all cache services if not set.	string	

diagnose wad csvc memcache lists

Show entry lists.

```
diagnose wad csvc memcache lists [<index>]
```

Parameter	Description	Type	Size
[<index>]	CSVC index or all cache services if not set.	string	

diagnose wad csvc memcache stats

Show statistics.

```
diagnose wad csvc memcache stats [<index>]
```

Parameter	Description	Type	Size
[<index>]	CSVC index or all cache services if not set.	string	

diagnose wad csvc restart

Restart cache service.

```
diagnose wad csvc restart [<type>] [<index>]
```

Parameter	Description	Type	Size
[<type>]	CSVC type {0:web_cache, 1:byte_and_mem_cache} or all if not set.	string	
[<index>]	CSVC index or all cache services if not set.	string	

diagnose wad csvc webcache

Webcache diagnostics.

```
diagnose wad csvc webcache
```

diagnose wad csvc webcache clear

Purge all entries.

```
diagnose wad csvc webcache clear [<index>]
```

Parameter	Description	Type	Size
[<index>]	CSVC index or all cache services if not set.	string	

diagnose wad csvc webcache flush

Reset statistics.

```
diagnose wad csvc webcache flush [<index>]
```

Parameter	Description	Type	Size
[<index>]	CSVC index or all cache services if not set.	string	

diagnose wad csvc webcache lists

Show entry lists.

```
diagnose wad csvc webcache lists [<index>]
```

Parameter	Description	Type	Size
[<index>]	CSVC index or all cache services if not set.	string	

diagnose wad csvc webcache stats

Show statistics.

```
diagnose wad csvc webcache stats [<index>]
```

Parameter	Description	Type	Size
[<index>]	CSVC index or all cache services if not set.	string	

diagnose wad csvc webcache toggle

Toggle operations to storage.

```
diagnose wad csvc webcache toggle
```

diagnose wad csvc webcache toggle abort

Toggle abort as busy.

```
diagnose wad csvc webcache toggle abort [<index>]
```

Parameter	Description	Type	Size
[<index>]	CSVC index or all cache services if not set.	string	

diagnose wad csvc webcache toggle add_ref

Toggle add_ref as busy.

```
diagnose wad csvc webcache toggle add_ref [<index>]
```

Parameter	Description	Type	Size
[<index>]	CSVC index or all cache services if not set.	string	

diagnose wad csvc webcache toggle all

Set/unset all operations as busy.

```
diagnose wad csvc webcache toggle all [<index>]
```

Parameter	Description	Type	Size
[<index>]	CSVC index or all cache services if not set.	string	

diagnose wad csvc webcache toggle append

Toggle append as busy.

```
diagnose wad csvc webcache toggle append [<index>]
```

Parameter	Description	Type	Size
[<index>]	CSVC index or all cache services if not set.	string	

diagnose wad csvc webcache toggle create

Toggle create as busy.

```
diagnose wad csvc webcache toggle create [<index>]
```

Parameter	Description	Type	Size
[<index>]	CSVC index or all cache services if not set.	string	

diagnose wad csvc webcache toggle read

Toggle read as busy.

```
diagnose wad csvc webcache toggle read [<index>]
```

Parameter	Description	Type	Size
[<index>]	CSVC index or all cache services if not set.	string	

diagnose wad csvc webcache toggle remove

Toggle remove as busy.

```
diagnose wad csvc webcache toggle remove [<index>]
```

Parameter	Description	Type	Size
[<index>]	CSVC index or all cache services if not set.	string	

diagnose wad csvc webcache toggle resolve

Toggle resolve as busy.

```
diagnose wad csvc webcache toggle resolve [<index>]
```

Parameter	Description	Type	Size
[<index>]	CSV index or all cache services if not set.	string	

diagnose wad csvc webcache toggle update

Toggle update as busy.

```
diagnose wad csvc webcache toggle update [<index>]
```

Parameter	Description	Type	Size
[<index>]	CSV index or all cache services if not set.	string	

diagnose wad debug

Debug setting.

```
diagnose wad debug
```

diagnose wad debug clear

Clear debug setting.

```
diagnose wad debug clear
```

diagnose wad debug crash

Saved debug message.

```
diagnose wad debug crash
```

diagnose wad debug crash clear

Clear saved debug log.

```
diagnose wad debug crash clear
```

diagnose wad debug crash disable

Disable saving debug messages when process crashes.

```
diagnose wad debug crash disable
```

diagnose wad debug crash enable

Enable saving debug messages when process crashes.

```
diagnose wad debug crash enable
```

diagnose wad debug crash list

List a summary of crash logs.

```
diagnose wad debug crash list
```

diagnose wad debug crash max

Max save size. 1-10 (MB)

```
diagnose wad debug crash max <size>
```

Parameter	Description	Type	Size
<size>	1-10 (MB).	string	

diagnose wad debug crash read

Display saved debug log.

```
diagnose wad debug crash read <proc_type> <id>
```

Parameter	Description	Type	Size
<proc_type>	Please input proc_type number.	string	
<id>	Please input crash id.	string	

diagnose wad debug disable

Disable debug setting.

```
diagnose wad debug disable
```

diagnose wad debug disable category

Category debug setting.

```
diagnose wad debug disable category
```

diagnose wad debug disable category aio

async io

```
diagnose wad debug disable category aio
```

diagnose wad debug disable category antiphish

Anti-Phishing

```
diagnose wad debug disable category antiphish
```

diagnose wad debug disable category auth

authentication

```
diagnose wad debug disable category auth
```

diagnose wad debug disable category autotest

auto test

```
diagnose wad debug disable category autotest
```

diagnose wad debug disable category bytcache

byte cache

```
diagnose wad debug disable category bytcache
```

diagnose wad debug disable category cache_server

reverse cache server

```
diagnose wad debug disable category cache_server
```

diagnose wad debug disable category casb

casb

```
diagnose wad debug disable category casb
```

diagnose wad debug disable category cifs

cifs

```
diagnose wad debug disable category cifs
```

diagnose wad debug disable category cmgr

certificate management

```
diagnose wad debug disable category cmgr
```

diagnose wad debug disable category config

learn config

```
diagnose wad debug disable category config
```

diagnose wad debug disable category csvc

cache service

```
diagnose wad debug disable category csvc
```

diagnose wad debug disable category detail

troubleshoot detail

```
diagnose wad debug disable category detail
```

diagnose wad debug disable category devuln

device vulnerability

```
diagnose wad debug disable category devuln
```

diagnose wad debug disable category diag

debug daemon

```
diagnose wad debug disable category diag
```


diagnose wad debug disable category dispatcher

dispatcher

```
diagnose wad debug disable category dispatcher
```

diagnose wad debug disable category dns

DNS proxy

```
diagnose wad debug disable category dns
```

diagnose wad debug disable category dskd

cache disks

```
diagnose wad debug disable category dskd
```

diagnose wad debug disable category email

user email stats

```
diagnose wad debug disable category email
```

diagnose wad debug disable category extension

implicit proxy extension

```
diagnose wad debug disable category extension
```

diagnose wad debug disable category ftp

ftp

```
diagnose wad debug disable category ftp
```

diagnose wad debug disable category http

http

```
diagnose wad debug disable category http
```

diagnose wad debug disable category http2

http2

```
diagnose wad debug disable category http2
```

diagnose wad debug disable category http3

http3

```
diagnose wad debug disable category http3
```

diagnose wad debug disable category icap

icap

```
diagnose wad debug disable category icap
```

diagnose wad debug disable category icap_server

Local ICAP server

```
diagnose wad debug disable category icap_server
```

diagnose wad debug disable category icbsvc

icb service

```
diagnose wad debug disable category icbsvc
```

diagnose wad debug disable category info

user device info

```
diagnose wad debug disable category info
```

diagnose wad debug disable category ips

ips

```
diagnose wad debug disable category ips
```

diagnose wad debug disable category isolator

isolator

diagnose wad debug disable category isolator

diagnose wad debug disable category license

license

diagnose wad debug disable category license

diagnose wad debug disable category mapi

mapi

diagnose wad debug disable category mapi

diagnose wad debug disable category memblk

memory block

diagnose wad debug disable category memblk

diagnose wad debug disable category monitor

worker health monitor

diagnose wad debug disable category monitor

diagnose wad debug disable category packet

packet

diagnose wad debug disable category packet

diagnose wad debug disable category policy

policy matching

diagnose wad debug disable category policy

diagnose wad debug disable category policy_test

firewall policy test

```
diagnose wad debug disable category policy_test
```

diagnose wad debug disable category proc

process management

```
diagnose wad debug disable category proc
```

diagnose wad debug disable category quic

quic

```
diagnose wad debug disable category quic
```

diagnose wad debug disable category quic_cc

quic congestion control and loss detection

```
diagnose wad debug disable category quic_cc
```

diagnose wad debug disable category rev_conn

ztna reverse connector

```
diagnose wad debug disable category rev_conn
```

diagnose wad debug disable category rpc

rpc

```
diagnose wad debug disable category rpc
```

diagnose wad debug disable category scan

UTM scan

```
diagnose wad debug disable category scan
```

diagnose wad debug disable category scp

scp

```
diagnose wad debug disable category scp
```

diagnose wad debug disable category session

session

```
diagnose wad debug disable category session
```

diagnose wad debug disable category sftp

sftp

```
diagnose wad debug disable category sftp
```

diagnose wad debug disable category socks

socks

```
diagnose wad debug disable category socks
```

diagnose wad debug disable category ssh

ssh

```
diagnose wad debug disable category ssh
```

diagnose wad debug disable category ssl

ssl

```
diagnose wad debug disable category ssl
```

diagnose wad debug disable category stream

stream

```
diagnose wad debug disable category stream
```

diagnose wad debug disable category svc_conn

ztna service connector

```
diagnose wad debug disable category svc_conn
```

diagnose wad debug disable category sys

sys

```
diagnose wad debug disable category sys
```

diagnose wad debug disable category tls_fingerprint

tls fintgerprint

```
diagnose wad debug disable category tls_fingerprint
```

diagnose wad debug disable category tunnel

wanopt tunnel

```
diagnose wad debug disable category tunnel
```

diagnose wad debug disable category uih

uih

```
diagnose wad debug disable category uih
```

diagnose wad debug disable category video

cache video

```
diagnose wad debug disable category video
```

diagnose wad debug disable category vs

virtual server

```
diagnose wad debug disable category vs
```

diagnose wad debug disable category waf

waf

```
diagnose wad debug disable category waf
```

diagnose wad debug disable category webcache

webcache

```
diagnose wad debug disable category webcache
```

diagnose wad debug disable category ztna_portal

ztna web portal

```
diagnose wad debug disable category ztna_portal
```

diagnose wad debug display

Display setting.

```
diagnose wad debug display
```

diagnose wad debug display pid

Pid display in the trace.

```
diagnose wad debug display pid
```

diagnose wad debug display pid disable

Disable pid display.

```
diagnose wad debug display pid disable
```

diagnose wad debug display pid enable

Enable pid display.

```
diagnose wad debug display pid enable
```

diagnose wad debug enable

Enable debug setting.

```
diagnose wad debug enable
```

diagnose wad debug enable all

Enable all debug categories and set to the maximum level.

```
diagnose wad debug enable all
```

diagnose wad debug enable category

Category debug setting.

```
diagnose wad debug enable category
```

diagnose wad debug enable category aio

async io

```
diagnose wad debug enable category aio
```

diagnose wad debug enable category all

all category

```
diagnose wad debug enable category all
```

diagnose wad debug enable category antiphish

Anti-Phishing

```
diagnose wad debug enable category antiphish
```

diagnose wad debug enable category auth

authentication

```
diagnose wad debug enable category auth
```


diagnose wad debug enable category autotest

auto test

```
diagnose wad debug enable category autotest
```

diagnose wad debug enable category bytecache

byte cache

```
diagnose wad debug enable category bytecache
```

diagnose wad debug enable category cache_server

reverse cache server

```
diagnose wad debug enable category cache_server
```

diagnose wad debug enable category casb

casb

```
diagnose wad debug enable category casb
```

diagnose wad debug enable category cifs

cifs

```
diagnose wad debug enable category cifs
```

diagnose wad debug enable category cmgr

certificate management

```
diagnose wad debug enable category cmgr
```

diagnose wad debug enable category config

learn config

```
diagnose wad debug enable category config
```

diagnose wad debug enable category csvc

cache service

```
diagnose wad debug enable category csvc
```

diagnose wad debug enable category detail

troubleshoot detail

```
diagnose wad debug enable category detail
```

diagnose wad debug enable category devuln

device vulnerability

```
diagnose wad debug enable category devuln
```

diagnose wad debug enable category diag

debug daemon

```
diagnose wad debug enable category diag
```

diagnose wad debug enable category dispatcher

dispatcher

```
diagnose wad debug enable category dispatcher
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diagnose wad debug enable category dns

DNS proxy

```
diagnose wad debug enable category dns
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diagnose wad debug enable category dskd

cache disks

```
diagnose wad debug enable category dskd
```

diagnose wad debug enable category email

user email stats

```
diagnose wad debug enable category email
```

diagnose wad debug enable category extension

implicit proxy extension

```
diagnose wad debug enable category extension
```

diagnose wad debug enable category ftp

ftp

```
diagnose wad debug enable category ftp
```

diagnose wad debug enable category http

http

```
diagnose wad debug enable category http
```

diagnose wad debug enable category http2

http2

```
diagnose wad debug enable category http2
```

diagnose wad debug enable category http3

http3

```
diagnose wad debug enable category http3
```

diagnose wad debug enable category icap

icap

```
diagnose wad debug enable category icap
```

diagnose wad debug enable category icap_server

Local ICAP server

```
diagnose wad debug enable category icap_server
```

diagnose wad debug enable category icbsvc

icb service

```
diagnose wad debug enable category icbsvc
```

diagnose wad debug enable category info

user device info

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diagnose wad debug enable category info
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diagnose wad debug enable category ips

ips

```
diagnose wad debug enable category ips
```

diagnose wad debug enable category isolator

isolator

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diagnose wad debug enable category isolator
```

diagnose wad debug enable category license

license

```
diagnose wad debug enable category license
```

diagnose wad debug enable category mapi

mapi

```
diagnose wad debug enable category mapi
```

diagnose wad debug enable category memblk

memory block

```
diagnose wad debug enable category memblk
```

diagnose wad debug enable category monitor

worker health monitor

```
diagnose wad debug enable category monitor
```

diagnose wad debug enable category packet

packet

```
diagnose wad debug enable category packet
```

diagnose wad debug enable category policy

policy matching

```
diagnose wad debug enable category policy
```

diagnose wad debug enable category policy_test

firewall policy test

```
diagnose wad debug enable category policy_test
```

diagnose wad debug enable category proc

process management

```
diagnose wad debug enable category proc
```

diagnose wad debug enable category quic

quic

```
diagnose wad debug enable category quic
```

diagnose wad debug enable category quic_cc

quic congestion control and loss detection

```
diagnose wad debug enable category quic_cc
```

diagnose wad debug enable category rev_conn

ztna reverse connector

```
diagnose wad debug enable category rev_conn
```

diagnose wad debug enable category rpc

rpc

```
diagnose wad debug enable category rpc
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diagnose wad debug enable category scan

UTM scan

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diagnose wad debug enable category scan
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diagnose wad debug enable category scp

scp

```
diagnose wad debug enable category scp
```

diagnose wad debug enable category session

session

```
diagnose wad debug enable category session
```

diagnose wad debug enable category sftp

sftp

```
diagnose wad debug enable category sftp
```

diagnose wad debug enable category socks

socks

```
diagnose wad debug enable category socks
```

diagnose wad debug enable category ssh

ssh

```
diagnose wad debug enable category ssh
```

diagnose wad debug enable category ssl

ssl

```
diagnose wad debug enable category ssl
```

diagnose wad debug enable category stream

stream

```
diagnose wad debug enable category stream
```

diagnose wad debug enable category svc_conn

ztna service connector

```
diagnose wad debug enable category svc_conn
```

diagnose wad debug enable category sys

sys

```
diagnose wad debug enable category sys
```

diagnose wad debug enable category tls_fingerprint

tls fingerprint

```
diagnose wad debug enable category tls_fingerprint
```

diagnose wad debug enable category tunnel

wanopt tunnel

```
diagnose wad debug enable category tunnel
```

diagnose wad debug enable category uih

uih

```
diagnose wad debug enable category uih
```

diagnose wad debug enable category video

cache video

```
diagnose wad debug enable category video
```

diagnose wad debug enable category vs

virtual server

```
diagnose wad debug enable category vs
```

diagnose wad debug enable category waf

waf

```
diagnose wad debug enable category waf
```

diagnose wad debug enable category webcache

webcache

```
diagnose wad debug enable category webcache
```

diagnose wad debug enable category ztna_portal

ztna web portal

```
diagnose wad debug enable category ztna_portal
```


diagnose wad debug enable level

Level debug setting.

```
diagnose wad debug enable level
```

diagnose wad debug enable level error

error

```
diagnose wad debug enable level error
```

diagnose wad debug enable level info

information

```
diagnose wad debug enable level info
```

diagnose wad debug enable level verbose

verbose

```
diagnose wad debug enable level verbose
```

diagnose wad debug enable level warn

warning

```
diagnose wad debug enable level warn
```

diagnose wad debug ips-db

Inline-IPS database.

```
diagnose wad debug ips-db
```

diagnose wad debug ips-db status

Inline-IPS database status.

```
diagnose wad debug ips-db status
```

diagnose wad debug ips-filter

Inline IPS debug filter setting.

```
diagnose wad debug ips-filter
```

diagnose wad debug ips-filter aid

Enable debug for a list of attack IDs.

```
diagnose wad debug ips-filter aid <id,id,...>
```

Parameter	Description	Type	Size
<id,id,...>	Attack IDs	string	

diagnose wad debug ips-filter all

Enable debug filter for all rules

```
diagnose wad debug ips-filter all
```

diagnose wad debug ips-filter clear

Clear debug filter

```
diagnose wad debug ips-filter clear
```

diagnose wad debug ips-filter show

Show current debug filter

```
diagnose wad debug ips-filter show
```

diagnose wad debug ips-filter vid

Enable debug for a list of vulnerability IDs.

```
diagnose wad debug ips-filter vid <id,id,...>
```

Parameter	Description	Type	Size
<id,id,...>	Vulnerability IDs	string	

diagnose wad debug save-http-req-crash

Save HTTP request when WAD worker crashes.

```
diagnose wad debug save-http-req-crash
```

diagnose wad debug save-http-req-crash disable

Disable saving HTTP request when WAD worker crashes.

```
diagnose wad debug save-http-req-crash disable
```

diagnose wad debug save-http-req-crash enable

Enable saving HTTP request when WAD worker crashes.

```
diagnose wad debug save-http-req-crash enable
```

diagnose wad debug show

Show debug setting.

```
diagnose wad debug show
```

diagnose wad dev

Dev. diagnostics.

```
diagnose wad dev
```

diagnose wad dev fcnacd

Emulate fcnacd messages.

```
diagnose wad dev fcnacd
```

diagnose wad dev fcnacd delete

Delete a device by uid, sn, and tenant id. (EC_LLS_ZTNA_CMD_DEV_DELETE)

```
diagnose wad dev fcnacd delete
```

diagnose wad dev fcnacd ip-err

Generate an EMS IP address error response. (EC_LLS_ZTNA_CMD_FIND_BY_IPVD_ER_CODE)

```
diagnose wad dev fcnacd ip-err
```

diagnose wad dev fcnacd uid-err

Generate an EMS UID error response. (EC_LLS_ZTNA_CMD_FIND_BY_UID)

```
diagnose wad dev fcnacd uid-err
```

diagnose wad dev fcnacd update

Insert a dummy device. (EC_LLS_ZTNA_CMD_DEV_UPDATE)

```
diagnose wad dev fcnacd update
```

diagnose wad dev query-by

Query a device.

```
diagnose wad dev query-by
```

diagnose wad dev query-by ipv4

Query by IPv4 address.

```
diagnose wad dev query-by ipv4
```

diagnose wad dev query-by ipv6

Query by IPv6 address.

```
diagnose wad dev query-by ipv6
```

diagnose wad dev query-by uid

Query by UID.

```
diagnose wad dev query-by uid
```

diagnose wad dev-vuln

Device vulnerability diagnostics.

```
diagnose wad dev-vuln
```

diagnose wad dev-vuln query

Query dev-vuln by vendor=<xxx>&version=<xxx>&product=<xxx>&model=<xxx>

```
diagnose wad dev-vuln query
```

diagnose wad dev-vuln query-by-id

Query dev-vuln by vulnerability id=<xxx>.

```
diagnose wad dev-vuln query-by-id
```

diagnose wad dev-vuln query-ftgd

Query dev-vuln by vendor=<xxx>&version=<xxx>&product=<xxx>&model=<xxx>

```
diagnose wad dev-vuln query-ftgd
```

diagnose wad dynamic-bypass

Dynamic-bypass diagnostics.

```
diagnose wad dynamic-bypass
```

diagnose wad dynamic-bypass clear

Clear dynamic-bypass stats.

```
diagnose wad dynamic-bypass clear
```

diagnose wad dynamic-bypass flush

Flush dynamic-bypass entries.

```
diagnose wad dynamic-bypass flush
```

diagnose wad dynamic-bypass show

Show dynamic-bypass summary.

```
diagnose wad dynamic-bypass show
```

diagnose wad exp-fw-policy-test

Explicit firewall policy test.

```
diagnose wad exp-fw-policy-test <SRC> <WEBPROXY> <REQ> <AUTH_TYPE> <USER/GROUP> <SERVER>
```

Parameter	Description	Type	Size
<SRC>	Please input source IP.	string	
<WEBPROXY>	Please input webproxy name.	string	
<REQ>	Please input uri=<uri> or ipport=<ip:port> or multi-line http request.	string	
<AUTH_TYPE>	Please input authentication type: none, user or group.	string	
<USER/GROUP>	Please input username or name of matching user/group on remote authentication server.	string	
<SERVER>	Please input name of auth server.	string	

diagnose wad exp-fw-policy-test-save

Save explicit firewall policy test.

```
diagnose wad exp-fw-policy-test-save <SRC> <WEBPROXY> <REQ> <AUTH_TYPE> <USER/GROUP>  
<SERVER>
```

Parameter	Description	Type	Size
<SRC>	Please input source IP.	string	
<WEBPROXY>	Please input webproxy name.	string	
<REQ>	Please input uri=<uri> or ipport=<ip:port> or multi-line http request.	string	
<AUTH_TYPE>	Please input authentication type: none, user or group.	string	
<USER/GROUP>	Please input username or name of matching user/group on remote authentication server.	string	
<SERVER>	Please input name of auth server.	string	

diagnose wad filter

Filter for listing sessions or tunnels.

```
diagnose wad filter
```

diagnose wad filter clear

Erase current filter settings.

```
diagnose wad filter clear
```

diagnose wad filter dport

Destination port range to filter by.

```
diagnose wad filter dport <port>
```

Parameter	Description	Type	Size
<port>	Destination port (from).	string	

diagnose wad filter drop-unknown-session

Enable drop message unknown sessions.

```
diagnose wad filter drop-unknown-session <Drop unknown sessions>
```

Parameter	Description	Type	Size
<Drop unknown sessions>	(1 = enable, 0 = do not drop).	string	

diagnose wad filter dst

Destination address range to filter by.

```
diagnose wad filter dst <ip-address>
```

Parameter	Description	Type	Size
<ip-address>	Destination IP address (from).	string	

diagnose wad filter dst6

Destination address6 range to filter by.

```
diagnose wad filter dst6 <ip-address6>
```

Parameter	Description	Type	Size
<ip-address6>	Destination IPv6 address (from).	string	

diagnose wad filter explicit-policy

Index of explicit-policy. -1 matches all.

```
diagnose wad filter explicit-policy <index>
```

Parameter	Description	Type	Size
<index>	Index of explicit-policy. -1 matches all.	string	

diagnose wad filter firewall-policy

Index of firewall-policy. -1 matches all.

```
diagnose wad filter firewall-policy <index>
```

Parameter	Description	Type	Size
<index>	Index of firewall-policy. -1 matches all.	string	

diagnose wad filter list

Display current filter.

```
diagnose wad filter list
```

diagnose wad filter negate

Negate the specified filter parameter.

```
diagnose wad filter negate <parm>
```

Parameter	Description	Type	Size
<parm>	Filter parameter to negate.	string	

diagnose wad filter process-id

Select process id to filter by.

```
diagnose wad filter process-id <Process id>
```

Parameter	Description	Type	Size
<Process id>	Process id to filter. (0 = disable)	string	

diagnose wad filter process-id-by-src

Process id affined with the selected source IPv4/IPv6 to filter by.

```
diagnose wad filter process-id-by-src <ip-address>
```

Parameter	Description	Type	Size
<ip-address>	Source IPv4/IPv6.	string	

diagnose wad filter process-type

Select process type to filter by.

```
diagnose wad filter process-type <Process types (0 = disable):>
```

Parameter	Description	Type	Size
<Process types (0 = disable):>	1. manager 2. dispatcher 3. worker 4. algo 5. informer 6. user-info 7. cache-service-cs 8. cache-service-db 9. cert-inspection 10. youtube-filter-cache-service 11. user-info-history 12. debug 13. config-notify 14. object-cache 15. byte-cache 16. traffic aggregator 17. preload daemon	string	

diagnose wad filter protocol

Select protocols to filter by.

```
diagnose wad filter protocol <http> <mapi> <cifs> <ftp> <tcp>
```

