



FortiMail - CLI Reference

Version 6.2.0

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August 14, 2019

FortiMail 6.2.0 CLI Reference

06-620-000000-20190814

TABLE OF CONTENTS

Change Log	15
Using the CLI	16
Connecting to the CLI	16
Local console connection and initial configuration	17
Enabling access to the CLI through the network (SSH or Telnet)	19
Connecting to the CLI using SSH	20
Connecting to the CLI using Telnet	21
Logging out from the CLI console	22
Command syntax	22
Terminology	22
Indentation	24
Notation	24
Sub-commands	26
Permissions	29
Tips and tricks	34
Help	34
Shortcuts and key commands	34
Command abbreviation	35
Environment variables	35
Special characters	36
Language support	37
Screen paging	37
Baud rate	38
Editing the configuration file on an external host	38
config	39
antispam adult image analysis	40
Syntax	41
antispam behavior-analysis	41
Syntax	41
Related topics	41
antispam bounce-verification	42
Syntax	42
Related topics	42
antispam deepheader-analysis	42
Syntax	42
Related topics	43
antispam endpoint reputation blacklist	43
Syntax	43
Related topics	44
antispam endpoint reputation exempt	44
Syntax	44
Related topics	44
antispam greylist exempt	44
Syntax	44

Related topics	45
antispam quarantine-report	46
Syntax	46
Related topics	46
antispam settings	47
Syntax	47
Related topics	55
antispam trusted	56
Syntax	56
Related topics	56
antispam url-fgas-exempt-list	57
Syntax	57
archive account	57
Syntax	57
Related topics	59
archive exempt-policy	59
Syntax	59
Related topics	60
archive journal	60
Syntax	60
archive policy	61
Syntax	61
Related topics	62
customized-message	62
Syntax	62
Related topics	64
alert-email	64
as-sender-rate-notify	64
calendar-event-notify	65
custom-webmail-login	66
email-template-av-repack	67
email-template-notify-generic	67
ibe-banner-footer	68
ibe-banner-header	69
ibe-notify-account-reset	69
ibe-notify-account-reset-done	70
ibe-notify-password-reset	71
ibe-notify-password-reset-done	72
ibe-notify-pull-message	73
ibe-notify-push-message	73
ibe-notify-user-register-done	74
ibe-notify-wread-notif	75
ibe-notify-wunread-rcpt	76
ibe-notify-wunread-sender	77
log-report	77
login-disclaimer	78
reject-content-attachment	79
reject-content-message	79

reject-delivery	80
reject-endpoint-reputation	81
reject-spam	81
reject-virus-message	82
reject-virus-suspicious	83
replace-content-attachment	83
replace-content-body	84
replace-content-subject	85
replace-virus-message	85
replace-virus-suspicious	86
report-quarantine-summary	86
dlp scan-rules	87
Syntax	87
domain	88
Syntax	88
config customized-message	89
config domain-setting	90
config policy recipient	102
config user mail	106
domain-association	107
Syntax	107
Related topics	108
file content-disarm-reconstruct	108
Syntax	108
file decryption password	108
Syntax	108
file filter	109
Syntax	109
file signature	109
Syntax	109
log setting remote	110
Syntax	110
Related topics	112
log setting local	112
Syntax	112
Related topics	114
log alertemail recipient	115
Syntax	115
Example	115
Related topics	115
log alertemail setting	115
Syntax	116
Related topics	116
mailsetting host-mapping	117
Syntax	117
Related topics	117
mailsetting mail-scan-options	117
Syntax	117

Related topics	118
mailsetting preference	118
Syntax	118
mailsetting proxy-smtp	119
Syntax	119
Related topics	121
mailsetting relay-host-list	121
Syntax	121
Related topics	122
mailsetting email-addr-handling	123
Syntax	123
mailsetting smtp-rcpt-verification	123
Syntax	123
mailsetting storage central-ibe	124
Syntax	124
mailsetting storage central-quarantine	125
Syntax	125
Related topics	127
mailsetting storage config	127
Syntax	127
Related topics	128
mailsetting systemquarantine	129
Syntax	129
Related topics	130
o365 account	130
Syntax	130
o365 profile action	130
Syntax	130
o365 profile antispam	131
o365 profile antivirus	131
o365 profile content	131
o365 profile dlp	132
policy access-control receive	132
Syntax	133
Related topics	136
policy access-control delivery	137
Syntax	137
Related topics	139
policy delivery-control	139
Syntax	139
policy ip	139
Syntax	139
Related topics	142
policy recipient	142
Syntax	142
Related topics	145
profile antispam	145

Syntax	145
Related topics	155
profile antispam-action	155
Syntax	155
Related topics	159
profile antivirus	159
Syntax	159
Related topics	162
profile antivirus-action	162
Syntax	162
Related topics	166
profile authentication	166
Syntax	167
Related topics	169
profile certificate-binding	170
Syntax	170
Related topics	170
profile content	171
Syntax	171
Related topics	177
profile content-action	178
Syntax	178
Related topics	182
profile dictionary	182
Syntax	182
Related topics	185
profile dictionary-group	185
Syntax	185
Related topics	185
profile email-address-group	186
Syntax	186
Related topics	186
profile encryption	186
Syntax	186
Related topics	187
profile impersonation	187
Syntax	188
profile ip-address-group	188
Syntax	188
Related topics	189
profile ip-pool	189
Syntax	189
profile ldap	190
Syntax	190
Email address mapping	205
Related topics	206
profile notification	206

Syntax	207
profile resource	207
Syntax	207
profile session	209
Syntax	209
Related topics	222
profile tls	222
Syntax	222
Related topics	223
profile uri-filter	223
Syntax	223
report	224
Syntax	224
Related topics	226
sensitive data	226
Syntax	226
system accprofile	228
Syntax	228
Related topics	229
system admin	229
Syntax	229
Related topics	231
system appearance	231
Syntax	231
Related topics	232
system backup-restore-mail	232
Syntax	233
Related topics	234
system central-management	235
Syntax	235
system certificate ca	235
Syntax	235
Related topics	235
system certificate crt	236
Syntax	236
Related topics	236
system certificate local	236
Syntax	237
Related topics	237
system certificate remote	237
Syntax	237
Related topics	238
system ddns	238
Syntax	238
Related topics	239
system disclaimer	239
Syntax	240

Related topics	241
system disclaimer-exclude	241
Syntax	241
Related topics	242
system dns	242
Syntax	242
Related topics	243
system encryption ibe	243
Syntax	243
Related topics	245
system encryption ibe-auth	245
Syntax	246
Related topics	246
system fortiguard antivirus	246
Syntax	247
Related topics	249
system fortiguard antis spam	249
Syntax	249
Related topics	250
system fortisandbox	251
Syntax	251
system geoip-override	253
Syntax	253
system global	253
Syntax	253
Related topics	257
system ha	257
Syntax	257
Related topics	270
system interface	270
Syntax	270
Related topics	275
system link-monitor	275
Syntax	275
system mailserver	276
Syntax	276
Related topics	282
system password-policy	282
Syntax	282
Related topics	283
system port-forwarding	283
Syntax	284
system route	284
Syntax	284
Related topics	285
system saml	285
Syntax	285

system scheduled-backup	285
Syntax	285
system security crypto	285
Syntax	286
system security authserver	286
Syntax	286
system snmp community	287
Syntax	287
Related topics	287
system snmp sysinfo	288
Syntax	288
Related topics	288
system snmp threshold	288
Syntax	288
Related topics	289
system snmp user	289
Syntax	289
Related topics	291
system time manual	291
Syntax	292
Related topics	292
system time ntp	292
Syntax	292
Related topics	293
system wccp settings	293
Syntax	293
system webmail-language	294
Syntax	294
Related topics	294
user alias	294
Syntax	295
Related topics	295
user map	296
Syntax	297
Related topics	299
user pki	299
Syntax	300
Related topics	302
execute	303
backup	303
Syntax	304
Example	304
Related topics	305
backup-restore	305
Syntax	305
Related topics	306
certificate	306

Syntax	306
Related topics	308
checklogdisk	308
Syntax	308
Related topics	308
checkmaildisk	308
Syntax	309
Related topics	309
cleanqueue	309
Syntax	309
Related topics	309
create	309
Syntax	309
Related topics	311
date	311
Syntax	311
Related topics	311
db	312
Syntax	312
Related topics	313
dlp	313
Syntax	313
endpoint	313
Syntax	313
erase filesystem	313
Syntax	314
factoryreset	314
Syntax	314
Example	314
Related topics	314
factoryreset config	315
Syntax	315
Related topics	315
factoryreset disk	315
Syntax	315
Related topics	315
factoryreset keeplicense	315
Syntax	315
Related topics	315
factoryreset shutdown	316
Syntax	316
Related topics	316
fips	316
Syntax	316
Related topics	317
formatlogdisk	317
Syntax	317

Example	317
Related topics	318
formatmaildisk	318
Syntax	318
Example	318
Related topics	319
formatmaildisk_backup	319
Syntax	319
Related topics	319
forticloud	319
Syntax	319
ha commands	320
Syntax	320
Related topics	320
license	320
Syntax	320
ibe data	321
Syntax	321
Related topics	321
ibe user	321
Syntax	321
Related topics	322
lvm	322
Syntax	322
maintain	322
Syntax	322
Example	323
Related topics	323
nslookup	323
Syntax	323
Example	324
Related topics	325
partitionlogdisk	325
Syntax	325
Related topics	325
ping	326
Syntax	326
Example	326
Example	326
Related topics	327
ping-option	327
Syntax	327
Example	328
Related topics	328
ping6	329
Syntax	329
Related topics	329

ping6-option	329
Syntax	329
Related topics	330
raid	330
Syntax	331
Example	331
Related topics	331
reboot	331
Syntax	331
Example	331
Related topics	332
reload	332
Syntax	332
Related topics	332
restore as	333
Syntax	333
Related topics	333
restore av	333
Syntax	333
Related topics	333
restore config	334
Syntax	334
Example	334
Example	335
Related topics	335
restore image	335
Syntax	335
Example	336
Related topics	336
restore mail-queues	336
Syntax	336
Related topics	337
sched-backup	337
Syntax	337
shutdown	337
Syntax	337
Example	337
Related topics	338
smtpstest	338
Syntax	338
Example	338
Related topics	339
ssh	339
Syntax	339
storage	339
Syntax	339
telnettest	340
Syntax	340

Example	340
Related topics	340
traceroute	340
Syntax	341
Example	341
Example	341
Example	341
Related topics	342
update	342
Syntax	342
Related topics	342
user-config	342
Syntax	342
Related topics	343
7vm	343
Syntax	343
get	344
system performance	345
Syntax	345
Example	345
Related topics	345
system status	346
Syntax	346
Example	346
Related topics	346
show & show full-configuration	347

Change Log

Date	Change Description
2019-08-14	Initial release.

Using the CLI

The command line interface (CLI) is an alternative to the web user interface (web UI).

Both can be used to configure the FortiMail unit. However, to perform the configuration, in the web UI, you would use buttons, icons, and forms, while, in the CLI, you would either type lines of text that are commands, or upload batches of commands from a text file, like a configuration script.

If you are new to Fortinet products, or if you are new to the CLI, this section can help you to become familiar.

This section contains the following topics:

- [Connecting to the CLI on page 16](#)
- [Command syntax on page 22](#)
- [Sub-commands on page 26](#)
- [Permissions on page 29](#)
- [Tips and tricks on page 34](#)

Connecting to the CLI

You can access the CLI in two ways:

- Locally — Connect your computer directly to the FortiMail unit's console port.
- Through the network — Connect your computer through any network attached to one of the FortiMail unit's network ports. The network interface must have enabled Telnet or SSH administrative access if you will connect using an SSH/Telnet client, or HTTP/HTTPS administrative access if you will connect using the **CLI Console** widget in the web-based manager.

Local access is required in some cases.

If you are installing your FortiMail unit for the first time and it is not yet configured to connect to your network, unless you reconfigure your computer's network settings for a peer connection, you may only be able to connect to the CLI using a local serial console connection.

Restoring the firmware utilizes a boot interrupt. Network access to the CLI is not available until **after** the boot process has completed, and therefore local CLI access is the only viable option.

Before you can access the CLI through the network, you usually must enable SSH and/or HTTP/HTTPS and/or Telnet on the network interface through which you will access the CLI.

This section includes:

- [Local console connection and initial configuration on page 17](#)
- [Enabling access to the CLI through the network \(SSH or Telnet\)](#)
- [Connecting to the CLI using SSH](#)
- [Connecting to the CLI using Telnet](#)
- [Logging out from the CLI console](#)

Local console connection and initial configuration

Local console connections to the CLI are formed by directly connecting your management computer or console to the FortiMail unit, using its DB-9 or RJ-45 console port.

Requirements

- a computer with an available serial communications (COM) port
- the RJ-45-to-DB-9 or null modem cable included in your FortiMail package
- terminal emulation software such as [PuTTY](#)



The following procedure describes connection using PuTTY software; steps may vary with other terminal emulators.

To connect to the CLI using a local serial console connection

Using the null modem or RJ-45-to-DB-9 cable, connect the FortiMail unit's console port to the serial communications (COM) port on your management computer.

On your management computer, start PuTTY.

In the **Category** tree on the left, go to **Connection > Serial** and configure the following:

Serial line to connect to	COM1 (or, if your computer has multiple serial ports, the name of the connected serial port)
Speed (baud)	9600
Data bits	8
Stop bits	1
Parity	None
Flow control	None

In the **Category** tree on the left, go to **Session** (not the sub-node, **Logging**) and from **Connection type**, select **Serial**.

Click **Open**.

Press the Enter key to initiate a connection.

The login prompt appears.

Type a valid administrator account name (such as `admin`) and press Enter.

Type the password for that administrator account then press Enter. (In its default state, there is no password for the `admin` account.)

The CLI displays the following text, followed by a command line prompt:

Welcome!

Initial configurations

Once you've physically connected your computer to the FortiMail unit, you can configure the basic FortiMail system settings through the CLI. For more information on other CLI commands, see the FortiMail CLI Guide.

To change the admin password:

```
config system admin
  edit <admin_name>
    set password <new_password>
end
```

To change the operation mode:

```
config system global
  set operation_mode {gateway | server | transparent}
end
```

To configure the interface IP address:

```
config system interface
  edit <interface_name>
    set <ip_address>
end
```

To configure the system route/gateway:

```
config system route
  edit <route_int>
    set destination <destination_ip4mask>
    set gateway <gateway_ipv4>
    set interface <interface_name>
end
```

To configure the DNS servers:

```
config system dns
  set primary <ipv4_address>
  set secondary <ipv4_address>
end
```

To configure the NTP time synchronization:

```
config system time ntp
  set ntpserver {<address_ipv4 | <fqdn_str>}
  set ntpsync {enable | disable}
  set syncinterval <interval_int>
end
```

To configure the SNMP v3 user settings:

```
config system snmp user
  edit <user_name>
    set query-status {enable | disable}
end
```

```

set query-port <port_number>
set security-level {authnopriv | authpriv | no authnopriv}
set auth-proto {sha1 | md5}
set aut-pwd <password>
set status {enable | disable}
set trap-status {enable | disable}
set trapevent {cpu | deferred-queue | ha | ip-change | logdisk | mem | raid | remote-
    storage | spam | system | virus}
set trapport-local <port_number>
set trapport-remote <port_number>
config host
    edit <host_no>
        set ip <class_ip>
    end
end
end

```

Enabling access to the CLI through the network (SSH or Telnet)

SSH, Telnet, or **CLI Console** widget (via the web UI) SSH or Telnet access to the CLI requires connecting your computer to the FortiMail unit using one of its RJ-45 network ports. You can either connect directly, using a peer connection between the two, or through any intermediary network.



If you do not want to use an SSH/Telnet client and you have access to the web UI, you can alternatively access the CLI through the network using the **CLI Console** widget in the web UI. For details, see the [FortiWeb Administration Guide](#).



If you do not want to use an SSH/Telnet client and you have access to the web-based manager, you can alternatively access the CLI through the network using the **CLI Console** widget in the web-based manager. For details, see the [FortiMail Administration Guide](#).

You must enable SSH and/or Telnet on the network interface associated with that physical network port. If your computer is **not** connected directly or through a switch, you must also configure the FortiMail unit with a static route to a router that can forward packets from the FortiMail unit to your computer.

You can do this using either:

- a local console connection (see the following procedure)
- the web manager (see the [FortiMail Administration Guide](#))

Requirements

- a computer with an available serial communications (COM) port and RJ-45 port
- terminal emulation software such as [PuTTY](#)
- the RJ-45-to-DB-9 or null modem cable included in your FortiMail package
- a crossover or straight-through network cable autosensing ports
- prior configuration of the operating mode, network interface, and static route (for details, see the [FortiMail Install Guide](#))

To enable SSH or Telnet access to the CLI using a local console connection

Using the network cable, connect the FortiMail unit's network port either directly to your computer's network port, or to a network through which your computer can reach the FortiMail unit.

Note the number of the physical network port.

Using a local console connection, connect and log into the CLI. For details, see [Local console connection and initial configuration on page 17](#).

Enter the following commands:

```
config system interface
  edit <interface_name>
    set allowaccess {http https ping snmp ssh telnet}
  end
```

where:

<interface_str> is the name of the network interface associated with the physical network port, such as port1

{aggregator http https ping ssh telnet webservice} is the complete, space-delimited list of permitted administrative access protocols, such as https ssh telnet; omit protocols that you do not want to permit

For example, to exclude HTTP, SNMP, and Telnet, and allow only HTTPS, ICMP ECHO (ping), and SSH administrative access on port1:

```
config system interface
  edit "port1"
    set allowaccess ping https ssh
  next
end
```



Telnet is not a secure access method. SSH should be used to access the CLI from the Internet or any other untrusted network.

To confirm the configuration, enter the command to view the access settings for the interface.

```
show system interface <interface_name>
```

The CLI displays the settings, including the management access settings, for the interface.

To connect to the CLI through the network interface, see [Connecting to the CLI using SSH on page 20](#) or [Connecting to the CLI using Telnet on page 21](#).

Connecting to the CLI using SSH

Once the FortiMail unit is configured to accept SSH connections, you can use an SSH client on your management computer to connect to the CLI.

Secure Shell (SSH) provides both secure authentication and secure communications to the CLI. Supported SSH protocol versions, ciphers, and bit strengths vary by whether or not you have enabled FIPS-CC mode, but generally include SSH version 2 with AES-128, 3DES, Blowfish, and SHA-1.

Requirements

- a FortiMail network interface configured to accept SSH connections (see [Enabling access to the CLI through the network \(SSH or Telnet\) on page 19](#))
- terminal emulation software such as PuTTY

To connect to the CLI using SSH

1. On your management computer, start PuTTY.
2. In **Host Name (or IP Address)**, type the IP address of a network interface on which you have enabled SSH administrative access.
3. In **Port**, type 22.
4. From **Connection type**, select **SSH**.
5. Click **Open**.
The SSH client connects to the FortiMail unit.
The SSH client may display a warning if this is the first time you are connecting to the FortiMail unit and its SSH key is not yet recognized by your SSH client, or if you have previously connected to the FortiMail unit but it used a different IP address or SSH key. If your management computer is directly connected to the FortiMail unit with no network hosts between them, this is normal.
6. Click **Yes** to verify the fingerprint and accept the FortiMail unit's SSH key. You will not be able to log in until you have accepted the key.
The CLI displays a login prompt.
7. Type a valid administrator account name (such as `admin`) and press Enter.



You can alternatively log in using an SSH key. For details, see [system admin on page 229](#).

8. Type the password for this administrator account and press **Enter**.



If four three for FortiWeb incorrect login or password attempts occur in a row, you will be disconnected. Wait one minute, then reconnect to attempt the login again.

The CLI displays a command line prompt (by default, its host name followed by a #). You can now enter CLI commands.

Connecting to the CLI using Telnet

Once the FortiMail unit is configured to accept Telnet connections, you can use a Telnet client on your management computer to connect to the CLI.



Telnet is not a secure access method. SSH should be used to access the CLI from the Internet or any other untrusted network.

Requirements

- a FortiMail network interface configured to accept Telnet connections (see [Enabling access to the CLI through the network \(SSH or Telnet\) on page 19](#))
- terminal emulation software such as [PuTTY](#)

To connect to the CLI using Telnet

1. On your management computer, start PuTTY.
2. In **Host Name (or IP Address)**, type the IP address of a network interface on which you have enabled Telnet administrative access.
3. In **Port**, type 23.
4. From **Connection type**, select **Telnet**.
5. Click **Open**.
The CLI displays a login prompt.
6. Type a valid administrator account name (such as `admin`) and press **Enter**.
7. Type the password for this administrator account and press **Enter**.



If three incorrect login or password attempts occur in a row, you will be disconnected. Wait one minute, then reconnect to attempt the login again.

The CLI displays a command line prompt (by default, its host name followed by a #). You can now enter CLI commands.

Logging out from the CLI console

No matter how you connect to the FortiMail CLI console (direct console connection, SSH, or Telnet), to exit the console, enter the `Exit` command.

Command syntax

When entering a command, the command line interface (CLI) requires that you use valid syntax, and conform to expected input constraints. It will reject invalid commands.

Fortinet documentation uses the following conventions to describe valid command syntax.

See also

[Using the CLI on page 16](#)

Terminology

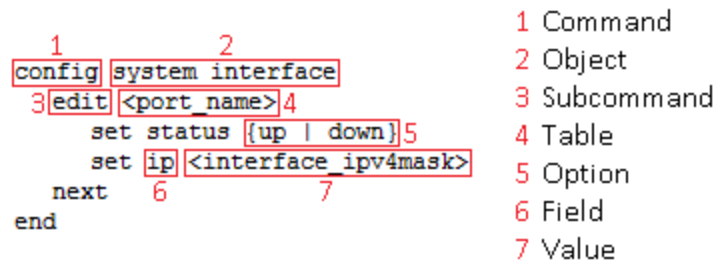
Each command line consists of a command word that is usually followed by words for the configuration data or other specific item that the command uses or affects:

```
get system admin
```

To describe the function of each word in the command line, especially if that nature has changed between firmware versions, Fortinet uses terms with the following definitions.

```
config system interface
  edit <port_name>
    set status {up | down}
    set ip <interface_ipv4mask>
  next
end
```

Command syntax terminology:



- **Command** — A word that begins the command line and indicates an action that the FortiMail unit should perform on a part of the configuration or host on the network, such as `config` or `execute`. Together with other words, such as fields or values, that end when you press the Enter key, it forms a command line. Exceptions include multi-line command lines, which can be entered using an escape sequence (See [Shortcuts and key commands on page 34](#)).

Valid command lines must be unambiguous if abbreviated (see [Command abbreviation on page 35](#)). Optional words or other command line permutations are indicated by syntax notation (See [Notation on page 24](#)).



This CLI reference is organized alphabetically by object for the `config` command, and by the name of the command for remaining top-level commands.

- **Object** — A part of the configuration that contains tables and/or fields. Valid command lines must be specific enough to indicate an individual object.
- **Subcommand** — A kind of command that is available only when nested within the scope of another command. After entering a command, its applicable sub-commands are available to you until you exit the scope of the command, or until you descend an additional level into another sub-command. Indentation is used to indicate levels of nested commands (See [Indentation on page 24](#)).

Not all top-level commands have sub-commands. Available sub-commands vary by their containing scope (See [Sub-commands on page 26](#)).

- **Table** — A set of fields that is one of possibly multiple similar sets which each have a name or number, such as an administrator account, policy, or network interface. These named or numbered sets are sometimes referenced by other parts of the configuration that use them (See [Notation on page 24](#)).
- **Option** — A kind of value that must be one or more words from of a fixed set of options (See [Notation on page 24](#)).
- **Field** — The name of a setting, such as `ip` or `hostname`. Fields in some tables must be configured with values. Failure to configure a required field will result in an invalid object configuration error message, and the FortiMail unit will discard the invalid table.
- **Value** — A number, letter, IP address, or other type of input that is usually your configuration setting held by a field.

Valid input types are indicated by constraint notation (See [Notation on page 24](#)).

Indentation

Indentation indicates levels of nested commands, which indicate what other sub-commands are available from within the scope.

For example, the `edit` sub-command is available only within a command that affects tables, and the `next` sub-command is available only from within the `edit` sub-command:

```
config system interface
  edit port1
    set status up
    next
  end
```

For information about available sub-commands, see [Sub-commands on page 26](#).

See also

[Terminology on page 22](#)

[Notation on page 24](#)

Notation

Brackets, braces, and pipes are used to denote valid permutations of the syntax. Constraint notations, such as `<address_ipv4>`, indicate which data types or string patterns are acceptable value input.