Parameter	Description	Type	Size
<http>	To match (1), otherwise (0).	string	
<mapi>	To match (1), otherwise (0).	string	
<cifs>	To match (1), otherwise (0).	string	

Parameter	Description	Type	Size
<ftp>	To match (1), otherwise (0).	string	
<tcp>	To match (1), otherwise (0).	string	

diagnose wad filter proxy-policy-list-increment

Increment in steps per proxy policy list call.

```
diagnose wad filter proxy-policy-list-increment <increment steps>
```

Parameter	Description	Type	Size
<increment steps>	Incremental steps per proxy policy call (10 - 100, default = 20)	string	

diagnose wad filter sport

Source port range to filter by.

```
diagnose wad filter sport <port>
```

Parameter	Description	Type	Size
<port>	Source port (from).	string	

diagnose wad filter src

Source address range to filter by.

```
diagnose wad filter src <ip-address>
```

Parameter	Description	Type	Size
<ip-address>	Source IP address (from).	string	

diagnose wad filter src6

Source address6 range to filter by.

```
diagnose wad filter src6 <ip-address6>
```

Parameter	Description	Type	Size
<ip-address6>	Source IPv6 address (from).	string	

diagnose wad filter vd

Virtual Domain Name.

```
diagnose wad filter vd <vdom>
```

Parameter	Description	Type	Size
<vdom>	Virtual Domain Name. ALL all vdoms	string	

diagnose wad fw-policy-test-get

Get firewall policy test.

```
diagnose wad fw-policy-test-get
```

diagnose wad health

Check WAD processes status for handling diagnose commands and file system health.

```
diagnose wad health
```

diagnose wad health debug

Check WAD debug daemon status for handling diagnose commands.

```
diagnose wad health debug
```

diagnose wad health fs

Check file system health.

```
diagnose wad health fs <File system type (0 = all):> <Lines>
```

Parameter	Description	Type	Size
<File system type (0 = all):>	1. data file system 2. data2 file system 3. log file system	string	
<Lines>	Max write lines (1-50)	string	

diagnose wad health worker

Check WAD worker processes status for handling diagnose commands.

```
diagnose wad health worker
```

diagnose wad history

Statistics history.

```
diagnose wad history
```

diagnose wad history clear

Clear statistics history.

```
diagnose wad history clear
```

diagnose wad history list

List statistics history.

```
diagnose wad history list <proto> <period>
```

Parameter	Description	Type	Size
<proto>	All HTTP FTP CIFS MAPI TCP.	string	
<period>	10min hour day 30days.	string	

diagnose wad icap

ICAP diagnostics.

```
diagnose wad icap
```

diagnose wad icap list

List ICAP servers

```
diagnose wad icap list
```

diagnose wad kxp

SSL KXP diagnostics.

```
diagnose wad kxp
```

diagnose wad kxp clear

Clear all KXP queue stats.

```
diagnose wad kxp clear
```

diagnose wad kxp list

List KXP queue size.

```
diagnose wad kxp list
```

diagnose wad license

Show License Info.

```
diagnose wad license
```

diagnose wad license clear

Clear all license usage history

```
diagnose wad license clear
```

diagnose wad license debug

Override license number for debug

```
diagnose wad license debug
```

diagnose wad license debug fcas

Set overriding licensed session limit for specified type

```
diagnose wad license debug fcas <limit>
```

Parameter	Description	Type	Size
<limit>	overriding licensed session limit (-1 to unset)	string	

diagnose wad license debug fnbi

Set overriding licensed session limit for specified type

```
diagnose wad license debug fnbi <limit>
```

Parameter	Description	Type	Size
<limit>	overriding licensed session limit (-1 to unset)	string	

diagnose wad license debug furl

Set overriding licensed session limit for specified type

```
diagnose wad license debug furl <limit>
```

Parameter	Description	Type	Size
<limit>	overriding licensed session limit (-1 to unset)	string	

diagnose wad license detail

Show License Detail.

```
diagnose wad license detail
```

diagnose wad license glob-usage

Show Total License Usage History of the Fabric Group

```
diagnose wad license glob-usage
```

diagnose wad license glob-usage 15seconds

15seconds

```
diagnose wad license glob-usage 15seconds
```

diagnose wad license glob-usage 5minutes

5minutes

```
diagnose wad license glob-usage 5minutes
```

diagnose wad license glob-usage days

days

```
diagnose wad license glob-usage days
```

diagnose wad license glob-usage hours

hours

```
diagnose wad license glob-usage hours
```

diagnose wad license glob-usage months

months

```
diagnose wad license glob-usage months
```

diagnose wad license glob-usage weeks

weeks

```
diagnose wad license glob-usage weeks
```

diagnose wad license glob-usage years

years

```
diagnose wad license glob-usage years
```

diagnose wad license summary

Show License summary.

```
diagnose wad license summary
```

diagnose wad license test

Add targeted value to test update function

```
diagnose wad license test <value> <repeats>
```

Parameter	Description	Type	Size
<value>	any non-negative integer in 0~65536	string	
<repeats>	any non-negative interger smaller than 2147483647	string	

diagnose wad license usage

Show License Usage History

```
diagnose wad license usage
```

diagnose wad license usage 15seconds

15seconds

```
diagnose wad license usage 15seconds
```

diagnose wad license usage 5minutes

5minutes

```
diagnose wad license usage 5minutes
```

diagnose wad license usage days

days

```
diagnose wad license usage days
```

diagnose wad license usage hours

hours

```
diagnose wad license usage hours
```

diagnose wad license usage months

months

```
diagnose wad license usage months
```

diagnose wad license usage weeks

weeks

```
diagnose wad license usage weeks
```


diagnose wad license usage years

years

```
diagnose wad license usage years
```

diagnose wad memory

WAD memory diagnostics.

```
diagnose wad memory
```

diagnose wad memory monitor

Monitor wad memory usage.

```
diagnose wad memory monitor
```

diagnose wad memory monitor disable

Disable wad memory monitor.

```
diagnose wad memory monitor disable
```

diagnose wad memory monitor enable

Enable wad memory monitor.

```
diagnose wad memory monitor enable
```

diagnose wad memory monitor interval

Set the time interval (in min) for memory monitoring.

```
diagnose wad memory monitor interval <Integer>
```

Parameter	Description	Type	Size
<Integer>	Please enter an integer from <5> to <60>.	string	

diagnose wad memory monitor list

List wad memory monitor parameters.

```
diagnose wad memory monitor list
```

diagnose wad memory monitor max-report-files

Max number of report files to save.

```
diagnose wad memory monitor max-report-files <Integer>
```

Parameter	Description	Type	Size
<Integer>	Please enter an integer from <1> to <10>.	string	

diagnose wad memory monitor mem-threshold-red

Set threshold at which wad workers' total memory usage triggers saving memory report in a disk file.

```
diagnose wad memory monitor mem-threshold-red <Integer>
```

Parameter	Description	Type	Size
<Integer>	Please enter an integer from <0> to <100>.	string	

diagnose wad memory overused

List suspiciously overused WAD memory buckets.

```
diagnose wad memory overused <Integer>
```

Parameter	Description	Type	Size
<Integer>	Overused threshold filter value.	string	

diagnose wad memory report

List a report of wad memory usage.

```
diagnose wad memory report
```

diagnose wad memory sum

Sum all WAD process memory modules stats.

```
diagnose wad memory sum
```

diagnose wad memory track

Track cmem alloc.

```
diagnose wad memory track <Integer>
```

Parameter	Description	Type	Size
<Integer>	Id for cmem stats.	string	

diagnose wad memory workers

List WAD worker memory modules.

```
diagnose wad memory workers
```

diagnose wad nbi

Native Browser Isolator diagnostics.

```
diagnose wad nbi
```

diagnose wad nbi license

Show license information.

```
diagnose wad nbi license
```

diagnose wad nbi packages

List information for NBI packages.

```
diagnose wad nbi packages
```

diagnose wad nbi status

(Default) Display the full NBI status.

```
diagnose wad nbi status
```

diagnose wad process

Wad process diagnostics.

```
diagnose wad process
```

diagnose wad process YouTube-filter-cache-service

Diagnose YouTube-filter-cache-service process.

```
diagnose wad process YouTube-filter-cache-service <index> <cmd>
```

Parameter	Description	Type	Size
<index>	Process index to send command to. (0 for the 1st process; -1 for all)	string	
<cmd>	Diagnostic command (0 for help). Support up to 32 commands.	string	

diagnose wad process algo

Diagnose algo process.

```
diagnose wad process algo <index> <cmd>
```

Parameter	Description	Type	Size
<index>	Process index to send command to. (0 for the 1st process; -1 for all)	string	
<cmd>	Diagnostic command (0 for help). Support up to 32 commands.	string	

diagnose wad process byte-cache

Diagnose byte-cache process.

```
diagnose wad process byte-cache <index> <cmd>
```

Parameter	Description	Type	Size
<index>	Process index to send command to. (0 for the 1st process; -1 for all)	string	
<cmd>	Diagnostic command (0 for help). Support up to 32 commands.	string	

diagnose wad process cache-service-cs

Diagnose cache-service-cs process.

```
diagnose wad process cache-service-cs <index> <cmd>
```

Parameter	Description	Type	Size
<index>	Process index to send command to. (0 for the 1st process; -1 for all)	string	
<cmd>	Diagnostic command (0 for help). Support up to 32 commands.	string	

diagnose wad process cache-service-db

Diagnose cache-service-db process.

```
diagnose wad process cache-service-db <index> <cmd>
```

Parameter	Description	Type	Size
<index>	Process index to send command to. (0 for the 1st process; -1 for all)	string	
<cmd>	Diagnostic command (0 for help). Support up to 32 commands.	string	

diagnose wad process cert-inspection

Diagnose cert-inspection process.

```
diagnose wad process cert-inspection <index> <cmd>
```

Parameter	Description	Type	Size
<index>	Process index to send command to. (0 for the 1st process; -1 for all)	string	
<cmd>	Diagnostic command (0 for help). Support up to 32 commands.	string	

diagnose wad process cert-manager

Diagnose cert-manager process.

```
diagnose wad process cert-manager <index> <cmd>
```

Parameter	Description	Type	Size
<index>	Process index to send command to. (0 for the 1st process; -1 for all)	string	
<cmd>	Diagnostic command (0 for help). Support up to 32 commands.	string	

diagnose wad process config-notify

Diagnose config-notify process.

```
diagnose wad process config-notify <index> <cmd>
```

Parameter	Description	Type	Size
<index>	Process index to send command to. (0 for the 1st process; -1 for all)	string	
<cmd>	Diagnostic command (0 for help). Support up to 32 commands.	string	

diagnose wad process debug

Diagnose debug process.

```
diagnose wad process debug <index> <cmd>
```

Parameter	Description	Type	Size
<index>	Process index to send command to. (0 for the 1st process; -1 for all)	string	
<cmd>	Diagnostic command (0 for help). Support up to 32 commands.	string	

diagnose wad process dev-vuln

Diagnose dev-vuln process.

```
diagnose wad process dev-vuln <index> <cmd>
```

Parameter	Description	Type	Size
<index>	Process index to send command to. (0 for the 1st process; -1 for all)	string	
<cmd>	Diagnostic command (0 for help). Support up to 32 commands.	string	

diagnose wad process dispatcher

Diagnose dispatcher process.

```
diagnose wad process dispatcher <index> <cmd>
```

Parameter	Description	Type	Size
<index>	Process index to send command to. (0 for the 1st process; -1 for all)	string	
<cmd>	Diagnostic command (0 for help). Support up to 32 commands.	string	

diagnose wad process ia-cache

Diagnose ia-cache process.

```
diagnose wad process ia-cache <index> <cmd>
```

Parameter	Description	Type	Size
<index>	Process index to send command to. (0 for the 1st process; -1 for all)	string	
<cmd>	Diagnostic command (0 for help). Support up to 32 commands.	string	

diagnose wad process informer

Diagnose informer process.

```
diagnose wad process informer <index> <cmd>
```

Parameter	Description	Type	Size
<index>	Process index to send command to. (0 for the 1st process; -1 for all)	string	
<cmd>	Diagnostic command (0 for help). Support up to 32 commands.	string	

diagnose wad process isolator

Diagnose isolator process.

```
diagnose wad process isolator <index> <cmd>
```

Parameter	Description	Type	Size
<index>	Process index to send command to. (0 for the 1st process; -1 for all)	string	
<cmd>	Diagnostic command (0 for help). Support up to 32 commands.	string	

diagnose wad process manager

Diagnose manager process.

```
diagnose wad process manager <index> <cmd>
```

Parameter	Description	Type	Size
<index>	Process index to send command to. (0 for the 1st process; -1 for all)	string	
<cmd>	Diagnostic command (0 for help). Support up to 32 commands.	string	

diagnose wad process object-cache

Diagnose object-cache process.

```
diagnose wad process object-cache <index> <cmd>
```

Parameter	Description	Type	Size
<index>	Process index to send command to. (0 for the 1st process; -1 for all)	string	
<cmd>	Diagnostic command (0 for help). Support up to 32 commands.	string	

diagnose wad process preload daemon

Diagnose preload daemon process.

```
diagnose wad process preload daemon <index> <cmd>
```

Parameter	Description	Type	Size
<index>	Process index to send command to. (0 for the 1st process; -1 for all)	string	
<cmd>	Diagnostic command (0 for help). Support up to 32 commands.	string	

diagnose wad process reverse-connector

Diagnose reverse-connector process.

```
diagnose wad process reverse-connector <index> <cmd>
```


Parameter	Description	Type	Size
<index>	Process index to send command to. (0 for the 1st process; -1 for all)	string	
<cmd>	Diagnostic command (0 for help). Support up to 32 commands.	string	

diagnose wad process staled-worker

Diagnose staled-worker process.

```
diagnose wad process staled-worker <index> <cmd>
```

Parameter	Description	Type	Size
<index>	Process index to send command to. (0 for the 1st process; -1 for all)	string	
<cmd>	Diagnostic command (0 for help). Support up to 32 commands.	string	

diagnose wad process tls-fgpt-service

Diagnose tls-fgpt-service process.

```
diagnose wad process tls-fgpt-service <index> <cmd>
```

Parameter	Description	Type	Size
<index>	Process index to send command to. (0 for the 1st process; -1 for all)	string	
<cmd>	Diagnostic command (0 for help). Support up to 32 commands.	string	

diagnose wad process traffic aggregator

Diagnose traffic aggregator process.

```
diagnose wad process traffic aggregator <index> <cmd>
```

Parameter	Description	Type	Size
<index>	Process index to send command to. (0 for the 1st process; -1 for all)	string	
<cmd>	Diagnostic command (0 for help). Support up to 32 commands.	string	

diagnose wad process unknown

Diagnose unknown process.

```
diagnose wad process unknown <index> <cmd>
```

Parameter	Description	Type	Size
<index>	Process index to send command to. (0 for the 1st process; -1 for all)	string	
<cmd>	Diagnostic command (0 for help). Support up to 32 commands.	string	

diagnose wad process user-info

Diagnose user-info process.

```
diagnose wad process user-info <index> <cmd>
```

Parameter	Description	Type	Size
<index>	Process index to send command to. (0 for the 1st process; -1 for all)	string	
<cmd>	Diagnostic command (0 for help). Support up to 32 commands.	string	

diagnose wad process user-info-history

Diagnose user-info-history process.

```
diagnose wad process user-info-history <index> <cmd>
```

Parameter	Description	Type	Size
<index>	Process index to send command to. (0 for the 1st process; -1 for all)	string	
<cmd>	Diagnostic command (0 for help). Support up to 32 commands.	string	

diagnose wad process worker

Diagnose worker process.

```
diagnose wad process worker <index> <cmd>
```

Parameter	Description	Type	Size
<index>	Process index to send command to. (0 for the 1st process; -1 for all)	string	
<cmd>	Diagnostic command (0 for help). Support up to 32 commands.	string	

diagnose wad report

A consolidated report and shorthand access to various 'diag test app xxx' commands.

```
diagnose wad report
```

diagnose wad report policy

Wad policy related diagnostics.

```
diagnose wad report policy
```

diagnose wad report session

Wad TCP, HTTP, and FTP session related diagnostics.

```
diagnose wad report session
```

diagnose wad report user

Wad user and auth related diagnostics.

```
diagnose wad report user
```

diagnose wad restore

Restore configuration defaults.

```
diagnose wad restore
```

diagnose wad restore cdn-rules

Restore default cdn rules.

```
diagnose wad restore cdn-rules
```

diagnose wad restore cdn-rules all

Restore default cdn rules.

```
diagnose wad restore cdn-rules all
```

diagnose wad session

Session diagnostics.

```
diagnose wad session
```

diagnose wad session clear

Clear all active sessions.

```
diagnose wad session clear
```

diagnose wad session list

List active sessions.

```
diagnose wad session list
```

diagnose wad session list-http2

List active http2 sessions.

```
diagnose wad session list-http2
```

diagnose wad sshproxy

sshproxy diagnostics.

```
diagnose wad sshproxy
```

diagnose wad sshproxy clear

Clear sshproxy stats.

```
diagnose wad sshproxy clear
```

diagnose wad sshproxy list

List sshproxy stats.

```
diagnose wad sshproxy list
```

diagnose wad stats

Statistics.

```
diagnose wad stats <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats algo

Show proc_algo statistics.

```
diagnose wad stats algo <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats algo.antiphish

Show antiphish statistics.

```
diagnose wad stats algo.antiphish <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats algo.casb

Show casb statistics.

```
diagnose wad stats algo.casb <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats algo.dev_info

Show dev_info statistics.

```
diagnose wad stats algo.dev_info <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats algo.dev_type

Show dev_stats statistics.

```
diagnose wad stats algo.dev_type <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats algo.fast_tb

Show fast_tb statistics.

```
diagnose wad stats algo.fast_tb <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats algo.fw_policy

Show fw_policy statistics.

```
diagnose wad stats algo.fw_policy <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats algo.icap_client

Show icap_client statistics.

```
diagnose wad stats algo.icap_client <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats algo.ips

Show ipsscan statistics.

```
diagnose wad stats algo.ips <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats algo.ips_builder

Show ips_builder statistics.

```
diagnose wad stats algo.ips_builder <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats algo.krl

Show krl statistics.

```
diagnose wad stats algo.krl <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats algo.proc_common

Show proc_common statistics.

```
diagnose wad stats algo.proc_common <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats algo.sec_prof

Show sec_prof statistics.

```
diagnose wad stats algo.sec_prof <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats algo.ssl

Show ssl statistics.

```
diagnose wad stats algo.ssl <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats algo.url_filter

Show url_filter statistics.

```
diagnose wad stats algo.url_filter <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats algo.urlredir

Show urlredir statistics.

```
diagnose wad stats algo.urlredir <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats cache_service

Show proc_cache_service statistics.

```
diagnose wad stats cache_service <action>
```


Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats cache_service.proc_common

Show proc_common statistics.

```
diagnose wad stats cache_service.proc_common <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats cache_service.tcp

Show tcp statistics.

```
diagnose wad stats cache_service.tcp <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats cic

Show proc_cic statistics.

```
diagnose wad stats cic <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats cic.proc_common

Show proc_common statistics.

```
diagnose wad stats cic.proc_common <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats cmgr

Show proc_cmgr statistics.

```
diagnose wad stats cmgr <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats cmgr.cert_cache

Show cert_cache statistics.

```
diagnose wad stats cmgr.cert_cache <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats cmgr.cert_service

Show cert_service statistics.

```
diagnose wad stats cmgr.cert_service <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats cmgr.dns_req

Show dns_req statistics.

```
diagnose wad stats cmgr.dns_req <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats cmgr.http_engine

Show http_engine statistics.

```
diagnose wad stats cmgr.http_engine <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats cmgr.proc_common

Show proc_common statistics.

```
diagnose wad stats cmgr.proc_common <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats cmgr.quic

Show quic statistics.

```
diagnose wad stats cmgr.quic <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats cmgr.ssl

Show ssl statistics.

```
diagnose wad stats cmgr.ssl <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats cmgr.tcp

Show tcp statistics.

```
diagnose wad stats cmgr.tcp <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats common

Show proc statistics.

```
diagnose wad stats common <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats common.dc_ad_dns

Show dc_ad_dns statistics.

```
diagnose wad stats common.dc_ad_dns <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats common.diag

Show diag statistics.

```
diagnose wad stats common.diag <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats common.sched

Show sched statistics.

```
diagnose wad stats common.sched <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats common.ses_stats

Show session statistics.

```
diagnose wad stats common.ses_stats <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats common.waps

Show waps statistics.

```
diagnose wad stats common.waps <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats config

Show proc_config statistics.

```
diagnose wad stats config <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats config.proc_common

Show proc_common statistics.

```
diagnose wad stats config.proc_common <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats config.shm_stats

Show shm_stats statistics.

```
diagnose wad stats config.shm_stats <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats config.stream_scan

Show sscan statistics.

```
diagnose wad stats config.stream_scan <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats debug

Show proc_debug statistics.

```
diagnose wad stats debug <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats debug.crash_handler

Show crash_handler statistics.

```
diagnose wad stats debug.crash_handler <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats debug.proc_common

Show proc_common statistics.

```
diagnose wad stats debug.proc_common <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats dev_vuln

Show proc_dev_vuln statistics.

```
diagnose wad stats dev_vuln <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats dev_vuln.dns_req

Show dns_req statistics.

```
diagnose wad stats dev_vuln.dns_req <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats dev_vuln.proc_common

Show proc_common statistics.

```
diagnose wad stats dev_vuln.proc_common <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats dev_vuln.ssl

Show ssl statistics.

```
diagnose wad stats dev_vuln.ssl <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats dev_vuln.tcp

Show tcp statistics.

```
diagnose wad stats dev_vuln.tcp <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats dispatcher

Show proc_dispatcher statistics.

```
diagnose wad stats dispatcher <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats dispatcher.cifs

Show cifs statistics.

```
diagnose wad stats dispatcher.cifs <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats dispatcher.dns_proxy

Show dns_proxy statistics.

```
diagnose wad stats dispatcher.dns_proxy <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats dispatcher.icap_local_server

Show icap_local_server statistics.

```
diagnose wad stats dispatcher.icap_local_server <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats dispatcher.proc_common

Show proc_common statistics.

```
diagnose wad stats dispatcher.proc_common <action>
```


Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats dispatcher.ssh

Show ssh statistics.

```
diagnose wad stats dispatcher.ssh <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats dispatcher.tcp

Show tcp statistics.

```
diagnose wad stats dispatcher.tcp <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats dispatcher.tunnel

Show tunnel statistics.

```
diagnose wad stats dispatcher.tunnel <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats fgpt

Show proc_fgpt statistics.

```
diagnose wad stats fgpt <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats fgpt.proc_common

Show proc_common statistics.

```
diagnose wad stats fgpt.proc_common <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats ia_cache

Show proc_ia_cache statistics.

```
diagnose wad stats ia_cache <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats ia_cache.proc_common

Show proc_common statistics.

```
diagnose wad stats ia_cache.proc_common <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats informer

Show proc_informer statistics.

```
diagnose wad stats informer <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats informer.dev_info

Show dev_info statistics.

```
diagnose wad stats informer.dev_info <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats informer.dev_type

Show dev_stats statistics.

```
diagnose wad stats informer.dev_type <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats informer.proc_common

Show proc_common statistics.

```
diagnose wad stats informer.proc_common <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats informer.ztna_jwt

Show ztna_jwt statistics.

```
diagnose wad stats informer.ztna_jwt <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats isolator

Show proc_isolator statistics.

```
diagnose wad stats isolator <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats isolator.dns_req

Show dns_req statistics.

```
diagnose wad stats isolator.dns_req <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats isolator.proc_common

Show proc_common statistics.

```
diagnose wad stats isolator.proc_common <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats isolator.ssl

Show ssl statistics.

```
diagnose wad stats isolator.ssl <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats isolator.tcp

Show tcp statistics.

```
diagnose wad stats isolator.tcp <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats mgr

Show proc_mgr statistics.

```
diagnose wad stats mgr <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats mgr.proc_common

Show proc_common statistics.

```
diagnose wad stats mgr.proc_common <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats mgr.shm_stats

Show shm_stats statistics.

```
diagnose wad stats mgr.shm_stats <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats uih

Show proc_uih statistics.

```
diagnose wad stats uih <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats uih.proc_common

Show proc_common statistics.

```
diagnose wad stats uih.proc_common <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats usr_info

Show proc_usr_info statistics.

```
diagnose wad stats usr_info <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats usr_info.dev_info

Show dev_info statistics.

```
diagnose wad stats usr_info.dev_info <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats usr_info.dev_type

Show dev_stats statistics.

```
diagnose wad stats usr_info.dev_type <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats usr_info.dns_req

Show dns_req statistics.

```
diagnose wad stats usr_info.dns_req <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats usr_info.proc_common

Show proc_common statistics.

```
diagnose wad stats usr_info.proc_common <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats usr_info.ssl

Show ssl statistics.

```
diagnose wad stats usr_info.ssl <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats usr_info.tcp

Show tcp statistics.

```
diagnose wad stats usr_info.tcp <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats vfcs

Show proc_vfcs statistics.

```
diagnose wad stats vfcs <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats vfcs.proc_common

Show proc_common statistics.

```
diagnose wad stats vfcs.proc_common <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker

Show proc_worker statistics.