Command syntax notation:

Convention	Description
Square brackets []	<p>A non-required word or series of words. For example:</p> <pre>[verbose {1 2 3}]</pre> <p>indicates that you may either omit or type both the <code>verbose</code> word and its accompanying option, such as:</p> <pre>verbose 3</pre>
Angle brackets < >	<p>A word constrained by data type.</p> <p>To define acceptable input, the angled brackets contain a descriptive name followed by an underscore (<code>_</code>) and suffix that indicates the valid data type. For example:</p> <pre><retries_int></pre> <p>indicates that you should enter a number of retries, such as 5.</p> <p>Data types include:</p> <ul style="list-style-type: none"> <code><xxx_name></code>: A name referring to another part of the configuration, such as <code>policy_A</code>. <code><xxx_index></code>: An index number referring to another part of the configuration, such as 0 for the first static route. <code><xxx_pattern></code>: A regular expression or word with wild cards that matches possible variations, such as <code>*@example.com</code> to match all email addresses ending in

Convention	Description
	<p>@example.com. If the pattern does not, for example, accept regular expressions, but requires wild cards only, note that in the Description column.</p> <ul style="list-style-type: none"> • <xxx_fqdn>: A fully qualified domain name (FQDN), such as mail.example.com. • <xxx_email>: An email address, such as admin@mail.example.com. • <xxx_url>: A uniform resource locator (URL) and its associated protocol and host name prefix, which together form a uniform resource identifier (URI), such as http://www.fortinet./com/. • <xxx_ipv4>: An IPv4 address, such as 192.168.1.99. • <xxx_v4mask>: A dotted decimal IPv4 netmask, such as 255.255.255.0. • <xxx_ipv4mask>: A dotted decimal IPv4 address and netmask separated by a space, such as 192.168.1.99 255.255.255.0. • <xxx_ipv4/mask>: A dotted decimal IPv4 address and CIDR-notation netmask separated by a slash, such as 192.168.1.99/24. • <xxx_ipv4range>: A hyphen (-)-delimited inclusive range of IPv4 addresses, such as 192.168.1.1-192.168.1.255. • <xxx_ipv6>: A colon (:)-delimited hexadecimal IPv6 address, such as 3f2e:6a8b:78a3:0d82:1725:6a2f:0370:6234. • <xxx_v6mask>: An IPv6 netmask, such as /96. • <xxx_ipv6mask>: An IPv6 address and netmask separated by a space. • <xxx_str>: A string of characters that is not another data type, such as P@ssw0rd. Strings containing spaces or special characters must be surrounded in quotes or use escape sequences. See Special characters on page 36. • <xxx_int>: An integer number that is not another data type, such as 15 for the number of minutes.
Curly braces { }	<p>A word or series of words that is constrained to a set of options delimited by either vertical bars or spaces.</p> <p>You must enter at least one of the options, unless the set of options is surrounded by square brackets [].</p>

Convention	Description
Options delimited by vertical bars	Mutually exclusive options. For example: <code>{enable disable}</code> indicates that you must enter either <code>enable</code> or <code>disable</code> , but must not enter both.
Options delimited by spaces	Non-mutually exclusive options. For example: <code>{http https ping snmp ssh telnet}</code> indicates that you may enter all or a subset of those options, in any order, in a space-delimited list, such as: <code>ping https ssh</code> Note: To change the options, you must re-type the entire list. For example, to add <code>snmp</code> to the previous example, you would type: <code>ping https snmp ssh</code> If the option adds to or subtracts from the existing list of options, instead of replacing it, or if the list is comma-delimited, the exception will be noted.

See also[Indentation on page 24](#)[Terminology on page 22](#)

Sub-commands

Once you have connected to the CLI, you can enter commands.

Each command line consists of a command word that is usually followed by words for the configuration data or other specific item that the command uses or affects:

```
get system admin
```

Sub-commands are available from within the scope of some commands. When you enter a sub-command level, the command prompt changes to indicate the name of the current command scope. For example, after entering:

```
config system admin
```

the command prompt becomes:

```
(admin) #
```

Applicable sub-commands are available to you until you exit the scope of the command, or until you descend an additional level into another sub-command.

For example, the `edit` sub-command is available only within a command that affects tables; the `next` sub-command is available only from within the `edit` sub-command:

```
config system interface
  edit port1
```

```

    set status up
      next
end

```



Sub-command scope is indicated in this guide by indentation. See [Indentation on page 24](#).

Available sub-commands vary by command. From a command prompt within `config`, two types of sub-commands might become available:

- commands affecting fields
- commands affecting tables



Syntax examples for each top-level command in this guide do not show all available sub-commands. However, when nested scope is demonstrated, you should assume that sub-commands applicable for that level of scope are available.

Commands for tables:

`delete <table_>`
`name>`

Remove a table from the current object.

For example, in `config system admin`, you could delete an administrator account named `newadmin` by typing `delete newadmin` and pressing Enter. This deletes `newadmin` and all its fields, such as `newadmin`'s name and email-address.

`delete` is only available within objects containing tables.

`edit <table_>`
`name>`

Create or edit a table in the current object.

For example, in `config system admin`:

- edit the settings for the default `admin` administrator account by typing `edit admin`.
- add a new administrator account with the name `newadmin` and edit `newadmin`'s settings by typing `edit newadmin`.

`edit` is an interactive sub-command: further sub-commands are available from within `edit`.

`edit` changes the prompt to reflect the table you are currently editing.

`edit` is only available within objects containing tables.

`end`

Save the changes to the current object and exit the `config` command. This returns you to the top-level command prompt.

`get`

List the configuration of the current object or table.

- In objects, `get` lists the table names (if present), or fields and their values.
- In a table, `get` lists the fields and their values.

`purge`

Remove all tables in the current object.

For example, in `config forensic user`, you could type `get` to see the list of user names, then type `purge` and then `y` to confirm that you want to delete all users.

`purge` is only available for objects containing tables.

Caution: Back up the FortiMail unit before performing a `purge`. `purge` cannot be undone. To restore purged tables, the configuration must be restored from a backup. For details, see [backup on page 303](#).

Caution: Do not purge `system interface` or `system admin` tables. `purge` does not provide default tables. This can result in being unable to connect or log in, requiring the FortiMail unit to be formatted and restored.

<code>rename <table_name> to <table_name></code>	<p>Rename a table.</p> <p>For example, in <code>config system admin</code>, you could rename <code>admin3</code> to <code>fwadmin</code> by typing <code>rename admin3 to fwadmin</code>.</p> <p><code>rename</code> is only available within objects containing tables.</p>
<code>show</code>	Display changes to the default configuration. Changes are listed in the form of configuration commands.

Example of table commands:

From within the `system admin` object, you might enter:

```
edit admin_1
```

The CLI acknowledges the new table, and changes the command prompt to show that you are now within the `admin_1` table:

```
new entry 'admin_1' added
(admin_1)#
```

Commands for fields:

<code>abort</code>	Exit both the <code>edit</code> and/or <code>config</code> commands without saving the fields.
<code>end</code>	Save the changes made to the current table or object fields, and exit the <code>config</code> command. (To exit without saving, use <code>abort</code> instead.)
<code>get</code>	<p>List the configuration of the current object or table.</p> <ul style="list-style-type: none"> In objects, <code>get</code> lists the table names (if present), or fields and their values. In a table, <code>get</code> lists the fields and their values.
<code>next</code>	<p>Save the changes you have made in the current table's fields, and exit the <code>edit</code> command to the object prompt. (To save and exit completely to the root prompt, use <code>end</code> instead.)</p> <p><code>next</code> is useful when you want to create or edit several tables in the same object, without leaving and re-entering the <code>config</code> command each time.</p> <p><code>next</code> is only available from a table prompt; it is not available from an object prompt.</p>
<code>set <field_name> <value></code>	Set a field's value.

For example, in `config system admin`, after typing `edit admin`, you could type `set passwd newpass` to change the password of the `admin` administrator to `newpass`.

Note: When using `set` to change a field containing a space-delimited list, type the whole new list. For example, `set <field> <new-value>` will replace the list with the `<new-value>` rather than appending `<new-value>` to the list.

`show`

Display changes to the default configuration. Changes are listed in the form of configuration commands.

`unset <field_
name>`

Reset the table or object's fields to default values.

For example, in `config system admin`, after typing `edit admin`, typing `unset passwd` resets the password of the `admin` administrator account to the default (in this case, no password).

Example of field commands:

From within the `admin_1` table, you might enter:

```
set passwd my1stExamplePassword
```

to assign the value `my1stExamplePassword` to the `passwd` field. You might then enter the `next` command to save the changes and edit the next administrator's table.

Permissions

Depending on the account that you use to log in to the FortiMail unit, you may not have complete access to all CLI commands or areas of the web UI.

Access profiles and domain assignments together control which commands and areas an administrator account can access. **Permissions result from an interaction of the two.**

The domain to which an administrator is assigned can be either:

- **System:** Can access areas regardless of whether an item pertains to the FortiMail unit itself or to a protected domain. The administrator's permissions are restricted only by his or her access profile.
- **A protected domain:** Can **only** access areas that are specifically assigned to that protected domain. The administrator **cannot** access system-wide settings, files or statistics, nor most settings that can affect other protected domains, regardless of whether access to those items would otherwise be allowed by his or her access profile. The administrator **cannot** access the CLI, nor the basic mode of the web UI (For more information on the display modes of the GUI, see the [FortiMail Administration Guide](#)).



IP-based policies, the global black list, and the global white list, the blacklist action, and the global Bayesian database are exceptions to this rule. Domain administrators can configure them, regardless of the fact that they could affect other domains. If you do not want to allow this, do **not** provide **Read-Write** permission to those categories in domain administrators' access profiles.

Areas of the GUI (advanced mode) that cannot be accessed by domain administrators:

- **System > Maintenance**
- **Monitor** except for the **Personal quarantine** tab
- **System** except for the **Administrator** tab
- **System > Mail Settings** except for the domain, its subdomains, and associated domains
- **Domain & User > User > PKI User**
- **Policy > Access Control > Receiving**
- **Policy > Access Control > Delivery**
- **Profile > Authentication**
- **Profile > AntiSpam**
- **Email Archiving**
- **Log and Report**

Access profiles assign either read, write, or no access to each area of the FortiMail software. To view configurations, you must have read access. To make changes, you must have write access. For more information on configuring an access profile that administrator accounts can use, see [sensitive data on page 226](#).

There are three possible permission types for an administrator account:

- **Administrator** (also known as **all**)
- **Read & Write**
- **Read Only**

Administrator account permissions by domain assignment:

Permission	Domain: system	Domain: example.com
Administrator	<ul style="list-style-type: none"> • Can create, view and change all other administrator accounts except the <code>admin</code> administrator account • Can view and change all parts of the FortiMail unit's configuration, including uploading configuration backup files and restoring firmware default settings. • Can release and delete quarantined email messages for all protected domains. • Can back up and restore databases. • Can manually update firmware and antivirus definitions. • Can restart and shut down the FortiMail unit. 	<ul style="list-style-type: none"> • Can create, view and change other administrator accounts with Read & Write and Read Only permissions in its own protected domain. • Can only view and change settings, including profiles and policies, in its own protected domain. • Can only view profiles and policies created by an administrator whose Domain is system. • Can be only one per protected domain.

Permission	Domain: system	Domain: example.com
Read & Write	<ul style="list-style-type: none"> • Can only view and change its own administrator account. • Can view and change parts of the FortiMail unit's configuration at the system and protected domain levels. • Can release and delete quarantined email messages for all protected domains. • Can back up and restore databases. 	<ul style="list-style-type: none"> • Can only view and change its own administrator account. • Can only view and change parts of the FortiMail unit's configuration in its own protected domain. • Can only view profiles and policies created by an administrator whose Domain is system. • Can release and delete quarantined email messages in its own protected domain.
Read Only	<ul style="list-style-type: none"> • Can only view and change its own administrator account. • Can view the FortiMail unit configuration at the system and protected domain levels • Can release and delete quarantined email messages for all protected domains. • Can back up databases. 	<ul style="list-style-type: none"> • Can only view and change its own administrator account. • Can only view settings in its own protected domain. • Can only view profiles and policies created by an administrator whose Domain is system.

Areas of control in access profiles:

Access control area name		Grants access to...
In the web UI	In the CLI	For each <code>config</code> command, there is an equivalent <code>get/show</code> command, unless otherwise noted.
		<code>config</code> access requires write permission. <code>get/show</code> access requires read permission.
Policy	<code>policy</code>	Monitor > Mail Queue ... Monitor > Greylist ... Monitor > Sender Reputation > Display Mail Settings > Domains > Domains Mail Settings > Proxies > Proxies User > User ...

Access control area name		Grants access to...
In the web UI	In the CLI	<p>For each <code>config</code> command, there is an equivalent <code>get/show</code> command, unless otherwise noted.</p> <p><code>config</code> access requires write permission. <code>get/show</code> access requires read permission.</p>
		<p>Policy ... Profile ... AntiSpam > Greylist ... AntiSpam > Bounce Verification > Settings AntiSpam > Endpoint Reputation ... AntiSpam > Bayesian ...</p>
		<pre> config antispan greylist exempt config antispan bounce-verification key config antispan settings config antispan trusted ... config domain config mailsetting proxy-smtp config policy ... config profile ... config user ... diagnose ... execute ... config mailsetting relayserver </pre>
Black/White List	<code>black-white-list</code>	<p>Monitor > Endpoint Reputation > Auto Blacklist Maintenance > AntiSpam > Black/White List Maintenance AntiSpam > Black/White List ...</p>
		<p>N/A</p> <pre> diagnose ... execute ... get system status get system raid-performance get system performance </pre>

Access control area name		Grants access to...
In the web UI In the CLI		<p>For each <code>config</code> command, there is an equivalent <code>get/show</code> command, unless otherwise noted.</p> <p><code>config</code> access requires write permission. <code>get/show</code> access requires read permission.</p>
Quarantine	quarantine	<p>Monitor > Quarantine ...</p> <p>AntiSpam > Quarantine > Quarantine Report</p> <p>AntiSpam > Quarantine > System Quarantine Setting</p> <p>AntiSpam > Quarantine > Control Account</p> <pre> diagnose ... execute ... config antis spam quarantine-report config mailsetting systemquarantine </pre>
Others	others	<p>Monitor > System Status ...</p> <p>Monitor > Archive > Email Archives</p> <p>Monitor > Log ...</p> <p>Monitor > Report ...</p> <p>Maintenance ... except the Black/White List Maintenance tab</p> <p>System ...</p> <p>Mail Settings > Settings ...</p> <p>Mail Settings > Address Book > Address Book</p> <p>User > User Alias > User Alias</p> <p>User > Address Map > Address Map</p> <p>Email Archiving ...</p> <p>Log and Report ...</p> <pre> config archive ... config log ... config mailsetting relayserver config mailsetting storage config report config system ... config user alias config user map diagnose ... execute ... get system status </pre>

Unlike other administrator accounts whose **Access profile** is **super_admin_prof** and **Domain** is **System**, the `admin` administrator account exists by default and cannot be deleted. The `admin` administrator account is similar to a root administrator account. This administrator account always has full permission to view and change all FortiMail

configuration options, including viewing and changing **all** other administrator accounts. It is the only administrator account that can reset another administrator's password without being required to enter the existing password. As such, it is the **only** account that can reset another administrator's password if that administrator forgets his or her password. Its name, permissions, and assignment to the **System** domain cannot be changed.



Set a strong password for the `admin` administrator account, and change the password regularly. By default, this administrator account has no password. Failure to maintain the password of the `admin` administrator account could compromise the security of your FortiMail unit.

For complete access to all commands, you must log in with the administrator account named `admin`. For access to the CLI, you must log in with a **System**-level administrator account.

Tips and tricks

Basic features and characteristics of the CLI environment provide support and ease of use for many CLI tasks.

This section includes:

- [Help on page 34](#)
- [Shortcuts and key commands on page 34](#)
- [Command abbreviation on page 35](#)
- [Environment variables](#)
- [Special characters on page 36](#)
- [Language support on page 37](#)
- [Screen paging](#)
- [Baud rate on page 38](#)
- [Editing the configuration file on an external host on page 38](#)

Help

To display brief help during command entry, press the question mark (?) key.

Press the question mark (?) key at the command prompt to display a list of the commands available and a description of each command.

Type a word or part of a word, then press the question mark (?) key to display a list of valid word completions or subsequent words, and to display a description of each.

Shortcuts and key commands

Shortcuts and key commands:

Action	Keys
List valid word completions or subsequent words.	?

Action	Keys
If multiple words could complete your entry, display all possible completions with helpful descriptions of each.	
Complete the word with the next available match. Press the key multiple times to cycle through available matches.	Tab
Recall the previous command. Command memory is limited to the current session.	Up arrow, or Ctrl + P
Recall the next command.	Down arrow, or Ctrl + N
Move the cursor left or right within the command line.	Left or Right arrow
Move the cursor to the beginning of the command line.	Ctrl + A
Move the cursor to the end of the command line.	Ctrl + E
Move the cursor backwards one word.	Ctrl + B
Move the cursor forwards one word.	Ctrl + F
Delete the current character.	Ctrl + D
Abort current interactive commands, such as when entering multiple lines. If you are not currently within an interactive command such as <code>config</code> or <code>edit</code> , this closes the CLI connection.	Ctrl + C
Continue typing a command on the next line for a multi-line command. For each line that you want to continue, terminate it with a backslash (\). To complete the command line, terminate it by pressing the spacebar and then the Enter key, without an immediately preceding backslash.	\ then Enter

Command abbreviation

In most cases, you can abbreviate words in the command line to their smallest number of non-ambiguous characters. For example, the command `get system status` could be abbreviated to `g sy st`.

Some commands may not be abbreviated. See the notes in the specific commands.

Environment variables

The CLI supports the following environment variables. Variable names are case-sensitive.

\$USERFROM	The management access type (<code>ssh</code> , <code>telnet</code> , <code>jsconsole</code> for the CLI Console widget and so on) and the IP address of the administrator that configured the item.
\$USERNAME	The account name of the administrator that configured the item.
\$SerialNum	The serial number of the FortiMail unit.

For example, the FortiMail unit's host name can be set to its serial number.

```
config system global
    set hostname $SerialNum
end
```

As another example, you could log in as `admin1`, then configure a restricted secondary administrator account for yourself named `admin2`, whose `first-name` is `admin1` to indicate that it is another of your accounts:

```
config system admin
    edit admin2
        set first-name $USERNAME
```

Special characters

The characters `<`, `>`, `(`, `)`, `#`, `'`, and `"` are not permitted in most CLI fields. These characters are special characters, sometimes also called reserved characters.

You may be able to enter a special character as part of a string's value by using a special command, enclosing it in quotes, or preceding it with an escape sequence — in this case, a backslash (`\`) character.

Entering special characters:

Character	Keys
?	Ctrl + V then ?
Tab	Ctrl + V then Tab
Space (to be interpreted as part of a string value, not to end the string)	Enclose the string in quotation marks: <code>"Security Administrator"</code> . Enclose the string in single quotes: <code>'Security Administrator'</code> . Precede the space with a backslash: <code>Security\ Administrator</code> .
' (to be interpreted as part of a string value, not to end the string)	<code>\'</code>
" (to be interpreted as part of a string value, not to end the string)	<code>\"</code>
\	<code>\\</code>

Language support

Characters such as ñ, é, symbols, and ideographs are sometimes acceptable input. Support varies by the nature of the item being configured.

For example, the host name must not contain special characters, and so the web UI and CLI will not accept most symbols and non-ASCII encoded characters as input when configuring the host name. This means that languages other than English often are not supported. However, some configuration items, such as names and comments, may be able to use the language of your choice. But dictionary profiles support terms encoded in UTF-8, and therefore support a number of languages.

In addition, names of items in the configuration entered using non-ASCII encodings may not display correctly in event log messages.

It is simplest to use only US-ASCII characters when configuring the FortiMail unit using the web UI or CLI. Using only ASCII, you do not need to worry about:

- mail transfer agent (MTA) encoding support
- mail user agent (MUA) language support
- web browser language support
- Telnet and/or SSH client support
- font availability
- compatibility of your input's encoding with the encoding/language setting of the web UI
- switching input methods when entering a command word such as `get` in ASCII but a setting that uses a different encoding



If you choose to configure parts of the FortiMail unit using non-ASCII characters, verify that all systems interacting with the FortiMail unit also support the same encodings. You should also use the same encoding throughout the configuration if possible in order to avoid needing to switch the language settings of the web UI and your web browser or Telnet/SSH client while you work.

Screen paging

You can configure the CLI to, when displaying multiple pages' worth of output, pause after displaying each page's worth of text. When the display pauses, the last line displays `--More--`. You can then either:

- Press the spacebar to display the next page.
- Type `Q` to truncate the output and return to the command prompt.

This may be useful when displaying lengthy output, such as the list of possible matching commands for command completion, or a long list of settings. Rather than scrolling through or possibly exceeding the buffer of your terminal emulator, you can simply display one page at a time.

To configure the CLI display to pause when the screen is full:

```
config system console
    set output more
end
```

Baud rate

You can change the default baud rate of the local console connection. For more information, see the [FortiMail Administration Guide](#).

Editing the configuration file on an external host

You can edit the FortiMail configuration on an external host by first backing up the configuration file to a TFTP server. Then edit the configuration file and restore it to the FortiMail unit.

Editing the configuration on an external host can be time-saving if you have many changes to make, especially if your plain text editor provides advanced features such as batch changes.

To edit the configuration on your computer:

Use [backup](#) on [page 303](#) to download the configuration file to a TFTP server, such as your management computer. Edit the configuration file using a plain text editor that supports Unix-style line endings.



Do not edit the first line. The first line(s) of the configuration file (preceded by a # character) contains information about the firmware version and FortiMail model. If you change the model number, the FortiMail unit will reject the configuration file when you attempt to restore it.

Use [restore config](#) on [page 334](#) to upload the modified configuration file back to the FortiMail unit.

The FortiMail unit downloads the configuration file and checks that the model information is correct. If it is, the FortiMail unit loads the configuration file and checks each command for errors. If a command is invalid, the FortiMail unit ignores the command. If the configuration file is valid, the FortiMail unit restarts and loads the new configuration.

config

`config` commands configure your FortiMail settings.

This chapter describes the following `config` commands:

antispam adult image analysis on page 40	mailsetting host-mapping on page 117	profile dictionary-group on page 185
antispam behavior-analysis on page 41	mailsetting mail-scan-options on page 117	profile encryption on page 186
antispam bounce-verification on page 42	mailsetting preference on page 118	profile impersonation on page 187
antispam deepheader-analysis on page 42	mailsetting proxy-smtp on page 119	profile ip-address-group on page 188
antispam endpoint reputation blacklist on page 43	mailsetting relay-host-list on page 121	profile ip-pool on page 189
antispam endpoint reputation exempt on page 44	mailsetting smtp-rcpt-verification on page 123	profile ldap on page 190
antispam greylist exempt on page 44	mailsetting storage central-ibe on page 124	profile notification on page 206
antispam quarantine-report on page 46	mailsetting storage central-quarantine on page 125	profile resource on page 207
antispam settings on page 47	mailsetting storage config on page 127	profile session on page 209
antispam trusted on page 56	mailsetting systemquarantine on page 129	profile tls on page 222
antispam url-fgas-exempt-list on page 57	o365 account on page 130	profile uri-filter on page 223
archive account on page 57	o365 profile action on page 130	report on page 224
archive exempt-policy on page 59	o365 profile antispam on page 131	sensitive data on page 226
archive journal on page 60	o365 profile antivirus on page 131	system accprofile on page 228
archive policy on page 61	o365 profile content on page 131	system admin on page 229
customized-message on page 62	o365 profile dlp on page 132	system appearance on page 231
dlp scan-rules on page 87	policy access-control delivery on page 137	system backup-restore-mail on page 232
domain on page 88	config policy delivery-control on page 139	system central-management on page 235
domain-association on page 107	policy ip on page 139	system certificate ca on page 235
file content-disarm-reconstruct on page 108	policy recipient on page 142	system certificate crt on page 236
file decryption password on page 108	profile antispam on page 145	system certificate local on page 236
file filter on page 109	profile antispam-action on page 155	system certificate remote on page 237
file signature on page 109	profile antivirus on page 159	system ddns on page 238
log setting remote on page 110	profile antivirus-action on page 162	system disclaimer on page 239
log setting local on page 112	profile authentication on page 166	system disclaimer-exclude on page 241
log alertemail recipient on page 115	profile certificate-binding on page 170	system dns on page 242
log alertemail setting on page 115		system encryption ibe on page 243
		system encryption ibe-auth on page 245
		system fortiguard antivirus on page 246

mailsetting email-addr-handling on page 123	profile encryption on page 186 on page 170	system fortiguard antispam on page 249
system geoip-override on page 253	profile content-action on page 178	system fortisandbox on page 251
system global on page 253	profile dictionary on page 182	system time ntp on page 292
system ha on page 257	system saml on page 285	system webmail-language on page 294
system interface on page 270	system scheduled-backup on page 285	system wccp settings on page 293
system link-monitor on page 275	system security crypto on page 285	user alias on page 294
system mailserver on page 276	system security authserver on page 286	user map
system password-policy on page 282	system snmp community on page 287	user pki on page 299
system port-forwarding on page 283	system snmp sysinfo on page 288	
system route on page 284	system snmp threshold on page 288	
	system snmp user on page 289	
	system time manual on page 291	

antispam adult image analysis

Use this command to configure the scanning behavior of FortiMail to detect adult images.

Syntax

```
config antispam adult-image-analysis
  set max-size on page 41
  set min-size on page 41
  set rating-sensitivity on page 41
  set score-threshold on page 41
  set status {enable | disable} on page 41
end
```

Variable	Description	Default
max-size	Set the maximum image size for the unit to analyze (KB).	500
min-size	Set the minimum image size for the unit to analyze (KB).	10
rating-sensitivity	Set the rating-sensitivity. The higher the number the higher the sensitivity. The default setting is 75 and the valid range is 0-100.	75
score-threshold	Set the score threshold.	600
status {enable disable}	Enable or disable adult image analysis.	enable

antispam behavior-analysis

Use this command to analyze the similarity of uncertain email against those well-known spam messages which are received recently.

Syntax

```
config antispam behavior-analysis
  set status {enable | disable} on page 41
  set analysis-level{high | medium | low} on page 41
end
```

Variable	Description	Default
status {enable disable}	Enable or disable behavior analysis service.	enable
analysis-level {high medium low}	Enter the analysis level.	medium

Related topics

[antispam deepheader-analysis on page 42](#)

[antispam greylist exempt on page 44](#)

[antispam quarantine-report on page 46](#)

[antispam settings on page 47](#)

[antispam trusted on page 56](#)

antispam bounce-verification

Use this command to configure bounce address tagging and verification.

Syntax

```
config antispam bounce-verification ...  
    key on page 42  
    tag-exempt-list on page 42  
    verify-exempt-list on page 42  
end
```

Variable	Description	Default
key	Enter a new or existing key.	No default.
tag-exempt-list	Exempt domain list for BATV tagging.	
verify-exempt-list	Exempt host name of reverse DNS lookup of sending IP for BATB verification.	

Related topics

[antispam deepheader-analysis on page 42](#)

[antispam greylist exempt on page 44](#)

[antispam quarantine-report on page 46](#)

[antispam settings on page 47](#)

[antispam trusted on page 56](#)

antispam deepheader-analysis

Use this command to configure global deepheader-analysis scan settings used by antispam profiles.

Deepheader analysis examines the entire message header for spam characteristics.

Not all headers may be checked, depending on your configuration of [antispam trusted on page 56](#).

Syntax

```
config antispam deepheader-analysis  
    set confidence <percent_float> on page 43  
    set greyscale-level <level_int> on page 43  
end
```

Variable	Description	Default
confidence <percent_float>	<p>Type the confidence percentage above which a message will be considered spam. The deep header scan examines each message and calculate a confidence value based on the results of the decision-tree analysis.</p> <p>The higher the calculated confidence value, the more likely the message is really spam.</p> <p>The deep header scan adds an <code>X-FEAS-DEEPHEADER:</code> line to the message header that includes the message's calculated confidence value.</p>	95.000000
greyscale-level <level_int>	<p>Type the grey scale threshold above which the deepheader scan will be skipped.</p> <p>FortiGuard antispam service uses the grey scale of 1-9 to determine spam. 1-4 means the email is a spam for sure, while 9 is not a spam for sure.</p> <p>Therefore, increasing this grey scale level will increase the probability to scan the email. This may increase spam catch rate but also increase false positives.</p>	7

Related topics

[profile antispam on page 145](#)

[antispam trusted on page 56](#)

[antispam greylist exempt on page 44](#)

[antispam settings on page 47](#)

antispam endpoint reputation blacklist

Use this command to manually blacklist carrier end points by MSISDN.

MSISDN numbers listed on the black list will have their email or text messages blocked as long as their identifier appears on the black list.

Syntax

```
config antispam endpoint reputation blacklist
edit <msisdn> on page 44
end
```

Variable	Description	Default
<msisdn>	Type the MSISDN number to blacklist carrier end point.	

Related topics

[profile antispam on page 145](#)

[antispam trusted on page 56](#)

antispam endpoint reputation exempt

Use this command to manually exempt carrier end points by MSISDN from automatic blacklisting due to their endpoint reputation score.

Syntax

```
config antispam endpoint reputation exempt
edit <msisdn> on page 44
end
```

Variable	Description	Default
<msisdn>	Type the MSISDN number to exempt carrier end point.	

Related topics

[antispam endpoint reputation blacklist on page 43](#)

antispam greylist exempt

Use this command to configure the greylist exempt list.

Greylist scanning blocks spam based on the behavior of the sending server, rather than the content of the messages. When receiving an email from an unknown server, the FortiMail unit will temporarily reject the message. If the mail is legitimate, the originating server will try to send it again later ([RFC 2821](#)), at which time the FortiMail unit will accept it. Spam senders rarely attempt a retry.

Syntax

```
config antispam greylist exempt
edit <entry_index> on page 45
set recipient-pattern <recipient_pattern> on page 45
set recipient-pattern-regexp {enable | disable} on page 45
```

```

set reverse-dns-pattern <reverse-dns_pattern> on page 45
set reverse-dns-pattern-regex {enable | disable} on page 45
set sender-ip <client_ipv4/mask> on page 45
set sender-pattern <sender_pattern> on page 45
set sender-pattern-regex {enable | disable} on page 45
next
end

```

Variable	Description	Default
<entry_index>	Greylist exempt rule ID.	No default.
recipient-pattern <recipient_pattern>	Enter a pattern that defines recipient email addresses which match this rule, surrounded in slashes and single quotes (such as \ ' * \ ').	No default.
recipient-pattern-regex {enable disable}	Enter enable if you used regular expression syntax to define the pattern. Enter disable if you did not use regular expression syntax to define the pattern (that is, you entered a complete email address, or you entered a pattern using simple wild card characters * or ?).	disable
reverse-dns-pattern <reverse-dns_pattern>	Enter a pattern that defines reverse DNS query responses which match this rule, surrounded in slashes and single quotes (such as \ ' * \ ').	No default.
reverse-dns-pattern-regex {enable disable}	Enter enable if you used regular expression syntax to define the pattern. Enter disable if you did not use regular expression syntax to define the pattern (that is, you entered a complete email address, or you entered a pattern using simple wild card characters * or ?).	disable
sender-ip <client_ipv4/mask>	Enter the IP address and netmask of the SMTP client. To match SMTP sessions from any SMTP client, enter 0.0.0.0/0.	No default.
sender-pattern <sender_pattern>	Enter a pattern that defines sender email addresses which match this rule, surrounded in slashes and single quotes (such as \ ' * @example.com \ ').	No default.
sender-pattern-regex {enable disable}	Enter enable if you used regular expression syntax to define the pattern. Enter disable if you did not use regular expression syntax to define the pattern (that is, you entered a complete email address, or you entered a pattern using simple wild card characters * or ?).	disable

Related topics

[antispam bounce-verification on page 42](#)
[antispam deepheader-analysis on page 42](#)
[antispam quarantine-report on page 46](#)
[antispam settings on page 47](#)
[antispam trusted on page 56](#)

antispam quarantine-report

Use these commands to configure global settings for quarantine reports.

Quarantine reports notify email users of email added to their per-recipient quarantine, and allow them to release or delete email from the quarantine.

Alternatively, you can configure quarantine report settings specifically for each protected domain. For details, see [config domain-setting on page 90](#).

Syntax

```
config antispam quarantine-report
  set report-template-name {default | default-with-icons} on page 46
  set schedule-days <days_str> on page 46
  set schedule-hours <hour_int> on page 46
  set web-release-hostname <FortiMail_fqdn> on page 46
  set web-release-https {enable | disable} on page 46
end
```

Variable	Description	Default
report-template-name {default default-with-icons}	Enter a report template.	default
schedule-days <days_str>	Enter a comma-delimited list of days off the week on which the FortiMail unit will generate spam reports.	No default.
schedule-hours <hour_int>	Enter a comma-delimited list of numbers corresponding to the hours of the day on which the FortiMail unit will generate spam reports. For example, to generate spam reports on 1:00 AM, 2:00 PM, and 11:00 PM, you would enter 1, 14, 23. Valid numbers are from 0 to 23, based upon a 24-hour clock.	No default.
web-release-hostname <FortiMail_fqdn>	Enter an alternate resolvable fully qualified domain name (FQDN) to use in web release hyperlinks that appear in spam reports.	No default.
web-release-https {enable disable}	Enable to redirect HTTP requests for FortiMail webmail and per-recipient quarantines to secure access using HTTPS. Note: For this option to function properly, you must also enable both HTTP and HTTPS access protocols on the network interface to which the email user is connecting.	enable

Related topics

[antispam bounce-verification on page 42](#)

[antispam deepheader-analysis on page 42](#)

[antispam greylist exempt on page 44](#)

[antispam settings on page 47](#)

[antispam trusted on page 56](#)

antispam settings

Use these commands to configure global antispam settings.

Syntax

```
config antispam settings
  set backend-verify <time_str> on page 48
  set bayesian-is-not-spam <local-part_str> on page 48
  set bayesian-is-spam <local-part_str> on page 48
  set bayesian-learn-is-not-spam <local-part_str> on page 48
  set bayesian-learn-is-spam <local-part_str> on page 48
  set bayesian-training-group <local-part_str> on page 49
  set blacklist-action {as-profile | discard | reject} on page 49
  set bounce-verification-action {as-profile | discard | reject} on page 49
  set bounce-verification-auto-delete-policy {never | one-month | one-year | six-
    months | three-months} on page 50
  set bounce-verification-status {enable | disable} on page 50
  set bounce-verification-tagexpiry <days_int> on page 50
  set carrier-endpoint-acct-response {enable | disable} on page 50
  set carrier-endpoint-acct-secret <password_str> on page 50
  set carrier-endpoint-acct-validate {enable | disable} on page 50
  set carrier-endpoint-attribute {Acct-Authentic ... Vendor-Specific} on page 50
  set carrier-endpoint-blacklist-window-size {quarter | half-hour | one-hour | two-
    hours | four-hours | six-hours | eight-hours | one-day} on page 51
  set carrier-endpoint-framed-ip-attr {Framed-IP-Address | Login-IP-Host | Login-
    IPv6-Host | NAS-IP-Address | NAS-IPv6-Address} on page 51
  set carrier-endpoint-framed-ip-order {host-order | network-order} on page 52
  set carrier-endpoint-radius-port <port_int> on page 52
  set carrier-endpoint-status {enable | disable} on page 52
  set delete-ctrl-account <local_part_str> on page 52
  set dynamic-white-list-domain on page 52
  set dynamic-white-list-state {enable | disable} on page 52
  set dynamic-white-list-domain <domain_name_string> on page 53
  set dynamic-white-list-state {enable | disable} on page 53
  set greylist-capacity <maximum_int> on page 53
  set greylist-check-level {disable | enable | low | high} on page 53
  set greylist-delay <1-120 minutes> on page 53
  set greylist-init-expiry-period <window_int> on page 54
  set greylist-ttl <ttd_int> on page 54
  set impersonation-analysis {manual | dynamic} on page 54
  set release-ctrl-account <local-part_str> on page 54
  set safe-block-list-precedence {system session domain personal} on page 55
  set session-profile-rate-control-interval <minutes> on page 55
  set uri-checking {aggressive | strict} on page 55
end
```

Variable	Description	Default
backend-verify <time_str>	<p>Enter the time of day at which the FortiMail unit will automatically remove invalid per-recipient quarantines. Use the format <code>hh:mm:ss</code>, where <code>hh</code> is the hour according to a 24-hour clock, <code>mm</code> is the minute, and <code>ss</code> is the second.</p> <p>For example, to begin automatic invalid quarantine removal at 5:30 PM, enter <code>17:30:00</code>.</p>	4:0:0
bayesian-is-not-spam <local-part_str>	<p>Enter the local-part portion of the email address at which the FortiMail unit will receive email messages that correct false positives.</p> <p>For example, if the local domain name of the FortiMail unit is <code>example.com</code> and you want to correct the assessment of a previously scanned spam that was actually legitimate email by sending control messages to <code>is-not-spam@example.com</code>, you would enter <code>is-not-spam</code>.</p>	is-not-spam
bayesian-is-spam <local-part_str>	<p>Enter the local-part portion of the email address at which the FortiMail unit will receive email messages that correct false negatives.</p> <p>For example, if the local domain name of the FortiMail unit is <code>example.com</code> and you want to correct the assessment of a previously scanned email that was actually spam by sending control messages to <code>is-spam@example.com</code>, you would enter <code>is-spam</code>.</p>	is-spam
bayesian-learn-is-not-spam <local-part_str>	<p>Enter the local-part portion of the email address at which the FortiMail unit will receive email messages that train it to recognize legitimate email.</p> <p>Unlike the <code>is-not-spam</code> email address, this email address will receive email that has not been previously seen by the Bayesian scanner.</p> <p>For example, if the local domain name of the FortiMail unit is <code>example.com</code> and you want to train the Bayesian database to recognize legitimate email by sending control messages to <code>learn-is-not-spam@example.com</code>, you would enter <code>learn-is-not-spam</code>.</p>	learn-is-not-spam
bayesian-learn-is-spam <local-part_str>	<p>Enter the local-part portion of the email address at which the FortiMail unit will receive email messages that train it to recognize spam.</p> <p>Unlike the <code>is-spam</code> email address, this email address will receive spam that has not been previously seen by the Bayesian scanner.</p> <p>For example, if the local domain name of the FortiMail unit is <code>example.com</code> and you want to train the Bayesian database to recognize spam by sending control messages to <code>learn-is-spam@example.com</code>, you would enter <code>learn-is-spam</code>.</p>	learn-is-spam

Variable	Description	Default
bayesian-training-group <local-part_str>	<p>Enter the local-part portion of the email address that FortiMail administrators can use as their sender email address when forwarding email to the "learn is spam" email address or "learn is not spam" email address. Training messages sent from this sender email address will be used to train the global or per-domain Bayesian database (whichever is selected in the protected domain) but will not train any per-user Bayesian database.</p> <p>In contrast, if a FortiMail administrator were to forward email using their own email address (rather than the training group email address) as the sender email address, and per-user Bayesian databases were enabled in the corresponding incoming antispam profile, the FortiMail unit would also apply the training message to their own per-user Bayesian database.</p>	default-grp
blacklist-action {as-profile discard reject}	<p>Use these commands to select the action that the FortiMail unit performs when an email message arrives from or, in the case of per-session profile recipient black lists, is destined for a blacklisted email address, mail domain, or IP address.</p> <p>This setting affects email matching any system-wide, per-domain, per-session profile, or per-user blacklist.</p> <p>For email messages involving a blacklisted email address, domain, or IP address, select one of the following options:</p> <p>as-profile: Apply the action selected in the antispam profile being applied to the email message. For details, see profile antispam-action on page 155.</p> <p>discard: Accept the message but delete and do not deliver it, without notifying the SMTP client.</p> <p>reject: Reject the message, returning an SMTP error code to the SMTP client.</p>	reject
bounce-verification-action {as-profile discard reject}	<p>Enter the action that the FortiMail unit will perform if it receives a bounce address tag that is invalid.</p> <p>as-profile: Perform the action selected in the antispam profile.</p> <p>discard: Accept the message but then delete it without notifying the SMTP client.</p> <p>reject: Reject the message, replying to the SMTP client with an SMTP rejection code.</p>	as-profile

Variable	Description	Default
bounce-verification-auto-delete-policy {never one-month one-year six-months three-months}	<p>Inactive keys will be removed after being unused for the selected time period.</p> <p>never: Never automatically delete an unused key.</p> <p>one-month: Delete a key when it hasn't been used for 1 month.</p> <p>three-months: Delete a key when it hasn't been used for 3 months.</p> <p>six-months: Delete a key when it hasn't been used for 6 months.</p> <p>one-year: Delete a key when it hasn't been used for 12 months.</p> <p>The active key will not be automatically removed.</p>	never
bounce-verification-status {enable disable}	<p>Enable to activate bounce address tagging and verification.</p> <p>Tag verification can be bypassed in IP profiles and protected domains.</p>	disable
bounce-verification-tagexpiry <days_int>	<p>Enter the number of days an email tag is valid. When this time elapses, the FortiMail unit will treat the tag as invalid.</p> <p>Valid range is from 3 to 30 days.</p>	7
carrier-endpoint-acct-response {enable disable}	Enable/disable endpoint account validation on the RADIUS server.	disable
carrier-endpoint-acct-secret <password_str>	Type the shared secret for RADIUS account response/request validation.	
carrier-endpoint-acct-validate {enable disable}	Enable/disable validating shared secret of account requests.	disable
carrier-endpoint-attribute {Acct-Authentic ... Vendor-Specific}	<p>Type the RADIUS account attribute associated with the endpoint user ID. If you have more than one RADIUS server and each server uses different account attribute for the endpoint user ID, you can specify up to five attributes with this command. For example, a 3G network may use the "Calling-Station-ID" attribute while an ADSL network may use the "User-Name" attribute.</p> <p>A carrier end point is any device on the periphery of a carrier's or Internet service provider's (ISP) network. It could be a subscriber's GSM cellular phone, wireless PDA, or computer using DSL service.</p>	Calling-Station-Id (RADIUS attribute 31)

Variable	Description	Default
	<p>Unlike MTAs, computers in homes and small offices and mobile devices such as laptops and cellular phones that send email may not have a static IP address. Cellular phones' IP addresses especially may change very frequently. After a device leaves the network or changes its IP address, its dynamic IP address may be reused by another device. Because of this, a sender reputation score that is directly associated with an SMTP client's IP address may not function well. A device sending spam could start again with a clean sender reputation score simply by rejoining the network to get another IP address, and an innocent device could be accidentally blacklisted when it receives an IP address that was previously used by a spammer.</p>	
carrier-endpoint-blacklist-window-size {quarter half-hour one-hour two-hours four-hours six-hours eight-hours one-day}	<p>Enter the amount of previous time, in minutes, whose score-increasing events will be used to calculate the current endpoint reputation score.</p> <p>For example, if the window is a quarter (15 minutes), detections of spam or viruses 0-15 minutes ago would count towards the current score; detections of spam or viruses older than 15 minutes ago would not count towards the current score.</p>	quarter
carrier-endpoint-framed-ip-attr {Framed-IP-Address Login-IP-Host Login-IPv6-Host NAS-IP-Address NAS-IPv6-Address}	<p>Specify the RADIUS attribute whose value will be used as the endpoint user IP address.</p> <p>By default, the endpoint user IP address uses the value of RADIUS attribute 8 (framed IP address).</p> <p>However, if the endpoint IP address uses the value from different RADIUS attribute/number other than attribute 8, you can specify the corresponding attribute number with this command.</p> <p>You can use the "diagnose debug application msisd" command to capture RADIUS packets and find out what attribute name/number is used to hold the IP address value.</p>	Framed-IP-Address

Variable	Description	Default
	Note that you can specify multiple values, such as both IPv4 and IPv6 attributes.	
carrier-endpoint-framed-ip-order {host-order network-order}	<p>Select one of the following methods for endpoint IP address formatting:</p> <p>host-order: format an IP address in host order, that is, the host portion is at the beginning. For example, 1.1.168.192.</p> <p>network-order: sorts IP addresses in the network order, that is, the network portion is at the beginning. For example, 192.168.1.1.</p>	host-order
carrier-endpoint-radius-port <port_int>	Type the RADIUS server port for carrier endpoint account requests.	1813
carrier-endpoint-status {enable disable}	<p>Enable endpoint reputation scan for traffic examined by the session profile.</p> <p>This command starts the endpoint reputation daemon. You must start this daemon for the endpoint reputation feature to work.</p>	enable
delete-ctrl-account <local_part_str>	<p>Use this command to configure the email addresses through which email users can delete email from their per-recipient quarantines.</p> <p>Enter the local-part portion of the email address at which the FortiMail unit will receive email messages that control deletion of email from per-recipient quarantines.</p> <p>For example, if the local domain name of the FortiMail unit is example.com and you want to delete email by sending control messages to quar_delete@example.com, you would enter quar_delete.</p>	delete-ctrl
dynamic-white-list-domain	Enter the domain name of the dynamic white list.	
dynamic-white-list-state {enable disable}	Enable the dynamic white list.	

Variable	Description	Default
dynamic-white-list-domain <domain_name_string>	Sina only	
dynamic-white-list-state {enable disable}	Sina only	disable
greylist-capacity <maximum_ int>	Enter the maximum number of greylist items in the greylist. New items that would otherwise cause the greylist database to grow larger than the capacity will instead overwrite the oldest item. To determine the default value and acceptable range for your FortiMail model, enter a question mark (?).	Varies by model
greylist-check-level {disable enable low high}	<p>Greylist scanning blocks spam based on the behavior of the sending server, rather than the content of the messages. When receiving an email from an unknown server, the FortiMail unit will temporarily reject the message. If the mail is legitimate, the originating server will try to send it again later (RFC 2821), at which time the FortiMail unit will accept it. Spammers will typically abandon further delivery attempts in order to maximize spam throughput.</p> <p>Enable/disable greylist check, or set how aggressively to perform greylist check: high or low.</p> <p>The high level setting greylists all messages from unknown MTAs, while the low level setting will selectively greylist based on the age and reputation of the MTAs -- the trusted MTAs will not be greylisted whereas the new untrusted MTAs will be greylisted.</p>	high
greylist-delay <1-120 minutes>	<p>Enter the length in minutes of the greylist delay period.</p> <p>For the initial delivery attempt, if no manual greylist entry (exemption) matches the email message, the FortiMail unit creates a pending automatic greylist entry, and replies with a temporary failure code. During the greylist delay period after this initial delivery attempt, the FortiMail unit continues to reply to additional delivery attempts with a temporary failure code.</p> <p>After the greylist delay period elapses and before the pending entry expires (during the <code>initial_expiry_period</code>, also known as the greylist window), any additional delivery attempts will confirm the entry and convert it to an individual automatic greylist entry. The greylist scanner will then allow delivery of subsequent matching email messages.</p> <p>The valid range between 1 and 120 minutes.</p>	10

Variable	Description	Default
greylist-init-expiry-period <window_int>	<p>Enter the period of time in hours after the <code>greylistperiod</code>, during which pending greylist entries will be confirmed and converted into automatic greylist entries if the SMTP client retries delivery.</p> <p>The valid range is from 4 to 24 hours.</p>	4
greylist-ttl <ttl_int>	<p>Enter the time to live (TTL) that determines the maximum amount of time that unused automatic greylist entries will be retained.</p> <p>Expiration dates of automatic greylist entries are determined by adding the TTL to the date and time of the previous matching delivery attempt. Each time an email message matches the entry, the life of the entry is prolonged; in this way, entries that are in active use do not expire.</p> <p>If the TTL elapses without an email message matching the automatic greylist entry, the entry expires and the greylist scanner removes the entry.</p> <p>The valid range is between 1 and 60 days.</p>	30
impersonation-analysis {manual dynamic}	<p>Email impersonation is one of the email spoofing attacks. It forges the email header to deceive the recipient because the message appears to be from a different source than the actual address.</p> <p>To fight against email impersonation, you can map display names with email addresses and check email for the mapping.</p> <p>You can choose whether the impersonation analysis uses the manual mapping entries or dynamic entries. You can also use both types of entries.</p> <p>Manual uses the entries you manually entered under <i>Profile > AntiSpam > Impersonation</i>.</p> <p>Dynamic uses the entries automatically learned by the FortiMail mail statistics service. To enable this service, use the command <code>config system global: set mailstat-service: enable</code>.</p>	manual
release-ctrl-account <local-part_str>	<p>Use this command to configure the email addresses through which email users can release email from their per-recipient quarantines.</p> <p>Enter the local-part portion of the email address at which the FortiMail unit will receive email messages that control deletion of email from per-recipient quarantines.</p> <p>For example, if the local domain name of the FortiMail unit is <code>example.com</code> and you want to delete email by sending control messages to <code>quar_delete@example.com</code>, you would enter <code>quar_delete</code>.</p>	No default.