```
diagnose wad stats worker <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.aio

Show aio statistics.

```
diagnose wad stats worker.aio <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.antiphish

Show antiphish statistics.

```
diagnose wad stats worker.antiphish <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.app_mgr

Show app_mgr statistics.

```
diagnose wad stats worker.app_mgr <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.auth

Show auth statistics.

```
diagnose wad stats worker.auth <action>
```


Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.casb

Show casb statistics.

```
diagnose wad stats worker.casb <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.cert_cache

Show cert_cache statistics.

```
diagnose wad stats worker.cert_cache <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.cifs

Show cifs statistics.

```
diagnose wad stats worker.cifs <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.config_delta

Show config_delta statistics.

```
diagnose wad stats worker.config_delta <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.conn_pool

Show conn_pool statistics.

```
diagnose wad stats worker.conn_pool <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.dev_info

Show dev_info statistics.

```
diagnose wad stats worker.dev_info <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.dev_type

Show dev_stats statistics.

```
diagnose wad stats worker.dev_type <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.dns_proxy

Show dns_proxy statistics.

```
diagnose wad stats worker.dns_proxy <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.dns_req

Show dns_req statistics.

```
diagnose wad stats worker.dns_req <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.fast_match

Show fast_match statistics.

```
diagnose wad stats worker.fast_match <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.fw_policy

Show fw_policy statistics.

```
diagnose wad stats worker.fw_policy <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.hauth_uid_cache

Show hash_cache statistics.

```
diagnose wad stats worker.hauth_uid_cache <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.http_engine

Show http_engine statistics.

```
diagnose wad stats worker.http_engine <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.http_ffbk

Show http_ffbk statistics.

```
diagnose wad stats worker.http_ffbk <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.http_scan

Show http_scan statistics.

```
diagnose wad stats worker.http_scan <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.http_srv_selector

Show http_srv_selector statistics.

```
diagnose wad stats worker.http_srv_selector <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.http_view

Show http_view statistics.

```
diagnose wad stats worker.http_view <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.icap_client

Show icap_client statistics.

```
diagnose wad stats worker.icap_client <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.icap_local_server

Show icap_local_server statistics.

```
diagnose wad stats worker.icap_local_server <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.icap_parser

Show icap_parser statistics.

```
diagnose wad stats worker.icap_parser <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.icap_remote_server

Show icap_remote_server statistics.

```
diagnose wad stats worker.icap_remote_server <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.infection_cache

Show infection_cache statistics.

```
diagnose wad stats worker.infection_cache <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.ipseng

Show ipseng statistics.

```
diagnose wad stats worker.ipseng <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.krl

Show krl statistics.

```
diagnose wad stats worker.krl <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.pol_test

Show pol_test statistics.

```
diagnose wad stats worker.pol_test <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.policy_profile

Show policy_profile statistics.

```
diagnose wad stats worker.policy_profile <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.proc_common

Show proc_common statistics.

```
diagnose wad stats worker.proc_common <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.protos

Show protos statistics.

```
diagnose wad stats worker.protos <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.quic

Show quic statistics.

```
diagnose wad stats worker.quic <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.scan_cache

Show scan_cache statistics.

```
diagnose wad stats worker.scan_cache <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.sec_prof

Show sec_prof statistics.

```
diagnose wad stats worker.sec_prof <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.shm_stats

Show shm_stats statistics.

```
diagnose wad stats worker.shm_stats <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.ssh

Show ssh statistics.

```
diagnose wad stats worker.ssh <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.ssl

Show ssl statistics.

```
diagnose wad stats worker.ssl <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.systemem

Show systemem statistics.

```
diagnose wad stats worker.systemem <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.tcp

Show tcp statistics.

```
diagnose wad stats worker.tcp <action>
```


Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.traffic_mirror

Show traffic_mirror statistics.

```
diagnose wad stats worker.traffic_mirror <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.tunnel

Show tunnel statistics.

```
diagnose wad stats worker.tunnel <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.url_filter

Show url_filter statistics.

```
diagnose wad stats worker.url_filter <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.url_match

Show url_match statistics.

```
diagnose wad stats worker.url_match <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.urlredir

Show urlredir statistics.

```
diagnose wad stats worker.urlredir <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.vs_cert_cache

Show hash_cache statistics.

```
diagnose wad stats worker.vs_cert_cache <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stats worker.ztna_jwt

Show ztna_jwt statistics.

```
diagnose wad stats worker.ztna_jwt <action>
```

Parameter	Description	Type	Size
<action>	show(default) clear history.	string	

diagnose wad stream-scan

Stream scan diagnostics.

```
diagnose wad stream-scan
```

diagnose wad stream-scan av-intf

Enable/disable AV interface.

```
diagnose wad stream-scan av-intf
```

diagnose wad stream-scan av-intf disable

Disable stream scan AV interface and restart workers.

```
diagnose wad stream-scan av-intf disable
```

diagnose wad stream-scan av-intf enable

Enable stream scan AV interface and restart workers.

```
diagnose wad stream-scan av-intf enable
```

diagnose wad stream-scan av-test

AV Engine diagnostics.

```
diagnose wad stream-scan av-test <command> <worker-id>
```

Parameter	Description	Type	Size
<command>	Command to pass into AV engine. Please double quote the command.	string	
<worker-id>	Optional worker index.	string	

diagnose wad tcp-connection

TCP connection diagnostics.

```
diagnose wad tcp-connection
```

diagnose wad tcp-connection list

List first 100 tcp connections of each worker.

```
diagnose wad tcp-connection list <worker-index>/all
```

Parameter	Description	Type	Size
<worker-index>/all	Please enter worker index or all for all workers	string	

diagnose wad toggle

Toggle diagnose method(direct/debug proc).

```
diagnose wad toggle
```

diagnose wad tp-fw-policy-test

Transparent firewall policy test.

```
diagnose wad tp-fw-policy-test <SRC> <SRC-INTF> <REQ> <AUTH_TYPE> <USER/GROUP> <SERVER>
```

Parameter	Description	Type	Size
<SRC>	Please input source IP.	string	
<SRC-INTF>	Please input source interface.	string	
<REQ>	Please input uri=<uri> or ipport=<ip:port> or multi-line http request.	string	
<AUTH_TYPE>	Please input authentication type: none, user or group.	string	
<USER/GROUP>	Please input username or name of matching user/group on remote authentication server.	string	
<SERVER>	Please input name of auth server.	string	

diagnose wad tp-fw-policy-test-save

Save transparent firewall policy test.

```
diagnose wad tp-fw-policy-test-save <SRC> <SRC-INTF> <REQ> <AUTH_TYPE> <USER/GROUP> <SERVER>
```

Parameter	Description	Type	Size
<SRC>	Please input source IP.	string	
<SRC-INTF>	Please input source interface.	string	
<REQ>	Please input uri=<uri> or ipport=<ip:port> or multi-line http request.	string	
<AUTH_TYPE>	Please input authentication type: none, user or group.	string	
<USER/GROUP>	Please input username or name of matching user/group on remote authentication server.	string	
<SERVER>	Please input name of auth server.	string	

diagnose wad tunnel

Tunnel diagnostics.

```
diagnose wad tunnel
```

diagnose wad tunnel clear

Clear all active tunnels.

```
diagnose wad tunnel clear
```

diagnose wad tunnel list

List active tunnels.

```
diagnose wad tunnel list <id>
```

Parameter	Description	Type	Size
<id>	Optional tunnel ID.	string	

diagnose wad uih

User info history diagnostics.

```
diagnose wad uih
```

diagnose wad uih chart

Display summary or range of entries of Chart DB.

```
diagnose wad uih chart
```

diagnose wad uih chart range

Display chart DB entries for <vdom> from <start> to <end>.

```
diagnose wad uih chart range
```

diagnose wad uih chart summary

Display summary of Chart DB for <vdom>.

```
diagnose wad uih chart summary
```

diagnose wad url-lookup

URL category/list lookup.

```
diagnose wad url-lookup <URL>
```

Parameter	Description	Type	Size
<URL>	Please input URL.	string	

diagnose wad user

User diagnostics.

```
diagnose wad user
```

diagnose wad user clear

Clear all users or clear a particular user using: `diagnose wad user clear <ID> <IP|IPv6> <VDOM>`.

```
diagnose wad user clear <ID> <IP> <VDOM>
```

Parameter	Description	Type	Size
<ID>	Please input user ID.	string	
<IP>	Please input user IP.	string	
<VDOM>	Please input VDOM name the user belongs to.	string	

diagnose wad user count

Count users in each WAD worker.

```
diagnose wad user count
```

diagnose wad user device

Get device info.

```
diagnose wad user device
```

diagnose wad user domain-controller

Test connectivity with domain-controller.

```
diagnose wad user domain-controller
```

diagnose wad user domain-controller dns

Test DNS resolve function.

```
diagnose wad user domain-controller dns
```

diagnose wad user domain-controller dns list

Show DNS discover status on all configured user domain-controller.

```
diagnose wad user domain-controller dns list
```

diagnose wad user domain-controller dns test

Test if DNS discover function works for all configured user domain-controller.

```
diagnose wad user domain-controller dns test
```

diagnose wad user exchange

Test connectivity with user-exchange.

```
diagnose wad user exchange
```

diagnose wad user exchange get-matches

Test exact match search for Administrator.

```
diagnose wad user exchange get-matches
```

diagnose wad user exchange query-rows

Show address-book database up to 50 entries.

```
diagnose wad user exchange query-rows
```

diagnose wad user exchange reset

Close all connections related to user-exchange.

```
diagnose wad user exchange reset
```

diagnose wad user exchange resolve-names

Test pattern match search for Administrator.

```
diagnose wad user exchange resolve-names
```

diagnose wad user exchange test-auto-discover

Test if automatic discovery can work on all configured user-exchanges.

```
diagnose wad user exchange test-auto-discover
```

diagnose wad user list

List proxy users.

```
diagnose wad user list [verbose]
```

Parameter	Description	Type	Size
[verbose]	Verbose mode.	string	

diagnose wad webcache

Web cache statistics.

```
diagnose wad webcache
```

diagnose wad webcache clear

Clear web cache statistics.

```
diagnose wad webcache clear
```

diagnose wad webcache list

List web cache statistics.

```
diagnose wad webcache list <period>
```

Parameter	Description	Type	Size
<period>	10min hour day 30days.	string	

diagnose wad webproxy

Webproxy diagnostics.

```
diagnose wad webproxy
```

diagnose wad webproxy clear

Enter a webproxy name to clear this particular webproxy, otherwise this clears all webproxies.

```
diagnose wad webproxy clear <webproxy>
```

Parameter	Description	Type	Size
<webproxy>	webproxy name.	string	

diagnose wad webproxy forward-server

Forward server diagnostics.

```
diagnose wad webproxy forward-server
```

diagnose wad webproxy forward-server detail

Per worker forward server diagnostics.

```
diagnose wad webproxy forward-server detail
```

diagnose wad webproxy forward-server summary

General forward server diagnostics.

```
diagnose wad webproxy forward-server summary
```

diagnose wad webproxy forward-server-group

Forward server group diagnostics.

```
diagnose wad webproxy forward-server-group
```

diagnose wad webproxy list

List webproxies.

```
diagnose wad webproxy list
```

diagnose wad worker

Worker diagnostics.

```
diagnose wad worker
```

diagnose wad worker async-ut

Async Unit Test.

```
diagnose wad worker async-ut [<index>]
```

Parameter	Description	Type	Size
[<index>]	Worker index or all workers if not set.	string	

diagnose wad worker avscan

Scan results statistics.

```
diagnose wad worker avscan
```

diagnose wad worker avscan clear

Clear scan results statistics.

```
diagnose wad worker avscan clear
```

diagnose wad worker avscan list

List scan results statistics.

```
diagnose wad worker avscan list
```

diagnose wad worker bytcache

Bytcache diagnostics.

```
diagnose wad worker bytcache
```

diagnose wad worker bytcache clear

Purge all entries.

```
diagnose wad worker bytcache clear [<index>]
```

Parameter	Description	Type	Size
[<index>]	Worker index or all workers if not set.	string	

diagnose wad worker bytcache flush

Reset statistics.

```
diagnose wad worker bytcache flush [<index>]
```

Parameter	Description	Type	Size
[<index>]	Worker index or all workers if not set.	string	

diagnose wad worker bytcache stats

Show statistics.

```
diagnose wad worker bytcache stats [<index>]
```

Parameter	Description	Type	Size
[<index>]	Worker index or all workers if not set.	string	

diagnose wad worker bytcache toggle

Toggle operations.

```
diagnose wad worker bytcache toggle
```

diagnose wad worker bytcache toggle all

Set/unset all operations as busy.

```
diagnose wad worker bytcache toggle all [<index>]
```

Parameter	Description	Type	Size
[<index>]	Worker index or all workers if not set.	string	

diagnose wad worker bytecache toggle config

Toggle worker bytecache config.

```
diagnose wad worker bytecache toggle config [<index>]
```

Parameter	Description	Type	Size
[<index>]	Worker index or all workers if not set.	string	

diagnose wad worker bytecache toggle create

Toggle create as busy.

```
diagnose wad worker bytecache toggle create [<index>]
```

Parameter	Description	Type	Size
[<index>]	Worker index or all workers if not set.	string	

diagnose wad worker bytecache toggle read

Toggle read as busy.

```
diagnose wad worker bytecache toggle read [<index>]
```

Parameter	Description	Type	Size
[<index>]	Worker index or all workers if not set.	string	

diagnose wad worker cookie

Cookie information.

```
diagnose wad worker cookie
```

diagnose wad worker cookie map

Show cookie map info.

```
diagnose wad worker cookie map
```

diagnose wad worker filter

Show filter statistics.

```
diagnose wad worker filter
```

diagnose wad worker filter clear

Clear filter statistics.

```
diagnose wad worker filter clear
```

diagnose wad worker filter list

List filter statistics.

```
diagnose wad worker filter list
```

diagnose wad worker imagecache

Imagecache diagnostics.

```
diagnose wad worker imagecache
```

diagnose wad worker imagecache flush

Flush all blocked images in the ram disk.

```
diagnose wad worker imagecache flush
```

diagnose wad worker imagecache stats

Show statistics of blocked image cache.

```
diagnose wad worker imagecache stats
```

diagnose wad worker memcache

Memcache diagnostics.

```
diagnose wad worker memcache
```

diagnose wad worker memcache clear

Purge all entries.

```
diagnose wad worker memcache clear [<index>]
```

Parameter	Description	Type	Size
[<index>]	Worker index or all workers if not set.	string	

diagnose wad worker memcache flush

Reset statistics.

```
diagnose wad worker memcache flush [<index>]
```

Parameter	Description	Type	Size
[<index>]	Worker index or all workers if not set.	string	

diagnose wad worker memcache stats

Show statistics.

```
diagnose wad worker memcache stats [<index>]
```

Parameter	Description	Type	Size
[<index>]	Worker index or all workers if not set.	string	

diagnose wad worker memcache toggle

Toggle operations.

```
diagnose wad worker memcache toggle
```

diagnose wad worker memcache toggle all

Set/unset all operations as busy.

```
diagnose wad worker memcache toggle all [<index>]
```

Parameter	Description	Type	Size
[<index>]	Worker index or all workers if not set.	string	

diagnose wad worker memcache toggle config

Toggle worker memcache config.

```
diagnose wad worker memcache toggle config [<index>]
```

Parameter	Description	Type	Size
[<index>]	Worker index or all workers if not set.	string	

diagnose wad worker memcache toggle create

Toggle create as busy.

```
diagnose wad worker memcache toggle create [<index>]
```

Parameter	Description	Type	Size
[<index>]	Worker index or all workers if not set.	string	

diagnose wad worker memcache toggle read

Toggle read as busy.

```
diagnose wad worker memcache toggle read [<index>]
```

Parameter	Description	Type	Size
[<index>]	Worker index or all workers if not set.	string	

diagnose wad worker oidc

OpenID Connect diagnostics.

```
diagnose wad worker oidc
```

diagnose wad worker oidc clear-jwks

[DEBUG] Clear JWKS cache.

```
diagnose wad worker oidc clear-jwks [<index>]
```

Parameter	Description	Type	Size
[<index>]	Worker index or all workers if not set.	string	

diagnose wad worker oidc servers

Show OpenID Connect servers info.

```
diagnose wad worker oidc servers [<index>]
```

Parameter	Description	Type	Size
[<index>]	Worker index or all workers if not set.	string	

diagnose wad worker oidc sessions

Show OpenID Connect sessions info.

```
diagnose wad worker oidc sessions [<index>]
```

Parameter	Description	Type	Size
[<index>]	Worker index or all workers if not set.	string	

diagnose wad worker peer

Show peer statistics.

```
diagnose wad worker peer
```

diagnose wad worker peer clear

Clear peer statistics.

```
diagnose wad worker peer clear
```

diagnose wad worker peer list

List peer statistics.

```
diagnose wad worker peer list
```

diagnose wad worker policy

Show policy statistics.

```
diagnose wad worker policy
```

diagnose wad worker policy clear

Clear policy statistics.

```
diagnose wad worker policy clear
```


diagnose wad worker policy list

List policy statistics.

```
diagnose wad worker policy list
```

diagnose wad worker restart

Restart workers.

```
diagnose wad worker restart [<index>]
```

Parameter	Description	Type	Size
[<index>]	Worker index or all workers if not set.	string	

diagnose wad worker saml

Show saml sessions and GrpSID cache info.

```
diagnose wad worker saml [<index>]
```

Parameter	Description	Type	Size
[<index>]	Worker index or all workers if not set.	string	

diagnose wad worker scripts

Show scripts statistics.

```
diagnose wad worker scripts
```

diagnose wad worker scripts clear

Clear scripts statistics.

```
diagnose wad worker scripts clear
```

diagnose wad worker scripts list

List scripts statistics.

```
diagnose wad worker scripts list
```

diagnose wad worker webcache

Webcache diagnostics.

```
diagnose wad worker webcache
```

diagnose wad worker webcache clear

Purge all entries.

```
diagnose wad worker webcache clear [<index>]
```

Parameter	Description	Type	Size
[<index>]	Worker index or all workers if not set.	string	

diagnose wad worker webcache flush

Reset statistics.

```
diagnose wad worker webcache flush [<index>]
```

Parameter	Description	Type	Size
[<index>]	Worker index or all workers if not set.	string	

diagnose wad worker webcache stats

Show statistics.

```
diagnose wad worker webcache stats [<index>]
```

Parameter	Description	Type	Size
[<index>]	Worker index or all workers if not set.	string	

diagnose wad worker webcache summary

List statistics summary.

```
diagnose wad worker webcache summary
```

diagnose wad worker webcache toggle

Toggle operations.

```
diagnose wad worker webcache toggle
```

diagnose wad worker webcache toggle abort

Toggle abort as busy.

```
diagnose wad worker webcache toggle abort [<index>]
```

Parameter	Description	Type	Size
[<index>]	Worker index or all workers if not set.	string	

diagnose wad worker webcache toggle add_ref

Toggle add_ref as busy.

```
diagnose wad worker webcache toggle add_ref [<index>]
```

Parameter	Description	Type	Size
[<index>]	Worker index or all workers if not set.	string	

diagnose wad worker webcache toggle all

Set/unset all operations as busy.

```
diagnose wad worker webcache toggle all [<index>]
```

Parameter	Description	Type	Size
[<index>]	Worker index or all workers if not set.	string	

diagnose wad worker webcache toggle append

Toggle append as busy.

```
diagnose wad worker webcache toggle append [<index>]
```

Parameter	Description	Type	Size
[<index>]	Worker index or all workers if not set.	string	

diagnose wad worker webcache toggle config

Toggle worker webcache config.

```
diagnose wad worker webcache toggle config [<index>]
```

Parameter	Description	Type	Size
[<index>]	Worker index or all workers if not set.	string	

diagnose wad worker webcache toggle create

Toggle create as busy.

```
diagnose wad worker webcache toggle create [<index>]
```

Parameter	Description	Type	Size
[<index>]	Worker index or all workers if not set.	string	

diagnose wad worker webcache toggle read

Toggle read as busy.

```
diagnose wad worker webcache toggle read [<index>]
```

Parameter	Description	Type	Size
[<index>]	Worker index or all workers if not set.	string	

diagnose wad worker webcache toggle remove

Toggle remove as busy.

```
diagnose wad worker webcache toggle remove [<index>]
```

Parameter	Description	Type	Size
[<index>]	Worker index or all workers if not set.	string	

diagnose wad worker webcache toggle resolve

Toggle resolve as busy.

```
diagnose wad worker webcache toggle resolve [<index>]
```

Parameter	Description	Type	Size
[<index>]	Worker index or all workers if not set.	string	

diagnose wad worker webcache toggle update

Toggle update as busy.

```
diagnose wad worker webcache toggle update [<index>]
```

Parameter	Description	Type	Size
[<index>]	Worker index or all workers if not set.	string	

diagnose wadbd

WAN accelerator DB daemon.

This topic includes the following commands:

- [diagnose wadbd clear on page 1801](#)
- [diagnose wadbd log-show on page 1801](#)
- [diagnose wadbd restart on page 1801](#)
- [diagnose wadbd stats on page 1802](#)

diagnose wadbd clear

Remove all entries from the database.

```
diagnose wadbd clear
```

diagnose wadbd log-show

Show log of daemon

```
diagnose wadbd log-show <Disk index> <log generation> <time format>
```

Parameter	Description	Type	Size
<Disk index>	Disk index	string	
<log generation>	Log generation: default 0	string	
<time format>	Time format: 0 for human readable and 1 for raw, default 0	string	

diagnose wadbd restart

Restart the daemon and reset the statistical parameters.

```
diagnose wadbd restart
```

diagnose wadbd stats

Show statistics.

```
diagnose wadbd stats
```

diagnose waf

WAF diagnostics.

This topic includes the following commands:

- [diagnose waf dump on page 1802](#)
- [diagnose waf info on page 1802](#)

diagnose waf dump

Dump WAF name table.

```
diagnose waf dump
```

diagnose waf info

Init WAF name table.

```
diagnose waf info
```

diagnose webfilter

webfilter

This topic includes the following commands:

- [diagnose webfilter bword on page 1803](#)
- [diagnose webfilter bword matchfilter on page 1803](#)
- [diagnose webfilter fortiguard on page 1803](#)
- [diagnose webfilter fortiguard cache on page 1803](#)
- [diagnose webfilter fortiguard cache dump on page 1803](#)
- [diagnose webfilter fortiguard cache obs on page 1804](#)
- [diagnose webfilter fortiguard cache prefix on page 1804](#)

- [diagnose webfilter fortiguard cache tree on page 1804](#)
- [diagnose webfilter fortiguard cache ttl on page 1804](#)
- [diagnose webfilter fortiguard override on page 1804](#)
- [diagnose webfilter fortiguard override all-admin-override on page 1804](#)
- [diagnose webfilter fortiguard override all-user-override on page 1804](#)
- [diagnose webfilter fortiguard override all-warning on page 1805](#)
- [diagnose webfilter fortiguard override obs on page 1805](#)
- [diagnose webfilter fortiguard override statistics on page 1805](#)
- [diagnose webfilter fortiguard statistics on page 1805](#)
- [diagnose webfilter fortiguard statistics flush on page 1805](#)
- [diagnose webfilter fortiguard statistics list on page 1805](#)

diagnose webfilter bword

Web banned word match filter.

```
diagnose webfilter bword
```

diagnose webfilter bword matchfilter

Filtered list display.

```
diagnose webfilter bword matchfilter <filter string>
```

Parameter	Description	Type	Size
<filter string>	Filter string from end of web filter banned word log line. For example: '1-n8 4 0 1 4 10 nC 4'	string	

diagnose webfilter fortiguard

FortiGuard Web Filter information

```
diagnose webfilter fortiguard
```

diagnose webfilter fortiguard cache

Display WF cache content.

```
diagnose webfilter fortiguard cache
```

diagnose webfilter fortiguard cache dump

Display WF cache contents.

```
diagnose webfilter fortiguard cache dump
```

diagnose webfilter fortiguard cache obs

Display WF cache OBS info.

```
diagnose webfilter fortiguard cache obs
```

diagnose webfilter fortiguard cache prefix

Display WF cache contents of prefix type.

```
diagnose webfilter fortiguard cache prefix
```

diagnose webfilter fortiguard cache tree

Display WF cache in tree format.

```
diagnose webfilter fortiguard cache tree
```

diagnose webfilter fortiguard cache ttl

Display WF cache TTL list.

```
diagnose webfilter fortiguard cache ttl
```

diagnose webfilter fortiguard override

Display override content.

```
diagnose webfilter fortiguard override
```

diagnose webfilter fortiguard override all-admin-override

Display admin override entries of all vdoms.

```
diagnose webfilter fortiguard override all-admin-override
```

diagnose webfilter fortiguard override all-user-override

Display user override entries of all vdoms.

```
diagnose webfilter fortiguard override all-user-override
```


diagnose webfilter fortiguard override all-warning

Display warning/authentication entries of all vdoms.

```
diagnose webfilter fortiguard override all-warning
```

diagnose webfilter fortiguard override obs

Display override cache OBS info.

```
diagnose webfilter fortiguard override obs
```

diagnose webfilter fortiguard override statistics

Display override cache statistics.

```
diagnose webfilter fortiguard override statistics
```

diagnose webfilter fortiguard statistics

Rating cache and daemon statistics.

```
diagnose webfilter fortiguard statistics
```

diagnose webfilter fortiguard statistics flush

Flush rating cache and daemon statistics.

```
diagnose webfilter fortiguard statistics flush
```

diagnose webfilter fortiguard statistics list

Display rating cache and daemon statistics.

```
diagnose webfilter fortiguard statistics list
```

diagnose web-ui

Web user interface.