Variable	Description	Default
safe-block-list-precedence {system session domain personal}	By default, system safelists and blocklists have precedence over other safelists and blocklists. In some cases, you may want to change the precedence order. For example, you may want to allow a user to use his/her own lists to overwrite the system list. In this case, you can move “personal” ahead of “system”.	system session domain personal
session-profile-rate-control-interval <minutes>	<p>The rate control option enables you to control the rate at which email messages can be sent, by the number of connections, the number of messages, or the number recipients per client per period (in minutes).</p> <p>This command sets the time period. Other values are set under the <code>config profile session</code> command.</p> <p>Note: If you have 5.4.7 (or older) and 6.0.2 (or older) releases, after you make changes with this CLI command, you must reboot the FortiMail system for the change to take effect.</p>	30
uri-checking {aggressive strict}	<p>When you configure an antispam profile under <i>Profile > AntiSpam > AntiSpam</i>, if you enable FortiGuard scan and SURBL scan, FortiMail will scan for blacklisted URIs in email bodies.</p> <p>There are two types of URIs:</p> <ul style="list-style-type: none"> Absolute URIs strictly follow the URI syntax and include the URI scheme names, such as “http”, “https”, and “ftp”. For instance, <code>http://www.example.com</code>. Reference URIs do not contain the scheme names. For instance, <code>example.com</code>. <p>In some cases, you may want to scans for both absolute and reference URIs to improve the catch rate.</p> <p>In some cases (for example, to lower false positive rates), you may want to scan for absolute URIs only.</p> <p>aggressive: Choose this option to scan for both the absolute and reference URIs.</p> <p>strict: Choose this option to scan for absolute URIs only. Note that web sites without “http” or “https” but starting with “www” are also treated as absolute URIs. For instance, <code>www.example.com</code>.</p>	<p>aggressive (before 4.3.1 release)</p> <p>strict (after 4.3.2 release)</p>

Related topics

[antispam bounce-verification on page 42](#)

[antispam deepheader-analysis on page 42](#)

[antispam greylist exempt on page 44](#)

[antispam quarantine-report on page 46](#)

[antispam trusted on page 56](#)

antispam trusted

Use these commands to configure both the IP addresses of mail transfer agents (MTAs) that are trusted to insert genuine `Received:` message headers, and the IP addresses of MTAs that perform antispam scans before the FortiMail unit.

`Received:` message headers are inserted by each MTA that handles an email message in route to its destination. The IP addresses in those headers can be used as part of FortiGuard Antispam and DNSBL antispam checks, and SPF and DKIM sender validation. However, they should only be used if you trust that the `Received:` header added by an MTA is not fake — spam-producing MTAs sometimes insert fake headers containing the IP addresses of legitimate MTAs in an attempt to circumvent antispam measures.

If you trust that `Received:` headers containing specific IP addresses are always genuine, you can add those IP addresses to the `mta` list.

Note that private network addresses, defined in [RFC 1918](#), are never checked and do not need to be excluded using `config antispam trusted mta`.

Relatedly, if you can trust that a previous mail hop has already scanned the email for spam, you can add its IP address to the `antispam-mta` list to omit deep header scans for email that has already been evaluated by that MTA, thereby improving performance.

Syntax

```
config antispam trusted {mta | antispam-mta}
    edit <smtp_ipv4/mask> on page 56
end
```

Variable	Description	Default
<smtp_ipv4/mask>	Enter the IP address and netmask of an MTA.	No default.

Related topics

[antispam bounce-verification on page 42](#)

[antispam deepheader-analysis on page 42](#)

[antispam greylist exempt on page 44](#)

[antispam quarantine-report on page 46](#)

[antispam settings on page 47](#)

antispam url-fgas-exempt-list

Use this command to exempt URL list from FGAS rating

Syntax

```
config antispam url-fgas-exempt-list
edit <id>
    set url-exempt-pattern on page 57
    set pattern-type on page 57
end
```

Variable	Description	Default
url-exempt-pattern	Enter the URLs that matches this pattern that are exempt from FGAS rating.	
pattern-type	Enter the pattern type.	

archive account

Use this command to configure email archiving accounts.

This command applies only if email archiving is enabled.

Syntax

```
config archive account
edit <account_name> on page 58
    set destination {local | remote} on page 58
    set forward-address <recipient_email> on page 58
    set imap-access {enable | disable} on page 58
    set index-type {full | header | none} on page 58
    set local-quota <quota_int> on page 58
    set local-quota-cache <cache_int> on page 58
    set password <password> on page 58
    set password <password_str> on page 58
    set quota-full {overwrite | noarchive} on page 58
    set remote-directory <path_str> on page 58
    set remote-ip <ftp_ipv4> on page 58
    set remote-password <password_str> on page 58
    set remote-protocol {ftp | sftp} on page 58
    set remote-username <user_str> on page 58
    set rotation-hour <hour_int> on page 58
    set rotation-size <size_int> on page 59
    set rotation-time <time_int> on page 59
    set status {enable | disable} on page 59
end
```

Variable	Description	Default
<account_name>	Enter the email archiving account name.	archive
destination {local remote}	Select whether to archive to the local disk or remote server.	local
forward-address <recipient_email>	Enter the email address to which all archived messages will also be forwarded. If no forwarding address exists, the FortiMail unit will not forward email when it archives it.	No default.
imap-access {enable disable}	Enable/disable IMAP access to the archive account.	No default.
index-type {full header none}	Type <code>full</code> to index email by the whole email (header and body), and <code>header</code> by the email header only.	none
local-quota <quota_int>	Enter the local disk quota for email archiving in gigabytes (GB). The valid range depends on the amount of free disk space.	5
local-quota-cache <cache_int>	Enter the local disk quota for caching in gigabytes (GB). The valid range depends on the amount of free disk space.	5
password <password>	Enter the password for the account access.	forti12356net
password <password_str>	Enter the archiving account's password.	forti12356net
quota-full {overwrite noarchive}	Enter either: <code>noarchive</code> : Discard the email message if the hard disk space is consumed and a new email message arrives. <code>overwrite</code> : Replace the oldest email message if the hard disk space is consumed and a new email message arrives.	overwrite
remote-directory <path_str>	Enter the directory path on the remote server where email archives will be stored.	No default.
remote-ip <ftp_ipv4>	Enter the IP address of the remote server that will store email archives.	0.0.0.0
remote-password <password_Str>	Enter the password of the user account on the remote server.	No default.
remote-protocol {ftp sftp}	Enter either <code>ftp</code> or <code>sftp</code> to use that protocol when transferring email archives to the remote server.	sftp
remote-username <user_str>	Enter the name of a user account on the remote server.	No default.
rotation-hour <hour_int>	Enter the hour of the day to start the mailbox rotation. See rotation-time <time_int> on page 59 .	0

Variable	Description	Default
rotation-size <size_int>	<p>Enter the maximum size of the current email archiving mailbox in megabytes (MB).</p> <p>When the email archiving mailbox reaches either the maximum size or age, the email archiving mailbox is rolled (that is, the current email archiving mailbox is saved to a file with a new name, and a new email archiving mailbox is started).</p> <p>The valid range is from 10 to 200 MB.</p>	100
rotation-time <time_int>	<p>Enter the maximum age of the current email archiving mailbox in days.</p> <p>When the email archiving mailbox reaches either the maximum size or age, the email archiving mailbox is rolled (that is, the current email archiving mailbox is saved to a file with a new name, and a new email archiving mailbox is started).</p> <p>The valid range is from 1 to 365 days.</p> <p>See rotation-hour <hour_int> on page 58</p>	7
status {enable disable}	Enable to activate email archiving.	disable

Related topics

[archive exempt-policy on page 59](#)

[archive journal on page 60](#)

archive exempt-policy

Use this command to configure the exemptions to email archiving.

This command applies only if email archiving is enabled.

Syntax

```

config archive exempt-policy
  edit <policy_id> on page 59
    set account <account_name> on page 60
    set pattern <string> on page 60
    set status {enable | disable} on page 60
    set type {attachment | body | recipient | sender | subject} on page 60
  end

```

Variable	Description	Default
<policy_id>	Enter the index number of the exemption policy.	No default.

Variable	Description	Default
	To view a list of existing entries, enter a question mark (?).	
account <account_name>	Enter the name of the email archive account that you want to apply the exemption policy to.	
pattern <string>	Enter a pattern, such as <code>user*@example.com</code> , that matches the attachment file name, text in the email body, text in the email subject, sender or recipient email addresses to which this exemption will apply.	*
status {enable disable}	Enable to activate the email archiving exemption.	enable
type {attachment body recipient sender subject}	Enter one of the following exemption match types: attachment: The attachment file name will be evaluated for matches with <code>pattern</code> . body: The body text will be evaluated for matches with <code>pattern</code> . recipient: The recipient email address will be evaluated for matches with <code>pattern</code> . sender: The sender email address will be evaluated for matches with <code>pattern</code> . subject: The email subject will be evaluated for matches with <code>pattern</code> .	

Related topics

[archive journal on page 60](#)

[antispam url-fgas-exempt-list on page 57](#)

archive journal

Microsoft Exchange servers can journal email and then send the journaled email to another server, such as FortiMail, for archiving.

Syntax

```
config archive journal source
edit <journal_source_id> on page 61
    set comments on page 61
    set host on page 61
    set recipient on page 61
    set sender on page 61
end
```

Variable	Description	Default
<journal_source_id>	Enter the ID of the journal.	
comments	Enter general journal source comments.	
host	Enter the ip address or host name of the journal source.	
recipient	Enter the recipient email address.	
sender	Enter the sender email address.	

archive policy

Use this command to configure email archiving policies.

This command applies only if email archiving is enabled.

Syntax

```
config archive policy
  edit <policy_id> on page 61
    set account <account_name> on page 61
    set pattern <string> on page 61
    set status {enable | disable} on page 61
    set type {attachment | body | recipient | sender | subject} on page 61
  end
```

Variable	Description	Default
<policy_id>	Enter the index number of the policy. To view a list of existing entries, enter a question mark (?).	No default.
account <account_name>	Enter the name of the email archive account where you want to archive email.	
pattern <string>	Enter a pattern, such as <code>user*@example.com</code> , that matches the attachment file name, text in the email body, text in the email subject, sender or recipient email addresses to which this policy will apply.	*
status {enable disable}	Enable to activate the email archiving policy.	enable
type {attachment body recipient sender subject}	Enter one of the following match types: attachment: The attachment file name will be evaluated for matches with <code>pattern</code> . body: The body text will be evaluated for matches with <code>pattern</code> . recipient: The recipient email address will be evaluated for matches with <code>pattern</code> . sender: The sender email address will be evaluated for matches with <code>pattern</code> .	

Variable	Description	Default
	subject: The email subject will be evaluated for matches with pattern.	

Related topics

[archive exempt-policy on page 59](#)

[antispam url-fgas-exempt-list on page 57](#)

customized-message

Use this command to configure replacement messages.

When the FortiMail unit detects a virus in an email attachment, it replaces the attachment with a message that provides information about the virus and source of the email.

The FortiMail unit may also use replacement messages when notifying a recipient that it has blocked an email as spam or due to content filtering, or when sending a quarantine report.

You can customize the secure message notifications that secure email recipients receive when IBE encrypted email are sent to them. [configure simple network management protocol \(SNMP\) settings](#).

Syntax

This command contains many sub-commands. Each sub-command, linked in the table below, is documented in subsequent sections.

```
config customized-message
  edit <message_name> on page 62
  next
end
```

Variable	Description	Default
<message_name>	Select the replacement message that you want to customize. The message name include: alert-email on page 64	No default.

Variable	Description	Default
	as-sender-rate-notify on page 64	
	calendar-event-notify on page 65	
	custom-webmail-login on page 66	
	email-template-av-repack on page 67	
	email-template-notify-generic on page 67	
	ibe-banner-footer on page 68	
	ibe-banner-header on page 69	
	ibe-notify-account-reset on page 69	
	ibe-notify-account-reset-done on page 70	
	ibe-notify-password-reset on page 71	
	impersonation-analysis {enable disable} on page 152	
	ibe-notify-pull-message on page 73	
	ibe-notify-push-message on page 73	
	ibe-notify-user-register-done on page 74	
	ibe-notify-wread-notif on page 75	
	ibe-notify-wunread-rcpt on page 76	
	ibe-notify-wunread-sender on page 77	
	log-report on page 77	
	login-disclaimer on page 78	
	reject-content-attachment on page 79	
	reject-content-message on page 79	
	reject-delivery on page 80	
	reject-endpoint-reputation on page 81	
	reject-spam on page 81	
	reject-virus-message on page 82	
	reject-virus-suspicious on page 83	
	replace-content-attachment on page 83	
	replace-content-body on page 84	
	replace-content-subject on page 85	
	replace-virus-message on page 85	
	replace-virus-suspicious on page 86	
	report-quarantine-summary on page 86	

Related topics

[config domain-setting on page 90](#)

[config policy recipient on page 102](#)

alert-email

Use this sub-command to configure the variables and the default email template of the alert email.

Syntax

This sub-command is available from within the command [customized-message on page 62](#).

```
edit alert-email
  config variable
    edit <name> on page 64
      set content on page 64
      set display-name on page 64
  config email-template
    edit default
      set from <string> on page 64
      set html-body <string> on page 64
      set subject <string> on page 64
      set text-body <string> on page 64
end
```

Variable	Description	Default
<name>	Enter a variable name that you want to add or edit, such as %%MEETING%%.	
content	Enter the content for the variable.	
display-name	Enter the display name for the variable. For example, the display name for %%MEETING%% can be weekly meeting.	
from <string>	Enter the replacement message for the <code>from</code> field of the event notification email.	
html-body <string>	Enter the replacement message for the email body in HTML code.	
subject <string>	Enter the replacement message for the <code>subject</code> field of the notification.	
text-body <string>	Enter the replacement message for the email body in text format.	

as-sender-rate-notify

Use this sub-command to configure the variables and the default email template of the notifications for spam sender's sending rate.

Syntax

This sub-command is available from within the command [customized-message on page 62](#).

```
edit as-sender-rate-notify
  config variable
    edit <name> on page 65
      set content on page 65
      set display-name on page 65
  config email-template
    edit default
      set env-from <string> on page 65
      set from <string> on page 65
      set html-body <string> on page 65
      set subject <string> on page 65
      set text-body <string> on page 65
      set to <string> on page 65
end
```

Variable	Description	Default
<name>	Enter a variable name that you want to add or edit, such as %%MEETING%%.	
content	Enter the content for the variable.	
display-name	Enter the display name for the variable. For example, the display name for %%MEETING%% can be weekly meeting.	
env-from <string>	Enter the replacement message for the email Envelope From field.	
from <string>	Enter the replacement message for the email From field.	
html-body <string>	Enter the replacement email body in HTML format.	
subject <string>	Enter the replacement message for the email Subject header.	
text-body <string>	Enter the replacement email body in text format.	
to <string>	Enter the replacement message for the email To field.	

calendar-event-notify

Use this sub-command to configure the variables and the default email template of the notification for calendar events in FortiMail webmail.

Syntax

This sub-command is available from within the command [customized-message on page 62](#).

```
edit calendar-event-notify
  config variable
    edit <name> on page 66
      set content on page 66
      set display-name on page 66
  config email-template
```

```

edit default
  set from <string> on page 66
  set html-body <string> on page 66
  set subject <string> on page 66
  set text-body <string> on page 66
end

```

Variable	Description	Default
<name>	Enter a variable name that you want to add or edit, such as %%MEETING%%.	
content	Enter the content for the variable.	
display-name	Enter the display name for the variable. For example, the display name for %%MEETING%% can be weekly meeting.	
from <string>	Enter the replacement message for the from field of the event notification email.	
html-body <string>	Enter the replacement message for the email body in HTML code.	
subject <string>	Enter the replacement message for the subject field of the notification.	
text-body <string>	Enter the replacement message for the email body in text format.	

custom-webmail-login

Use this sub-command to configure the variables and the default content of the webmail login.

Syntax

This sub-command is available from within the command [customized-message on page 62](#).

```

edit custom-webmail-login
  config variable
    edit <name> on page 66
      set content on page 66
      set display-name on page 66
  config message
    edit default
      set content <string> on page 67
      set format {html | multiline | text} on page 67
end

```

Variable	Description	Default
<name>	Enter a variable name that you want to add or edit, such as %%FILE%%.	
content	Enter the content for the variable.	
display-name	Enter the display name for the variable. For example, the display name for %%FILE%% can be Login.	

Variable	Description	Default
content <string>	Enter the replacement message for the webmail login.	
format {html multiline text}	Select the format for the webmail login.	html

email-template-av-repack

Use this sub-command to configure the variables and the default content of the email template for antivirus action.

Syntax

This sub-command is available from within the command [customized-message on page 62](#).

```
edit email-template-av-repack
  config variable
    edit <name> on page 67
      set content on page 67
      set display-name on page 67
  config email-template
    edit default
      set from <string> on page 67
      set html-body <string> on page 67
      set subject <string> on page 67
      set text-body <string> on page 67
end
```

Variable	Description	Default
<name>	Enter a variable name that you want to add or edit, such as %%FILE%%.	
content	Enter the content for the variable.	
display-name	Enter the display name for the variable. For example, the display name for %%FILE%% can be Template.	
from <string>	Enter the replacement message for the email From field.	
html-body <string>	Enter the replacement email body in HTML format.	
subject <string>	Enter the replacement message for the email Subject field.	
text-body <string>	Enter the replacement email body in text format.	

email-template-notify-generic

Use this sub-command to configure the variables and the default content of the email template for generic notifications.

Syntax

This sub-command is available from within the command [customized-message on page 62](#).

```
edit email-template-notify-generic
```

```

config variable
    edit <name> on page 68
        set content on page 68
        set display-name on page 68
config email-template
    edit default
        set env-from <string> on page 68
        set from <string> on page 68
        set html-body <string> on page 68
        set subject <string> on page 68
        set text-body <string> on page 68
        set to <string> on page 68
end

```

Variable	Description	Default
<name>	Enter a variable name that you want to add or edit, such as %%FILE%%.	
content	Enter the content for the variable.	
display-name	Enter the display name for the variable. For example, the display name for %%FILE%% can be Template.	
env-from <string>	Enter the replacement message for the email Envelope From field.	
from <string>	Enter the replacement message for the email From field.	
html-body <string>	Enter the replacement email body in HTML format.	
subject <string>	Enter the replacement message for the email Subject header.	
text-body <string>	Enter the replacement email body in text format.	
to <string>	Enter the replacement message for the email To field.	

ibe-banner-footer

Use this sub-command to configure the variables and the default content of the secure message footer.

Syntax

This sub-command is available from within the command [customized-message on page 62](#).

```

edit ibe-banner-footer
    config variable
        edit <name> on page 69
            set content on page 69
            set display-name on page 69
    config message
        edit default
            set content <string> on page 69
            set format {html | multiline | text} on page 69
end

```

Variable	Description	Default
<name>	Enter a variable name that you want to add or edit, such as %%SERVICE_NAME%%.	
content	Enter the content for the variable. For example, you may enter copyright information of the secure message.	
display-name	Enter the display name for the variable. For example, the display name for %%SERVICE_NAME%% can be Copyright.	
content <string>	Enter the replacement message for the secure message footer.	
format {html multiline text}	Select the format for the secure message footer.	html

ibe-banner-header

Use this sub-command to configure the variables and the default content of the secure message header.

Syntax

This sub-command is available from within the command [customized-message](#) on page 62.

```
edit ibe-banner-header
  config variable
    edit <name> on page 69
      set content on page 69
      set display-name on page 69
  config message
    edit default
      set content <string> on page 69
      set format {html | multiline | text} on page 69
end
```

Variable	Description	Default
<name>	Enter a variable name that you want to add or edit, such as %%SERVICE_NAME%%.	
content	Enter the content for the variable.	
display-name	Enter the display name for the variable. For example, the display name for %%SERVICE_NAME%% can be Email header.	
content <string>	Enter the replacement message for the secure message header.	
format {html multiline text}	Select the format for the secure message header.	html

ibe-notify-account-reset

Use this sub-command to configure the variables and the default email template of the IBE account reset notification.

Syntax

This sub-command is available from within the command [customized-message on page 62](#).

```
edit ibe-notify-account-reset
  config variable
    edit <name> on page 70
      set content on page 70
      set display-name on page 70
  config email-template
    edit default
      set from <string> on page 70
      set html-body <string> on page 70
      set subject <string> on page 70
      set text-body <string> on page 70
end
```

Variable	Description	Default
<name>	Enter a variable name that you want to add or edit, such as %%SENDER%%.	
content	Enter the content for the variable.	
display-name	Enter the display name for the variable. For example, the display name for %%SENDER%% can be From.	
from <string>	Enter the replacement message for the From field of the notification.	
html-body <string>	Enter the replacement message for the notification email body in HTML code.	
subject <string>	Enter the replacement message for the subject field of the notification.	
text-body <string>	Enter the replacement message for the notification email body in text format.	

ibe-notify-account-reset-done

Use this sub-command to configure the variables and the default email template of the IBE account reset completion notification.

Syntax

This sub-command is available from within the command [customized-message on page 62](#).

```
edit ibe-notify-account-reset-done
  config variable
    edit <name> on page 71
      set content on page 71
      set display-name on page 71
  config email-template
    edit default
      set from <string> on page 71
      set global-bayesian {enable | disable} on page 91
```

```

    set subject <string> on page 71
    set text-body <string> on page 71
end

```

Variable	Description	Default
<name>	Enter a variable name that you want to add or edit, such as %%SENDER%%.	
content	Enter the content for the variable.	
display-name	Enter the display name for the variable. For example, the display name for %%SENDER%% can be From.	
from <string>	Enter the replacement message for the From field of the notification.	
html-body <string>	Enter the replacement message for the notification email body in HTML code.	
subject <string>	Enter the replacement message for the subject field of the notification.	
text-body <string>	Enter the replacement message for the notification email body in text format.	

ibe-notify-password-reset

Use this sub-command to configure the variables and the default email template of the IBE password reset notification.

Syntax

This sub-command is available from within the command [customized-message on page 62](#).

```

edit ibe-notify-password-reset
  config variable
    edit <name> on page 71
      set content on page 71
      set display-name on page 71
  config email-template
    edit default
      set from <string> on page 72
      set html-body <string> on page 72
      set subject <string> on page 72
      set text-body <string> on page 72
  end
end

```

Variable	Description	Default
<name>	Enter a variable name that you want to add or edit, such as %%SENDER%%.	
content	Enter the content for the variable.	
display-name	Enter the display name for the variable. For example, the display name for %%SENDER%% can be From.	

Variable	Description	Default
from <string>	Enter the replacement message for the <code>From</code> field of the notification.	
html-body <string>	Enter the replacement message for the notification email body in HTML code.	
subject <string>	Enter the replacement message for the <code>subject</code> field of the notification.	
text-body <string>	Enter the replacement message for the notification email body in text format.	

ibe-notify-password-reset-done

Use this sub-command to configure the variables and the default email template of the IBE password reset completion notification.

Syntax

This sub-command is available from within the command [customized-message on page 62](#).

```
edit ibe-notify-password-reset-done
  config variable
    edit <name> on page 72
      set content on page 72
      set display-name on page 72
  config email-template
    edit default
      set from <string> on page 72
      set html-body <string> on page 72
      set subject <string> on page 72
      set text-body <string> on page 72
end
```

Variable	Description	Default
<name>	Enter a variable name that you want to add or edit, such as <code>%%SENDER%%</code> .	
content	Enter the content for the variable.	
display-name	Enter the display name for the variable. For example, the display name for <code>%%SENDER%%</code> can be <code>From</code> .	
from <string>	Enter the replacement message for the <code>From</code> field of the notification.	
html-body <string>	Enter the replacement message for the notification email body in HTML code.	
subject <string>	Enter the replacement message for the <code>subject</code> field of the notification.	
text-body <string>	Enter the replacement message for the notification email body in text format.	

ibe-notify-pull-message

Use this sub-command to configure the variables and the default email template of the secure message notification containing a link which the Webmail users can click to read the message.

Syntax

This sub-command is available from within the command [customized-message on page 62](#).

```
edit ibe-notify-pull-message
  config variable
    edit <name> on page 73
      set content on page 73
      set display-name on page 73
  config email-template
    edit default
      set from <string> on page 73
      set html-body <string> on page 73
      set subject <string> on page 73
      set text-body <string> on page 73
end
```

Variable	Description	Default
<name>	Enter a variable name that you want to add or edit, such as %%SENDER%%.	
content	Enter the content for the variable.	
display-name	Enter the display name for the variable. For example, the display name for %%SENDER%% can be From.	
from <string>	Enter the replacement message for the From field of the notification.	
html-body <string>	Enter the replacement message for the notification email body in HTML code.	
subject <string>	Enter the replacement message for the subject field of the notification.	
text-body <string>	Enter the replacement message for the notification email body in text format.	

ibe-notify-push-message

Use this sub-command to configure the variables and the default email template of the secure message notification with an attachment containing the secure message.

Syntax

This sub-command is available from within the command [customized-message on page 62](#).

```
edit ibe-notify-push-message
  config variable
```

```

edit <name> on page 74
    set content on page 74
    set display-name on page 74
config email-template
edit default
    set from <string> on page 74
    set html-body <string> on page 74
    set subject <string> on page 74
    set text-body <string> on page 74
end

```

Variable	Description	Default
<name>	Enter a variable name that you want to add or edit, such as %%SENDER%%.	
content	Enter the content for the variable.	
display-name	Enter the display name for the variable. For example, the display name for %%SENDER%% can be From.	
from <string>	Enter the replacement message for the From field of the notification.	
html-body <string>	Enter the replacement message for the notification email body in HTML code.	
subject <string>	Enter the replacement message for the subject field of the notification.	
text-body <string>	Enter the replacement message for the notification email body in text format.	

ibe-notify-user-register-done

Use this sub-command to configure the variables and the default email template of the IBE user registration notification.

Syntax

This sub-command is available from within the command [customized-message on page 62](#).

```

edit ibe-notify-user-register-done
config variable
    edit <name> on page 75
        set content on page 75
        set display-name on page 75
config email-template
edit default
    set from <string> on page 75
    set html-body <string> on page 75
    set subject <string> on page 75
    set text-body <string> on page 75
end

```

Variable	Description	Default
<name>	Enter a variable name that you want to add or edit, such as %%SENDER%%.	
content	Enter the content for the variable.	
display-name	Enter the display name for the variable. For example, the display name for %%SENDER%% can be From.	
from <string>	Enter the replacement message for the From field of the notification.	
html-body <string>	Enter the replacement message for the notification email body in HTML code.	
subject <string>	Enter the replacement message for the subject field of the notification.	
text-body <string>	Enter the replacement message for the notification email body in text format.	

ibe-notify-wread-notif

Use this sub-command to configure the variables and the default email template of the IBE “read” notification which is the first time the message is read.

Syntax

This sub-command is available from within the command [customized-message on page 62](#).

```
edit ibe-notify-wread-notif
  config variable
    edit <name> on page 75
      set content on page 75
      set display-name on page 75
  config email-template
    edit default
      set from <string> on page 75
      set html-body <string> on page 76
      set subject <string> on page 76
      set text-body <string> on page 76
end
```

Variable	Description	Default
<name>	Enter a variable name that you want to add or edit, such as %%SENDER%%.	
content	Enter the content for the variable.	
display-name	Enter the display name for the variable. For example, the display name for %%SENDER%% can be From.	
from <string>	Enter the replacement message for the From field of the notification.	

Variable	Description	Default
html-body <string>	Enter the replacement message for the notification email body in HTML code.	
subject <string>	Enter the replacement message for the <code>subject</code> field of the notification.	
text-body <string>	Enter the replacement message for the notification email body in text format.	

ibe-notify-wunread-rcpt

Use this sub-command to configure the variables and the default email template of the IBE “unread” notification to the recipient when a mail remains unread for a period of time.

Syntax

This sub-command is available from within the command [customized-message on page 62](#).

```
edit ibe-notify-wunread-rcpt
  config variable
    edit <name> on page 76
      set content on page 76
      set display-name on page 76
  config email-template
    edit default
      set from <string> on page 76
      set html-body <string> on page 76
      set subject <string> on page 76
      set text-body <string> on page 76
end
```

Variable	Description	Default
<name>	Enter a variable name that you want to add or edit, such as <code>%%SENDER%%</code> .	
content	Enter the content for the variable.	
display-name	Enter the display name for the variable. For example, the display name for <code>%%SENDER%%</code> can be <code>From</code> .	
from <string>	Enter the replacement message for the <code>From</code> field of the notification.	
html-body <string>	Enter the replacement message for the notification email body in HTML code.	
subject <string>	Enter the replacement message for the <code>subject</code> field of the notification.	
text-body <string>	Enter the replacement message for the notification email body in text format.	

ibe-notify-wunread-sender

Use this sub-command to configure the variables and the default email template of the IBE “unread” notification to the sender when a mail remains unread for a period of time.

Syntax

This sub-command is available from within the command [customized-message on page 62](#).

```
edit ibe-notify-wread-notif
  config variable
    edit <name> on page 77
      set content on page 77
      set display-name on page 77
  config email-template
    edit default
      set from <string> on page 77
      set html-body <string> on page 77
      set subject <string> on page 77
      set text-body <string> on page 77
end
```

Variable	Description	Default
<name>	Enter a variable name that you want to add or edit, such as %%SENDER%%.	
content	Enter the content for the variable.	
display-name	Enter the display name for the variable. For example, the display name for %%SENDER%% can be From.	
from <string>	Enter the replacement message for the From field of the notification.	
html-body <string>	Enter the replacement message for the notification email body in HTML code.	
subject <string>	Enter the replacement message for the subject field of the notification.	
text-body <string>	Enter the replacement message for the notification email body in text format.	

log-report

Use this sub-command to configure the variables and the default content of the FortiMail log report.

Syntax

This sub-command is available from within the command [customized-message on page 62](#).

```
edit log-report
  config variable
    edit <name> on page 78
```

```

        set content on page 78
        set display-name on page 78
    config message
        edit default
            set env-from <string> on page 78
            set from <string> on page 78
            set html-body <string> on page 78
            set subject <string> on page 78
            set text-body <string> on page 78
        end
end

```

Variable	Description	Default
<name>	Enter a variable name that you want to add or edit, such as %%WARNING%%.	
content	Enter the content for the variable.	
display-name	Enter the display name for the variable. For example, the display name for %%WARNING%% can be Disclaimer.	
env-from <string>	Enter the replacement message for the email Envelope From field.	
from <string>	Enter the replacement message for the email From field.	
html-body <string>	Enter the replacement email body in HTML format.	
subject <string>	Enter the replacement message for the email Subject header.	
text-body <string>	Enter the replacement email body in text format.	

login-disclaimer

Use this sub-command to configure the variables and the default content of the FortiMail system login disclaimer.

Syntax

This sub-command is available from within the command [customized-message](#) on page 62.

```

edit login-disclaimer
    config variable
        edit <name> on page 78
            set content on page 79
            set display-name on page 79
    config message
        edit default
            set content <string> on page 79
            set format {html | multiline | text} on page 79
        end
end

```

Variable	Description	Default
<name>	Enter a variable name that you want to add or edit, such as %%WARNING%%.	

Variable	Description	Default
content	Enter the content for the variable.	
display-name	Enter the display name for the variable. For example, the display name for %%WARNING%% can be Disclaimer.	
content <string>	Enter the replacement message for the login disclaimer.	
format {html multiline text}	Select the format for the login disclaimer.	html

reject-content-attachment

Use this sub-command to configure the variables and the default content of the attachment filtering message. This message is sent when an email is rejected for containing banned attachments.

Syntax

This sub-command is available from within the command [customized-message](#) on page 62.

```
edit reject-content-attachment
  config variable
    edit <name> on page 79
      set content on page 79
      set display-name on page 79
  config message
    edit default
      set content <string> on page 79
      set format {html | multiline | text} on page 79
end
```

Variable	Description	Default
<name>	Enter a variable name that you want to add or edit, such as %%REJECTION%%.	
content	Enter the content for the variable.	
display-name	Enter the display name for the variable. For example, the display name for %%REJECTION%% can be Notice.	
content <string>	Enter the replacement message for the attachment filtering message.	
format {html multiline text}	Select the format for the attachment filtering message.	html

reject-content-message

Use this sub-command to configure the variables and the default content of the content filtering message. This message is sent when an email is rejected for containing sensitive content.

Syntax

This sub-command is available from within the command [customized-message on page 62](#).

```
edit reject-content-message
  config variable
    edit <name> on page 80
      set content on page 80
      set display-name on page 80
  config message
    edit default
      set content <string> on page 80
      set format {html | multiline | text} on page 80
end
```

Variable	Description	Default
<name>	Enter a variable name that you want to add or edit, such as %%REJECTION%%.	
content	Enter the content for the variable.	
display-name	Enter the display name for the variable. For example, the display name for %%REJECTION%% can be Notice.	
content <string>	Enter the replacement message for the content filtering message.	
format {html multiline text}	Select the format for the content filtering message.	html

reject-delivery

Use this sub-command to configure the variables and the default content of the message delivery failure message.

Syntax

This sub-command is available from within the command [customized-message on page 62](#).

```
edit reject-delivery
  config variable
    edit <name> on page 80
      set content on page 80
      set display-name on page 81
  config message
    edit default
      set content <string> on page 81
      set format {html | multiline | text} on page 81
end
```

Variable	Description	Default
<name>	Enter a variable name that you want to add or edit, such as %%REJECTION%%.	
content	Enter the content for the variable.	

Variable	Description	Default
display-name	Enter the display name for the variable. For example, the display name for %%REJECTION%% can be Notice.	
content <string>	Enter the replacement message for the delivery failure message.	
format {html multiline text}	Select the format for the delivery failure message.	html

reject-endpoint-reputation

Use this sub-command to configure the variables and the default content of the content filtering message. This message is sent when an email is rejected for carrier endpoint reputation check.

Syntax

This sub-command is available from within the command [customized-message on page 62](#).

```
edit reject-endpoint-reputation
  config variable
    edit <name> on page 80
      set content on page 80
      set display-name on page 80
  config message
    edit default
      set content <string> on page 80
      set format {html | multiline | text} on page 80
end
```

Variable	Description	Default
<name>	Enter a variable name that you want to add or edit, such as %%REJECTION%%.	
content	Enter the content for the variable.	
display-name	Enter the display name for the variable. For example, the display name for %%REJECTION%% can be Endpoint.	
content <string>	Enter the replacement message for the content filtering message.	
format {html multiline text}	Select the format for the content filtering message.	html

reject-spam

Use this sub-command to configure the variables and the default content of the spam message. This message is sent when an email is rejected for being detected as spam.

Syntax

This sub-command is available from within the command [customized-message on page 62](#).

```

edit reject-spam
  config variable
    edit <name> on page 82
      set content on page 82
      set display-name on page 82
  config message
    edit default
      set content <string> on page 82
      set format {html | multiline | text} on page 82
end

```

Variable	Description	Default
<name>	Enter a variable name that you want to add or edit, such as %%REJECTION%%.	
content	Enter the content for the variable.	
display-name	Enter the display name for the variable. For example, the display name for %%REJECTION%% can be Notice.	
content <string>	Enter the replacement message for the spam message.	
format {html multiline text}	Select the format for the spam message.	html

reject-virus-message

Use this sub-command to configure the variables and the default content of the virus message. This message is sent when an email is rejected for being infected with virus.

Syntax

This sub-command is available from within the command [customized-message on page 62](#).

```

edit reject-virus-message
  config variable
    edit <name> on page 82
      set content on page 82
      set display-name on page 82
  config message
    edit default
      set content <string> on page 83
      set format {html | multiline | text} on page 83
end

```

Variable	Description	Default
<name>	Enter a variable name that you want to add or edit, such as %%REJECTION%%.	
content	Enter the content for the variable.	
display-name	Enter the display name for the variable. For example, the display name for %%REJECTION%% can be Notice.	

Variable	Description	Default
content <string>	Enter the replacement message for the virus message.	
format {html multiline text}	Select the format for the virus message.	html

reject-virus-suspicious

Use this sub-command to configure the variables and the default content of the suspicious message. This message is sent when an email is rejected for containing suspicious components.

Syntax

This sub-command is available from within the command [customized-message on page 62](#).

```
edit reject-virus-suspicious
  config variable
    edit <name> on page 83
      set content on page 83
      set display-name on page 83
  config message
    edit default
      set content <string> on page 83
      set format {html | multiline | text} on page 83
end
```

Variable	Description	Default
<name>	Enter a variable name that you want to add or edit, such as %%REJECTION%%.	
content	Enter the content for the variable.	
display-name	Enter the display name for the variable. For example, the display name for %%REJECTION%% can be Notice.	
content <string>	Enter the replacement message for the suspicious message.	
format {html multiline text}	Select the format for the suspicious message.	html

replace-content-attachment

Use this sub-command to create the variables for and replace the default content of the attachment filtering message. This message is sent when the attachment of an email is blocked.

Syntax

This sub-command is available from within the command [customized-message on page 62](#).

```
edit replace-content-attachment
  config variable
    edit <name> on page 84
```

```

    set content on page 84
    set display-name on page 84
config message
  edit default
    set content <string> on page 84
    set format {html | multiline | text} on page 84
end

```

Variable	Description	Default
<name>	Enter a variable name that you want to add or edit, such as %%BLOCK%%.	
content	Enter the content for the variable.	
display-name	Enter the display name for the variable. For example, the display name for %%BLOCK%% can be Notice.	
content <string>	Enter the replacement message for the attachment filtering message.	
format {html multiline text}	Select the format for the attachment filtering message.	html

replace-content-body

Use this sub-command to create the variables for and replace the default body of the content filtering message. This message is sent when an email is rejected for containing corporate sensitive data.

Syntax

This sub-command is available from within the command [customized-message on page 62](#).

```

edit replace-content-body
  config variable
    edit <name> on page 84
      set content on page 84
      set display-name on page 84
  config message
    edit default
      set content <string> on page 84
      set format {html | multiline | text} on page 84
end

```

Variable	Description	Default
<name>	Enter a variable name that you want to add or edit, such as %%REJECT%%.	
content	Enter the content for the variable.	
display-name	Enter the display name for the variable. For example, the display name for %%REJECT%% can be Notice.	
content <string>	Enter the replacement message for the body of the content filtering message.	
format {html multiline text}	Select the format for the body of the content filtering message.	html

replace-content-subject

Use this sub-command to create the variables for and replace the default subject of the content filtering message. This message is sent when an email is rejected for containing corporate sensitive data.

Syntax

This sub-command is available from within the command [customized-message on page 62](#).

```
edit replace-content-subject
  config variable
    edit <name> on page 85
      set content on page 85
      set display-name on page 85
  config message
    edit default
      set content <string> on page 85
      set format {html | multiline | text} on page 85
end
```

Variable	Description	Default
<name>	Enter a variable name that you want to add or edit, such as %%REJECT%%.	
content	Enter the content for the variable.	
display-name	Enter the display name for the variable. For example, the display name for %%REJECT%% can be Notice.	
content <string>	Enter the replacement message for the subject of the content filtering message.	
format {html multiline text}	Select the format for the subject of content filtering message.	html

replace-virus-message

Use this sub-command to configure the variables and the default replacement message for infected email attachments. This message is sent when an email's attachment is removed for being infected with a virus.

Syntax

This sub-command is available from within the command [customized-message on page 62](#).

```
edit replace-virus-message
  config variable
    edit <name> on page 86
      set content on page 86
      set display-name on page 86
  config message
    edit default
      set content <string> on page 86
      set format {html | multiline | text} on page 86
end
```

Variable	Description	Default
<name>	Enter a variable name that you want to add or edit, such as %%WARNING%%.	
content	Enter the content for the variable.	
display-name	Enter the display name for the variable. For example, the display name for %%WARNING%% can be Notice.	
content <string>	Enter the replacement message for infected email attachments.	
format {html multiline text}	Select the format for the replacement message of infected email attachments.	html

replace-virus-suspicious

Use this sub-command to configure the variables and the default replacement message for suspicious email attachments. This message is sent when an email's attachment is removed for containing suspicious components.

Syntax

This sub-command is available from within the command [customized-message](#) on page 62.

```
edit replace-virus-suspicious
  config variable
    edit <name> on page 86
      set content on page 86
      set display-name on page 86
  config message
    edit default
      set content <string> on page 86
      set format {html | multiline | text} on page 86
end
```

Variable	Description	Default
<name>	Enter a variable name that you want to add or edit, such as %%WARNING%%.	
content	Enter the content for the variable.	
display-name	Enter the display name for the variable. For example, the display name for %%WARNING%% can be Notice.	
content <string>	Enter the replacement message for suspicious email attachments.	
format {html multiline text}	Select the format for the replacement message of suspicious email attachments.	html

report-quarantine-summary

Use this sub-command to configure the variables and the default email template of quarantine summary.

Syntax

This sub-command is available from within the command [customized-message](#) on page 62.

```
edit report-quarantine-summary
  config variable
    edit <name> on page 87
      set content on page 87
      set display-name on page 87
  config email-template
    edit default
      set from <string> on page 87
      set html-body <string> on page 75
      set subject <string> on page 75
      set text-body <string> on page 75
end
```

Variable	Description	Default
<name>	Enter a variable name that you want to add or edit, such as %%SENDER%%.	
content	Enter the content for the variable.	
display-name	Enter the display name for the variable. For example, the display name for %%SENDER%% can be From.	
from <string>	Enter the replacement message for the From field of the quarantine summary.	
html-body <string>	Enter the replacement message for the email body of the quarantine summary in HTML code.	
subject <string>	Enter the replacement message for the subject field of the quarantine summary.	
text-body <string>	Enter the replacement message for the email body of the quarantine summary in text format.	

dlp scan-rules

Use these commands to prevent sensitive data from leaving your network.

Syntax

```
config dlp scan-rules
  edit <rule_name> on page 88
    config_conditions on page 88
      edit <condition_id_>
        set attribute on page 88
        set file-pattern on page 88
        set group-type on page 88
        set ldap-profile on page 88
        set operator on page 88
```

```

    set sensitive-data on page 88
    set value on page 88
config_exceptions on page 88
  edit <exception_id>
    set attribute on page 88
    set file-pattern on page 88
    set group-type on page 88
    set ldap-profile on page 88
    set operator on page 88
    set sensitive-data on page 88
    set value on page 88
  end
end

```

Variable	Description	Default
<rule_name>	Enter a descriptive name for the rule.	No default.
conditions	Select either Match all conditions or Match any condition.	
exceptions	Email matching the exceptions will not be scanned.	
attribute	Enter a descriptive name.	
file-pattern	Enter a filename pattern to restrict fingerprinting to only those files that match the pattern.	
group-type	Set whether the group is local or LDAP.	
ldap-profile	Select your LDAP profile.	
operator	Enter the scan conditions (contains/does not contain).	
sensitive-data	Enter a predefined sensitive information term.	
value	Enter the attribute value in string format.	

domain

Use these commands to configure a protected domain.

For more information on protected domains and when they are required, see the [FortiMail Administration Guide](#).

Syntax

This command contains many sub-commands. Each sub-command, linked below, is documented in subsequent sections.

```

config domain
  edit <domain_name> on page 89
    config customized-message on page 89...
    config domain-setting on page 90...
    config policy recipient on page 102...
    config profile antispam on page 145...
    config profile antispam-action on page 155...
    config profile antivirus on page 159...
    config profile antivirus-action on page 162...
  end
end

```



```

    config profile authentication on page 166...
    config profile content on page 171...
    config profile content-action on page 178...
    config profile impersonation on page 187...
    config profile resource on page 207...
    config user mail on page 106...
  next
end

```

Variable	Description	Default
<domain_name>	Type the fully qualified domain name (FQDN) of the protected domain. For example, to protect email addresses ending in “@example.com”, type <code>example.com</code> .	No default.

config customized-message

Use this sub-command to configure the variables and the default email template of quarantine summary of a protected domain.

Syntax

This sub-command is available from within the command `dlp scan-rules` on page 87.

```

config customized-message
  edit report-quarantine-summary
    config variable
      edit <name> on page 89
        set content on page 89
        set display-name on page 89
    config email-template
      edit default
        set from <string> on page 89
        set html-body <string> on page 89
        set subject <string> on page 90
        set text-body <string> on page 90
  end
end

```

Variable	Description	Default
<name>	Enter a variable name that you want to add or edit, such as <code>%%SENDER%%</code> .	
content	Enter the content for the variable.	
display-name	Enter the display name for the variable. For example, the display name for <code>%%SENDER%%</code> can be <code>From</code> .	
from <string>	Enter the replacement message for the <code>From</code> field of the quarantine summary.	
html-body <string>	Enter the replacement message for the email body of the quarantine summary in HTML code.	

Variable	Description	Default
subject <string>	Enter the replacement message for the <code>subject</code> field of the quarantine summary.	
text-body <string>	Enter the replacement message for the email body of the quarantine summary in text format.	

config domain-setting

Use this sub-command to configure the basic settings of a protected domain.

Syntax

This sub-command is available from within the command `dlp scan-rules` on page 87.

```
config domain-setting
  set addressbook {domain | none | system} on page 91
  set bypass-bounce-verification {enable | disable} on page 91
  set fallback-host {<smtp-server_fqdn> | <smtp-server_ipv4>} on page 91
  set fallback-port <port_int> on page 91
  set fallback-use-smtps {enable | disable} on page 91
  set global-bayesian {enable | disable} on page 91
  set greeting-with-host-name {domainname | hostname | othername} on page 92
  set host <host_name> on page 92
  set ip-pool <pool_name> on page 93
  set ip-pool-direction {outgoing | incoming | both} on page 93
  set is-sub-domain {enable | disable} on page 93
  set ldap-asav-profile <ldap-profile_name> on page 93
  set ldap-asav-status {enable | disable} on page 94
  set ldap-domain-routing-port <port_int> on page 94
  set ldap-domain-routing-profile <ldap-profile_name> on page 94
  set ldap-domain-routing-smtps {enable | disable} on page 94
  set ldap-groupowner-profile <ldap-profile_name> on page 94
  set ldap-routing-profile <ldap-profile_name> on page 94
  set ldap-routing-status {enable | disable} on page 94
  set ldap-user-profile <profile_name> on page 94
  set max-message-size <limit_int> on page 94
  set other-helo-greeting <string> on page 95
  set port <smtp-port_int> on page 95
  set quarantine-report-schedule-status {enable | disable} on page 95
  set quarantine-report-status {enable | disable} on page 95
  set quarantine-report-to-alt {enable | disable} on page 95
  set quarantine-report-to-alt-addr <recipient_email> on page 95
  set quarantine-report-to-individual {enable | disable} on page 95
  set quarantine-report-to-ldap-groupowner {enable | disable} on page 95
  set recipient-verification {disable | ldap | smtp} on page 95
  set recipient-verification-background {disable | ldap | smtp} on page 96
  set relay-type {host | ip-pool | ldap-domain-routing | mx-lookup | mx-lookup-alt-domain} on page 97
  set remove-outgoing-received-header {enable | disable} on page 99
  set sender-addr-rate-ctrl-max-msgs <integer> on page 99
  set sender-addr-rate-ctrl-max-msgs-state {enable | disable} on page 99
  set sender-addr-rate-ctrl-max-size <integer> on page 99
  set sender-addr-rate-ctrl-max-size-state {enable | disable} on page 99
```

```

set sender-addr-rate-ctrl-state {enable | disable} on page 99
set smtp-recipient-verification-command {rcpt | vrfy} on page 99
set smtp-recipient-verification-accept-reply-string <accept_string> on page 99
set tp-hidden {no | yes} on page 100
set tp-server-on-port <port_int> on page 101
set tp-use-domain-mta {yes | no} on page 101
set use-stmps {enable | disable} on page 102
set webmail-language <language_name> on page 102
set web-theme {IndigoDarkBlue | RedGrey | Standard | Use-System-Settings} on page
102
end

```

Variable	Description	Default
addressbook {domain none system} (server mode only)	Add newly created mail user to system address book, domain address book or not.	domain
bypass-bounce-verification {enable disable}	Enable to omit bounce address tag verification of email incoming to this protected domain. This bypass does not omit bounce address tagging of outgoing email.	disable
fallback-host {<smtp-server_fqdn> <smtp-server_ipv4>} (transparent mode and gateway mode only)	Enter the fully qualified domain name (FQDN) or IP address of the secondary SMTP server for this protected domain. This SMTP server will be used if the primary SMTP server is unreachable.	No default.
fallback-port <port_int> (transparent mode and gateway mode only)	Enter the port number on which the failover SMTP server listens. If you enable Use SMTPS, Port automatically changes to the default port number for SMTPS, but can still be customized. The default SMTP port number is 25; the default SMTPS port number is 465.	25
fallback-use-smtps {enable disable} (transparent mode and gateway mode only)	Enable to use SMTPS for connections originating from or destined for this protected server.	disable
global-bayesian {enable disable}	Enable to use the global Bayesian database instead of the Bayesian database for this protected domain. If you do not need the Bayesian database to be specific to the protected domain, you may want to use the global Bayesian database instead in order to simplify database maintenance and training. Disable to use the per-domain Bayesian database.	disable

Variable	Description	Default
	<p>This option does not apply if you have enabled use of personal Bayesian databases in an incoming antispam profile, and if the personal Bayesian database is mature. Instead, the FortiMail unit will use the personal Bayesian database.</p>	
greeting-with-host-name {domainname hostname othername}	<p>Specify how the FortiMail unit will identify itself during the <code>HELO</code> or <code>EHLO</code> greeting of outgoing SMTP connections that it initiates.</p> <p><i>domainname</i>: The FortiMail unit will identify itself using the domain name for this protected domain.</p> <p>If the FortiMail unit will handle internal email messages (those for which both the sender and recipient addresses in the envelope contain the domain name of the protected domain), to use this option, you must also configure your protected SMTP server to use its host name for SMTP greetings. Failure to do this will result in dropped SMTP sessions, as both the FortiMail unit and the protected SMTP server will be using the same domain name when greeting each other.</p> <p><i>hostname</i>: The FortiMail unit will identify itself using its own host name.</p> <p>By default, the FortiMail unit uses the domain name of the protected domain. If your FortiMail unit is protecting multiple domains and using IP pool addresses, select to use the system host name instead. This setting does not apply if email is incoming, according to the sender address in the envelope, from an unprotected domain.</p> <p><i>othername</i>: If you select this option, another command <code>set other-helo-greeting <string></code> will appear, allowing you enter a name other than the domain name or host name, for the HELO/EHELO greeting.</p>	hostname
host <host_name> (transparent mode and gateway mode only)	<p>The host name or IP address and port number of the mail exchanger (MX) for this protected domain.</p> <p>If Relay Type is MX Record (this domain) or MX Record (alternative domain), this information is determined dynamically by querying the MX record of the DNS server, and this field will be empty.</p>	No default.