This topic includes the following commands:

- [diagnose web-ui api-cache on page 1806](#)
- [diagnose web-ui api-cache statistic on page 1806](#)
- [diagnose web-ui api-stats on page 1806](#)
- [diagnose web-ui api-stats disable on page 1807](#)
- [diagnose web-ui api-stats enable on page 1807](#)
- [diagnose web-ui api-stats list on page 1807](#)
- [diagnose web-ui api-stats reset on page 1807](#)
- [diagnose web-ui api-stats status on page 1807](#)
- [diagnose web-ui backtrace on page 1807](#)
- [diagnose web-ui backtrace clear on page 1807](#)
- [diagnose web-ui backtrace disable on page 1808](#)
- [diagnose web-ui backtrace enable on page 1808](#)
- [diagnose web-ui backtrace httpsd on page 1808](#)
- [diagnose web-ui backtrace status on page 1808](#)
- [diagnose web-ui cache on page 1808](#)
- [diagnose web-ui cache disable on page 1808](#)
- [diagnose web-ui cache enable on page 1809](#)
- [diagnose web-ui localization on page 1809](#)
- [diagnose web-ui localization disable on page 1809](#)
- [diagnose web-ui localization enable on page 1809](#)
- [diagnose web-ui next-gen-table on page 1809](#)
- [diagnose web-ui next-gen-table disable on page 1809](#)
- [diagnose web-ui next-gen-table enable on page 1809](#)

diagnose web-ui api-cache

shows statistics of REST API caching.

```
diagnose web-ui api-cache
```

diagnose web-ui api-cache statistic

Show REST API cache statistics.

```
diagnose web-ui api-cache statistic
```

diagnose web-ui api-stats

REST API performance statistics.

```
diagnose web-ui api-stats
```

diagnose web-ui api-stats disable

Disable REST API performance statistics.

```
diagnose web-ui api-stats disable
```

diagnose web-ui api-stats enable

Enable REST API performance statistics.

```
diagnose web-ui api-stats enable
```

diagnose web-ui api-stats list

List all REST API performance statistics.

```
diagnose web-ui api-stats list <api-uri>
```

Parameter	Description	Type	Size
<api-uri>	API access URI/prefix. (type.path.name.action)	string	

diagnose web-ui api-stats reset

Reset all REST API performance statistics.

```
diagnose web-ui api-stats reset
```

diagnose web-ui api-stats status

Status of REST API performance statistics.

```
diagnose web-ui api-stats status
```

diagnose web-ui backtrace

Web-ui backtrace.

```
diagnose web-ui backtrace
```

diagnose web-ui backtrace clear

Clear all backtrace log.

```
diagnose web-ui backtrace clear
```

diagnose web-ui backtrace disable

Disable web-ui backtrace.

```
diagnose web-ui backtrace disable
```

diagnose web-ui backtrace enable

Enable web-ui backtrace.

```
diagnose web-ui backtrace enable
```

diagnose web-ui backtrace httpsd

List all httpsd backtrace.

```
diagnose web-ui backtrace httpsd <pid>
```

Parameter	Description	Type	Size
<pid>	Details of httpsd backtrace.	string	

diagnose web-ui backtrace status

Status of web-ui backtrace.

```
diagnose web-ui backtrace status
```

diagnose web-ui cache

Enable/disable caching of static resources.

```
diagnose web-ui cache
```

diagnose web-ui cache disable

Disable caching of static resources.

```
diagnose web-ui cache disable
```

diagnose web-ui cache enable

Enable caching of static resources.

```
diagnose web-ui cache enable
```

diagnose web-ui localization

Enable/disable language localization.

```
diagnose web-ui localization
```

diagnose web-ui localization disable

Disable language localization.

```
diagnose web-ui localization disable
```

diagnose web-ui localization enable

Enable language localization.

```
diagnose web-ui localization enable
```

diagnose web-ui next-gen-table

Enable/disable next generation tables.

```
diagnose web-ui next-gen-table
```

diagnose web-ui next-gen-table disable

Disable next generation tables

```
diagnose web-ui next-gen-table disable
```

diagnose web-ui next-gen-table enable

Enable next generation tables.

```
diagnose web-ui next-gen-table enable
```

CLI execute commands

Use execute commands to run system commands.

This section includes syntax for the following commands:

- [execute api-user on page 1812](#)
- [execute auto-script on page 1813](#)
- [execute backup on page 1815](#)
- [execute batch on page 1828](#)
- [execute central-mgmt on page 1828](#)
- [execute cfg on page 1829](#)
- [execute clear on page 1830](#)
- [execute cli on page 1830](#)
- [execute cloud-service on page 1831](#)
- [execute config-transaction on page 1832](#)
- [execute cpu on page 1833](#)
- [execute date on page 1833](#)
- [execute device-upgrade on page 1833](#)
- [execute dhcp on page 1834](#)
- [execute dhcp6 on page 1835](#)
- [execute disconnect-admin-session on page 1836](#)
- [execute disk on page 1836](#)
- [execute enter on page 1837](#)
- [execute erase-disk on page 1837](#)
- [execute fabric-vpn on page 1837](#)
- [execute factoryreset-for-central-management on page 1838](#)
- [execute factoryreset-shutdown on page 1838](#)
- [execute factoryreset on page 1838](#)
- [execute factoryreset2 on page 1838](#)
- [execute fctems on page 1839](#)
- [execute federated-upgrade on page 1840](#)
- [execute fips on page 1841](#)
- [execute firewall on page 1842](#)
- [execute formatlogdisk on page 1843](#)
- [execute forticloud-sandbox on page 1843](#)
- [execute fortiguard-log on page 1844](#)
- [execute fortiguard-message on page 1844](#)
- [execute fortimanager on page 1845](#)
- [execute fortitoken-cloud on page 1848](#)
- [execute fortitoken-mobile on page 1849](#)

- [execute fortitoken on page 1846](#)
- [execute fsso on page 1850](#)
- [execute ha on page 1851](#)
- [execute http-view on page 1852](#)
- [execute interface on page 1853](#)
- [execute internet-service4 on page 1854](#)
- [execute internet-service6 on page 1854](#)
- [execute ipam on page 1855](#)
- [execute kmip on page 1855](#)
- [execute log on page 1856](#)
- [execute mem on page 1865](#)
- [execute nethsm on page 1865](#)
- [execute nsx on page 1870](#)
- [execute ping-options on page 1875](#)
- [execute ping on page 1871](#)
- [execute ping6-options on page 1871](#)
- [execute ping6 on page 1871](#)
- [execute policy-packet-capture on page 1878](#)
- [execute preload on page 1879](#)
- [execute private-encryption-key on page 1880](#)
- [execute reboot on page 1881](#)
- [execute report-config on page 1882](#)
- [execute report on page 1881](#)
- [execute restore on page 1883](#)
- [execute revision on page 1892](#)
- [execute send-fds-statistics on page 1893](#)
- [execute send-fmg-list on page 1893](#)
- [execute set on page 1893](#)
- [execute shutdown on page 1899](#)
- [execute speed-test-custom on page 1900](#)
- [execute speed-test-ipsec on page 1900](#)
- [execute speed-test-options on page 1900](#)
- [execute speed-test-server on page 1904](#)
- [execute speed-test on page 1899](#)
- [execute ssh-options on page 1906](#)
- [execute ssh-regen-keys on page 1907](#)
- [execute ssh on page 1904](#)
- [execute ssh6-options on page 1905](#)
- [execute ssh6 on page 1904](#)
- [execute sync-IPSec on page 1907](#)
- [execute sync-session on page 1907](#)
- [execute system on page 1907](#)
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- [execute telnet-options on page 1909](#)
- [execute telnet on page 1908](#)
- [execute test on page 1910](#)
- [execute time on page 1910](#)
- [execute traceroute-options on page 1911](#)
- [execute traceroute on page 1910](#)
- [execute tracert6 on page 1912](#)
- [execute upd-vd-license on page 1914](#)
- [execute update-av on page 1912](#)
- [execute update-external-resource on page 1912](#)
- [execute update-ffdb-on-demand on page 1913](#)
- [execute update-geo-ip on page 1913](#)
- [execute update-ips on page 1913](#)
- [execute update-list on page 1913](#)
- [execute update-now on page 1913](#)
- [execute update-src-vis on page 1914](#)
- [execute upload on page 1914](#)
- [execute usb-device on page 1918](#)
- [execute usb-disk on page 1918](#)
- [execute vm-license-options on page 1920](#)
- [execute vm-license on page 1920](#)
- [execute vpn on page 1922](#)
- [execute wake-on-lan on page 1929](#)
- [execute webcache on page 1930](#)
- [execute webfilter on page 1931](#)

execute api-user

api-user

This topic includes the following commands:

- [execute api-user generate-key on page 1812](#)

execute api-user generate-key

Generate key for API users.

```
execute api-user generate-key <name>
```

Parameter	Description	Type	Size
<name>	API user name.	string	

execute auto-script

auto-script

This topic includes the following commands:

- [execute auto-script backup ftp on page 1813](#)
- [execute auto-script backup tftp on page 1813](#)
- [execute auto-script delete on page 1813](#)
- [execute auto-script result on page 1814](#)
- [execute auto-script start on page 1814](#)
- [execute auto-script status on page 1814](#)
- [execute auto-script stop on page 1814](#)
- [execute auto-script stopall on page 1814](#)

execute auto-script backup ftp

Backup output file to FTP sever.

```
execute auto-script backup ftp <name> <ftp server>[:ftp port] <Enter>|<user> <passwd>
```

Parameter	Description	Type	Size
<name>	Script name.	string	
<ftp server>[:ftp port]	FTP server IPv4, IPv6, or FQDN can be attached with port.	string	
<Enter> <user>	FTP username may be needed.	string	
<passwd>	FTP password.	string	

execute auto-script backup tftp

Backup output file to TFTP sever.

```
execute auto-script backup tftp <name> <tftp server>
```

Parameter	Description	Type	Size
<name>	Script name.	string	
<tftp server>	TFTP server IPv4, IPv6, or FQDN.	string	

execute auto-script delete

Delete output of executed scripts.

```
execute auto-script delete <name>
```

Parameter	Description	Type	Size
<name>	Script name.	string	

execute auto-script result

Display output of executed scripts.

```
execute auto-script result <name>
```

Parameter	Description	Type	Size
<name>	Script name.	string	

execute auto-script start

Start script.

```
execute auto-script start <name>
```

Parameter	Description	Type	Size
<name>	Script name.	string	

execute auto-script status

List of scripts currently running or executed.

```
execute auto-script status
```

execute auto-script stop

Stop script.

```
execute auto-script stop <name>
```

Parameter	Description	Type	Size
<name>	Script name.	string	

execute auto-script stopall

Stop all scripts currently running.

```
execute auto-script stopall
```

execute backup

backup

This topic includes the following commands:

- [execute backup config flash on page 1816](#)
- [execute backup config ftp on page 1816](#)
- [execute backup config management-station on page 1816](#)
- [execute backup config sftp on page 1816](#)
- [execute backup config tftp on page 1817](#)
- [execute backup config usb on page 1817](#)
- [execute backup config usb-mode on page 1817](#)
- [execute backup disk alllogs ftp on page 1818](#)
- [execute backup disk alllogs tftp on page 1818](#)
- [execute backup disk alllogs usb on page 1818](#)
- [execute backup disk ipsarchives ftp on page 1818](#)
- [execute backup disk ipsarchives tftp on page 1819](#)
- [execute backup disk ipsarchives usb on page 1819](#)
- [execute backup disk log ftp on page 1819](#)
- [execute backup disk log tftp on page 1819](#)
- [execute backup disk log usb on page 1820](#)
- [execute backup full-config ftp on page 1820](#)
- [execute backup full-config sftp on page 1820](#)
- [execute backup full-config tftp on page 1821](#)
- [execute backup full-config usb on page 1821](#)
- [execute backup full-config usb-mode on page 1821](#)
- [execute backup ipsuserdefsig ftp on page 1821](#)
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- [execute backup obfuscated-yaml-config ftp on page 1826](#)
- [execute backup obfuscated-yaml-config tftp on page 1826](#)
- [execute backup tls-finger-print tftp on page 1827](#)
- [execute backup yaml-config ftp on page 1827](#)
- [execute backup yaml-config tftp on page 1827](#)

execute backup config flash

Backup config file to flash.

```
execute backup config flash <comment>
```

Parameter	Description	Type	Size
<comment>	Make a comment for this config backup.	string	

execute backup config ftp

Backup config file to FTP server.

```
execute backup config ftp <string> <ftp server>[:ftp port] <Enter>|<user> <passwd>  
<Enter>|<passwd>
```

Parameter	Description	Type	Size
<string>	Make a file name (path) on the FTP server.	string	
<ftp server>[:ftp port]	FTP server IPv4, IPv6, or FQDN can be attached with port.	string	
<Enter> <user>	FTP username may be needed.	string	
<passwd>	FTP password.	string	
<Enter> <passwd>	Optional password to protect the backup content.	string	

execute backup config management-station

Backup config file to management station.

```
execute backup config management-station <comment>
```

Parameter	Description	Type	Size
<comment>	Make a comment for this config backup.	string	

execute backup config sftp

Backup config file to SFTP server.

```
execute backup config sftp <string> <sftp server>[:sftp port] <user> <passwd>  
<Enter>|<passwd>
```

Parameter	Description	Type	Size
<string>	Make a file name (path) on the SFTP server.	string	
<sftp server>[:sftp port]	SFTP server IPv4, IPv6 can be attached with port.	string	
<user>	SFTP username.	string	
<passwd>	SFTP password.	string	
<Enter> <passwd>	Optional password to protect the backup content.	string	

execute backup config tftp

Backup config file to TFTP server.

```
execute backup config tftp <string> <tftp server> <Enter>|<passwd>
```

Parameter	Description	Type	Size
<string>	Make a file name (path) on the TFTP server.	string	
<tftp server>	TFTP server IPv4, IPv6, or FQDN.	string	
<Enter> <passwd>	Optional password to protect the backup content.	string	

execute backup config usb

Backup config file to USB disk.

```
execute backup config usb <string> <Enter>|<passwd>
```

Parameter	Description	Type	Size
<string>	Make a file name on the USB disk.	string	
<Enter> <passwd>	Optional password to protect the backup content.	string	

execute backup config usb-mode

Backup config file for USB mode.

```
execute backup config usb-mode <Enter>|<passwd>
```

Parameter	Description	Type	Size
<Enter> <passwd>	Optional password to protect the backup file.	string	

execute backup disk alllogs ftp

Backup all log files to FTP server.

```
execute backup disk alllogs ftp <ftp server>[:ftp port] <Enter>|<user> <passwd>
<Enter>|<string>
```

Parameter	Description	Type	Size
<ftp server>[:ftp port]	FTP server IPv4, IPv6, or FQDN can be attached with port.	string	
<Enter> <user>	FTP username may be needed.	string	
<passwd>	FTP password.	string	
<Enter> <string>	Optional log file compression option [uncompressed compressed].	string	

execute backup disk alllogs tftp

Backup all log file(s) to TFTP server.

```
execute backup disk alllogs tftp <tftp server>
```

Parameter	Description	Type	Size
<tftp server>	TFTP server IPv4, IPv6, or FQDN.	string	

execute backup disk alllogs usb

Backup all log files to USB.

```
execute backup disk alllogs usb
```

execute backup disk ipsarchives ftp

Backup IPS archive file(s) to FTP server.

```
execute backup disk ipsarchives ftp <ftp server>[:ftp port] <Enter>|<user> <passwd>
```

Parameter	Description	Type	Size
<ftp server>[:ftp port]	FTP server IPv4, IPv6, or FQDN can be attached with port.	string	
<Enter> <user>	FTP username may be needed.	string	
<passwd>	FTP password.	string	

execute backup disk ipsarchives tftp

Backup IPS archive file(s) to TFTP server.

```
execute backup disk ipsarchives tftp <tftp server>
```

Parameter	Description	Type	Size
<tftp server>	TFTP server IPv4, IPv6, or FQDN.	string	

execute backup disk ipsarchives usb

Backup IPS archive file(s) to USB.

```
execute backup disk ipsarchives usb
```

execute backup disk log ftp

Backup specific log file(s) to FTP server.

```
execute backup disk log ftp <ftp server>[:ftp port] <user> <passwd> <string>
<Enter>|<string>
```

Parameter	Description	Type	Size
<ftp server>[:ftp port]	FTP server IPv4, IPv6, or FQDN can be attached with port.	string	
<user>	FTP username.	string	
<passwd>	FTP password.	string	
<string>	, traffic, event, virus, webfilter, ips, emailfilter, anomaly, voip, dlp, app-ctrl, waf, dns, ssh, ssl, file-filter, icap, sctp-filter, forti-switch, virtual-patch, casb	string	
<Enter> <string>	Optional log file compression option [uncompressed compressed].	string	

execute backup disk log tftp

Backup specific log file(s) to TFTP server.

```
execute backup disk log tftp <tftp server> <string>
```

Parameter	Description	Type	Size
<tftp server>	TFTP server IPv4, IPv6, or FQDN.	string	

Parameter	Description	Type	Size
<string>	, traffic, event, virus, webfilter, ips, emailfilter, anomaly, voip, dlp, app-ctrl, waf, dns, ssh, ssl, file-filter, icap, sctp-filter, forti-switch, virtual-patch, casb	string	

execute backup disk log usb

Backup specific log file(s) to USB.

```
execute backup disk log usb <string>
```

Parameter	Description	Type	Size
<string>	, traffic, event, virus, webfilter, ips, emailfilter, anomaly, voip, dlp, app-ctrl, waf, dns, ssh, ssl, file-filter, icap, sctp-filter, forti-switch, virtual-patch, casb	string	

execute backup full-config ftp

Backup full config file to FTP server.

```
execute backup full-config ftp <string> <ftp server>[:ftp port] <Enter>|<user> <passwd>
<Enter>|<passwd>
```

Parameter	Description	Type	Size
<string>	Make a file name (path) on the FTP server.	string	
<ftp server>[:ftp port]	FTP server IPv4, IPv6, or FQDN can be attached with port.	string	
<Enter> <user>	FTP username may be needed.	string	
<passwd>	FTP password.	string	
<Enter> <passwd>	Optional password to protect the backup content.	string	

execute backup full-config sftp

Backup full config file to SFTP server.

```
execute backup full-config sftp <string> <sftp server>[:sftp port] <user> <passwd>
<Enter>|<passwd>
```

Parameter	Description	Type	Size
<string>	Make a file name (path) on the SFTP server.	string	
<sftp server>[:sftp port]	SFTP server IPv4, IPv6 can be attached with port.	string	

Parameter	Description	Type	Size
<user>	SFTP username.	string	
<passwd>	SFTP password.	string	
<Enter> <passwd>	Optional password to protect the backup content.	string	

execute backup full-config tftp

Backup full config file to TFTP server.

```
execute backup full-config tftp <string> <tftp server> <Enter>|<passwd>
```

Parameter	Description	Type	Size
<string>	Make a file name (path) on the TFTP server.	string	
<tftp server>	TFTP server IPv4, IPv6, or FQDN.	string	
<Enter> <passwd>	Optional password to protect the backup content.	string	

execute backup full-config usb

Backup full config file to USB disk.

```
execute backup full-config usb <string> <Enter>|<passwd>
```

Parameter	Description	Type	Size
<string>	Make a file name on the USB disk.	string	
<Enter> <passwd>	Optional password to protect the backup content.	string	

execute backup full-config usb-mode

Backup full config file for USB mode.

```
execute backup full-config usb-mode <Enter>|<passwd>
```

Parameter	Description	Type	Size
<Enter> <passwd>	Optional password to protect the backup file.	string	

execute backup ipsuserdefsig ftp

Backup user defined IPS signatures to FTP server.

```
execute backup ipsuserdefsig ftp <string> <ftp server>[:ftp port] <Enter>|<user> <passwd>
```

Parameter	Description	Type	Size
<string>	Make a file name (path) on the FTP server.	string	
<ftp server>[:ftp port]	FTP server IPv4, IPv6, or FQDN can be attached with port.	string	
<Enter> <user>	FTP username may be needed.	string	
<passwd>	FTP password.	string	

execute backup ipsuserdefsig tftp

Backup user defined IPS signatures to TFTP server.

```
execute backup ipsuserdefsig tftp <string> <tftp server>
```

Parameter	Description	Type	Size
<string>	Make a file name (path) on the TFTP server.	string	
<tftp server>	TFTP server IPv4, IPv6, or FQDN.	string	

execute backup memory alllogs ftp

Backup all log files to FTP server.

```
execute backup memory alllogs ftp <ftp server>[:ftp port] <Enter>|<user> <passwd>
```

Parameter	Description	Type	Size
<ftp server>[:ftp port]	FTP server IPv4, IPv6, or FQDN can be attached with port.	string	
<Enter> <user>	FTP username may be needed.	string	
<passwd>	FTP password.	string	

execute backup memory alllogs tftp

Backup all log file(s) to TFTP server.

```
execute backup memory alllogs tftp <tftp server>
```

Parameter	Description	Type	Size
<tftp server>	TFTP server IPv4, IPv6, or FQDN.	string	

execute backup memory log ftp

Backup specific log file(s) to FTP server.

```
execute backup memory log ftp <ftp server>[:ftp port] <user> <passwd> <string>
```

Parameter	Description	Type	Size
<ftp server> [:ftp port]	FTP server IPv4, IPv6, or FQDN can be attached with port.	string	
<user>	FTP username.	string	
<passwd>	FTP password.	string	
<string>	, traffic, event, virus, webfilter, ips, emailfilter, anomaly, voip, dlp, app-ctrl, waf, dns, ssh, ssl, file-filter, icap, sctp-filter, forti-switch, virtual-patch, casb	string	

execute backup memory log tftp

Backup specific log file(s) to TFTP server.

```
execute backup memory log tftp <tftp server> <string>
```

Parameter	Description	Type	Size
<tftp server>	TFTP server IPv4, IPv6, or FQDN.	string	
<string>	, traffic, event, virus, webfilter, ips, emailfilter, anomaly, voip, dlp, app-ctrl, waf, dns, ssh, ssl, file-filter, icap, sctp-filter, forti-switch, virtual-patch, casb	string	

execute backup obfuscated-config ftp

Backup obfuscated config file to FTP server.

```
execute backup obfuscated-config ftp <string> <ftp server>[:ftp port] <Enter>|<user>  
<passwd> <Enter>|<passwd>
```

Parameter	Description	Type	Size
<string>	Make a file name (path) on the FTP server.	string	
<ftp server>[:ftp port]	FTP server IPv4, IPv6, or FQDN can be attached with port.	string	
<Enter> <user>	FTP username may be needed.	string	
<passwd>	FTP password.	string	
<Enter> <passwd>	Optional password to protect the backup content.	string	

execute backup obfuscated-config management-station

Backup obfuscated config file to management station.

```
execute backup obfuscated-config management-station <comment>
```

Parameter	Description	Type	Size
<comment>	Make a comment for this config backup.	string	

execute backup obfuscated-config sftp

Backup obfuscated config file to SFTP server.

```
execute backup obfuscated-config sftp <string> <sftp server>[:sftp port] <user> <passwd>  
<Enter>|<passwd>
```

Parameter	Description	Type	Size
<string>	Make a file name (path) on the SFTP server.	string	
<sftp server>[:sftp port]	SFTP server IPv4, IPv6 can be attached with port.	string	
<user>	SFTP username.	string	
<passwd>	SFTP password.	string	
<Enter> <passwd>	Optional password to protect the backup content.	string	

execute backup obfuscated-config tftp

Backup obfuscated config file to TFTP server.

```
execute backup obfuscated-config tftp <string> <tftp server> <Enter>|<passwd>
```

Parameter	Description	Type	Size
<string>	Make a file name (path) on the TFTP server.	string	
<tftp server>	TFTP server IPv4, IPv6, or FQDN.	string	
<Enter> <passwd>	Optional password to protect the backup content.	string	

execute backup obfuscated-config usb

Backup obfuscated config file to USB disk.

```
execute backup obfuscated-config usb <string> <Enter>|<passwd>
```

Parameter	Description	Type	Size
<string>	Make a file name on the USB disk.	string	
<Enter> <passwd>	Optional password to protect the backup content.	string	

execute backup obfuscated-full-config ftp

Backup obfuscated full config file to FTP server.

```
execute backup obfuscated-full-config ftp <string> <ftp server>[:ftp port] <Enter>|<user>
<passwd> <Enter>|<passwd>
```

Parameter	Description	Type	Size
<string>	Make a file name (path) on the FTP server.	string	
<ftp server>[:ftp port]	FTP server IPv4, IPv6, or FQDN can be attached with port.	string	
<Enter> <user>	FTP username may be needed.	string	
<passwd>	FTP password.	string	
<Enter> <passwd>	Optional password to protect the backup content.	string	

execute backup obfuscated-full-config sftp

Backup obfuscated full config file to SFTP server.

```
execute backup obfuscated-full-config sftp <string> <sftp server>[:sftp port] <user>
<passwd> <Enter>|<passwd>
```

Parameter	Description	Type	Size
<string>	Make a file name (path) on the SFTP server.	string	
<sftp server>[:sftp port]	SFTP server IPv4, IPv6 can be attached with port.	string	
<user>	SFTP username.	string	
<passwd>	SFTP password.	string	
<Enter> <passwd>	Optional password to protect the backup content.	string	

execute backup obfuscated-full-config tftp

Backup obfuscated full config file to TFTP server.

```
execute backup obfuscated-full-config tftp <string> <tftp server> <Enter>|<passwd>
```