Variable	Description	Default
ip-pool <pool_name>	<p>You can use a pool of IP addresses as the source IP address when sending email from this domain, or as the destination IP address when receiving email destined to this domain, or as both the source and destination IP addresses.</p> <p>If you want to use the IP pool as the source IP address for this protected domain, according to the sender's email address in the envelope (MAIL FROM:), select the IP pool to use and select outgoing as the ip-pool-direction.</p> <p>If you want to use the IP pool as the destination IP address (virtual host) for this protected domain, according to the recipient's email address in the envelope (RCPT TO:), select the IP pool to use and select incoming as the ip-pool-direction. You must also configure the MX record to direct email to the IP pool addresses as well.</p> <p>This feature can be used to support multiple virtual hosts on a single physical interface, so that different profiles can be applied to different host and logging for each host can be separated as well.</p> <p>If you want to use the IP pool as both the destination and source IP address, select the IP pool to use and select Both as the ip-pool-direction.</p> <p>Each email that the FortiMail unit sends will use the next IP address in the range. When the last IP address in the range is used, the next email will use the first IP address.</p>	No default.
ip-pool-direction {outgoing incoming both}	<p>Sets the direction for the ip-pool option. See description above.</p> <p>This option is only available after you configure the ip-pool option.</p>	
is-sub-domain {enable disable}	<p>Enable to indicate the protected domain you are creating is a subdomain of an existing protected domain, then also configure Main domain.</p> <p>Subdomains, like their parent protected domains, can be selected when configuring policies specific to that subdomain. Unlike top-level protected domains, however, subdomains will be displayed as grouped under the parent protected domain when viewing the list of protected domains.</p> <p>This option is available only when another protected domain exists to select as the parent domain.</p>	disable
ldap-asav-profile <ldap-profile_name>	Specify the name of an LDAP profile which you have enabled and configured.	No default.

Variable	Description	Default
ldap-asav-status {enable disable}	Enable to query an LDAP server for an email user's preferences to enable or disable antispam and/or antivirus processing for email messages destined for them.	disable
ldap-domain-routing-port <port_int>	<p>Enter the port number on which the SMTP servers in the LDAP profile listen.</p> <p>If you enable <code>ldap-domain-routing-smtps</code>, this setting automatically changes to the default port number for SMTPS, but can still be customized.</p> <p>The default SMTP port number is 25; the default SMTPS port number is 465.</p> <p>This option is valid when <code>relay-type</code> is <code>ldap-domain-routing</code>.</p>	25
ldap-domain-routing-profile <ldap-profile_name>	<p>Select the name of the LDAP profile that has the FQDN or IP address of the SMTP server you want to query. Also configure <code>ldap-domain-routing-port</code> <port_int> on page 94 and <code>ldap-domain-routing-smtps</code> {enable disable} on page 94.</p> <p>This option is valid when <code>relay-type</code> is set to <code>ldap-domain-routing</code>.</p>	
ldap-domain-routing-smtps {enable disable}	<p>Enable to use SMTPS for connections originating from or destined for this protected server.</p> <p>This option is valid when <code>relay-type</code> is <code>ldap-domain-routing</code>.</p>	disable
ldap-groupowner-profile <ldap-profile_name>	Select an LDAP profile to send the quarantine report to a group owner, rather than individual recipients.	No default.
ldap-routing-profile <ldap-profile_name>	Select an LDAP profile for mail routing.	No default.
ldap-routing-status {enable disable}	Enable/disable LDAP mail routing.	disable
ldap-user-profile <profile_name>	Select the name of an LDAP profile in which you have configured, enabling you to authenticate email users and expand alias email addresses or replace one email address with another by using an LDAP query to retrieve alias members.	No default.
max-message-size <limit_int>	<p>Enable then type the limit in kilobytes (KB) of the message size. Email messages over the threshold size are rejected.</p> <p>Note: If both this option and <code>expire-inactivity</code> <days_int> on page 244 in the session profile are enabled, email size will be limited to whichever size is smaller.</p>	204800KB

Variable	Description	Default
other-helo-greeting <string>	After you set the <code>greeting-with-hostname</code> to <code>othername</code> , use this command to specify the name to use for HELO/EHELO greeting.	
port <smtp-port_int> (transparent mode and gateway mode only)	Set the SMTP port number of the mail server.	25
quarantine-report-schedule-status {enable disable}	Enable or disable domain-level quarantine report schedule setting. The quarantine report settings for a protected domain are a subset of the system-wide quarantine report settings. For example, if the system settings for schedule include only Monday and Thursday, when you are setting the schedule for the quarantine reports of the protected domain, you will only be able to select either Monday or Thursday.	disable
quarantine-report-status {enable disable}	Enable or disable domain-level quarantine report.	disable
quarantine-report-to-alt {enable disable}	Enable or disable sending domain-level quarantine report to a recipient other than the individual recipients or group owner. For example, you might delegate quarantine reports by sending them to an administrator whose email address is not locally deliverable to the protected domain, such as <code>admin@lab.example.com</code> .	disable
quarantine-report-to-alt-addr <recipient_email>	Enter the recipient's email address.	No default.
quarantine-report-to-individual {enable disable}	Enable to send quarantine reports to all recipients.	enable
quarantine-report-to-ldap-groupowner {enable disable}	Enable to send quarantine reports to the LDAP group owner of the specified LDAP profile.	disable
recipient-verification {disable ldap smtp}	Select a method of confirming that the recipient email address in the message envelope (<code>RCPT TO:</code>) corresponds to an email user account that actually exists on the protected email server. If the recipient address is invalid, the FortiMail unit will reject the email. This prevents quarantine email messages for non-existent accounts, thereby conserving quarantine hard disk space. <code>disable</code> : Do not verify that the recipient address is an email user account that actually exists.	disable

Variable	Description	Default
	<p>smtp: Query the SMTP server using the SMTP RCPT command to verify that the recipient address is an email user account that actually exists. You can also choose to use the SMTP VRFY command to do the verification. This feature is available on the GUI when you create a domain.</p> <p>If you want to query an SMTP server other than the one you have defined as the protected SMTP server, also enable Use alternative server, then enter the IP address or FQDN of the server in the field next to it. Also configure Port with the TCP port number on which the SMTP server listens, and enable Use SMTPS if you want to use SMTPS for recipient address verification connections with the server.</p> <p>ldap: Query an LDAP server to verify that the recipient address is an email user account that actually exists. Also select the LDAP profile that will be used to query the LDAP server.</p> <p>Note: This option can cause a performance impact that may be noticeable during peak traffic times. For a lesser performance impact, you can alternatively periodically automatically remove quarantined email messages for invalid email user accounts, rather than actively preventing them during each email message.</p> <p>Note: Spam often contains invalid recipient addresses. If you have enabled spam quarantining, but have not prevented or scheduled the periodic removal of quarantined email messages for invalid email accounts, the FortiMail hard disk may be rapidly consumed during peak traffic times, resulting in refused SMTP connections when the hard disk becomes full. To prevent this, enable either this option or the periodic removal of invalid quarantine accounts.</p>	
recipient-verification-background {disable ldap smtp}	Select a method by which to periodically remove quarantined spam for which an email user account does not actually exist on the protected email server.	No default.

Variable	Description	Default
	<p><code>disable</code>: Do not verify that the recipient address is an email user account that actually exists.</p> <p><code>smtp</code>: Query the SMTP server to verify that the recipient address is an email user account that actually exists.</p> <p><code>ldap</code>: Query an LDAP server to verify that the recipient address is an email user account that actually exists. Also select the LDAP profile that will be used to query the LDAP server.</p> <p>If you select either Use SMTP server or Use LDAP server, at 4:00 AM daily (unless configured for another time, using the CLI), the FortiMail unit queries the server to verify the existence of email user accounts. If an email user account does not currently exist, the FortiMail unit removes all spam quarantined for that email user account.</p> <p>Note: If you have also enabled <code>recipient-verification</code>, the FortiMail unit is prevented from forming quarantine accounts for email user accounts that do not really exist on the protected email server. In that case, invalid quarantine accounts are never formed, and this option may not be necessary, except when you delete email user accounts on the protected email server. If this is the case, you can improve the performance of the FortiMail unit by disabling this option.</p> <p>Note: Spam often contains invalid recipient addresses. If you have enabled spam quarantining, but have not prevented or scheduled the periodic removal of quarantined email messages for invalid email accounts, the FortiMail hard disk may be rapidly consumed during peak traffic times, resulting in refused SMTP connections when the hard disk becomes full. To prevent this, enable either this option or verification of recipient addresses.</p>	
<code>relay-type {host ip-pool ldap-domain-routing mx-lookup mx-lookup-alt-domain}</code> (transparent mode and gateway mode only)	<p>Select from one of the following methods of defining which SMTP server will receive email from the FortiMail unit that is destined for the protected domain:</p> <p><code>host</code>: Configure the connection to one protected SMTP server or, if any, one fallback.</p>	host

Variable	Description	Default
	<p><code>ldap-domain-routing</code>: Query the LDAP server for the FQDN or IP address of the SMTP server. For more information about domain lookup, see domain-query <query_str> on page 197.</p> <p><code>mx-lookup</code>: Query the DNS server's MX record of the protected domain name for the FQDN or IP address of the SMTP server. If there are multiple MX records, the FortiMail unit will load balance between them.</p> <p><code>mx-lookup-alt-domain</code>: Query the DNS server's MX record of a domain name you specify for the FQDN or IP address of the SMTP server. If there are multiple MX records, the FortiMail unit will load balance between them.</p> <p><code>ip-pool</code>: Configure the connection to rotate among one or many protected SMTP servers.</p> <p>Note: If an MX option is used, you may also be required to configure the FortiMail unit to use a private DNS server whose MX and/or A records differ from that of a public DNS server. Requirements vary by the topology of your network and by the operating mode of the FortiMail unit.</p> <p>Gateway mode: A private DNS server is required. On the private DNS server, configure the MX record with the FQDN of the SMTP server that you are protecting for this domain, causing the FortiMail unit to route email to the protected SMTP server. This is different from how a public DNS server should be configured for that domain name, where the MX record usually should contain the FQDN of the FortiMail unit itself, causing external SMTP servers to route email through the FortiMail unit. Additionally, if both the FortiMail unit and the SMTP server are behind a NAT device such as a router or firewall, on the private DNS server, configure the protected SMTP server's A record with its private IP address, while on the public DNS server, configure the FortiMail unit's A record with its public IP address.</p> <p>Transparent mode: A private DNS server is required if both the FortiMail unit and the SMTP server are behind a NAT device such as a router or firewall. On the private DNS server, configure the protected SMTP server's A record with its private IP address. On the public DNS server, configure the protected SMTP server's A record with its public IP address. Do not modify the MX record.</p>	

Variable	Description	Default
remove-outgoing-received-header {enable disable}	<p>Enable to remove the <code>Received:</code> message headers from email whose:</p> <ul style="list-style-type: none"> • sender email address belongs to this protected domain, and • recipient email address is outgoing (that is, does not belong to this protected domain); if there are multiple recipients, only the first recipient's email address is used to determine whether an email is outgoing. <p>You can alternatively remove this header from any matching email using session profiles.</p>	disable
sender-addr-rate-ctrl-max-msgs <integer>	Enter the maximum number of messages per sender address per half an hour.	30
sender-addr-rate-ctrl-max-msgs-state {enable disable}	Enable the option of maximum number of messages per sender address per half an hour.	disable
sender-addr-rate-ctrl-max-size <integer>	Enter the maximum number of megabytes per sender per half an hour.	100
sender-addr-rate-ctrl-max-size-state {enable disable}	Enable the option of maximum number of megabytes per sender per half an hour.	disable
sender-addr-rate-ctrl-state {enable disable}	Enable sender address rate control per sender email address.	disable
smtp-recipient-verification-command {rcpt vrfy} (transparent mode and gateway mode only)	<p>Specify the command that the FortiMail unit uses to query the SMTP server to verify that the recipient address is an email user account that actually exists. The default command that the FortiMail unit uses is <code>rcpt</code>.</p> <p>For information about recipient verification, see recipient-verification {disable ldap smtp} on page 95</p> <p>This option is only available after you select <code>smtp</code> in <code>recipient-verification</code>.</p>	rcpt
smtp-recipient-verification-accept-reply-string <accept_string> (transparent mode and gateway mode only)	<p>When FortiMail queries the SMTP server for recipient verification:</p> <p>If the reply code of the VRFY command is 2xx, the recipient exists.</p> <p>If the reply code is non-2xx, FortiMail will try to match the accept string you specified with the reply string. If the strings match, the recipient exists.</p> <p>Otherwise, the recipient is unknown.</p>	

Variable	Description	Default
	<p>For example, if the recipient is a group or mailing list, FortiMail will receive a 550 error code and a reply string. Depending on what reply string you get, you can specify a string to match the reply string.</p> <p>For example, if the recipient is marketing@example.com, the reply string might say something like "marketing@example.com is a group". In this case, if you specify "is a group" as the accept string and thus this string matches the string or part of the string in the reply string, FortiMail will deem the query successful and pass the email.</p> <p>This command is available only when you set <code>SMTP-recipient-verification-command</code> to <code>vrfy</code>.</p>	
<code>tp-hidden {no yes}</code> (transparent mode only)	<p>Enable to preserve the IP address or domain name of the SMTP client for incoming email messages in:</p> <ul style="list-style-type: none"> the SMTP greeting (<code>HELO/EHLO</code>) in the envelope and in the Received: message headers of email messages the IP addresses in the IP header <p>This masks the existence of the FortiMail unit to the protected SMTP server.</p> <p>Disable to replace the SMTP client's IP address or domain name with that of the FortiMail unit.</p> <p>For example, an external SMTP client might have the IP address 172.168.1.1, and the FortiMail unit might have the domain name fortimail.example.com. If the option is enabled, the message header would contain (difference highlighted in bold):</p> <p>Received: from 192.168.1.1 (EHLO 172.16.1.1) (192.168.1.1) by smtp.external.example.com with SMTP; Fri, 24 Jul 2008 07:12:40 -0800</p> <p>Received: from smtpa ([172.16.1.2]) by [172.16.1.1] with SMTP id kAOFESEN001901 for <user1@external.example.com>; Fri, 24 Jul 2008 15:14:28 GMT</p> <p>But if the option is disabled, the message headers would contain:</p> <p>Received: from 192.168.1.1 (EHLO fortimail.example.com) (192.168.1.1) by smtp.external.example.com with SMTP; Fri, 24 Jul 2008 07:17:45 -0800</p>	no

Variable	Description	Default
	<p>Received: from smtpa ([172.16.1.2]) by fortimail.example.com with SMTP id kAOFJl4j002011 for <user1@external.example.com>; Fri, 24 Jul 2008 15:19:47 GMT</p> <p>Note: This option does not apply to email messages sent from protected domains to protected domains, meaning that the FortiMail unit will not be hidden even if this option is enabled.</p>	
tp-server-on-port <port_int> (transparent mode only)	<p>Select the network interface (physical port) to which the protected SMTP server is connected.</p> <p>Note: Selecting the wrong network interface will result in the FortiMail sending email traffic to the wrong network interface.</p>	0
tp-use-domain-mta {yes no} (transparent mode only)	<p>Enable to proxy SMTP clients' incoming connections when sending outgoing email messages via the protected SMTP server.</p>	no

Variable	Description	Default
	<p>For example, if the protected domain example.com has the SMTP server 192.168.1.1, and an SMTP client for user1@example.com connects to it to send email to user2@external.example.net, enabling this option would cause the FortiMail unit to proxy the connection through to the protected SMTP server.</p> <p>Disable to relay email using the built-in MTA to either the defined SMTP relay, if any, or directly to the MTA that is the mail exchanger (MX) for the recipient email address's (RCPT TO:) domain. The email may not actually travel through the protected SMTP server, even though it was the relay originally specified by the SMTP client.</p> <p>This option does not affect incoming connections containing incoming email messages, which will always be handled by the built-in MTA.</p> <p>Note: This option will be ignored for email that matches an antispam or content profile where you have enabled <code>alternate-host {<relay_fqdn> <relay_ipv4>}</code> on page 156.</p>	
use-stmps {enable disable}	Enable to use SMTPS to relay email to the mail server.	disable
webmail-language <language_name>	Select either Use system settings , other language that the FortiMail unit will to display webmail and quarantine folder pages. By default, the FortiMail unit uses the same language as the web-based manager.	No default.
web-theme {IndigoDarkBlue RedGrey Standard Use-System-Settings}	Select the display theme that the FortiMail unit will to display webmail and quarantine folder pages. By default, the FortiMail unit uses the same display theme as the web-based manager.	Use-System-Settings

config policy recipient

Use this sub-command to configure a recipient-based policy for a protected domain. To configure system-wide policies, use the "config policy" command.

Syntax

This sub-command is available from within the command [dlp scan-rules on page 87](#).

```
config policy recipient
edit <policy_index> on page 103
set auth-access-options {pop3 smtp-auth smtp-diff-identity web} on page 103
```

```

set certificate-required {yes | no} on page 103
set comment on page 104
set direction on page 104
set pkiauth {enable | disable} on page 104
set pkiuser <user_name> on page 104
set profile-antispam <antispam_name> on page 104
set profile-antivirus <antivirus_name> on page 104
set profile-auth-type {imap | local | ldap | pop3 | smtp | radius} on page 104
set profile-content <profile_name> on page 105
set profile-dlp on page 105
set profile-resource <profile_name> on page 105
set profile-ldap <profile_name> on page 105
set recipient-domain <domain> on page 105
set recipient-name <name_str> on page 105
set recipient-type {ldap-group | local-group | user} on page 105
set sender-domain <domain_name> on page 105
set sender-name <local-part_str> on page 105
set sender-type {ldap-group | local-group | user} on page 105
set smtp-diff-identity on page 106
set smtp-diff-identity on page 106
set smtp-diff-identity-ldap-profile on page 106
set status {enable | disable} on page 106
next
end

```

Variable	Description	Default
<policy_index>	Type the index number of the policy. To view a list of existing entries, enter a question mark (?).	No default.
auth-access-options {pop3 smtp-auth smtp-diff-identity web}	Type one or more of the following: smtp-diff-identity: Allow email when the SMTP client authenticates with a different user name than the one that appears in the envelope's sender email address. You must also enter <code>smtpauth</code> for this option to have any effect. web: Allow the email user to use FortiMail webmail (HTTP or HTTPS) to retrieve the contents of their per-recipient spam quarantine. pop3: Allow the email user to use POP3 to retrieve the contents of their per-recipient spam quarantine. smtp-auth: Use the authentication server selected in the authentication profile when performing SMTP authentication for connecting SMTP clients. Note: Entering this option allows, but does not require, SMTP authentication. To enforce SMTP authentication for connecting SMTP clients, ensure that all access control rules require authentication.	No default.
certificate-required {yes no} (transparent and gateway mode only)	If the email user's web browser does not provide a valid personal certificate, the FortiMail unit will fall back to standard user name and password-style authentication. To require valid certificates only and disallow password-style fallback, enable this option.	no

Variable	Description	Default
comment	Enter a comment for the recipient policy	
direction	Enter whether the direction of mail traffic is incoming or outgoing.	
pkiauth {enable disable} (transparent and gateway mode only)	Enable if you want to allow email users to log in to their per-recipient spam quarantine by presenting a certificate rather than a user name and password.	disable
pkiuser <user_name> (transparent and gateway mode only)	Enter the name of the PKI user entry, or select a user you defined before. This is not required to be the same as the administrator or email user's account name, although you may find it helpful to do so. For example, you might have an administrator account named <code>admin1</code> . You might therefore find it most straightforward to also name the PKI user <code>admin1</code> , making it easy to remember which account you intended to use these PKI settings.	No default.
profile-antispam <antispam_name>	Select a antispam profile that you want to apply to the policy.	No default.
profile-antivirus <antivirus_name>	Select an antivirus profile that you want to apply to the policy.	No default.
profile-auth-type {imap local ldap pop3 smtp radius}	If you want email users to be able to authenticate using an external authentication server, first specify the profile type (SMTP, POP3, IMAP, RADIUS, or LDAP), then specify which profile to use. For example: <pre>set profile-auth-type ldap set profile-auth-ldap ldap_profile1</pre>	No default.
profile-auth-imap <imap_name>	Type the name of an IMAP authentication profile. This command is applicable only if you have enabled use of an IMAP authentication profile using <code>profile-auth-type {imap local ldap pop3 smtp radius}</code> on page 104	No default.
profile-auth-ldap <ldap_name>	Type the name of an LDAP authentication profile. This command is applicable only if you have enabled use of an LDAP authentication profile using <code>profile-auth-type {imap local ldap pop3 smtp radius}</code> on page 104	No default.
profile-auth-pop3 <pop3_name>	Type the name of a POP3 authentication profile. This command is applicable only if you have enabled use of a POP3 authentication profile using <code>profile-auth-type {imap local ldap pop3 smtp radius}</code> on page 104	No default.

Variable	Description	Default
profile-auth-smtp <smtp_name>	Type the name of an SMTP authentication profile. This command is applicable only if you have enabled use of an SMTP authentication profile using <code>profile-auth-type {imap local ldap pop3 smtp radius}</code> on page 104.	No default.
profile-auth-radius <radius_name>	Type the name of a RADIUS authentication profile. This command is applicable only if you have enabled use of a RADIUS authentication profile using <code>profile-auth-type {imap local ldap pop3 smtp radius}</code> on page 104.	No default.
profile-content <profile_name>	Select which content profile you want to apply to the policy.	No default.
profile-dlp	Enter the DLP profile for the policy.	
profile-resource <profile_name>	Select which resource profile you want to apply to the policy. This option is only available in server mode.	No default.
profile-ldap <profile_name>	If you set the recipient type as "ldap-group", you can select an LDAP profile.	
recipient-domain <domain>	Enter the domain part of the recipient email address.	
recipient-name <name_str>	Enter the local part of the recipient email address or a pattern with wild cards.	No default.
recipient-type {ldap-group local-group user}	Select one of the following ways to define recipient (RCPT TO:) email addresses that match this policy. This setting applies to the incoming policies only. user: Select this option and then use the above command to enter the local part of the recipient email address. local-group: Select this option and then specify the local group under this domain. ldap-group: Select this option and then select an LDAP profile.	user
sender-domain <domain_name>	Enter the domain part of the sender email address. For example, example.com.	
sender-name <local-part_str>	Enter the local part of the sender email address. For example, user1.	
sender-type {ldap-group local-group user}	Select one of the following ways to define which sender (MAIL FROM:) email addresses match this policy. user: Select this option and then use the above command to enter the local part of the sender email address. local-group: Select this option and then specify the local group under this domain. ldap-group: Select this option and then select an LDAP profile. Note: This setting applies to the outgoing policies only.	user

Variable	Description	Default
smtp-diff-identity	Rejects different smtp sender identity.	
smtp-diff-identity-ldap	Verify smtp sender identity with LDAP for authenticated email.	
smtp-diff-identity-ldap-profile	Ldap profile for smtp sender identity verification.	
status {enable disable}	Enable or disable the policy.	enable

config user mail

Use this sub-command to configure email user accounts.