Parameter	Description	Type	Size
<string>	Make a file name (path) on the TFTP server.	string	
<tftp server>	TFTP server IPv4, IPv6, or FQDN.	string	
<Enter> <passwd>	Optional password to protect the backup content.	string	

execute backup obfuscated-full-config usb

Backup obfuscated full config file to USB disk.

```
execute backup obfuscated-full-config usb <string> <Enter>|<passwd>
```

Parameter	Description	Type	Size
<string>	Make a file name on the USB disk.	string	
<Enter> <passwd>	Optional password to protect the backup content.	string	

execute backup obfuscated-yaml-config ftp

Backup obfuscated YAML config file to FTP server.

```
execute backup obfuscated-yaml-config ftp <string> <ftp server>[:ftp port] <Enter>|<user>  
<passwd> <Enter>|<passwd>
```

Parameter	Description	Type	Size
<string>	Make a file name (path) on the FTP server.	string	
<ftp server>[:ftp port]	FTP server IPv4, IPv6, or FQDN can be attached with port.	string	
<Enter> <user>	FTP username may be needed.	string	
<passwd>	FTP password.	string	
<Enter> <passwd>	Optional password to protect the backup content.	string	

execute backup obfuscated-yaml-config tftp

Backup obfuscated YAML config file to TFTP server.

```
execute backup obfuscated-yaml-config tftp <string> <tftp server> <Enter>|<passwd>
```

Parameter	Description	Type	Size
<string>	Make a file name (path) on the TFTP server.	string	
<tftp server>	TFTP server IPv4, IPv6, or FQDN.	string	
<Enter> <passwd>	Optional password to protect the backup content.	string	

execute backup tls-finger-print tftp

Backup config file to TFTP server.

```
execute backup tls-finger-print tftp <string> <tftp server> <Enter>|<passwd>
```

Parameter	Description	Type	Size
<string>	Make a file name (path) on the TFTP server.	string	
<tftp server>	TFTP server IPv4, IPv6, or FQDN.	string	
<Enter> <passwd>	Optional password to protect the backup content.	string	

execute backup yaml-config ftp

Backup YAML config file to FTP server.

```
execute backup yaml-config ftp <string> <ftp server>[:ftp port] <Enter>|<user> <passwd>
<Enter>|<passwd>
```

Parameter	Description	Type	Size
<string>	Make a file name (path) on the FTP server.	string	
<ftp server>[:ftp port]	FTP server IPv4, IPv6, or FQDN can be attached with port.	string	
<Enter> <user>	FTP username may be needed.	string	
<passwd>	FTP password.	string	
<Enter> <passwd>	Optional password to protect the backup content.	string	

execute backup yaml-config tftp

Backup YAML config file to TFTP server.

```
execute backup yaml-config tftp <string> <tftp server> <Enter>|<passwd>
```

Parameter	Description	Type	Size
<string>	Make a file name (path) on the TFTP server.	string	
<tftp server>	TFTP server IPv4, IPv6, or FQDN.	string	
<Enter> <passwd>	Optional password to protect the backup content.	string	

execute batch

batch

This topic includes the following commands:

- [execute batch end on page 1828](#)
- [execute batch lastlog on page 1828](#)
- [execute batch start on page 1828](#)
- [execute batch status on page 1828](#)

execute batch end

Batch mode end.

```
execute batch end
```

execute batch lastlog

Read the result of last batch commands.

```
execute batch lastlog
```

execute batch start

Batch mode start.

```
execute batch start
```

execute batch status

Batch mode status.

```
execute batch status
```

execute central-mgmt

central-mgmt

This topic includes the following commands:

- [execute central-mgmt register-device on page 1829](#)
- [execute central-mgmt set-mgmt-id on page 1829](#)
- [execute central-mgmt unregister-device on page 1829](#)

execute central-mgmt register-device

Register device to FortiManager from unregistered device list.

```
execute central-mgmt register-device <fmg-serial-no> <fmg-register-password>
```

Parameter	Description	Type	Size
<fmg-serial-no>	FortiManager serial number.	string	
<fmg-register-password>	Register password in to FortiManager.	string	

execute central-mgmt set-mgmt-id

Management ID of Central Management Service.

```
execute central-mgmt set-mgmt-id <management id>
```

Parameter	Description	Type	Size
<management id>	Management ID (must be entered in encrypted format).	string	

execute central-mgmt unregister-device

Remove device from its manager's device list.

```
execute central-mgmt unregister-device <fmg-serial-no>
```

Parameter	Description	Type	Size
<fmg-serial-no>	FortiManager serial number.	string	

execute cfg

cfg

This topic includes the following commands:

- [execute cfg reload on page 1830](#)
- [execute cfg save on page 1830](#)

execute cfg reload

Reboot to reload the configs.

```
execute cfg reload
```

execute cfg save

Save configs.

```
execute cfg save
```

execute clear

clear

This topic includes the following commands:

- [execute clear system arp table on page 1830](#)

execute clear system arp table

Clear system ARP table.

```
execute clear system arp table
```

execute cli

cli

This topic includes the following commands:

- [execute cli check-template-status on page 1830](#)
- [execute cli status-msg-only on page 1831](#)

execute cli check-template-status

Check SCP script template running status.

```
execute cli check-template-status
```

execute cli status-msg-only

CLI standardized error output.

```
execute cli status-msg-only <enable/disable>
```

Parameter	Description	Type	Size
<enable/disable>	Enable/disable CLI standardized error output.	string	

execute cloud-service

cloud-service

This topic includes the following commands:

- [execute cloud-service gen-jwt-as-token on page 1831](#)
- [execute cloud-service list on page 1831](#)
- [execute cloud-service manual-gen-jwt-as-token on page 1832](#)

execute cloud-service gen-jwt-as-token

Manually generate a JSON Web Token to be used as bearer token.

```
execute cloud-service gen-jwt-as-token <string>
```

Parameter	Description	Type	Size
<string>	Cloud service name.	string	

execute cloud-service list

List cloud service information.

```
execute cloud-service list <string>
```

Parameter	Description	Type	Size
<string>	Cloud service name.	string	

execute cloud-service manual-gen-jwt-as-token

Manually generate a JSON Web Token to be used as bearer token.

```
execute cloud-service manual-gen-jwt-as-token <string>
```

Parameter	Description	Type	Size
<string>	keyid.	string	

execute config-transaction

config-transaction

This topic includes the following commands:

- [execute config-transaction abort on page 1832](#)
- [execute config-transaction commit on page 1832](#)
- [execute config-transaction start on page 1832](#)

execute config-transaction abort

Abort configuration transaction.

```
execute config-transaction abort
```

execute config-transaction commit

Commit configuration transaction.

```
execute config-transaction commit
```

execute config-transaction start

Start configuration transaction.

```
execute config-transaction start <integer>
```

Parameter	Description	Type	Size
<integer>	Transaction timeout in minutes (1 - 60). Default value is 5.	string	

execute cpu

cpu

This topic includes the following commands:

- [execute cpu add on page 1833](#)
- [execute cpu show on page 1833](#)

execute cpu add

Activate new CPU.

```
execute cpu add <number>
```

Parameter	Description	Type	Size
<number>	New Active CPU Number.	string	

execute cpu show

Show CPU number.

```
execute cpu show
```

execute date

System date.

```
execute date <yyyy-mm-dd>
```

Parameter	Description	Type	Size
<yyyy-mm-dd>	yyyy: 2001-2037, mm: 1-12, dd: 1-31.	string	

execute device-upgrade

device-upgrade

This topic includes the following commands:

- [execute device-upgrade cancel on page 1834](#)
- [execute device-upgrade immediate on page 1834](#)

execute device-upgrade cancel

Cancel a Fortinet device's upgrade by removing it from the upgrade table.

```
execute device-upgrade cancel <serial>
```

Parameter	Description	Type	Size
<serial>	Serial number of the Fortinet device to upgrade.	string	

execute device-upgrade immediate

Configure a Fortinet device to upgrade immediately.

```
execute device-upgrade immediate <device-type> <serial> <major> <minor> <patch>
```

Parameter	Description	Type	Size
<device-type>	Fortinet device type to upgrade.	string	
<serial>	Fortinet device serial number to upgrade.	string	
<major>	Major version of the Fortinet OS image being upgraded to.	string	
<minor>	Minor version of the Fortinet OS image being upgraded to.	string	
<patch>	Patch version of the Fortinet OS image being upgraded to.	string	

execute dhcp

dhcp

This topic includes the following commands:

- [execute dhcp lease-clear on page 1834](#)
- [execute dhcp lease-list on page 1835](#)

execute dhcp lease-clear

Clear all DHCP leases.

```
execute dhcp lease-clear <IPv4 address> or <IPv4 starting address-IPv4 ending address> <all>
```

Parameter	Description	Type	Size
<IPv4 address> or <IPv4 starting address-IPv4 ending address>	Clear lease(s) on this IP address.	string	
<all>	Clear all leases.	string	

execute dhcp lease-list

List all DHCP leases.

```
execute dhcp lease-list <interface>
```

Parameter	Description	Type	Size
<interface>	List leases on this interface.	string	

execute dhcp6

dhcp6

This topic includes the following commands:

- [execute dhcp6 lease-clear on page 1835](#)
- [execute dhcp6 lease-list on page 1836](#)

execute dhcp6 lease-clear

Clear all DHCPv6 leases.

```
execute dhcp6 lease-clear <IPv6 address> or <IPv6 starting address-IPv6 ending address>  
<all>
```

Parameter	Description	Type	Size
<IPv6 address> or <IPv6 starting address-IPv6 ending address>	Clear lease(s) on this IPv6 address.	string	
<all>	Clear all leases.	string	

execute dhcp6 lease-list

List all DHCPv6 leases.

```
execute dhcp6 lease-list <interface>
```

Parameter	Description	Type	Size
<interface>	List leases on this interface.	string	

execute disconnect-admin-session

Disconnect logged-in admin user.

```
execute disconnect-admin-session <integer>
```

Parameter	Description	Type	Size
<integer>	Index of user to be disconnected in logged-users table.	string	

execute disk

disk

This topic includes the following commands:

- [execute disk format on page 1836](#)
- [execute disk list on page 1836](#)
- [execute disk scan on page 1837](#)

execute disk format

Format a partition.

```
execute disk format
```

execute disk list

List disk devices and partitions.

```
execute disk list
```


execute disk scan

Scan a partition and fix errors.

```
execute disk scan
```

execute enter

Select virtual domain.

```
execute enter <name>
```

Parameter	Description	Type	Size
<name>	VDOM name.	string	

execute erase-disk

Erase a disk.

```
execute erase-disk
```

execute fabric-vpn

fabric-vpn

This topic includes the following commands:

- [execute fabric-vpn flush-setup on page 1837](#)
- [execute fabric-vpn update-setup on page 1837](#)

execute fabric-vpn flush-setup

Remove fabric VPN settings.

```
execute fabric-vpn flush-setup
```

execute fabric-vpn update-setup

Update fabric VPN setup.

```
execute fabric-vpn update-setup
```

execute factoryreset

Reset to factory default now.

```
execute factoryreset <keepvmlicense>
```

Parameter	Description	Type	Size
<keepvmlicense>	Keep VM license.	string	

execute factoryreset2

Reset to factory default except system.global.vdom-mode/system.global.long-vdom-name/VDOMS/system.virtual-switch/system.interface/system.settings/router.static/router.static6.

```
execute factoryreset2 <keepvmlicense>
```

Parameter	Description	Type	Size
<keepvmlicense>	Keep VM license.	string	

execute factoryreset-for-central-management

Reset to factory default except system.central-management.serial-number/system.central-management.fmg.

```
execute factoryreset-for-central-management <keepvmlicense>
```

Parameter	Description	Type	Size
<keepvmlicense>	Keep VM license.	string	

execute factoryreset-shutdown

Reset to factory default and shutdown.

```
execute factoryreset-shutdown <keepvmlicense>
```

Parameter	Description	Type	Size
<keepvmlicense>	Keep VM license.	string	

execute fctems

fctems

This topic includes the following commands:

- [execute fctems is-verified on page 1839](#)
- [execute fctems unverify on page 1839](#)
- [execute fctems verify on page 1839](#)

execute fctems is-verified

Check if Configured EMS server has a verified certificate.

```
execute fctems is-verified <fctems>
```

Parameter	Description	Type	Size
<fctems>	FortiClient EMS table entry id in CMDB.	string	

execute fctems unverify

Unverify FortiClient EMS server.

```
execute fctems unverify <fctems>
```

Parameter	Description	Type	Size
<fctems>	FortiClient EMS table entry id in CMDB.	string	

execute fctems verify

Verify FortiClient EMS server.

```
execute fctems verify <fctems>
```

Parameter	Description	Type	Size
<fctems>	FortiClient EMS table entry id in CMDB.	string	

execute federated-upgrade

federated-upgrade

This topic includes the following commands:

- [execute federated-upgrade cancel on page 1840](#)
- [execute federated-upgrade initialize on page 1840](#)
- [execute federated-upgrade quick-fortigate-upgrade on page 1840](#)
- [execute federated-upgrade quick-full-upgrade on page 1841](#)
- [execute federated-upgrade restart on page 1841](#)
- [execute federated-upgrade safe-cancel on page 1841](#)
- [execute federated-upgrade status on page 1841](#)

execute federated-upgrade cancel

Cancel the currently configured upgrade.

```
execute federated-upgrade cancel
```

execute federated-upgrade initialize

Set up a federated upgrade.

```
execute federated-upgrade initialize
```

execute federated-upgrade quick-fortigate-upgrade

Set up a 15 minute immediate mode upgrade for all FortiGates in the CSF tree.

```
execute federated-upgrade quick-fortigate-upgrade <major> <minor> <patch> <delay-minutes>  
<max-minutes>
```

Parameter	Description	Type	Size
<major>	Major version of the Fortinet OS image being upgraded to.	string	
<minor>	Minor version of the Fortinet OS image being upgraded to.	string	
<patch>	Patch version of the Fortinet OS image being upgraded to.	string	
<delay-minutes>	Minutes to delay before starting the upgrade setup.	string	
<max-minutes>	Number of minutes allowed for upgrade preparation.	string	

execute federated-upgrade quick-full-upgrade

Set up a 15 minute immediate mode upgrade for all CSF devices.

```
execute federated-upgrade quick-full-upgrade <major> <minor> <patch> <delay-minutes> <max-minutes>
```

Parameter	Description	Type	Size
<major>	Major version of the Fortinet OS image being upgraded to.	string	
<minor>	Minor version of the Fortinet OS image being upgraded to.	string	
<patch>	Patch version of the Fortinet OS image being upgraded to.	string	
<delay-minutes>	Minutes to delay before starting the upgrade setup.	string	
<max-minutes>	Number of minutes allowed for upgrade preparation.	string	

execute federated-upgrade restart

Restart the currently configured federated upgrade.

```
execute federated-upgrade restart
```

execute federated-upgrade safe-cancel

Cancel the currently configured upgrade via the safe cancel API. Only cancels user-created upgrades.

```
execute federated-upgrade safe-cancel
```

execute federated-upgrade status

Show the current status of federated upgrade.

```
execute federated-upgrade status
```

execute fips

fips

This topic includes the following commands:

- [execute fips tftp-drbg-entropy-source on page 1842](#)
- [execute fips tftp-test-vectors on page 1842](#)

execute fips tftp-drbg-entropy-source

tftp files and generate drbg entropy source samples

```
execute fips tftp-drbg-entropy-source <ip> <dir> <number>
```

Parameter	Description	Type	Size
<ip>	IP address of the tftp server	string	
<dir>	directory for the entropy sample files	string	
<number>	samples size.	string	

execute fips tftp-test-vectors

tftp files and generate test vector results

```
execute fips tftp-test-vectors <ip> <dir> <file name>
```

Parameter	Description	Type	Size
<ip>	IP address of the tftp server	string	
<dir>	directory of the test files	string	
<file name>	The JSON file to test.	string	

execute firewall

firewall

This topic includes the following commands:

- [execute firewall ssh generate local-ca on page 1842](#)
- [execute firewall ssh generate local-key on page 1843](#)

execute firewall ssh generate local-ca

Generate the default ssh local key.

```
execute firewall ssh generate local-ca <string>
```

Parameter	Description	Type	Size
<string>	Local CA name.	string	

execute firewall ssh generate local-key

Generate the default ssh local key.

```
execute firewall ssh generate local-key <string>
```

Parameter	Description	Type	Size
<string>	Local key name.	string	

execute formatlogdisk

Format log disk.

```
execute formatlogdisk
```

execute forticloud-sandbox

forticloud-sandbox

This topic includes the following commands:

- [execute forticloud-sandbox region on page 1843](#)
- [execute forticloud-sandbox update on page 1843](#)

execute forticloud-sandbox region

Get FortiCloud sandbox region.

```
execute forticloud-sandbox region
```

execute forticloud-sandbox update

Update FortiCloud sandbox contract.

```
execute forticloud-sandbox update
```

execute fortiguard-log

fortiguard-log

This topic includes the following commands:

- [execute fortiguard-log certificate-activation on page 1844](#)
- [execute fortiguard-log migration on page 1844](#)
- [execute fortiguard-log update on page 1844](#)

execute fortiguard-log certificate-activation

Activate FortiCloud certification.

```
execute fortiguard-log certificate-activation <code>
```

Parameter	Description	Type	Size
<code>	Activation code.	string	

execute fortiguard-log migration

Migrate standalone FortiProxy Cloud account to FortiCloud.

```
execute fortiguard-log migration <password>
```

Parameter	Description	Type	Size
<password>	Password.	string	

execute fortiguard-log update

Update FortiCloud Contract.

```
execute fortiguard-log update
```

execute fortiguard-message

fortiguard-message

This topic includes the following commands:

- [execute fortiguard-message add on page 1845](#)
- [execute fortiguard-message info on page 1845](#)

- [execute fortiguard-message update on page 1845](#)

execute fortiguard-message add

Add FortiGuard Message Service activation code.

```
execute fortiguard-message add <activation code>
```

Parameter	Description	Type	Size
<activation code>	Activation code for FortiGuard Message Service.	string	

execute fortiguard-message info

Show info about FortiGuard Message Service.

```
execute fortiguard-message info
```

execute fortiguard-message update

Force to update FortiGuard Message Service.

```
execute fortiguard-message update
```

execute fortimanager

fortimanager

This topic includes the following commands:

- [execute fortimanager fetch on page 1845](#)
- [execute fortimanager register on page 1846](#)

execute fortimanager fetch

Fetch and verify the FortiManager certificate

```
execute fortimanager fetch
```

execute fortimanager register

Register Fortigate to Fortimanager

```
execute fortimanager register <ip>
```

Parameter	Description	Type	Size
<ip>	Fortimanager's ip that Fortigate will register to	string	

execute fortitoken

fortitoken

This topic includes the following commands:

- [execute fortitoken activate on page 1846](#)
- [execute fortitoken import ftp on page 1846](#)
- [execute fortitoken import tftp on page 1847](#)
- [execute fortitoken import usb on page 1847](#)
- [execute fortitoken import-sn-file on page 1847](#)
- [execute fortitoken sync on page 1847](#)

execute fortitoken activate

Activate FortiToken(s) with FortiGuard.

```
execute fortitoken activate <id>
```

Parameter	Description	Type	Size
<id>	FortiToken ID.	string	

execute fortitoken import ftp

Import FortiToken seeds file from FTP server.

```
execute fortitoken import ftp <file name> <ftp server>[:ftp port] <Enter>|<user> <passwd>
```

Parameter	Description	Type	Size
<file name>	FortiToken seeds file name.	string	
<ftp server>[:ftp port]	FTP server IPv4, IPv6, or FQDN can be attached with port.	string	

Parameter	Description	Type	Size
<Enter> <user>	FTP username may be needed.	string	
<passwd>	FTP password.	string	

execute fortitoken import tftp

Import FortiToken seeds file from TFTP server.

```
execute fortitoken import tftp <file name> <tftp server>
```

Parameter	Description	Type	Size
<file name>	FortiToken seeds file name.	string	
<tftp server>	TFTP server IPv4, IPv6, or FQDN.	string	

execute fortitoken import usb

Import FortiToken seeds file from USB drive.

```
execute fortitoken import usb <file name>
```

Parameter	Description	Type	Size
<file name>	FortiToken seeds file name.	string	

execute fortitoken import-sn-file

Import FTK_200 serial number from FortiCare.

```
execute fortitoken import-sn-file <FTK_200 Serial Number>
```

Parameter	Description	Type	Size
<FTK_200 Serial Number>	FTK_200 serial number.	string	

execute fortitoken sync

Synchronize FortiToken by adjusting for drift of internal clock.

```
execute fortitoken sync <id> <code> <next code>
```

Parameter	Description	Type	Size
<id>	FortiToken ID.	string	
<code>	FortiToken code.	string	
<next code>	Next FortiToken code.	string	

execute fortitoken-cloud

fortitoken-cloud

This topic includes the following commands:

- [execute fortitoken-cloud migrate-ftm on page 1848](#)
- [execute fortitoken-cloud new on page 1848](#)
- [execute fortitoken-cloud show on page 1849](#)
- [execute fortitoken-cloud sync on page 1849](#)
- [execute fortitoken-cloud trial on page 1849](#)
- [execute fortitoken-cloud update on page 1849](#)

execute fortitoken-cloud migrate-ftm

Migrate FortiToken service to FortiToken Cloud.

```
execute fortitoken-cloud migrate-ftm <license number> <vdom>
```

Parameter	Description	Type	Size
<license number>	FortiToken mobile license number.	string	
<vdom>	VDOM name.	string	

execute fortitoken-cloud new

Send new activation code for a user.

```
execute fortitoken-cloud new <user name> <user type> <vdom>
```

Parameter	Description	Type	Size
<user name>	User name for new token.	string	
<user type>	Enter admin, local or remote.	string	
<vdom>	VDOM name.	string	

execute fortitoken-cloud show

Show service status of this FortiProxy.

```
execute fortitoken-cloud show
```

execute fortitoken-cloud sync

Synchronize users to FortiToken Cloud.

```
execute fortitoken-cloud sync <user type>
```

Parameter	Description	Type	Size
<user type>	Enter <return>, all, local or remote.	string	

execute fortitoken-cloud trial

Activate free trial.

```
execute fortitoken-cloud trial
```

execute fortitoken-cloud update

Update VDOM list to FortiToken Cloud.

```
execute fortitoken-cloud update
```

execute fortitoken-mobile

fortitoken-mobile

This topic includes the following commands:

- [execute fortitoken-mobile import on page 1849](#)
- [execute fortitoken-mobile poll on page 1850](#)
- [execute fortitoken-mobile provision on page 1850](#)
- [execute fortitoken-mobile renew on page 1850](#)

execute fortitoken-mobile import

Import a list of tokens from FortiGuard to the FortiProxy unit.

```
execute fortitoken-mobile import <code>
```

Parameter	Description	Type	Size
<code>	Software Token Redemption Certificate.	string	

execute fortitoken-mobile poll

Poll soft token states.

```
execute fortitoken-mobile poll
```

execute fortitoken-mobile provision

Provision a soft token.

```
execute fortitoken-mobile provision <sn>
```

Parameter	Description	Type	Size
<sn>	MobileToken serial number.	string	

execute fortitoken-mobile renew

Renew a locked mobile FortiToken.

```
execute fortitoken-mobile renew <sn>
```

Parameter	Description	Type	Size
<sn>	MobileToken serial number.	string	

execute fsso

fsso

This topic includes the following commands:

- [execute fsso refresh on page 1850](#)

execute fsso refresh

Refresh FSSO groups.

```
execute fsso refresh
```

execute ha

ha

This topic includes the following commands:

- [execute ha disconnect on page 1851](#)
- [execute ha failover set on page 1851](#)
- [execute ha failover status on page 1851](#)
- [execute ha failover unset on page 1852](#)
- [execute ha manage on page 1852](#)
- [execute ha synchronize on page 1852](#)

execute ha disconnect

Disconnect from HA cluster.

```
execute ha disconnect <string>
```

Parameter	Description	Type	Size
<string>	Serial number.	string	

execute ha failover set

Set the given virtual cluster as secondary and trigger failover. Argument optional; if argument omitted, all virtual clusters are affected.

```
execute ha failover set [integer]
```

Parameter	Description	Type	Size
[integer]	Virtual cluster ID. Optional; if not given, all virtual clusters are affected.	string	

execute ha failover status

Display whether the given virtual cluster has been set as secondary for failover. Argument optional; if no argument given, display statuses of all virtual clusters.

```
execute ha failover status [integer]
```

Parameter	Description	Type	Size
[integer]	Virtual cluster ID. Optional; if not given, all virtual clusters are affected.	string	

execute ha failover unset

If the given virtual cluster has been set as secondary before, unset it so HA will use normal criteria to decide the primary. May trigger a failover. Argument optional; if argument not given, all virtual clusters are affected.

```
execute ha failover unset [integer]
```

Parameter	Description	Type	Size
[integer]	Virtual cluster ID. Optional; if not given, all virtual clusters are affected.	string	

execute ha manage

HA cluster index.

```
execute ha manage <string>
```

Parameter	Description	Type	Size
<string>	HA cluster index.	string	

execute ha synchronize

HA synchronize commands.

```
execute ha synchronize <string>
```

Parameter	Description	Type	Size
<string>	File type.	string	

execute http-view

http-view

This topic includes the following commands:

- [execute http-view report on page 1853](#)

execute http-view report

Report latest HTTP/S traffic statistics

```
execute http-view report <type> <top n> <minutes>
```

Parameter	Description	Type	Size
<type>	Numeric, report type	string	
<top n>	Number of top entries to display (5 - 100)	string	
<minutes>	Duration of recent time to report (1 - Max-Configured)	string	

execute interface

interface

This topic includes the following commands:

- [execute interface dhcp6client-renew on page 1853](#)
- [execute interface dhcpclient-renew on page 1853](#)
- [execute interface pppoe-reconnect on page 1854](#)

execute interface dhcp6client-renew

Renew DHCPv6 lease.

```
execute interface dhcp6client-renew <interface>
```

Parameter	Description	Type	Size
<interface>	Renew DHCPv6 lease on this interface.	string	

execute interface dhcpclient-renew

Renew DHCP lease.

```
execute interface dhcpclient-renew <interface>
```

Parameter	Description	Type	Size
<interface>	Renew DHCP lease on this interface.	string	

execute interface pppoe-reconnect

Reconnect to PPPoE server.

```
execute interface pppoe-reconnect <interface>
```

Parameter	Description	Type	Size
<interface>	Reconnect PPPoE on this interface.	string	

execute internet-service4

internet-service4

This topic includes the following commands:

- [execute internet-service4 refresh on page 1854](#)

execute internet-service4 refresh

Refresh Internet Service Database(IPV4).

```
execute internet-service4 refresh
```

execute internet-service6

internet-service6

This topic includes the following commands:

- [execute internet-service6 refresh on page 1854](#)

execute internet-service6 refresh

Refresh Internet Service Database(IPV6).

```
execute internet-service6 refresh
```

execute ipam

ipam

This topic includes the following commands:

- [execute ipam create-dhcp-server on page 1855](#)

execute ipam create-dhcp-server

Create a DHCP server managed by IPAM.

```
execute ipam create-dhcp-server <interface>
```

Parameter	Description	Type	Size
<interface>	Interface for the DHCP server.	string	

execute kmip

kmip

This topic includes the following commands:

- [execute kmip create on page 1855](#)
- [execute kmip destroy on page 1856](#)
- [execute kmip get on page 1856](#)
- [execute kmip locate on page 1856](#)
- [execute kmip rekey on page 1856](#)

execute kmip create

Create Symmetric key(s) in KMIP server

```
execute kmip create <kmip server> <algo> <keylen> <name>
```

Parameter	Description	Type	Size
<kmip server>	KMIP server name.	string	
<algo>	Cryptographic Algorithm.	string	
<keylen>	Key size (in bits).	string	
<name>	Key name (separate with ' ' or '*' for multiple items).	string	

execute kmip destroy

Destroy Symmetric key(s) in KMIP server

```
execute kmip destroy <kmip server> <keyid>
```

Parameter	Description	Type	Size
<kmip server>	KMIP server name.	string	
<keyid>	Key ID (in hex string, separate with ' ' or '*' for multiple items).	string	

execute kmip get

Get Symmetric key(s) from KMIP server

```
execute kmip get
```

execute kmip locate

locate Symmetric key(s) in KMIP server

```
execute kmip locate <kmip server> <name>
```

Parameter	Description	Type	Size
<kmip server>	KMIP server name.	string	
<name>	Key name (separate with ' ' or '*' for multiple items).	string	

execute kmip rekey

Rekey Symmetric key(s) from KMIP server

```
execute kmip rekey <kmip server> <keyid>
```

Parameter	Description	Type	Size
<kmip server>	KMIP server name.	string	
<keyid>	Key ID (in hex string, separate with ' ' or '*' for multiple items).	string	

execute log

```
log
```

This topic includes the following commands:

- [execute log backup ftp on page 1857](#)
- [execute log backup local on page 1858](#)
- [execute log backup tftp on page 1858](#)
- [execute log delete on page 1858](#)
- [execute log delete-all on page 1858](#)
- [execute log detail on page 1859](#)
- [execute log display on page 1859](#)
- [execute log filter category on page 1859](#)
- [execute log filter device on page 1859](#)
- [execute log filter dump on page 1859](#)
- [execute log filter field on page 1860](#)
- [execute log filter free-style on page 1860](#)
- [execute log filter ha-member on page 1860](#)
- [execute log filter local-search-mode on page 1860](#)
- [execute log filter max-checklines on page 1861](#)
- [execute log filter pre-fetch-pages on page 1861](#)
- [execute log filter reset on page 1861](#)
- [execute log filter start-line on page 1861](#)
- [execute log filter view-lines on page 1862](#)
- [execute log flush-cache on page 1862](#)
- [execute log flush-cache-all on page 1862](#)
- [execute log fortianalyzer manual-failover on page 1862](#)
- [execute log fortianalyzer test-connectivity on page 1862](#)
- [execute log fortianalyzer-cloud test-connectivity on page 1862](#)
- [execute log fortianalyzer2 manual-failover on page 1862](#)
- [execute log fortianalyzer3 manual-failover on page 1863](#)
- [execute log fortiguard test-connectivity on page 1863](#)
- [execute log list on page 1863](#)
- [execute log raw-backup ftp on page 1863](#)
- [execute log raw-backup tftp on page 1863](#)
- [execute log restore on page 1864](#)
- [execute log roll on page 1864](#)
- [execute log shift-time on page 1864](#)
- [execute log upload on page 1864](#)
- [execute log upload-progress on page 1864](#)

execute log backup ftp

Backup logs and report databases to remote FTP server.

```
execute log backup ftp <filename> <ftp server>[:ftp port] <user> <passwd>
```

Parameter	Description	Type	Size
<filename>	Make file name on the remote FTP server	string	
<ftp server> [:ftp port]	FTP server IPv4, IPv6, or FQDN can be attached with port.	string	
<user>	FTP username.	string	
<passwd>	FTP password.	string	

execute log backup local

Backup logs and report databases to local storage device.

```
execute log backup local <path>
```

Parameter	Description	Type	Size
<path>	Path to store logs and report databases.	string	

execute log backup tftp

Backup logs and report databases to remote TFTP server.

```
execute log backup tftp <filename> <tftp server>
```

Parameter	Description	Type	Size
<filename>	Make file name on the remote TFTP server	string	
<tftp server>	TFTP server IPv4, IPv6, or FQDN.	string	

execute log delete

Delete local logs of one category.

```
execute log delete
```

execute log delete-all

Delete all local logs and recreate report database.

```
execute log delete-all
```

execute log detail

Display utm log entries for a particular traffic log.

```
execute log detail <category> <utmref>
```

Parameter	Description	Type	Size
<category>	Category for UTM logs	string	
<utmref>	You can copy and paste it from log display result by tuning on it using 'exec log filter show-utm-ref 1'	string	

execute log display

Display filtered log entries.

```
execute log display
```

execute log filter category

Category.

```
execute log filter category <category>
```

Parameter	Description	Type	Size
<category>	Category name, press enter for options.	string	

execute log filter device

Device to get log from.

```
execute log filter device <device>
```

Parameter	Description	Type	Size
<device>	Device name, press enter for options.	string	

execute log filter dump

Dump current filter settings.

```
execute log filter dump
```

execute log filter field

Filter by field.

```
execute log filter field <name> <argument 1> <argument 2> <argument 3> <argument 4>  
<argument 5> <argument 6> <argument 7>
```

Parameter	Description	Type	Size
<name>	Field name, press enter for options.	string	
<argument 1>	Field search argument 1, press enter for more help.	string	
<argument 2>	<argument 2>	string	
<argument 3>	<argument 3>	string	
<argument 4>	<argument 4>	string	
<argument 5>	<argument 5>	string	
<argument 6>	<argument 6>	string	
<argument 7>	<argument 7>	string	

execute log filter free-style

Filter by free-style expression.

```
execute log filter free-style <expression>
```

Parameter	Description	Type	Size
<expression>	Log filter expression.	string	

execute log filter ha-member

HA member.

```
execute log filter ha-member <sn>
```

Parameter	Description	Type	Size
<sn>	Serial number of HA member.	string	

execute log filter local-search-mode

local log search mode

```
execute log filter local-search-mode <mode>
```


Parameter	Description	Type	Size
<mode>	Local log search mode, press enter for options.	string	

execute log filter max-checklines

Maximum number of lines to check.

```
execute log filter max-checklines <number>
```

Parameter	Description	Type	Size
<number>	0 or (100 - 1000000).	string	

execute log filter pre-fetch-pages

Number of pages to check in advance under on-demand log search mode.

```
execute log filter pre-fetch-pages <number>
```

Parameter	Description	Type	Size
<number>	(2 - 10).	string	

execute log filter reset

Reset filter.

```
execute log filter reset <enter|all|field>
```

Parameter	Description	Type	Size
<enter all field>	<enter all> to reset all, <field> to reset field only.	string	

execute log filter start-line

Start line to display.

```
execute log filter start-line <number>
```

Parameter	Description	Type	Size
<number>	>=1	string	

execute log filter view-lines

Lines per view.

```
execute log filter view-lines <number>
```

Parameter	Description	Type	Size
<number>	Number of lines to view (5 - 1000).	string	

execute log flush-cache

Write disk log cache of current category to disk in compressed format.

```
execute log flush-cache
```

execute log flush-cache-all

Write disk log cache of all categories to disk in compressed format.

```
execute log flush-cache-all
```

execute log fortianalyzer manual-failover

Manually failover to use the other server.

```
execute log fortianalyzer manual-failover
```

execute log fortianalyzer test-connectivity

Query FortiAnalyzer connection status.

```
execute log fortianalyzer test-connectivity
```

execute log fortianalyzer-cloud test-connectivity

Query FortiAnalyzer Cloud connection status.

```
execute log fortianalyzer-cloud test-connectivity
```

execute log fortianalyzer2 manual-failover

Manually failover to use the other server.

```
execute log fortianalyzer2 manual-failover
```

execute log fortianalyzer3 manual-failover

Manually failover to use the other server.

```
execute log fortianalyzer3 manual-failover
```

execute log fortiguard test-connectivity

Query FortiGuard connection status.

```
execute log fortiguard test-connectivity
```

execute log list

List current and rolled log files info.

```
execute log list <category>
```

Parameter	Description	Type	Size
<category>	Category name, press enter for options.	string	

execute log raw-backup ftp

Backup raw logs to remote FTP server.

```
execute log raw-backup ftp <remotedir> <ftp server>[:ftp port] <user> <passwd>
```

Parameter	Description	Type	Size
<remotedir>	Remote directory on FTP server	string	
<ftp server> [:ftp port]	FTP server IPv4, IPv6, or FQDN can be attached with port.	string	
<user>	FTP username.	string	
<passwd>	FTP password.	string	

execute log raw-backup tftp

Backup raw logs to remote TFTP server.

```
execute log raw-backup tftp <remotedir> <tftp server>
```

Parameter	Description	Type	Size
<remotedir>	Existing remote directory on TFTP server	string	
<tftp server>	TFTP server IPv4, IPv6, or FQDN.	string	

execute log restore

Restore logs and report databases from local storage device.

```
execute log restore <path>
```

Parameter	Description	Type	Size
<path>	Path to restore logs and report databases.	string	

execute log roll

Roll log files now.

```
execute log roll
```

execute log shift-time

Shift log time stamps.

```
execute log shift-time <hours>
```

Parameter	Description	Type	Size
<hours>	Hours to shift log and report time stamps by.	string	

execute log upload

Upload log and archives to FortiAnalyzer/FortiCloud.

```
execute log upload
```

execute log upload-progress

Check FortiCloud upload progress.

```
execute log upload-progress
```

execute mem

mem

This topic includes the following commands:

- [execute mem add on page 1865](#)

execute mem add

Online new memory blocks.

`execute mem add`

execute nethsm

nethsm

This topic includes the following commands:

- [execute nethsm clear-log on page 1866](#)
- [execute nethsm client-cert-create on page 1866](#)
- [execute nethsm client-cert-export ftp on page 1866](#)
- [execute nethsm client-cert-export tftp on page 1866](#)
- [execute nethsm client-cert-show on page 1866](#)
- [execute nethsm config-export ftp on page 1867](#)
- [execute nethsm config-export tftp on page 1867](#)
- [execute nethsm config-import ftp on page 1867](#)
- [execute nethsm config-import tftp on page 1867](#)
- [execute nethsm config-show on page 1868](#)
- [execute nethsm diagnose on page 1868](#)
- [execute nethsm hagroup-add on page 1868](#)
- [execute nethsm hagroup-del on page 1868](#)
- [execute nethsm hagroup-list on page 1868](#)
- [execute nethsm register on page 1869](#)
- [execute nethsm reset on page 1869](#)
- [execute nethsm restore-conf on page 1869](#)
- [execute nethsm set-conf-opt on page 1869](#)
- [execute nethsm show-log on page 1869](#)
- [execute nethsm status on page 1869](#)
- [execute nethsm unregister on page 1870](#)

execute nethsm clear-log

Clear NETHSM log.

```
execute nethsm clear-log
```

execute nethsm client-cert-create

(Re)Create client certificate.

```
execute nethsm client-cert-create <string>
```

Parameter	Description	Type	Size
<string>	Country name (e.g. Canada) or country code (e.g. ca).	string	

execute nethsm client-cert-export ftp

Export client certificate over FTP

```
execute nethsm client-cert-export ftp <ftp server>[:ftp port] <remote-path> <Enter>|<user>  
<passwd>
```

Parameter	Description	Type	Size
<ftp server>[:ftp port]	FTP server IP, can be attached with port.	string	
<remote-path>	FTP remote directory.	string	
<Enter> <user>	FTP username may be needed.	string	
<passwd>	FTP password.	string	

execute nethsm client-cert-export tftp

Export client certificate over TFTP

```
execute nethsm client-cert-export tftp <ip>
```

Parameter	Description	Type	Size
<ip>	IP address of TFTP server.	string	

execute nethsm client-cert-show

Display client certificate

```
execute nethsm client-cert-show
```

execute nethsm config-export ftp

Import nethsm config from a FTP server.

```
execute nethsm config-export ftp <ip>[:ftp port] <remote-path> <Enter>|<user> <passwd>
```

Parameter	Description	Type	Size
<ip>[:ftp port]	FTP server IP, can also include port.	string	
<remote-path>	FTP remote directory.	string	
<Enter> <user>	FTP username may be needed.	string	
<passwd>	FTP password.	string	

execute nethsm config-export tftp

Export nethsm config over TFTP

```
execute nethsm config-export tftp <ip>
```

Parameter	Description	Type	Size
<ip>	IP address of TFTP server.	string	

execute nethsm config-import ftp

Export nethsm config over FTP

```
execute nethsm config-import ftp <string> <ftp server>[:ftp port] <Enter>|<user> <passwd>
```

Parameter	Description	Type	Size
<string>	File name on the FTP server.	string	
<ftp server>[:ftp port]	FTP server IP, can also include port.	string	
<Enter> <user>	FTP username may be needed.	string	
<passwd>	FTP password.	string	

execute nethsm config-import tftp

Import nethsm config from a TFTP server.

```
execute nethsm config-import tftp <string> <ip>
```

Parameter	Description	Type	Size
<string>	File name on the TFTP server.	string	
<ip>	IP address of TFTP server.	string	

execute nethsm config-show

Display nethsm config

```
execute nethsm config-show
```

execute nethsm diagnose

Partition diagnose.

```
execute nethsm diagnose
```

execute nethsm hagroup-add

Add HA group.

```
execute nethsm hagroup-add <hagroup>
```

Parameter	Description	Type	Size
<hagroup>	HSM HA group name.	string	

execute nethsm hagroup-del

Delete HA group.

```
execute nethsm hagroup-del <hagroup>
```

Parameter	Description	Type	Size
<hagroup>	HSM HA group name.	string	

execute nethsm hagroup-list

List HA group.

```
execute nethsm hagroup-list <hagroup>
```


Parameter	Description	Type	Size
<hagroup>	HSM HA group name.	string	

execute nethsm register

Register to network HSM server.

```
execute nethsm register <server>
```

Parameter	Description	Type	Size
<server>	HSM server name.	string	

execute nethsm reset

Erase all NETHSM config.

```
execute nethsm reset
```

execute nethsm restore-conf

Restore NETHSM config.

```
execute nethsm restore-conf
```

execute nethsm set-conf-opt

Set NETHSM config option.

```
execute nethsm set-conf-opt
```

execute nethsm show-log

Show NETHSM log.

```
execute nethsm show-log
```

execute nethsm status

Client status.

```
execute nethsm status <server>
```

Parameter	Description	Type	Size
<server>	HSM server name.	string	

execute nethsm unregister

Unregister from network HSM server.

```
execute nethsm unregister <server>
```

Parameter	Description	Type	Size
<server>	HSM server name.	string	

execute nsx

nsx

This topic includes the following commands:

- [execute nsx group delete on page 1870](#)
- [execute nsx group import on page 1870](#)
- [execute nsx group list on page 1871](#)

execute nsx group delete

Delete NSX Security Groups.

```
execute nsx group delete <vdom> <filter>
```

Parameter	Description	Type	Size
<vdom>	VDOM.	string	
<filter>	Name Filter.	string	

execute nsx group import

Import NSX Security Groups.

```
execute nsx group import <name> <vdom> <filter>
```

Parameter	Description	Type	Size
<name>	SDN connector.	string	
<vdom>	VDOM.	string	
<filter>	Name Filter.	string	

execute nsx group list

List NSX Security Groups.

```
execute nsx group list <name> <filter>
```

Parameter	Description	Type	Size
<name>	SDN connector.	string	
<filter>	Name Filter.	string	

execute ping

PING command.

```
execute ping <ip>
```

Parameter	Description	Type	Size
<ip>	IP address or domain name.	string	

execute ping6

PINGv6 command.

```
execute ping6
```

execute ping6-options

ping6-options

This topic includes the following commands:

- [execute ping6-options adaptive-ping on page 1872](#)
- [execute ping6-options data-size on page 1872](#)
- [execute ping6-options interface on page 1872](#)
- [execute ping6-options interval on page 1873](#)
- [execute ping6-options pattern on page 1873](#)
- [execute ping6-options repeat-count on page 1873](#)
- [execute ping6-options reset on page 1873](#)
- [execute ping6-options source6 on page 1873](#)
- [execute ping6-options timeout on page 1874](#)
- [execute ping6-options tos on page 1874](#)
- [execute ping6-options ttl on page 1874](#)
- [execute ping6-options validate-reply on page 1874](#)
- [execute ping6-options view-settings on page 1874](#)

execute ping6-options adaptive-ping

Adaptive ping <enable|disable>.

```
execute ping6-options adaptive-ping <string>
```

Parameter	Description	Type	Size
<string>	<enable disable>.	string	

execute ping6-options data-size

Integer value to specify datagram size in bytes.

```
execute ping6-options data-size <integer>
```

Parameter	Description	Type	Size
<integer>	Integer value [0,65507].	string	

execute ping6-options interface

Auto | <outgoing interface>.

```
execute ping6-options interface <string>
```

Parameter	Description	Type	Size
<string>	Auto <outgoing interface>.	string	

execute ping6-options interval

Integer value to specify seconds to wait between two pings.

```
execute ping6-options interval <integer>
```

Parameter	Description	Type	Size
<integer>	Integer value [1, 2147483647]	string	

execute ping6-options pattern

Hex format of pattern, e.g. 00ffaabb.

```
execute ping6-options pattern <string>
```

Parameter	Description	Type	Size
<string>	Hex format of pattern, e.g. 00ffaabb.	string	

execute ping6-options repeat-count

Integer value to specify how many times to repeat PING.

```
execute ping6-options repeat-count <string>
```

Parameter	Description	Type	Size
<string>	Integer value [1, 2147483647]	string	

execute ping6-options reset

Reset settings.

```
execute ping6-options reset
```

execute ping6-options source6

Auto | <source interface IPv6>.

```
execute ping6-options source6 <xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx>
```

Parameter	Description	Type	Size
<xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx>	<source interface IPv6> Auto	string	

execute ping6-options timeout

Integer value to specify timeout in seconds.

```
execute ping6-options timeout <integer>
```

Parameter	Description	Type	Size
<integer>	Integer value [0, 2147483647]	string	

execute ping6-options tos

IPv6 type-of-service (traffic class) value.

```
execute ping6-options tos <integer>
```

Parameter	Description	Type	Size
<integer>	Hex number [0x00, 0xFF]	string	

execute ping6-options ttl

Integer value to specify time-to-live.

```
execute ping6-options ttl <integer>
```

Parameter	Description	Type	Size
<integer>	Integer value [1,255]	string	

execute ping6-options validate-reply

Validate reply data <yes | no>.

```
execute ping6-options validate-reply <string>
```

Parameter	Description	Type	Size
<string>	<yes no>.	string	

execute ping6-options view-settings

View the current settings for PING option.

```
execute ping6-options view-settings
```

execute ping-options

ping-options

This topic includes the following commands:

- [execute ping-options adaptive-ping](#) on page 1875
- [execute ping-options data-size](#) on page 1875
- [execute ping-options df-bit](#) on page 1876
- [execute ping-options interface](#) on page 1876
- [execute ping-options interval](#) on page 1876
- [execute ping-options pattern](#) on page 1876
- [execute ping-options repeat-count](#) on page 1876
- [execute ping-options reset](#) on page 1877
- [execute ping-options source](#) on page 1877
- [execute ping-options timeout](#) on page 1877
- [execute ping-options tos](#) on page 1877
- [execute ping-options ttl](#) on page 1877
- [execute ping-options use-sdwan](#) on page 1878
- [execute ping-options validate-reply](#) on page 1878
- [execute ping-options view-settings](#) on page 1878

execute ping-options adaptive-ping

Adaptive ping <enable|disable>.

```
execute ping-options adaptive-ping <string>
```

Parameter	Description	Type	Size
<string>	<enable disable>.	string	

execute ping-options data-size

Integer value to specify datagram size in bytes.

```
execute ping-options data-size <integer>
```

Parameter	Description	Type	Size
<integer>	Integer value [0,65507].	string	

execute ping-options df-bit

Set DF bit in IP header <yes | no>.

```
execute ping-options df-bit <string>
```

Parameter	Description	Type	Size
<string>	<yes no>.	string	

execute ping-options interface

Auto | <outgoing interface>.

```
execute ping-options interface <string>
```

Parameter	Description	Type	Size
<string>	Auto <outgoing interface>.	string	

execute ping-options interval

Integer value to specify seconds between two pings.

```
execute ping-options interval <integer>
```

Parameter	Description	Type	Size
<integer>	Integer value [1, 2147483647]	string	

execute ping-options pattern

Hex format of pattern, e.g. 00ffaabb.

```
execute ping-options pattern <string>
```

Parameter	Description	Type	Size
<string>	Hex format of pattern, e.g. 00ffaabb.	string	

execute ping-options repeat-count

Integer value to specify how many times to repeat PING.

```
execute ping-options repeat-count <integer>
```


Parameter	Description	Type	Size
<integer>	Integer value [1, 2147483647]	string	

execute ping-options reset

Reset settings.

```
execute ping-options reset
```

execute ping-options source

Auto | <source interface IP>.

```
execute ping-options source <xxx.xxx.xxx.xxx>
```

Parameter	Description	Type	Size
<xxx.xxx.xxx.xxx>	<source interface IP> Auto	string	

execute ping-options timeout

Integer value to specify timeout in seconds.

```
execute ping-options timeout <integer>
```

Parameter	Description	Type	Size
<integer>	Integer value [0, 2147483647]	string	

execute ping-options tos

IP type-of-service option.

```
execute ping-options tos <string>
```

Parameter	Description	Type	Size
<string>	default IP TOS defaults to 0 lowcost IP TOS minimize cost lowdelay IP TOS minimize delay reliability IP TOS maximize reliability throughput IP TOS maximize throughput	string	

execute ping-options ttl

Integer value to specify time-to-live.

```
execute ping-options ttl <integer>
```

Parameter	Description	Type	Size
<integer>	Integer value [1,255].	string	

execute ping-options use-sdwan

Use SD-WAN rules to get output interface <yes | no>.

```
execute ping-options use-sdwan <string>
```

Parameter	Description	Type	Size
<string>	<yes no>.	string	

execute ping-options validate-reply

Validate reply data <yes | no>.

```
execute ping-options validate-reply <string>
```

Parameter	Description	Type	Size
<string>	<yes no>.	string	

execute ping-options view-settings

View the current settings for PING option.

```
execute ping-options view-settings
```

execute policy-packet-capture

policy-packet-capture

This topic includes the following commands:

- [execute policy-packet-capture delete-all on page 1878](#)

execute policy-packet-capture delete-all

Delete all captured packet.

```
execute policy-packet-capture delete-all
```

execute preload

preload

This topic includes the following commands:

- [execute preload http-transaction-log disable on page 1879](#)
- [execute preload http-transaction-log enable on page 1879](#)
- [execute preload list on page 1879](#)
- [execute preload show-log on page 1879](#)
- [execute preload url on page 1879](#)
- [execute preload url-delete on page 1880](#)

execute preload http-transaction-log disable

Disables preload http transaction log

```
execute preload http-transaction-log disable
```

execute preload http-transaction-log enable

Enables preload http transaction log

```
execute preload http-transaction-log enable
```

execute preload list

Lists scheduled URLs

```
execute preload list
```

execute preload show-log

Show log of last preload runs

```
execute preload show-log
```

execute preload url

Schedule a new preload operation for a URL

```
execute preload url <url> <depth> <ignore-robots> <at_time> <repeat_after> <repetitions>  
<user-agent> <user>
```