Syntax

This sub-command is available from within the command [dlp scan-rules on page 87](#).

```

config user mail
  rename <old_username> on page 106 to <new_username> on page 106 (see the note below)
  edit <user_name> on page 106
    set type {local | ldap} on page 106
    set type local
    set displayname <name_str> on page 106
    set password <pwd_str> on page 106
    set type ldap
    set displayname <name_str> on page 106
    set ldap-profile <ldap_name> on page 106
  next
end

```

Variable	Description	Default
<old_username>	The user account name you want to rename.	
<new_username>	The new user account name you want to change to.	
<user_name>	Enter the user name of an email user, such as <code>user1</code> . This is also the local-part portion of the email user's primary email address.	No default.
type {local ldap}	Enter the type of email user account you want to add. See set type local on page 106 and set type ldap on page 106 .	ldap
displayname <name_str>	Enter the display name of the local email user, such as 'User One'.	No default.
password <pwd_str>	Enter the password of the local email user.	No default.
displayname <name_str>	Enter the display name of the LDAP email user, such as 'User One'.	No default.
ldap-profile <ldap_name>	Enter the name of an LDAP profile in which authentication queries are enabled.	No default.



If you rename an existing user account to a new user account name, all the user's preferences and mail data will be ported to the new user. However, due to the account name change, the new user will not be able to decrypt and read the encrypted email that is sent to the old user name before.

domain-association



This command applies only if the FortiMail unit is operating in gateway mode or transparent mode.

Use this command to configure domain associations. Associated domains use the settings of the protected domains or subdomains with which they are associated.

Domain associations can be useful for saving time when you have multiple domains for which you would otherwise need to configure protected domains with identical settings.

For example, if you have one SMTP server handling email for ten domains, you could create ten separate protected domains, and configure each with identical settings. Alternatively, you could create one protected domain, listing the nine remaining domains as domain associations. The advantage of using the second method is that you do not have to repeatedly configure the same things when creating or modifying the protected domains, saving time and reducing chances for error. Changes to one protected domain automatically apply to all of its associated domains.

Exceptions to settings that associated domains will re-use include DKIM keys and signing settings. Domain keys are by nature tied to the exact protected domain only, and cannot be used for any other protected domain, including associated domains.

Alternatively, you can configure LDAP queries to automatically add domain associations. For details, see [system link-monitor on page 275](#).

Syntax

```
config domain-association
edit <domain-association_fqdn> on page 107
set main-domain <protected-domain_name> on page 107
next
end
```

Variable	Description	Default
<domain-association_fqdn>	Enter the fully qualified domain name (FQDN) of a mail domain that you want to use the same settings as the same protected domain.	No default.
<protected-domain_name>	Enter the name of the protected domain. The associated domain will use the settings of this domain.	No default.

Related topics

[system link-monitor on page 275](#)

file content-disarm-reconstruct

HTML contents in email bodies and attachments may contain potentially hazardous tags and attributes, such as hyperlinks and scripts. FortiMail provides the ability to remove or neutralize these hazardous contents and reconstruct the email message and attachment files.

Syntax

```
config file content-disarm-reconstruct
  set component-type-options {office-action | ... | pdf-javascript} on page 108
end
```

Variable	Description	Default
{office-action ... pdf-javascript}	Enter the potentially hazardous content you wish to remove or neutralize from email messages and attachment files.	No default.

file decryption password

For password-protected PDF and archive attachments, if you want to decrypt and scan them, you can specify what kind of passwords you want to use to decrypt the files.

Syntax

```
config file decryption password
  edit <table_value> on page 108
    set password on page 108
end
```

Variable	Description	Default
<table_value>	Enter the table value you want to add or edit.	No default.
password	Enter the password you want to use to decrypt the file.	No default

file filter

File filters are used in the attachment scan rules. File filters defines the email attachment file types and file extensions to be scanned.

Syntax

```
config file filter
  edit <filter_type> on page 109
    set description on page 109
    set extension on page 109
    set mime-type on page 109
  end
```

Variable	Description	Default
<filter_type>	Enter the file attachment executable type to filter by.	No default.
description	Enter the description of the attachment filter.	No default.
extension	Enter the file extension, such as .exe or .dll.	
mime-type	Enter the mime type such as image or png.	

file signature

If you already have the SHA-1 (Secure Hash Algorithm 1) hash values of some known virus-infected files, you can add these values as file signatures and then, in the antivirus profile, enable the actions against these files. Use this command to add or edit the file signatures.

Syntax

```
config file signature
  edit <signature_type> on page 109
    set comments on page 109
    set status {enable | disable} on page 109
    set type on page 109
  end
```

Variable	Description	Default
<signature_type>	Enter the file signature ID.	No default.
comments	Enter the general comments for the file signature.	No default.
status {enable disable}	Enable or disable the signature check.	
type	Enter the type of signature.	

log setting remote

Use this command to configure storing log messages remotely, on a Syslog server or FortiAnalyzer unit.

Syntax

```
config log setting remote
edit <log-destination_index> on page 110
    set comma-separated-value {enable | disable} on page 110
    set encryption-log-status {enable | disable} on page 110
    set event-log-category {admin configuration ha | imap pop3 smtp system update
        webmail} on page 110
    set event-log-status {enable | disable} on page 111
    set facility {alert | audit | auth | authpriv | clock | cron | daemon | ftp |
        kern | local0 | local1 | local2 | local3 | local4 | local5 | local6 |
        local7 | lpr | mail | news | ntp} on page 111
    set history-log-status {enable | disable} on page 111
    set loglevel {alert | critical | debug | emergency | error | information |
        notification | warning} on page 111
    set port <port_int> on page 112
    set protocol {syslog | cftps} on page 112
    set server <log_ipv4> on page 112
    set spam-log-status {enable | disable} on page 112
    set status {enable | disable} on page 112
    set virus-log-status {enable | disable} on page 112
end
```

Variable	Description	Default
<log-destination_index>	Type an index number to identify which remote Syslog server or FortiAnalyzer unit you are configuring.	No default.
comma-separated-value {enable disable}	Enable if you want to send log messages in comma-separated value (CSV) format. Note: Do not enable this option if the log destination is a FortiAnalyzer unit. FortiAnalyzer units do not support CSV format logs.	disable
encryption-log-status {enable disable}	Enable or disable IBE event logging to a remote Syslog server or FortiAnalyzer unit.	disable
event-log-category {admin configuration ha imap pop3 smtp system update webmail}	Type all of the log types and subtypes that you want to record to this storage location. Separate each type with a space. admin: Log all administrative events, such as logins, resets, and configuration updates. configuration: Enable to log configuration changes. ha: Log all high availability (HA) activity. imap: Log all IMAP events. pop3: Log all POP3 events. smtp: Log all SMTP relay or proxy events.	No default.

Variable	Description	Default
	<p><code>system</code>: Log all system-related events, such as rebooting the FortiMail unit.</p> <p><code>update</code>: Log both successful and unsuccessful attempts to download FortiGuard updates.</p> <p><code>webmail</code>: Log all FortiMail webmail events.</p>	
<code>event-log-status</code> {enable disable}	Enable or disable event logging to a remote Syslog server or FortiAnalyzer unit.	disable
<code>facility</code> {alert audit auth authpriv clock cron daemon ftp kern local0 local1 local2 local3 local4 local5 local6 local7 lpr mail news ntp}	<p>Type the facility identifier that the FortiMail unit will use to identify itself when sending log messages to the first Syslog server.</p> <p>To easily identify log messages from the FortiWeb unit when they are stored on the Syslog server, enter a unique facility identifier, and verify that no other network devices use the same facility identifier.</p>	kern
<code>history-log-status</code> {enable disable}	Enable to log both successful and unsuccessful attempts by the built-in MTA or proxies to deliver email.	disable
<code>loglevel</code> {alert critical debug emergency error information notification warning}	<p>Type one of the following severity levels:</p> <p> alert critical debug emergency error information notification warning </p> <p>This log destination will receive log messages greater than or equal to this severity level.</p>	information

Variable	Description	Default
port <port_int>	If the remote host is a FortiAnalyzer unit, type 514. If the remote host is a Syslog server, type the UDP port number on which the Syslog server listens for connections.	514
protocol {syslog cftps}	Enter the protocol used for remote logging.	syslog
server <log_ipv4>	Type the IP address of the Syslog server or FortiAnalyzer unit.	No default.
spam-log-status {enable disable}	Enable to log all antispam events.	disable
status {enable disable}	Enable to send log messages to a remote Syslog server or FortiAnalyzer unit.	disable
virus-log-status {enable disable}	Enable to log all antivirus events.	disable

Related topics

[log setting local on page 112](#)

[log alertemail recipient on page 115](#)

[log alertemail setting on page 115](#)

log setting local

Use this command to configure storing log messages to the local hard disk.

Syntax

```
config log setting local
    set antispam-log-status {enable | disable} on page 113
    set antivirus-log-status {enable | disable} on page 113
    set disk-full {overwrite | nolog} on page 113
    set encryption-log-status {enable | disable} on page 113
    set event-log-category {admin configuration ha | imap pop3 smtp system update
        webmail} on page 113
    set event-log-status {enable | disable} on page 113
    set history-log-status {enable | disable} on page 113
    set loglevel {alert | critical | debug | emergency | error | information |
        notification | warning} on page 113
    set retention-period <days> on page 114
    set rotation-hour <hour_int> on page 114
    set rotation-size <file-size_int> on page 114
    set rotation-period <days_int> on page 114
    set status {enable | disable} on page 114
    set sysevent-log-category on page 114
    set system-event-log-status on page 114
```


end

Variable	Description	Default
antispam-log-status {enable disable}	Enable to log all antispam events.	enable
antivirus-log-status {enable disable}	Enable to log all antivirus events.	enable
disk-full {overwrite nolog}	Enter the action the FortiMail unit will perform when the local disk is full and a new log message is caused. overwrite: Delete the oldest log file in order to free disk space, and store the new log message. nolog: Discard the new log message.	overwrite
encryption-log-status {enable disable}	Enable to log all IBE events.	enable
event-log-category {admin configuration ha imap pop3 smtp system update webmail}	Type all of the log types and subtypes that you want to record to this storage location. Separate each type with a space. admin: Log all administrative events, such as logins, resets, and configuration updates. configuration: Enable to log configuration changes. ha: Log all high availability (HA) activity. imap: Log all IMAP events. pop3: Log all POP3 events. smtp: Log all SMTP relay or proxy events. system: Log all system-related events, such as rebooting the FortiMail unit. update: Log both successful and unsuccessful attempts to download FortiGuard updates. webmail: Log all FortiMail webmail events.	No default.
event-log-status {enable disable}	Enable or disable event logging to the local hard disk.	enable
history-log-status {enable disable}	Enable to log both successful and unsuccessful attempts by the built-in MTA or proxies to deliver email.	disable
loglevel {alert critical debug emergency error information notification warning}	Type one of the following severity levels: alert critical debug emergency error	information

Variable	Description	Default
	<p>information notification warning</p> <p>This log destination will receive log messages greater than or equal to this severity level.</p>	
retention-period <days>	Specify how long to keep the logs. Valid range is 1 to 1461 days. Default value is 0, which means no limit.	0
rotation-hour <hour_int>	Enter the hour of the day when the rotation should start.	0
rotation-size <file-size_int>	<p>Enter the maximum size of the current log file in megabytes (MB). When the log file reaches either the maximum size or age, the log file is rolled (that is, the current log file is saved to a file with a new name, and a new log file is started).</p> <p>Starting from 5.2.4 release, the maximum allowed size is 500 MB. Before that, it was 1,000 MB.</p>	20
rotation-period <days_int>	<p>Enter the maximum age of the current log file in days.</p> <p>When the log file reaches either the maximum size or age, the log file is rolled (that is, the current log file is saved to a file with a new name, and a new log file is started).</p>	10
status {enable disable}	Enable to send log types which are enabled to the local hard disk.	enable
sysevent-log-category	System event log categories	
system-event-log-status	Enable/disable system event log	disable

Related topics

[log setting remote on page 110](#)

[log alertemail recipient on page 115](#)

[log alertemail setting on page 115](#)

log alertemail recipient

Use this command to add up to three email addresses that will receive alerts.

Before the FortiMail unit can send alert email messages, you must configure it with one or more recipients.

You must also configure which categories of events will cause the FortiMail unit to send alert email message. For more information, see [log alertemail setting on page 115](#).

Syntax

```
config log alertemail recipient
  edit <recipient_email> on page 115
  next
end
```

Variable	Description	Default
<recipient_email>	Type an email address that will receive alert email.	No default.

Example

The following example configures alert email to be sent to three email addresses.

```
config log alertemail recipient
  edit admin@example.com
  next
  edit support@example.com
  next
  edit helpdesk@example.com
  next
end
```

Related topics

[log setting remote on page 110](#)

[log setting local on page 112](#)

[log alertemail setting on page 115](#)

log alertemail setting

Use this command to configure which events will cause the FortiMail unit to send an alert email message.

Before the FortiMail unit can send an alert email message, you must select the event or events that will cause it to send an alert.

You must also configure alert email message recipients. For more information, see [log alertemail recipient on page 115](#).

Syntax

```
config log alertemail setting
    set categories {archivefailure critical deferq dictionary diskfull ha incidents
        quotafull systemquarantine} on page 116
    set deferq-interval <interval_int> on page 116
    set deferq-trigger <trigger_int> on page 116
    set license-interval <integer> on page 116
end
```

Variable	Description	Default
categories {archivefailure critical deferq dictionary diskfull ha incidents quotafull systemquarantine}	<p>Enter a list of one or more of the following event types that will cause alert email:</p> <p>archivefailure: Email archiving to the remote host has failed.</p> <p>critical: The FortiMail unit has detected a system error.</p> <p>deferq: The deferred mail queue has exceeded the number of messages during the interval specified in deferq-interval <interval_int> on page 116 and deferq-trigger <trigger_int> on page 116.</p> <p>dictionary: The dictionary database is corrupt.</p> <p>diskfull: The FortiMail unit's hard disk is full.</p> <p>ha: A high availability (HA) event such as failover has occurred.</p> <p>incidents: The FortiMail unit has detected a virus. Separate each option with a space.</p> <p>quotafull: An email user account has reached its disk space quota.</p> <p>systemquarantine: The system quarantine has reached its disk space quota.</p>	critical
deferq-interval <interval_int>	Enter the interval in minutes between checks of deferred queue size. This can be any number greater than zero.	30
deferq-trigger <trigger_int>	Enter the size that the deferred email queue must reach to cause an alert email to be sent. The valid range is 1 to 99999.	10000
license-interval <integer>	Enter the number of days (1-100) the FortiGuard license is to expire. An alert email is sent on the expiry day.	30

Related topics

[log setting remote on page 110](#)

[log setting local on page 112](#)

[log alertemail recipient on page 115](#)

mailsetting host-mapping

Use this command to configure local host name mapping for email routing.

Syntax

```
config mailsetting host-mapping
  edit <host_name> on page 117
    set name <name_string> on page 117
    set mapped-host <host_name_string> on page 117
  end
```

Variable	Description	Default
<host_name>	Enter the local host name.	
name <name_string>	Enter the name for host mapping.	
mapped-host <host_name_string>	Enter the IPaddress or host name of mapped host.	

Related topics

[log setting remote on page 110](#)

[log setting local on page 112](#)

[log alertemail recipient on page 115](#)

mailsetting mail-scan-options

Use this command to configure how to scan the compressed files.

Syntax

```
config mailsetting mail-scan-options
  set decompress-max-level <level_1_to_16> on page 117
  set decompress-max-size <size_in_MB> on page 118
  set scan-timeout-action {tempfail | passthrough} on page 118
  set scan-timeout-value <time-in-seconds> on page 118
end
```

Variable	Description	Default
decompress-max-level <level_1_to_16>	Specify how many levels to decompress the archived files for antivirus and content scan. Valid range is from 1 to 36.	12

Variable	Description	Default
decompress-max-size <size_in_MB>	Specify the maximum file size to scan after the archived files are decompressed. This applies to every single file after decompression. Bigger files will not be scanned.	10
scan-timeout-action {tempfail passthrough}	When the email attachments are large and the email scanning has timed out, FortiMail can either send a temporary fail message to the sender or just let the message pass through without further scanning.	tempfail
scan-timeout-value <time-in-seconds>	Specify how long in seconds FortiMail should spend on scanning email contents. The valid range is between 270 and 900 seconds. When the specified timeout has been reached, FortiMail will take the action specified above.	285

Related topics

[mailsetting relay-host-list on page 121](#)

[mailsetting storage central-quarantine on page 125](#)

[mailsetting storage central-quarantine on page 125](#)

[mailsetting systemquarantine on page 129](#)

mailsetting preference

When you configure antispam, antivirus, and content action profiles, you may use the following actions:

- Deliver to alternate host
- Deliver to original host
- System quarantine
- Personal quarantine

For the above actions, you can choose to deliver or quarantine the original email or the modified email. For example, when the HTML content is converted to text, if you choose to deliver the unmodified copy, the HTML version will be delivered; if you choose to deliver the modified copy, the plain text version will be delivered.

Syntax

```
config mailsetting preference
    set deliver-to-alternate-host {modified_copy | unmodified_copy} on page 119
    set deliver-to-original-host {modified_copy | unmodified_copy} on page 119
    set enforce-delivery on page 119
    set personal-quarantine {modified_copy | unmodified_copy} on page 119
    set personal-quarantine-attachment-scan on page 119
    set system-quarantine {modified_copy | unmodified_copy} on page 119
end
```

Variable	Description	Default
deliver-to-alternate-host {modified_copy unmodified_copy}	Specify to use the modified email or the unmodified email.	modified_copy
deliver-to-original-host {modified_copy unmodified_copy}	Specify to use the modified email or the unmodified email.	modified_copy
enforce-delivery	Enforce delivery action if delivery to original/alternative host is enabled	disable
personal-quarantine {modified_copy unmodified_copy}	Specify to use the modified email or the unmodified email.	modified_copy
personal-quarantine-attachment-scan	Enable or disable attachment scan for personal quarantined spam messages.	disable
system-quarantine {modified_copy unmodified_copy}	Specify to use the modified email or the unmodified email.	modified_copy

mailsetting proxy-smtp

Use this command to configure using the outgoing proxy instead of the built-in MTA for outgoing SMTP connections.



This command applies only if the FortiMail unit is operating in transparent mode.

Syntax

```
config mailsetting proxy-smtp
    set proxy-original {enable | disable} on page 119
end
```

Variable	Description	Default
proxy-original {enable disable}	Enable to, for outgoing SMTP connections, use the outgoing proxy instead of the built-in MTA.	disable

Variable	Description	Default
	<p>This allows the client to send email using the SMTP server that they specify, rather than enforcing the use of the FortiMail unit's own built-in MTA. The outgoing proxy will refuse the connection if the client's specified destination SMTP server is not available. In addition, it will not queue email from the SMTP client, and if the client does not successfully complete the connection, the outgoing proxy will simply drop the connection, and will not retry. Since authentication profiles may not successfully complete, the outgoing proxy will also ignore any authentication profiles that may be configured in the IP-based policy. The built-in MTA would normally apply authentication on behalf of the SMTP server, but the outgoing proxy will instead pass any authentication attempts through to the SMTP server, allowing it to perform its own authentication.</p> <p>Disable to relay email using the built-in MTA to either the SMTP relay defined in mailsetting relay-host-list on page 121, if any, or directly to the MTA that is the mail exchanger (MX) for the recipient email address's (RCPT TO:) domain. The email may not actually travel through the unprotected SMTP server, even though it was the relay originally specified by the SMTP client. For details, see the FortiMail Administration Guide.</p> <p>Disclaimer messages require that this option be enabled. For more information, see system disclaimer on page 239.</p> <p>Caution: If this option is enabled, consider also enabling session-prevent-open-relay {enable disable} on page 220. Failure to do so could allow clients to use open relays.</p> <p>Note: If this option is disabled, and an SMTP client is configured to authenticate, you must configure and apply an authentication profile. Without the profile, authentication with the built-in MTA will fail. Also, the mail server must be explicitly configured to allow relay from the built-in MTA in this case.</p> <p>Note: If this option is enabled, you will not be able to use IP pools. For more information, see profile ip-pool on page 189.</p> <p>Note: For security reasons, this option does not apply if there is no session profile selected in the applicable IP-based policy. For more information on configuring IP policies, see config policy delivery-control on page 139.</p>	

Related topics

[mailsetting relay-host-list on page 121](#)

[mailsetting storage central-quarantine on page 125](#)

[mailsetting storage central-quarantine on page 125](#)

[mailsetting systemquarantine on page 129](#)

mailsetting relay-host-list

Use this command to configure the FortiMail unit's built-in MTA's connection to an SMTP relay, if any, to which the FortiMail unit will relay outgoing email. You can configure up to eight relays.

This is typically provided by your Internet service provider (ISP), but could be a mail relay on your internal network.

If the SMTP relay's domain name resolves to more than one IP address, for each SMTP session, the FortiMail unit will randomly select one of the IP addresses from the result of the DNS query, effectively load balancing between the SMTP relays.

If you do not configure a relay server, for outgoing email delivered by the built-in MTA, the FortiMail unit will instead query the DNS server for the MX record of the mail domain in the recipient's email address (RCPT TO:), and relay the email directly to that mail gateway.

You can also use MX records and IP groups as relay types.

For details, see the [FortiMail Administration Guide](#).



This option will be ignored for email that matches an antispam or content profile where you have enabled `alternate-host {<relay_fqdn> | <relay_ipv4>}` on [page 156](#).

Syntax

```
config mailsetting relay-host-list
  edit <relay-host-name> on page 122
    set auth-password <password_str> on page 122
    set auth-status {enable | disable} on page 122
    set auth-type {auto | plain | login | digest-md5 | cram-md5} on page 122
    set auth-username <user_str> on page 122
    set host-name on page 122
    set host-port on page 122
    set ip-group-profile on page 122
    set mx-lookup-domain-name on page 122
    set relay-type on page 122
    set server-name <relay_fqdn> on page 122
    set server-port <port_int> on page 122
    set smtps {enable | disable} on page 122
  end
```

Variable	Description	Default
<relay-host-name>	Enter the host name or IP address of the relay server.	
auth-password <password_str>	If auth-status {enable disable} on page 122 is <code>enable</code> , enter the password of the FortiMail unit's user account on the SMTP relay.	No default.
auth-status {enable disable}	Enable if the SMTP relay requires authentication using the SMTP AUTH command. Also configure auth-username <user_str> on page 122 , auth-password <password_str> on page 122 , and auth-type {auto plain login digest-md5 cram-md5} on page 122 .	disable
auth-type {auto plain login digest-md5 cram-md5}	If auth-status {enable disable} on page 122 is <code>enable</code> , enter either the SMTP authentication type required by the SMTP relay when the FortiMail unit sends the ESMTP AUTH command, or enter <code>auto</code> to automatically detect and use the most secure authentication type supported by the relay server.	auto
auth-username <user_str>	If auth-status {enable disable} on page 122 is <code>enable</code> , enter the name of the FortiMail unit's user account on the SMTP relay.	No default.
host-name	Enter the relay host ip or host name.	
host-port	Enter the host port number.	
ip-group-profile	Enter an IP group profile.	
mx-lookup-domain-name	Enter the domain name for MX record lookup.	
relay-type	Enter the smtp relay type: host, ip-group, or mx-lookup.	
server-name <relay_fqdn>	Enter the fully qualified domain name (FQDN) of the SMTP relay.	No default.
server-port <port_int>	Enter the TCP port number on which the SMTP relay listens.	25
smtps {enable disable}	Enable to initiate SSL- and TLS-secured connections to the SMTP relay if it supports SSL/TLS. When disabled, SMTP connections from the FortiMail unit's built-in MTA or proxy to the relay will occur as clear text, unencrypted. This option must be enabled to initiate SMTPS connections.	disable

Related topics

[mailsetting proxy-smtp on page 119](#)

[mailsetting storage central-quarantine on page 125](#)

[mailsetting storage central-quarantine on page 125](#)

[mailsetting systemquarantine on page 129](#)

mailsetting email-addr-handling

Use this command to rewrite the unqualified sender addresses -- unqualified email address is a string without @ sign, such `abc`. If this feature is enabled, the Envelope sender (`MAIL FROM:`) will be rewritten to `abc@host.domain`, while the Header `From` and `Reply-to` will be rewritten to `abc@domain`. Host is the host name attribute of the FortiMail unit and domain is the local domain name attribute of the FortiMail unit.

Set the email address (sender and recipient) parsing mode -- Strict mode requires that the local parts of the Envelope sender (`MAIL FROM:`) and the Envelope recipient (`RCPT TO:`) strictly follow the RFC requirements; Relaxed mode allows non-RFC compliant local parts, such as email addresses containing multiple consecutive "." in the local parts or before "@". For example, `user...name@example.com`, and `username...@example.com`.