Parameter	Description	Type	Size
<url>	URL to preload	string	
<depth>	Depth of preload. Defaults to 0	string	
<ignore-robots>	Ignore robots.txt rules. Defaults to disable[0]	string	
<at_time>	HHH:MM. HHH - hours from now [0-672], MM - Minutes from now [0-59]. Default is 0:00	string	
<repeat_after>	HHH:MM. HHH - hours from now [0-168], MM - Minutes from now [0-59]. Default is max	string	
<repetitions>	End after this many repetitions. Defaulted to 1.	string	
<user-agent>	Specify client type (Free text) to identify as	string	
<user>	Specify user (Password will be on separate prompt)	string	

execute preload url-delete

Deletes scheduled preload operation for the URL

```
execute preload url-delete <url-delete>
```

Parameter	Description	Type	Size
<url-delete>	Delete scheduled URLfor preload	string	

execute private-encryption-key

private-encryption-key

This topic includes the following commands:

- [execute private-encryption-key sample on page 1880](#)
- [execute private-encryption-key verify on page 1881](#)

execute private-encryption-key sample

Generate base64 clear text and its HMAC signature encrypted by private key.

```
execute private-encryption-key sample
```

execute private-encryption-key verify

Verify if the input base64 HMAC is encrypted by private key.

```
execute private-encryption-key verify <string>
```

Parameter	Description	Type	Size
<string>	base64-clear-text.	string	

execute reboot

Reboot now.

```
execute reboot <comment> <string>
```

Parameter	Description	Type	Size
<comment>	comment	string	
<string>	Reboot comments.	string	

execute report

report

This topic includes the following commands:

- [execute report flush-cache on page 1881](#)
- [execute report recreate-db on page 1881](#)
- [execute report run on page 1882](#)
- [execute report sandbox-status on page 1882](#)

execute report flush-cache

Flush report caches

```
execute report flush-cache
```

execute report recreate-db

Recreate the report database

```
execute report recreate-db
```

execute report run

generate a report, only last 7-days data available

```
execute report run [layout name] [Start Time] [End Time]
```

Parameter	Description	Type	Size
[layout name]	Layout name for a report. If not provided, the default layout will be used.	string	
[Start Time]	Start time of the report time period ("yyyy-mm-dd hh").	string	
[End Time]	End time of the report time period ("yyyy-mm-dd hh").	string	

execute report sandbox-status

sending sandbox status for testing

```
execute report sandbox-status [status] [sha256]
```

Parameter	Description	Type	Size
[status]	The status of sandbox returning result	string	
[sha256]	SHA256 checksum	string	

execute report-config

report-config

This topic includes the following commands:

- [execute report-config reset on page 1882](#)

execute report-config reset

Reset report templates to the factory default

```
execute report-config reset
```

execute restore

restore

This topic includes the following commands:

- [execute restore av ftp on page 1883](#)
- [execute restore av tftp on page 1884](#)
- [execute restore config dhcp on page 1884](#)
- [execute restore config flash on page 1884](#)
- [execute restore config ftp on page 1885](#)
- [execute restore config management-station normal on page 1885](#)
- [execute restore config management-station script on page 1885](#)
- [execute restore config management-station template on page 1885](#)
- [execute restore config tftp on page 1886](#)
- [execute restore config usb on page 1886](#)
- [execute restore config usb-mode on page 1886](#)
- [execute restore image flash on page 1886](#)
- [execute restore image ftp on page 1887](#)
- [execute restore image management-station on page 1887](#)
- [execute restore image tftp on page 1887](#)
- [execute restore image url on page 1887](#)
- [execute restore image usb on page 1888](#)
- [execute restore ips ftp on page 1888](#)
- [execute restore ips tftp on page 1888](#)
- [execute restore ipsuserdefsig ftp on page 1888](#)
- [execute restore ipsuserdefsig tftp on page 1889](#)
- [execute restore manual-license ftp on page 1889](#)
- [execute restore manual-license tftp on page 1889](#)
- [execute restore other-objects ftp on page 1890](#)
- [execute restore other-objects tftp on page 1890](#)
- [execute restore script ftp on page 1890](#)
- [execute restore script lastlog on page 1891](#)
- [execute restore script scp on page 1891](#)
- [execute restore script tftp on page 1891](#)
- [execute restore vmlicense ftp on page 1891](#)
- [execute restore vmlicense tftp on page 1892](#)

execute restore av ftp

Restore antivirus database from FTP server.

```
execute restore av ftp <string> <ftp server>[:ftp port] <Enter>|<user> <passwd>
```

Parameter	Description	Type	Size
<string>	Antivirus data base file name (path) on the remote server.	string	
<ftp server>[:ftp port]	FTP server IPv4, IPv6, or FQDN can be attached with port.	string	
<Enter> <user>	FTP username may be needed.	string	
<passwd>	FTP password.	string	

execute restore av tftp

Restore antivirus database from TFTP server.

```
execute restore av tftp <string> <tftp server>
```

Parameter	Description	Type	Size
<string>	Antivirus database file name on the TFTP server.	string	
<tftp server>	TFTP server IPv4, IPv6, or FQDN.	string	

execute restore config dhcp

Load config file via DHCP.

```
execute restore config dhcp <port> <Enter> | <vlanid>
```

Parameter	Description	Type	Size
<port>	Port to be DHCP client.	string	
<Enter> <vlanid>	Enter or specify VLAN ID to create a VLAN on the <port>.	string	

execute restore config flash

Load config file from flash to firewall.

```
execute restore config flash <revision>
```

Parameter	Description	Type	Size
<revision>	Revision ID on the flash.	string	

execute restore config ftp

Load config file from FTP server.

```
execute restore config ftp <string> <ftp server>[:ftp port] <Enter>|<user> <passwd>
<Enter>|<passwd>
```

Parameter	Description	Type	Size
<string>	Configure file name(path) on the remote server.	string	
<ftp server>[:ftp port]	FTP server IPv4, IPv6, or FQDN can be attached with port.	string	
<Enter> <user>	FTP username may be needed.	string	
<passwd>	FTP password.	string	
<Enter> <passwd>	Password may be needed to restore.	string	

execute restore config management-station normal

Load normal config file from management station to firewall.

```
execute restore config management-station normal <revision>
```

Parameter	Description	Type	Size
<revision>	Revision to retrieve, or enter '0' to get latest revision list.	string	

execute restore config management-station script

Load script config file from management station to firewall.

```
execute restore config management-station script <revision>
```

Parameter	Description	Type	Size
<revision>	Revision to retrieve, or enter '0' to get latest revision list.	string	

execute restore config management-station template

Load template config file from management station to firewall.

```
execute restore config management-station template <revision>
```

Parameter	Description	Type	Size
<revision>	Revision to retrieve, or enter '0' to get latest revision list.	string	

execute restore config tftp

Load config file from TFTP server to firewall.

```
execute restore config tftp <string> <tftp server> <Enter>|<passwd>
```

Parameter	Description	Type	Size
<string>	File name on the TFTP server.	string	
<tftp server>	TFTP server IPv4, IPv6, or FQDN.	string	
<Enter> <passwd>	Password may be needed to restore.	string	

execute restore config usb

Load config file from USB disk to firewall.

```
execute restore config usb <string> <Enter>|<passwd>
```

Parameter	Description	Type	Size
<string>	File name on USB disk.	string	
<Enter> <passwd>	Password may be needed to restore.	string	

execute restore config usb-mode

Load config file from USB disk and reboot.

```
execute restore config usb-mode <Enter>|<passwd>
```

Parameter	Description	Type	Size
<Enter> <passwd>	Optional password to protect.	string	

execute restore image flash

Restore image from flash.

```
execute restore image flash <revision>
```

Parameter	Description	Type	Size
<revision>	Image revision ID on flash.	string	

execute restore image ftp

Load image from FTP server.

```
execute restore image ftp <string> <ftp server>[:ftp port] <Enter>|<user> <passwd>
```

Parameter	Description	Type	Size
<string>	Image file name(path) on the remote server.	string	
<ftp server>[:ftp port]	FTP server IPv4, IPv6, or FQDN can be attached with port.	string	
<Enter> <user>	FTP username may be needed.	string	
<passwd>	FTP password.	string	

execute restore image management-station

Restore image from Management station.

```
execute restore image management-station <string>
```

Parameter	Description	Type	Size
<string>	Image ID on the server.	string	

execute restore image tftp

Restore image from TFTP server.

```
execute restore image tftp <string> <tftp address>
```

Parameter	Description	Type	Size
<string>	Image file name on the TFTP server.	string	
<tftp address>	TFTP server IPv4, IPv6, or FQDN.	string	

execute restore image url

Restore image from URL with HTTP/HTTPS protocols. Decrypt image if needed.

```
execute restore image url <string> <Enter>|<passwd>|<force> <Enter>|<force>
```

Parameter	Description	Type	Size
<string>	URL string with protocol prefix. e.g: https://example.com/image.aes	string	

Parameter	Description	Type	Size
<Enter> <passwd> <force>	Image encryption passphrase.	string	
<Enter> <force>	Bypass signature and validity checking.	string	

execute restore image usb

Restore image from USB disk.

```
execute restore image usb <string>
```

Parameter	Description	Type	Size
<string>	Image file name on the USB disk.	string	

execute restore ips ftp

Restore IPS database from FTP server.

```
execute restore ips ftp <string> <ftp server>[:ftp port] <Enter>|<user> <passwd>
```

Parameter	Description	Type	Size
<string>	IPS data base file name (path) on the remote server.	string	
<ftp server>[:ftp port]	FTP server IPv4, IPv6, or FQDN can be attached with port.	string	
<Enter> <user>	FTP username may be needed.	string	
<passwd>	FTP password.	string	

execute restore ips tftp

Restore IPS database from TFTP server.

```
execute restore ips tftp <string> <tftp server>
```

Parameter	Description	Type	Size
<string>	IPS database file name on the TFTP server.	string	
<tftp server>	TFTP server IPv4, IPv6, or FQDN.	string	

execute restore ipsuserdefsig ftp

Restore user-defined ips signatures file from FTP server.

```
execute restore ipsuserdefsig ftp <string> <ftp server>[:ftp port] <Enter>|<user> <passwd>
```

Parameter	Description	Type	Size
<string>	User-defined ips signatures file on the remote server.	string	
<ftp server>[:ftp port]	FTP server IPv4, IPv6, or FQDN can be attached with port.	string	
<Enter> <user>	FTP username may be needed.	string	
<passwd>	FTP password.	string	

execute restore ipsuserdefsig tftp

Restore user defined IPS signatures file from TFTP server.

```
execute restore ipsuserdefsig tftp <string> <tftp server>
```

Parameter	Description	Type	Size
<string>	File name on the TFTP server.	string	
<tftp server>	TFTP server IPv4, IPv6, or FQDN.	string	

execute restore manual-license ftp

Restore Manual License from FTP server.

```
execute restore manual-license ftp <string> <ftp server>[:ftp port] <Enter>|<user> <passwd>
```

Parameter	Description	Type	Size
<string>	FortiGuard Contract License file name on the FTP server.	string	
<ftp server>[:ftp port]	FTP server IPv4, IPv6, or FQDN can be attached with port.	string	
<Enter> <user>	FTP username may be needed.	string	
<passwd>	FTP password.	string	

execute restore manual-license tftp

Restore Manual License from TFTP server.

```
execute restore manual-license tftp <string> <tftp server>
```

Parameter	Description	Type	Size
<string>	FortiGuard Contract License file name on the TFTP server.	string	
<tftp server>	TFTP server IPv4, IPv6, or FQDN.	string	

execute restore other-objects ftp

Restore other FortiGuard packages from FTP server. Current support: Internet-service Database Apps/Maps, URL Allow List and CASB signatures.

```
execute restore other-objects ftp <string> <ftp server>[:ftp port] <Enter>|<user> <passwd>
```

Parameter	Description	Type	Size
<string>	Other FortiGuard package file name on the FTP server.	string	
<ftp server>[:ftp port]	FTP server IPv4, IPv6, or FQDN can be attached with port.	string	
<Enter> <user>	FTP username may be needed.	string	
<passwd>	FTP password.	string	

execute restore other-objects tftp

Restore other FortiGuard packages from TFTP server. Current support: Internet-service Database Apps/Maps, URL Allow List and CASB signatures.

```
execute restore other-objects tftp <string> <tftp server>
```

Parameter	Description	Type	Size
<string>	Other FortiGuard package file name on the TFTP server.	string	
<tftp server>	TFTP server IPv4, IPv6, or FQDN.	string	

execute restore script ftp

Load script from FTP server.

```
execute restore script ftp <string> <ftp server>[:ftp port] <Enter>|<user> <passwd>
```

Parameter	Description	Type	Size
<string>	Script on the remote server.	string	
<ftp server>[:ftp port]	FTP server IPv4, IPv6, or FQDN can be attached with port.	string	

Parameter	Description	Type	Size
<Enter> <user>	FTP username may be needed.	string	
<passwd>	FTP password.	string	

execute restore script lastlog

Read the result of last restored script.

```
execute restore script lastlog
```

execute restore script scp

Load script from SCP server to firewall.

```
execute restore script scp <string> <ip> <user> <Enter>|<passwd>
```

Parameter	Description	Type	Size
<string>	File name on the SCP server.	string	
<ip>	IP address.	string	
<user>	User name.	string	
<Enter> <passwd>	Enter or input password.	string	

execute restore script tftp

Load script from TFTP server to firewall.

```
execute restore script tftp <string> <tftp server> <Enter>|<passwd>
```

Parameter	Description	Type	Size
<string>	File name on the TFTP server.	string	
<tftp server>	TFTP server IPv4, IPv6, or FQDN.	string	
<Enter> <passwd>	Password may be needed to restore.	string	

execute restore vmlicense ftp

Restore VM license from FTP server.

```
execute restore vmlicense ftp <string> <ftp server>[:ftp port] <Enter>|<user> <passwd>
```

Parameter	Description	Type	Size
<string>	VM license file name(path) on the remote server.	string	
<ftp server>[:ftp port]	FTP server IPv4, IPv6, or FQDN can be attached with port.	string	
<Enter> <user>	FTP username may be needed.	string	
<passwd>	FTP password.	string	

execute restore vmlicense tftp

restore VM license from tftp server

```
execute restore vmlicense tftp <string> <tftp server>
```

Parameter	Description	Type	Size
<string>	VM license file name on the tftp server	string	
<tftp server>	TFTP server IPv4, IPv6, or FQDN.	string	

execute revision

revision

This topic includes the following commands:

- [execute revision delete config on page 1892](#)
- [execute revision delete image on page 1893](#)
- [execute revision list config on page 1893](#)
- [execute revision list image on page 1893](#)

execute revision delete config

Delete config revision on local disk.

```
execute revision delete config <revision> <rev_id>
```

Parameter	Description	Type	Size
<revision>	Revision ID(s) on local disk. Eg. 1 3-6 8	string	
<rev_id>	place holder for multiple Revision IDs, at most 10 a time.	string	

execute revision delete image

Delete image revision on local disk.

```
execute revision delete image <revision> <rev_id>
```

Parameter	Description	Type	Size
<revision>	Revision ID(s) on local disk. Eg. 1 3-6 8	string	
<rev_id>	place holder for multiple Revision IDs, at most 10 a time.	string	

execute revision list config

List config revision on local disk.

```
execute revision list config
```

execute revision list image

List image revision on local disk.

```
execute revision list image
```

execute send-fds-statistics

Send FortiGuard statistics.

```
execute send-fds-statistics
```

execute send-fmg-list

Send connected FortiManager list to FortiGuard.

```
execute send-fmg-list
```

execute set

```
set
```

This topic includes the following commands:

- [execute set system session filter clear all on page 1894](#)
- [execute set system session filter clear dport on page 1894](#)
- [execute set system session filter clear dst on page 1895](#)
- [execute set system session filter clear duration on page 1895](#)
- [execute set system session filter clear expire on page 1895](#)
- [execute set system session filter clear policy on page 1895](#)
- [execute set system session filter clear proto on page 1895](#)
- [execute set system session filter clear sport on page 1895](#)
- [execute set system session filter clear src on page 1895](#)
- [execute set system session filter clear vd on page 1896](#)
- [execute set system session filter dport on page 1896](#)
- [execute set system session filter dst on page 1896](#)
- [execute set system session filter duration on page 1896](#)
- [execute set system session filter expire on page 1896](#)
- [execute set system session filter list on page 1897](#)
- [execute set system session filter negate dport on page 1897](#)
- [execute set system session filter negate dst on page 1897](#)
- [execute set system session filter negate duration on page 1897](#)
- [execute set system session filter negate expire on page 1897](#)
- [execute set system session filter negate policy on page 1897](#)
- [execute set system session filter negate proto on page 1897](#)
- [execute set system session filter negate sport on page 1898](#)
- [execute set system session filter negate src on page 1898](#)
- [execute set system session filter negate vd on page 1898](#)
- [execute set system session filter policy on page 1898](#)
- [execute set system session filter proto on page 1898](#)
- [execute set system session filter sport on page 1898](#)
- [execute set system session filter src on page 1899](#)
- [execute set system session filter vd on page 1899](#)

execute set system session filter clear all

Clear session filter.

```
execute set system session filter clear all
```

execute set system session filter clear dport

Clear destination port.

```
execute set system session filter clear dport
```

execute set system session filter clear dst

Clear destination IP.

```
execute set system session filter clear dst
```

execute set system session filter clear duration

Clear duration.

```
execute set system session filter clear duration
```

execute set system session filter clear expire

Clear expire.

```
execute set system session filter clear expire
```

execute set system session filter clear policy

Clear policy ID.

```
execute set system session filter clear policy
```

execute set system session filter clear proto

Clear protocol.

```
execute set system session filter clear proto
```

execute set system session filter clear sport

Clear source port.

```
execute set system session filter clear sport
```

execute set system session filter clear src

Clear source IP.

```
execute set system session filter clear src
```

execute set system session filter clear vd

Clear virtual domain.

```
execute set system session filter clear vd
```

execute set system session filter dport

Destination port.

```
execute set system session filter dport <xxxx>
```

Parameter	Description	Type	Size
<xxxx>	<0-65535> (from).	string	

execute set system session filter dst

Destination IP address.

```
execute set system session filter dst <xxx.xxx.xxx.xxx>
```

Parameter	Description	Type	Size
<xxx.xxx.xxx.xxx>	Destination IP (from).	string	

execute set system session filter duration

duration

```
execute set system session filter duration <xxx>
```

Parameter	Description	Type	Size
<xxx>	Duration (from).	string	

execute set system session filter expire

expire

```
execute set system session filter expire <xxx>
```

Parameter	Description	Type	Size
<xxx>	Expire (from).	string	

execute set system session filter list

List system session filter.

```
execute set system session filter list
```

execute set system session filter negate dport

Inverse destination port.

```
execute set system session filter negate dport
```

execute set system session filter negate dst

Inverse destination IP.

```
execute set system session filter negate dst
```

execute set system session filter negate duration

Inverse duration.

```
execute set system session filter negate duration
```

execute set system session filter negate expire

Inverse expire.

```
execute set system session filter negate expire
```

execute set system session filter negate policy

Inverse policy ID.

```
execute set system session filter negate policy
```

execute set system session filter negate proto

Inverse protocol.

```
execute set system session filter negate proto
```

execute set system session filter negate sport

Inverse source port.

```
execute set system session filter negate sport
```

execute set system session filter negate src

Inverse source IP.

```
execute set system session filter negate src
```

execute set system session filter negate vd

Inverse virtual domain.

```
execute set system session filter negate vd
```

execute set system session filter policy

Policy ID.

```
execute set system session filter policy <xxx>
```

Parameter	Description	Type	Size
<xxx>	Policy ID (from).	string	

execute set system session filter proto

Protocol number.

```
execute set system session filter proto <xx>
```

Parameter	Description	Type	Size
<xx>	<0-255> (from).	string	

execute set system session filter sport

Source port.

```
execute set system session filter sport <xxxx>
```

Parameter	Description	Type	Size
<xxxx>	<0-65535> (from).	string	

execute set system session filter src

Source IP address.

```
execute set system session filter src <xxx.xxx.xxx.xxx>
```

Parameter	Description	Type	Size
<xxx.xxx.xxx.xxx>	Source IP (from).	string	

execute set system session filter vd

Index of virtual domain. -1 matches all.

```
execute set system session filter vd <xxx>
```

Parameter	Description	Type	Size
<xxx>	Index of virtual domain. -1 matches all.	string	

execute shutdown

Shutdown now.

```
execute shutdown <comment> <string>
```

Parameter	Description	Type	Size
<comment>	comment	string	
<string>	Shutdown comments.	string	

execute speed-test

A bandwidth measuring tool.

```
execute speed-test <interface> <server> <mode>
```

Parameter	Description	Type	Size
<interface>	auto <outgoing interface name>.	string	
<server>	server name.	string	
<mode>	optional, Auto(default), TCP or UDP.	string	

execute speed-test-custom

Run speed test to a custom server.

```
execute speed-test-custom <interface> <server>
```

Parameter	Description	Type	Size
<interface>	Speed test interface.	string	
<server>	Server address.	string	

execute speed-test-ipsec

Measure the bandwidth of the underlay of a IPSec tunnel.

```
execute speed-test-ipsec <interface> <tunnel_name>
```

Parameter	Description	Type	Size
<interface>	ipsec phase1 interface.	string	
<tunnel_name>	all <specific tunnel name>.	string	

execute speed-test-options

speed-test-options

This topic includes the following commands:

- [execute speed-test-options blksize on page 1901](#)
- [execute speed-test-options burst on page 1901](#)
- [execute speed-test-options ctrl-port on page 1901](#)
- [execute speed-test-options duration on page 1901](#)
- [execute speed-test-options get-token on page 1902](#)

- [execute speed-test-options max-down on page 1902](#)
- [execute speed-test-options max-up on page 1902](#)
- [execute speed-test-options protocol on page 1902](#)
- [execute speed-test-options reset on page 1903](#)
- [execute speed-test-options reset-token on page 1903](#)
- [execute speed-test-options server-port on page 1903](#)
- [execute speed-test-options set-shaper on page 1903](#)
- [execute speed-test-options show on page 1903](#)
- [execute speed-test-options tos on page 1903](#)

execute speed-test-options blksize

Set blksize.

```
execute speed-test-options blksize <blksize>
```

Parameter	Description	Type	Size
<blksize>	0-2147483647	string	

execute speed-test-options burst

Set number of burst packet in UDP test.

```
execute speed-test-options burst <burst>
```

Parameter	Description	Type	Size
<burst>	0-2147483647	string	

execute speed-test-options ctrl-port

Set test controller port.

```
execute speed-test-options ctrl-port <port>
```

Parameter	Description	Type	Size
<port>	0-65535	string	

execute speed-test-options duration

Set test duration in seconds.

```
execute speed-test-options duration <duration>
```

Parameter	Description	Type	Size
<duration>	5-2147483647	string	

execute speed-test-options get-token

Obtain test token via ipsec tunnel.

```
execute speed-test-options get-token <ipsec-p1-name> <tunnel>
```

Parameter	Description	Type	Size
<ipsec-p1-name>	IPSec phase1 interface.	string	
<tunnel>	tunnel name.	string	

execute speed-test-options max-down

Set maximum downloading rate (kbps).

```
execute speed-test-options max-down <max-down>
```

Parameter	Description	Type	Size
<max-down>	0-2147483647	string	

execute speed-test-options max-up

Set maximum uploading rate (kbps).

```
execute speed-test-options max-up <max-up>
```

Parameter	Description	Type	Size
<max-up>	0-2147483647	string	

execute speed-test-options protocol

Set protocol.

```
execute speed-test-options protocol <protocol>
```

Parameter	Description	Type	Size
<protocol>	TCP or UDP	string	

execute speed-test-options reset

Reset options to default.

```
execute speed-test-options reset
```

execute speed-test-options reset-token

Reset saved token.

```
execute speed-test-options reset-token
```

execute speed-test-options server-port

Set test server port.

```
execute speed-test-options server-port <port>
```

Parameter	Description	Type	Size
<port>	0-65535	string	

execute speed-test-options set-shaper

Notify server to set egress shaper based on test results.

```
execute speed-test-options set-shaper <enable | disable>
```

Parameter	Description	Type	Size
<enable disable>	<enable disable>	string	

execute speed-test-options show

Show options.

```
execute speed-test-options show
```

execute speed-test-options tos

Set TOS.

```
execute speed-test-options tos <tos>
```

Parameter	Description	Type	Size
<tos>	TOS	string	

execute speed-test-server

speed-test-server

This topic includes the following commands:

- [execute speed-test-server download on page 1904](#)
- [execute speed-test-server list on page 1904](#)

execute speed-test-server download

Download server list from FortiProxy Cloud.

```
execute speed-test-server download
```

execute speed-test-server list

List all available servers.

```
execute speed-test-server list
```

execute ssh

Simple SSH client.

```
execute ssh <user@host> <port>
```

Parameter	Description	Type	Size
<user@host>	User-name @ IP address or domain name.	string	
<port>	port.	string	

execute ssh6

Simple IPv6 SSH client.

```
execute ssh6 <user@host> <port>
```

Parameter	Description	Type	Size
<user@host>	User-name @ IPv6 address or domain name.	string	
<port>	port.	string	

execute ssh6-options

ssh6-options

This topic includes the following commands:

- [execute ssh6-options interface on page 1905](#)
- [execute ssh6-options reset on page 1905](#)
- [execute ssh6-options source6 on page 1905](#)
- [execute ssh6-options view-settings on page 1906](#)

execute ssh6-options interface

Auto | <outgoing interface>.

```
execute ssh6-options interface <string>
```

Parameter	Description	Type	Size
<string>	Auto <outgoing interface>.	string	

execute ssh6-options reset

Reset settings.

```
execute ssh6-options reset
```

execute ssh6-options source6

Auto | <source interface IPv6>.

```
execute ssh6-options source6 <xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx>
```

Parameter	Description	Type	Size
<xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx>	<source interface IPv6> Auto	string	

execute ssh6-options view-settings

View current settings for SSH (IPv6) option.

```
execute ssh6-options view-settings
```

execute ssh-options

ssh-options

This topic includes the following commands:

- [execute ssh-options interface on page 1906](#)
- [execute ssh-options reset on page 1906](#)
- [execute ssh-options source on page 1906](#)
- [execute ssh-options view-settings on page 1907](#)

execute ssh-options interface

Auto | <outgoing interface>.

```
execute ssh-options interface <string>
```

Parameter	Description	Type	Size
<string>	Auto <outgoing interface>.	string	

execute ssh-options reset

Reset settings.

```
execute ssh-options reset
```

execute ssh-options source

Auto | <source interface IP>.

```
execute ssh-options source <xxx.xxx.xxx.xxx>
```

Parameter	Description	Type	Size
<xxx.xxx.xxx.xxx>	<source interface IP> Auto	string	

execute ssh-options view-settings

View the current settings for SSH option.

```
execute ssh-options view-settings
```

execute ssh-regen-keys

Regenerate SSH server keys.

```
execute ssh-regen-keys
```

execute sync-IPSec

Sync all IPSec from peers.

```
execute sync-IPSec
```

execute sync-session

Sync all sessions from peers.

```
execute sync-session
```

execute system

system

This topic includes the following commands:

- [execute system custom-language import on page 1907](#)
- [execute system fortisandbox test-alternative-connectivity on page 1908](#)
- [execute system fortisandbox test-primary-connectivity on page 1908](#)

execute system custom-language import

Import a custom language from the TFTP server.

```
execute system custom-language import <string>
```

Parameter	Description	Type	Size
<string>	The language name.	string	

execute system fortisandbox test-alternative-connectivity

Query alternative FortiSandbox connection status.

```
execute system fortisandbox test-alternative-connectivity
```

execute system fortisandbox test-primary-connectivity

Query FortiSandbox connection status.

```
execute system fortisandbox test-primary-connectivity
```

execute tac

tac

This topic includes the following commands:

- [execute tac report on page 1908](#)

execute tac report

Debug report.

```
execute tac report
```

execute telnet

Simple telnet client.

```
execute telnet <dest> <port>
```

Parameter	Description	Type	Size
<dest>	IP address or domain name.	string	
<port>	port	string	

execute telnet-options

telnet-options

This topic includes the following commands:

- [execute telnet-options interface on page 1909](#)
- [execute telnet-options reset on page 1909](#)
- [execute telnet-options source on page 1909](#)
- [execute telnet-options view-settings on page 1909](#)

execute telnet-options interface

Auto | <outgoing interface>.

```
execute telnet-options interface <string>
```

Parameter	Description	Type	Size
<string>	Auto <outgoing interface>.	string	

execute telnet-options reset

Reset settings.

```
execute telnet-options reset
```

execute telnet-options source

Auto | <source interface IP>.

```
execute telnet-options source <xxx.xxx.xxx.xxx>
```

Parameter	Description	Type	Size
<xxx.xxx.xxx.xxx>	<source interface IP> Auto	string	

execute telnet-options view-settings

View the current settings for TELNET option.

```
execute telnet-options view-settings
```

execute test

test

This topic includes the following commands:

- [execute test tftp-analytics-report on page 1910](#)

execute test tftp-analytics-report

tftp analytics report.

```
execute test tftp-analytics-report <ip> <dir> <checksum>
```

Parameter	Description	Type	Size
<ip>	IP address of the TFTP server.	string	
<dir>	Directory for the analytics report.	string	
<checksum>	Checksum for the analytics report.	string	

execute time

System time.

```
execute time <hh:mm:ss>
```

Parameter	Description	Type	Size
<hh:mm:ss>	hh: 0-23, mm: 0-59, ss: 0-59.	string	

execute traceroute

Traceroute {IP|hostname}.

```
execute traceroute <dest>
```

Parameter	Description	Type	Size
<dest>	IP address or hostname.	string	

execute traceroute-options

traceroute-options

This topic includes the following commands:

- [execute traceroute-options device on page 1911](#)
- [execute traceroute-options queries on page 1911](#)
- [execute traceroute-options reset on page 1911](#)
- [execute traceroute-options source on page 1911](#)
- [execute traceroute-options use-sdwan on page 1912](#)
- [execute traceroute-options view-settings on page 1912](#)

execute traceroute-options device

Auto | <ifname>.

```
execute traceroute-options device <string>
```

Parameter	Description	Type	Size
<string>	Auto <ifname>	string	

execute traceroute-options queries

Integer value to specify number of queries per hop.

```
execute traceroute-options queries <integer>
```

Parameter	Description	Type	Size
<integer>	Integer value [1, 10].	string	

execute traceroute-options reset

Reset settings.

```
execute traceroute-options reset
```

execute traceroute-options source

Auto | <source interface IP>.

```
execute traceroute-options source <string>
```

Parameter	Description	Type	Size
<string>	Auto <source interface IP>.	string	

execute traceroute-options use-sdwan

Use SD-WAN rules to get output interface <yes | no>.

```
execute traceroute-options use-sdwan <string>
```

Parameter	Description	Type	Size
<string>	<yes no>.	string	

execute traceroute-options view-settings

View the current options of traceroute.

```
execute traceroute-options view-settings
```

execute tracert6

Traceroute for IPv6.

```
execute tracert6
```

execute update-av

Update AV engine/definitions.

```
execute update-av
```

execute update-external-resource

Download external resource.

```
execute update-external-resource <name>
```

Parameter	Description	Type	Size
<name>	External resource name	string	

execute update-ffdb-on-demand

Update ondemand FFDB from FDS.

```
execute update-ffdb-on-demand
```

execute update-geo-ip

Update IP Geography DB.

```
execute update-geo-ip
```

execute update-ips

Update IPS engine/definitions.

```
execute update-ips
```

execute update-list

Download update server list.

```
execute update-list
```

execute update-now

Update now.

```
execute update-now
```

execute update-src-vis

Update src-vis object.

```
execute update-src-vis
```

execute upd-vd-license

Update VDOM license.

```
execute upd-vd-license <license key>
```

Parameter	Description	Type	Size
<license key>	VDOM license key.	string	

execute upload

upload

This topic includes the following commands:

- [execute upload config ftp on page 1914](#)
- [execute upload config tftp on page 1915](#)
- [execute upload config usb on page 1915](#)
- [execute upload fortinbi-installer cloud on page 1915](#)
- [execute upload fortinbi-installer tftp on page 1915](#)
- [execute upload fortinbi-isolator-image cloud on page 1916](#)
- [execute upload fortinbi-isolator-image tftp on page 1916](#)
- [execute upload image ftp on page 1916](#)
- [execute upload image tftp on page 1916](#)
- [execute upload image usb on page 1917](#)
- [execute upload report-img ftp on page 1917](#)
- [execute upload report-img tftp on page 1917](#)

execute upload config ftp

Load config file from FTP server.

```
execute upload config ftp <string> <comment> <ftp server>[:ftp port] <Enter>|<user> <passwd>  
<Enter>|<passwd>
```

Parameter	Description	Type	Size
<string>	Configure file name(path) on the remote server.	string	
<comment>	comments	string	
<ftp server>[:ftp port]	FTP server IPv4, IPv6, or FQDN can be attached with port.	string	
<Enter> <user>	FTP username may be needed.	string	
<passwd>	FTP password.	string	
<Enter> <passwd>	Password may be needed to restore.	string	

execute upload config tftp

Load config from TFTP server to local disk.

```
execute upload config tftp <string> <comment> <tftp server>
```

Parameter	Description	Type	Size
<string>	File name on the TFTP server.	string	
<comment>	comments	string	
<tftp server>	TFTP server IPv4, IPv6, or FQDN.	string	

execute upload config usb

Load config from USB to local disk.

```
execute upload config usb <string> <comment>
```

Parameter	Description	Type	Size
<string>	File name on USB disk.	string	
<comment>	comments	string	

execute upload fortinbi-installer cloud

Upload the FortiNBI installer from cloud.

```
execute upload fortinbi-installer cloud
```

execute upload fortinbi-installer tftp

Upload the FortiNBI installer from a TFTP server.

```
execute upload fortinbi-installer tftp <string> <tftp server>
```

Parameter	Description	Type	Size
<string>	File name on the TFTP server.	string	
<tftp server>	TFTP server IPv4, IPv6, or FQDN.	string	

execute upload fortinbi-isolator-image cloud

Upload the FortiNBI isolator image from cloud.

```
execute upload fortinbi-isolator-image cloud
```

execute upload fortinbi-isolator-image tftp

Upload the FortiNBI isolator image from a TFTP server.

```
execute upload fortinbi-isolator-image tftp <string> <tftp server>
```

Parameter	Description	Type	Size
<string>	File name on the TFTP server.	string	
<tftp server>	TFTP server IPv4, IPv6, or FQDN.	string	

execute upload image ftp

Load image from FTP server.

```
execute upload image ftp <string> <comment> <ftp server>[:ftp port] <Enter>|<user> <passwd>
```

Parameter	Description	Type	Size
<string>	Image file name(path) on the remote server.	string	
<comment>	comments	string	
<ftp server>[:ftp port]	FTP server IPv4, IPv6, or FQDN can be attached with port.	string	
<Enter> <user>	FTP username may be needed.	string	
<passwd>	FTP password.	string	

execute upload image tftp

Load image from TFTP server to local disk.


```
execute upload image tftp <string> <comment> <tftp server>
```

Parameter	Description	Type	Size
<string>	File name on the TFTP server.	string	
<comment>	comments	string	
<tftp server>	TFTP server IPv4, IPv6, or FQDN.	string	

execute upload image usb

Load image from USB to local disk.

```
execute upload image usb <string> <comment>
```

Parameter	Description	Type	Size
<string>	File name on USB disk.	string	
<comment>	comments	string	

execute upload report-img ftp

upload report image file from ftp server

```
execute upload report-img ftp <string> <ftp server>[:ftp port] <Enter>|<user> <passwd>
<Enter>
```

Parameter	Description	Type	Size
<string>	Image file name(path) on the remote server.	string	
<ftp server>[:ftp port]	FTP server IPv4, IPv6, or FQDN can be attached with port.	string	
<Enter> <user>	FTP username may be needed.	string	
<passwd>	FTP password.	string	
<Enter>		string	

execute upload report-img tftp

upload report image file from tftp server

```
execute upload report-img tftp <string> <tftp server> <Enter>
```

Parameter	Description	Type	Size
<string>	File name on the TFTP server.	string	

Parameter	Description	Type	Size
<tftp server>	TFTP server IPv4, IPv6, or FQDN.	string	
<Enter>		string	

execute usb-device

usb-device

This topic includes the following commands:

- [execute usb-device disconnect on page 1918](#)
- [execute usb-device list on page 1918](#)
- [execute usb-device modeswitch on page 1918](#)

execute usb-device disconnect

Disconnect a USB device.

```
execute usb-device disconnect
```

execute usb-device list

Display the lists of the USB device.

```
execute usb-device list
```

execute usb-device modeswitch

Perform usb device mode switch

```
execute usb-device modeswitch <argument string>
```

Parameter	Description	Type	Size
<argument string>	usb_modeswitch arguments. e.g: usb_modeswitch '-v 0x12d1 -p 0x1f01 -V 0x12d1 -P 0x14dc'	string	

execute usb-disk

usb-disk

This topic includes the following commands:

- [execute usb-disk delete on page 1919](#)
- [execute usb-disk eject on page 1919](#)
- [execute usb-disk format on page 1919](#)
- [execute usb-disk list on page 1919](#)
- [execute usb-disk rename on page 1919](#)

execute usb-disk delete

Delete file from the USB disk.

```
execute usb-disk delete <filename>
```

Parameter	Description	Type	Size
<filename>	File in the USB disk.	string	

execute usb-disk eject

Eject the USB disk.

```
execute usb-disk eject
```

execute usb-disk format

Format the USB disk.

```
execute usb-disk format
```

execute usb-disk list

Display the contents of the USB disk.

```
execute usb-disk list
```

execute usb-disk rename

Rename file in the USB disk.

```
execute usb-disk rename <old> <new>
```

Parameter	Description	Type	Size
<old>	Old file in the USB disk.	string	
<new>	New file in the USB disk.	string	

execute vm-license

Download VM license from FortiCare.

```
execute vm-license <token> <proxy>
```

Parameter	Description	Type	Size
<token>	VM License Token.	string	
<proxy>	HTTP Proxy URL.	string	

execute vm-license-options

vm-license-options

This topic includes the following commands:

- [execute vm-license-options account-id on page 1920](#)
- [execute vm-license-options account-password on page 1921](#)
- [execute vm-license-options count on page 1921](#)
- [execute vm-license-options government on page 1921](#)
- [execute vm-license-options interval on page 1921](#)
- [execute vm-license-options proxy on page 1921](#)
- [execute vm-license-options reset on page 1922](#)
- [execute vm-license-options show on page 1922](#)
- [execute vm-license-options token on page 1922](#)

execute vm-license-options account-id

Account ID.

```
execute vm-license-options account-id <string>
```

Parameter	Description	Type	Size
<string>	Account ID.	string	

execute vm-license-options account-password

Account password.

```
execute vm-license-options account-password <string>
```

Parameter	Description	Type	Size
<string>	Account password.	string	

execute vm-license-options count

FortiFlex license download count (default=1, 0 means infinite).

```
execute vm-license-options count <integer>
```

Parameter	Description	Type	Size
<integer>	API call count.	string	

execute vm-license-options government

For government use <yes | no>.

```
execute vm-license-options government <string>
```

Parameter	Description	Type	Size
<string>	<yes no>.	string	

execute vm-license-options interval

FortiFlex license download interval (1-3600 sec, default=60).

```
execute vm-license-options interval <integer>
```

Parameter	Description	Type	Size
<integer>	API call interval.	string	

execute vm-license-options proxy

HTTP proxy URL.

```
execute vm-license-options proxy <string>
```

Parameter	Description	Type	Size
<string>	HTTP proxy URL.	string	

execute vm-license-options reset

Reset options.

```
execute vm-license-options reset
```

execute vm-license-options show

Show options.

```
execute vm-license-options show
```

execute vm-license-options token

Token.

```
execute vm-license-options token <string>
```

Parameter	Description	Type	Size
<string>	Token.	string	

execute vpn

vpn

This topic includes the following commands:

- [execute vpn certificate ca export tftp on page 1923](#)
- [execute vpn certificate ca import auto on page 1923](#)
- [execute vpn certificate ca import bundle on page 1923](#)
- [execute vpn certificate ca import est on page 1924](#)
- [execute vpn certificate ca import tftp on page 1924](#)
- [execute vpn certificate crl import auto on page 1924](#)
- [execute vpn certificate ems_ca import tftp on page 1924](#)
- [execute vpn certificate hsm-local gch-get-versions on page 1925](#)
- [execute vpn certificate hsm-local sp-debug on page 1925](#)
- [execute vpn certificate hsm-local status on page 1925](#)
- [execute vpn certificate hsm-local verify on page 1925](#)

- [execute vpn certificate local export tftp on page 1926](#)
- [execute vpn certificate local generate cmp-ec on page 1926](#)
- [execute vpn certificate local generate cmp-rsa on page 1926](#)
- [execute vpn certificate local generate default-gui-mgmt-cert on page 1926](#)
- [execute vpn certificate local generate default-ssl-ca on page 1926](#)
- [execute vpn certificate local generate default-ssl-ca-untrusted on page 1927](#)
- [execute vpn certificate local generate default-ssl-key-certs on page 1927](#)
- [execute vpn certificate local generate default-ssl-serv-key on page 1927](#)
- [execute vpn certificate local generate ec on page 1927](#)
- [execute vpn certificate local generate est on page 1927](#)
- [execute vpn certificate local generate hsm on page 1927](#)
- [execute vpn certificate local generate rsa on page 1928](#)
- [execute vpn certificate local import tftp on page 1928](#)
- [execute vpn certificate local verify on page 1928](#)
- [execute vpn certificate remote export tftp on page 1928](#)
- [execute vpn certificate remote import tftp on page 1929](#)
- [execute vpn ipsec tunnel down on page 1929](#)
- [execute vpn ipsec tunnel up on page 1929](#)

execute vpn certificate ca export tftp

Export CA certificate to a TFTP server.

```
execute vpn certificate ca export tftp <string>
```

Parameter	Description	Type	Size
<string>	CA certificate name.	string	

execute vpn certificate ca import auto

Import CA certificate via SCEP.

```
execute vpn certificate ca import auto <string>
```

Parameter	Description	Type	Size
<string>	URL of the CA server.	string	

execute vpn certificate ca import bundle

Import certificate bundle from a TFTP server.

```
execute vpn certificate ca import bundle <string> <ip>
```

Parameter	Description	Type	Size
<string>	File name on the TFTP server.	string	
<ip>	IP address of TFTP server.	string	

execute vpn certificate ca import est

Import CA certificate via EST.

```
execute vpn certificate ca import est <string>
```

Parameter	Description	Type	Size
<string>	URL of the CA server. (e.g. https://example.com:1234).	string	

execute vpn certificate ca import tftp

Import CA certificate from a TFTP server.

```
execute vpn certificate ca import tftp <string> <tftp server>
```

Parameter	Description	Type	Size
<string>	File name on the TFTP server.	string	
<tftp server>	TFTP server IPv4, IPv6, or FQDN.	string	

execute vpn certificate crl import auto

Update CRL.

```
execute vpn certificate crl import auto <string>
```

Parameter	Description	Type	Size
<string>	CRL name.	string	

execute vpn certificate ems_ca import tftp

Import Testing EMS CA certificate from a TFTP server.

```
execute vpn certificate ems_ca import tftp <string> <tftp server>
```


Parameter	Description	Type	Size
<string>	File name on the TFTP server.	string	
<tftp server>	TFTP server IPv4, IPv6, or FQDN.	string	

execute vpn certificate hsm-local gch-get-versions

List available crypto-key-versions.

```
execute vpn certificate hsm-local gch-get-versions <string>
```

Parameter	Description	Type	Size
<string>	hsm-local certificate name.	string	

execute vpn certificate hsm-local sp-debug

Special debug command, see source code for its action.

```
execute vpn certificate hsm-local sp-debug <string>
```

Parameter	Description	Type	Size
<string>	hsm-local certificate name.	string	

execute vpn certificate hsm-local status

Status check for an hsm-local certificate.

```
execute vpn certificate hsm-local status <string>
```

Parameter	Description	Type	Size
<string>	hsm-local certificate name.	string	

execute vpn certificate hsm-local verify

Verify between hsm-local certificate and its private key.

```
execute vpn certificate hsm-local verify <string>
```

Parameter	Description	Type	Size
<string>	hsm-local certificate name.	string	

execute vpn certificate local export tftp

Export local certificate or certificate request to a TFTP server.

```
execute vpn certificate local export tftp <string>
```

Parameter	Description	Type	Size
<string>	Local certificate name.	string	

execute vpn certificate local generate cmp-ec

Generate a ECDSA certificate request over CMPv2.

```
execute vpn certificate local generate cmp-ec <string>
```

Parameter	Description	Type	Size
<string>	Local certificate name.	string	

execute vpn certificate local generate cmp-rsa

Generate a RSA certificate request over CMPv2.

```
execute vpn certificate local generate cmp-rsa <string> <number> <string>
```

Parameter	Description	Type	Size
<string>	Local certificate name.	string	
<number>	Key size: 1024, 1536, 2048, 4096.	string	
<string>	Server ('ADDRESS:PORT' for CMP server, add 'https://' before address to enable ssl/tls).	string	

execute vpn certificate local generate default-gui-mgmt-cert

Generate the default GUI mgmt admin-server certificate.

```
execute vpn certificate local generate default-gui-mgmt-cert
```

execute vpn certificate local generate default-ssl-ca

Generate the default CA certificate used by SSL Inspection.

```
execute vpn certificate local generate default-ssl-ca
```

execute vpn certificate local generate default-ssl-ca-untrusted

Generate the default untrusted CA certificate used by SSL Inspection.

```
execute vpn certificate local generate default-ssl-ca-untrusted
```

execute vpn certificate local generate default-ssl-key-certs

Generate the default RSA, DSA and ECDSA key certs for ssl resign.

```
execute vpn certificate local generate default-ssl-key-certs
```

execute vpn certificate local generate default-ssl-serv-key

Generate the default server key used by SSL Inspection.

```
execute vpn certificate local generate default-ssl-serv-key
```

execute vpn certificate local generate ec

Generate an elliptic curve certificate request.

```
execute vpn certificate local generate ec <string>
```

Parameter	Description	Type	Size
<string>	Local certificate name.	string	

execute vpn certificate local generate est

Generate an certificate via Enrollment over Secure Transport.

```
execute vpn certificate local generate est <string>
```

Parameter	Description	Type	Size
<string>	Local certificate name.	string	

execute vpn certificate local generate hsm

Generate a HSM RSA certificate request.

```
execute vpn certificate local generate hsm <string>
```

Parameter	Description	Type	Size
<string>	NetHSM slot name.	string	

execute vpn certificate local generate rsa

Generate a RSA certificate request.

```
execute vpn certificate local generate rsa <string> <number> <string>
```

Parameter	Description	Type	Size
<string>	Local certificate name.	string	
<number>	Key size: 1024, 1536, 2048, 4096.	string	
<string>	Subject (Host IP/Domain Name/E-Mail).	string	

execute vpn certificate local import tftp

Import the signed certificate from a TFTP server.

```
execute vpn certificate local import tftp <string> <tftp server> <string> <Enter>|<passwd>
```

Parameter	Description	Type	Size
<string>	File name on the TFTP server.	string	
<tftp server>	TFTP server IPv4, IPv6, or FQDN.	string	
<string>	Certificate file type ('cer' 'p12').	string	
<Enter> <passwd>	Password for PKCS12 file.	string	

execute vpn certificate local verify

Verify certificate and private key files match and regenerate if mismatched.

```
execute vpn certificate local verify <string>
```

Parameter	Description	Type	Size
<string>	Local certificate name.	string	

execute vpn certificate remote export tftp

Export REMOTE certificate to a TFTP server.

```
execute vpn certificate remote export tftp <string>
```

Parameter	Description	Type	Size
<string>	REMOTE certificate name.	string	

execute vpn certificate remote import tftp

Import REMOTE certificate from a TFTP server.

```
execute vpn certificate remote import tftp <string> <tftp server>
```

Parameter	Description	Type	Size
<string>	File name on the TFTP server.	string	
<tftp server>	TFTP server IPv4, IPv6, or FQDN.	string	

execute vpn ipsec tunnel down

Shut down the specified IPsec tunnel.

```
execute vpn ipsec tunnel down <phase1>
```

Parameter	Description	Type	Size
<phase1>	Phase1 name.	string	

execute vpn ipsec tunnel up

Activate the specified IPsec tunnel.

```
execute vpn ipsec tunnel up <phase1>
```

Parameter	Description	Type	Size
<phase1>	Phase1 name.	string	

execute wake-on-lan

Wake On LAN command.

```
execute wake-on-lan <interface> <host-mac> <protocol> <port> <ip> <password>
```

Parameter	Description	Type	Size
<interface>	Network interface to send out WoL packets.	string	

Parameter	Description	Type	Size
<host-mac>	Host MAC address to be woken up.	string	
<protocol>	Protocol used by WoL packets (1-WoL, 2-UDP, default = 2).	string	
<port>	Port used by UDP WoL packets, (0, 7, or 9, default = 9).	string	
<ip>	Broadcast IP used by UDP WoL packets.	string	
<password>	Password of the destination host if SecureOn is enabled.	string	

execute webcache

webcache

This topic includes the following commands:

- [execute webcache delete regular-expression on page 1930](#)
- [execute webcache delete simple-string on page 1930](#)
- [execute webcache delete status on page 1930](#)
- [execute webcache delete wildcard on page 1931](#)

execute webcache delete regular-expression

Delete objects matching a regular expression in webcache.

```
execute webcache delete regular-expression <pattern>
```

Parameter	Description	Type	Size
<pattern>	Pattern.	string	

execute webcache delete simple-string

Delete objects matching a simple string in webcache.

```
execute webcache delete simple-string <pattern>
```

Parameter	Description	Type	Size
<pattern>	Pattern.	string	

execute webcache delete status

Query pattern deletion status.

```
execute webcache delete status
```

execute webcache delete wildcard

Delete objects matching a wildcard in webcache.

```
execute webcache delete wildcard <pattern>
```

Parameter	Description	Type	Size
<pattern>	Pattern.	string	

execute webfilter

webfilter

This topic includes the following commands:

- [execute webfilter quota-reset on page 1931](#)

execute webfilter quota-reset

Reset the WF quota for a given user.

```
execute webfilter quota-reset <wf-profile> <endpoint>
```

Parameter	Description	Type	Size
<wf-profile>	Web filter profile.	string	
<endpoint>	Authenticated user or IP address.	string	



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