Syntax

```
config mailsetting email-addr-handling
    set rewrite-unqualified-sender-addr {enable | disable} on page 123
    set email-addr-parsing-mode {strict | relaxed} on page 123
end
```

Variable	Description	Default
<code>rewrite-unqualified-sender-addr {enable disable}</code>	Enable or disable the unqualified email sender address rewriting feature.	disable
<code>email-addr-parsing-mode {strict relaxed}</code>	Set the parsing mode to strict or relaxed.	strict

mailsetting smtp-rcpt-verification

Microsoft Office 365 does not accept a blank `MAIL FROM:`, which is the FortiMail default setting for SMTP recipient verification. Use this command to add an envelope from address to solve the problem.

Syntax

```
config mailsetting smtp-rcpt-verification
    set mail-from-addr <email_address> on page 123
end
```

Variable	Description	Default
<code>mail-from-addr <email_address></code>	Specify the envelope <code>MAIL FROM:</code> address to use.	

mailsetting storage central-ibe

Use this command to configure storage of IBE encrypted email.

To reduce the storage resources required on lower-end FortiMail units, you can configure them to store encrypted email on a high-end FortiMail unit that you have configured to act as a centralized storage server.

Syntax

```
config mailsetting storage central-ibe
    set remote-storage-type {disable | from-client | to-server-over-ssl} on page 124
    set client-ip <client_ipv4> on page 124
    set server-name <name_str> on page 125
    set server-host <server_ipv4> on page 125
end
```

Variable	Description	Default
remote-storage-type {disable from-client to-server-over-ssl}	<p>Enter one of the following centralized IBE types:</p> <ul style="list-style-type: none"> disable: Centralized IBE storage is disabled. The FortiMail unit stores its IBE messages locally, on its own hard disks. from-client: Select this option to allow the FortiMail unit to act as a central IBE storage server and receive IBE email from the client FortiMail units. Also configure <code>client-ip <client_ipv4></code> for each FortiMail client. Note this feature is only available on the high-end FortiMail models (FortiMail 1000D and above). to-server-over-ssl: Select this option to allow the FortiMail unit to act as a central IBE storage client and send its IBE messages to the remote FortiMail server. Also configure <code>server-name <name_str></code> and <code>server-host <server_ipv4></code>. All FortiMail units can act as clients. 	disable
client-ip <client_ipv4>	<p>Enter the IP address of the FortiMail unit that is allowed to store its IBE email on this high-end FortiMail unit.</p> <p>For FortiMail 1000D, 2000A, 2000B, and VM04 models, you can enter a maximum of 10 IP addresses as clients. For FortiMail 3000C and above models, you can enter a maximum of 20 IP addresses.</p> <p>This variable applies only if <code>remote-storage-type</code> is <code>from-client</code>.</p>	No default.

Variable	Description	Default
client-ip <client_ipv4>	Enter the IP address of the FortiMail unit that is acting as a client. This variable applies only if <code>remote-storage-type</code> is <code>from-client</code> .	No default.
server-name <name_str>	Enter the name of the FortiMail unit that is acting as the central IBE storage server. This name may be the host name or any other name that uniquely identifies the central quarantine server. This variable applies only if <code>remote-storage-type</code> is <code>to-server-over-ssl</code> .	No default.
server-host <server_ipv4>	Enter the IP address of the FortiMail unit that is acting as the central IBE storage server. This variable applies only if <code>remote-storage-type</code> is <code>to-server-over-ssl</code> .	No default.

mailsetting storage central-quarantine

Use this command to configure centralized storage of quarantined email. This command is only available on high-end models.

To reduce the storage resources required on lower-end FortiMail units, you can configure them to store quarantined email on a high-end FortiMail unit that you have configured to act as a centralized quarantine server.

Syntax

```
config mailsetting storage central-quarantine
    set remote-storage-type {disable | from-client | to-server-plain | to-server-over-ssl | unknown} on page 125
    set client-ip <client_ipv4> on page 126
    set server-name <name_str> on page 126
    set server-host <server_ipv4> on page 127
end
```

Variable	Description	Default
remote-storage-type {disable from-client to-server-plain to-server-over-ssl unknown}	Enter one of the following centralized quarantine types: <ul style="list-style-type: none"> disable: Centralized quarantine storage is disabled. The FortiMail unit stores its quarantines locally, on its own hard disks. from-client: Select this option to allow the FortiMail unit to act as a central quarantine server and receive quarantined messages from other client FortiMail units. Also configure <code>client-ip <client_ipv4></code> of the FortiMail clients. Note this feature is only available on the high-end FortiMail models (FortiMail 1000D and above). 	disable

Variable	Description	Default
	<ul style="list-style-type: none"> <code>to-server-over-plain</code>: Select this option to allow the FortiMail unit to act as a central quarantine client and send quarantined messages to the remote server in plain text. Also configure <code>server-name <name_str></code> and <code>server-host <server_ipv4></code> of the remote server. All FortiMail units can act as clients. <code>to-server-over-ssl</code>: Same as <code>to-server-plain</code>, except the connection uses SSL. <code>unknown</code>: Centralized quarantine storage is unknown. 	
<code>client-ip <client_ipv4></code>	<p>Enter the IP address of the FortiMail unit that is allowed to store its quarantined email on this high-end FortiMail unit.</p> <p>For FortiMail 1000D, 2000A, 2000B, and VM04 models, you can enter a maximum of 10 IP addresses as clients. For FortiMail 3000C and above models, you can enter a maximum of 20 IP addresses.</p> <p>This variable applies only if <code>remote-storage-type</code> is <code>from-client</code>.</p>	No default.
<code>client-ip <client_ipv4></code>	<p>Enter the IP address of the FortiMail unit that is acting as a client.</p> <p>This variable applies only if <code>remote-storage-type</code> is <code>from-client</code>.</p>	No default.
<code>server-name <name_str></code>	<p>Enter the name of the FortiMail unit that is acting as the central quarantine server. This name may be the host name or any other name that uniquely identifies the central quarantine server.</p>	No default.

Variable	Description	Default
	This variable applies only if <code>remote-storage-type</code> is <code>to-server</code> .	
<code>server-host <server_ipv4></code>	Enter the IP address of the FortiMail unit that is acting as the central quarantine server. This variable applies only if <code>remote-storage-type</code> is <code>to-server</code> .	No default.

Related topics

[mailsetting proxy-smtp on page 119](#)

[mailsetting relay-host-list on page 121](#)

[mailsetting storage central-quarantine on page 125](#)

[mailsetting systemquarantine on page 129](#)

[mailsetting storage central-quarantine on page 125](#)

mailsetting storage config

Use these commands to configure the FortiMail unit to store mail data such as queues and email user mailboxes either on its local hard disks, or on a network file storage (NFS or iSCSI) server.

If the FortiMail unit is operating in an HA group, remote storage may be required or recommended. For more information, see the [FortiMail Administration Guide](#).

Syntax

```
config mailsetting storage config
    set encryption-key on page 128
    set folder <folder_str> on page 128
    set host <host_str> on page 128
    set iscsi-id <id_str> on page 128
    set nfs-version {auto | nfs-v3 | nfs-v4} on page 128
    set password <password_str> on page 128
    set port <port_int> on page 128
    set protocol {nfs | iscsi_server} on page 128
    set type {local | remote} on page 128
    set username <user-name_str> on page 128
end
```

Variable	Description	Default
encryption-key	Enter the key that will be used to encrypt data stored on the iSCSI server. Valid key lengths are between 6 and 64 single-byte characters. Applies only when <code>protocol</code> is <code>iscsi_server</code> .	
folder <folder_str>	Enter the directory path of the NFS export on the NAS server where the FortiMail unit will store email. Applies only when <code>protocol</code> is <code>nfs</code> .	
host <host_str>	Enter the IP address or fully qualified domain name (FQDN) of the NFS or iSCSI server.	
iscsi-id <id_str>	Enter the iSCSI identifier in the format expected by the iSCSI server, such as an iSCSI Qualified Name (IQN), Extended Unique Identifier (EUI), or T11 Network Address Authority (NAA). Applies only when <code>protocol</code> is <code>iscsi_server</code> .	
nfs-version (auto nfs-v3 nfs-v4)	Use this command to control supported NFS versions. This command is helpful when NFS version 4 causes problems, you can specify to use NFS version 3.	auto
password <password_str>	Enter the password of the FortiMail unit's account on the iSCSI server. Applies only when <code>protocol</code> is <code>iscsi_server</code> .	
port <port_int>	Enter the TCP port number on which the NFS or iSCSI server listens for connections.	0
protocol {nfs iscsi_server}	Select the type of the NAS server: <code>nfs</code> : A network file system (NFS) server. If you select this option, enter the following information: <code>iscsi_server</code> : An Internet SCSI (Small Computer System Interface), also called iSCSI, server. If you select this option, enter the following information:	nfs
type {local remote}	Select whether to store email locally or on an NFS server.	local
username <user-name_str>	Enter the user name of the FortiMail unit's account on the iSCSI server. Applies only when <code>protocol</code> is <code>iscsi_server</code> .	

Related topics

[mailsetting proxy-smtp on page 119](#)

[mailsetting relay-host-list on page 121](#)

[mailsetting storage central-quarantine on page 125](#)

[mailsetting systemquarantine on page 129](#)

mailsetting systemquarantine

Use this command to configure the system quarantine account settings.

For more information on the system quarantine administrator account, see the [FortiMail Administration Guide](#).

Syntax

```
config mailsetting systemquarantine
  set account <name_str> on page 129
  set password <password_str> on page 129
  set forward-address <recipient_str> on page 129
  set rotation-period <day_integer> on page 129
  set rotation-status {enable | disable} on page 129
end
```

Variable	Description	Default
account <name_str>	Enter the name for the system quarantine administrator account. Surround the account name with single quotes.	systemquarantine
password <password_str>	Enter the password for the system quarantine administrator account. Surround the password with single quotes. The password may be entered either literally, or as a pre-encoded string prefixed with "Enc <string>".	forti12356net
forward-address <recipient_str>	Enter an email address to which all messages diverted to the system quarantine will be copied. Surround the email address with single quotes.	
rotation-period <day_integer>	Enter the period in days when the FortiMail unit rotates the current system quarantine folder ("Inbox"). When the folder reaches this period, the FortiMail unit renames the current folder based upon its creation date and rename date, and creates a new "Inbox" folder.	7
rotation-status {enable disable}	Enable or disable folder rotation.	enable

Related topics

[mailsetting proxy-smtp on page 119](#)

[mailsetting relay-host-list on page 121](#)

[mailsetting storage central-quarantine on page 125](#)

[mailsetting storage central-quarantine on page 125](#)

o365 account

Use this command to connect to Office 365 to access the user mailboxes. You must have domain administrator privileges to access Office 365.

Syntax

```
config o365 account
  edit <name> on page 130
    set tenant <password> on page 130
    set description <string> on page 130
  end
```

Variable	Description	Default
<name>	Enter the name of the account profile.	
tenant <password>	Enter the Office 365 tenant credentials.	
description <string>	Enter a brief description of the account.	

o365 profile action

Use this command to apply specific actions the unit takes when encountering an infected email. The actions applied on Office 365 are different from those applied on the FortiMail unit itself.

Syntax

```
config o365 profile action
  edit <name> on page 130
    set final-action on page 131
    set notification-profile on page 131
    set notification-status {enable | disable} on page 131
    set replace-message on page 131
    set replace-status {enable | disable} on page 131
  end
```

Variable	Description	Default
<name>	Enter the name of the action profile or create a new one.	
final-action	Enter one of the following final actions to perform on infected emails: None: No action is taken. Discard: Move the email message from the user's inbox to the Junk folder on Office 365. Personal Quarantine: Create a bulk folder for the user on Office 365 and move the email message from the user's inbox to their Bulk folder. System Quarantine: Send a copy to the FortiMail system quarantine folder and move the email message from the user's inbox to the Deleted items folder in Office 365.	
notification-profile	Enter to send out notifications to the recipients specified in the notification profile.	
notification-status {enable disable}	Enable or disable the notification.	disable
replace-message	Enter to replace the email's contents with a replacement message.	
replace-status {enable disable}	Enable or disable the content replacement.	

o365 profile antispam

Use this command to configure the antispam profile for the administrator account of the Office 365 domain.

See [profile antispam on page 145](#) for more details on commands and descriptions.

o365 profile antivirus

Use this command to create antivirus profiles that you can select in a policy in order to scan email for viruses for the administrator account of the Office 365 domain.

See [profile antivirus on page 159](#) for more details on commands and descriptions.

o365 profile content

Use this command to create content profiles, which you can use to match email based upon its subject line, message body, and attachments.

See [profile content on page 171](#) for more details on commands and descriptions.

o365 profile dlp

Use this command after you configure the scan rules/conditions. Add the scan rules/conditions to the DLP profiles. In the profiles, you also specify what actions to take. Then you apply the DLP profiles to the IP or recipient based policies.

See [profile dlp](#) for more details on commands and descriptions.

policy access-control receive

Use this command to configure access control rules that apply to SMTP sessions being **received** by the FortiMail unit.

Access control rules, sometimes also called the access control list or ACL, specify whether the FortiMail unit will process and relay/proxy, reject, or discard email messages for SMTP sessions that are initiated by SMTP clients.

When an SMTP client attempts to deliver email through the FortiMail unit, the FortiMail unit compares each access control rule to the commands used by the SMTP client during the SMTP session, such as the envelope's sender email address (`MAIL FROM:`), recipient email address (`RCPT TO:`), authentication (`AUTH`), and TLS (`STARTTLS`). Rules are evaluated for a match in the order of their list sequence, from top to bottom. If all the attributes of a rule match, the FortiMail unit applies the action selected in the matching rule to the SMTP session, and no subsequent access control rules are applied.

Only one access control rule is ever applied to any given SMTP session.



If no access control rules are configured, or no matching access control rules exist, **and** if the SMTP client is not configured to authenticate, the FortiMail unit will perform the default action, which varies by whether or not the recipient email address in the envelope (`RCPT TO:`) is a member of a protected domain.

For protected domains, the default action is **RELAY**.

For **unprotected** domains, the default action is **REJECT**.

Without any configured access control rules, the FortiMail unit's access control prevents SMTP clients from using your protected server or FortiMail unit as an open relay: senders can deliver email incoming to protected domains, but cannot deliver email outgoing to unprotected domains.

If you want to allow SMTP clients such as your email users or email servers to send email to unprotected domains, you must configure at least one access control rule.

You may need to configure additional access control rules if, for example, you want to:

- discard or reject email from or to some email addresses, such as email addresses that no longer exist in your protected domain
- discard or reject email from some SMTP clients, such as a spammer that is not yet known to blacklists

Like IP-based policies, access control rules can reject connections based upon IP address.

Unlike IP-based policies, however, access control rules **cannot** affect email in ways that occur after the session's `DATA` command, such as by applying antispam profiles. Access control rules also cannot be overruled by recipient-based policies, and cannot match connections based upon the IP address of the SMTP server. (By the nature of how the ACL controls access to or through the FortiMail unit, the SMTP server is always the FortiMail unit itself, **unless** the FortiMail unit is operating in transparent mode.) For more information on IP-based policies, see the [FortiMail Administration Guide](#).

Syntax

```
config policy access-control receive
edit <rule_id> on page 133
    set action {bypass | discard | reject | relay} on page 133
    set authenticated {any | authenticated | not-authenticated} on page 133
    set comment <string> on page 134
    set recipient-pattern <pattern_str> on page 134
    set recipient-pattern-type {default | group | regexp} on page 134
    set recipient-pattern-regexp {yes | no} on page 134
    set recipient-pattern-group <group_name> on page 134
    set reverse-dns-pattern <pattern_str> on page 134
    set reverse-dns-pattern-regexp {yes | no} on page 135
    set sender-ip-group <ip_group_name> on page 135
    set sender-ip-mask <ip&netmask_str> on page 135
    set sender-ip-type {ip-group | ip-mask} on page 136
    set sender-pattern <pattern_str> on page 136
    set sender-pattern-type {default | group | regexp} on page 136
    set sender-pattern-group <group_name> on page 136
    set sender-pattern-regexp {yes | no} on page 136
    set status {enable | disable} on page 136
    set tls-profile <profile_str> on page 136
end
```

Variable	Description	Default
<rule_id>	Enter the number identifying the rule.	
action {bypass discard reject relay}	<p>Enter the action the FortiMail unit will perform for SMTP sessions matching this access control rule.</p> <p>bypass: Relay or proxy and deliver the email, but, if the sender or recipient belongs to a protected domain, bypass all antispam profile processing. Antivirus, content and other scans will still occur.</p> <p>discard: Accept the email, but silently delete it and do not deliver it. Do not inform the SMTP client.</p> <p>reject: Reject delivery of the email and respond to the SMTP client with SMTP reply code 550 (Relaying denied).</p> <p>relay: Relay or proxy, process, and deliver the email normally if it passes all configured scans.</p>	relay
authenticated {any authenticated not-authenticated}	Enter a value to indicate whether this rule applies only to messages delivered by clients that have authenticated with the FortiMail unit.	authenticated

Variable	Description	Default
	<p>any: Match or do not match this access control rule regardless of whether the client has authenticated with the FortiMail unit.</p> <p>authenticated: Match this access control rule only for clients that have authenticated with the FortiMail unit.</p> <p>not-authenticated: Match this access control rule only for clients that have not authenticated with the FortiMail unit.</p>	
comment <string>	Enter any comments for access control rules for receiving email.	
recipient-pattern <pattern_str>	Enter a pattern that defines recipient email addresses which match this rule, surrounded in slashes and single quotes (such as <code>\ '*' \'</code>).	*
recipient-pattern-type {default group regexp}	<p>Enter the pattern type.</p> <p>default: This is the user defined pattern. Also configure <code>recipient-pattern <pattern_str></code> on page 134.</p> <p>group: If you enter this option, configure <code>recipient-pattern-group <group_name></code> on page 134.</p> <p>regexp: If you enter this option, configure <code>recipient-pattern-regexp {yes no}</code> on page 134.</p>	default
recipient-pattern-regexp {yes no}	<p>Enter yes to use regular expression syntax instead of wildcards to specify the recipient pattern.</p> <p>This option is available only when <code>recipient-pattern-type {default group regexp}</code> on page 134 is regexp.</p>	no
recipient-pattern-group <group_name>	<p>Enter the group name to specify the recipient pattern.</p> <p>This option is available only when <code>recipient-pattern-type {default group regexp}</code> on page 134 is group.</p>	
reverse-dns-pattern <pattern_str>	<p>Enter a pattern to compare to the result of a reverse DNS look-up of the IP address of the SMTP client delivering the email message. Because domain names in the SMTP session are self-reported by the connecting SMTP server and easy to fake, the FortiMail unit does not trust the domain name that an SMTP server reports. Instead, the FortiMail does a DNS lookup using the SMTP server's IP address. The resulting domain name is compared to the reverse DNS pattern for a match. If the reverse DNS query fails, the access control rule match will also fail. If no other access control rule matches, the connection will be rejected with SMTP reply code 550 (Relaying denied).</p>	*

Variable	Description	Default
	<p>Wildcard characters allow you to enter partial patterns that can match multiple reverse DNS lookup results. An asterisk (*) represents one or more characters; a question mark (?) represents any single character.</p> <p>For example, the recipient pattern <code>mail*.com</code> will match messages delivered by an SMTP server whose domain name starts with "mail" and ends with ".com".</p> <p>Note: Reverse DNS queries for access control rules require that the domain name be a valid top level domain (TLD). For example, ".lab" is not a valid top level domain name, and thus the FortiMail unit cannot successfully perform a reverse DNS query for it.</p>	
<code>reverse-dns-pattern-regexp {yes no}</code>	Enter <code>yes</code> to use regular expression syntax instead of wildcards to specify the reverse DNS pattern.	<code>no</code>
<code>sender-ip-group <ip_group_name></code>	<p>Enter the IP group of the SMTP client attempting to deliver the email message.</p> <p>This option only appears if you enter <code>ip-group</code> in <code>sender-ip-type {ip-group ip-mask}</code> on page 136.</p>	
<code>sender-ip-mask <ip&netmask_str></code>	<p>Enter the IP address and netmask of the SMTP client attempting to deliver the email message. Use the netmask, the portion after the slash (/), to specify the matching subnet.</p> <p>For example, enter <code>10.10.10.10/24</code> to match a 24-bit subnet, or all addresses starting with 10.10.10. This will appear as 10.10.10.0/24 in the access control rule table, with the 0 indicating that any value is matched in that position of the address.</p> <p>Similarly, <code>10.10.10.10/32</code> will appear as <code>10.10.10.10/32</code> and match only the 10.10.10.10 address.</p> <p>To match any address, enter <code>0.0.0.0/0</code>.</p>	<code>0.0.0.0 0.0.0.0</code>

Variable	Description	Default
sender-ip-type {ip-group ip-mask}	Select the method of the SMTP client attempting to deliver the email message. Also configure sender-ip-mask <ip&netmask_str> on page 135 and sender-ip-group <ip_group_name> on page 135.	ip-mask
sender-pattern <pattern_str>	Enter a pattern that defines sender email addresses which match this rule, surrounded in slashes and single quotes (such as <code>\ '*\ '</code>). This option is only available if you enter <code>default</code> in sender-pattern-type {default group regexp} on page 136.	*
sender-pattern-type {default group regexp}	Enter the pattern type. default: This is the user defined pattern. Also configure sender-pattern <pattern_str> on page 136. group: If you enter this option, configure sender-pattern-group <group_name> on page 136. regexp: If you enter this option, configure sender-pattern-regexp {yes no} on page 136.	default
sender-pattern-group <group_name>	Enter the group name to match any email address in the group. This option is only available if you enter <code>group</code> in sender-pattern-type {default group regexp} on page 136.	
sender-pattern-regexp {yes no}	Enter <code>yes</code> to use regular expression syntax instead of wildcards to specify the sender pattern. This option is only available if you enter <code>regexp</code> in sender-pattern-type {default group regexp} on page 136.	no
status {enable disable}	Enter <code>enable</code> to activate this rule.	enable
tls-profile <profile_str>	Enter a TLS profile to allow or reject the connection based on whether the communication session attributes match the settings in the TLS profile. If the attributes match, the access control action is executed. If the attributes do not match, the FortiMail unit performs the Failure action configured in the TLS profile. For more information on TLS profiles, see the FortiMail Administration Guide .	

Related topics

[policy access-control delivery on page 137](#)

[config policy delivery-control on page 139](#)

[policy recipient on page 142](#)

policy access-control delivery

Use this command to configure delivery rules that apply to SMTP sessions being **initiated** by the FortiMail unit in order to deliver email.

Delivery rules enable you to require TLS for the SMTP sessions the FortiMail unit initiates when sending email to other email servers. They also enable you to apply identity-based encryption (IBE) in the form of secure MIME (S/MIME).

When initiating an SMTP session, the FortiMail unit compares each delivery rule to the domain name portion of the envelope recipient address (RCPT TO:), and to the IP address of the SMTP server receiving the connection. Rules are evaluated for a match in the order of their list sequence, from top to bottom. If a matching delivery rule does not exist, the email message is delivered. If a match is found, the FortiMail unit compares the TLS profile settings to the connection attributes and the email message is sent or the connection is not allowed, depending on the result; if an encryption profile is selected, its settings are applied. No subsequent delivery rules are applied. Only one delivery rule is ever applied to any given SMTP session.

Syntax

```
config policy access-control delivery
edit <rule_id> on page 137
    set comment <string> on page 137
    set destination <ip&netmask_str> on page 137
    set encryption-profile <profile_str> on page 138
    set ip-pool-profile on page 138
    set recipient-pattern <pattern_str> on page 138
    set sender-pattern <pattern_str> on page 138
    set status {enable | disable} on page 138
    set tls-profile <profile_str> on page 138
end
```

Variable	Description	Default
<rule_id>	Enter the number identifying the rule.	
comment <string>	Enter any comments for email delivery rules.	
destination <ip&netmask_str>	<p>Enter the IP address and netmask of the system to which the FortiMail unit is sending the email message. Use the netmask, the portion after the slash (/) to specify the matching subnet.</p> <p>For example, enter 10.10.10.10/24 to match a 24-bit subnet, or all addresses starting with 10.10.10. This will appear as 10.10.10.0/24 in the access control rule table, with the 0 indicating that any value is matched in that position of the address.</p> <p>Similarly, 10.10.10.10/32 will appear as 10.10.10.10/32 and match only the 10.10.10.10 address.</p> <p>To match any address, enter 0.0.0.0/0.</p>	0.0.0.0 0.0.0.0

Variable	Description	Default
encryption-profile <profile_str>	Enter an encryption profile to apply identity-based encryption, if a corresponding sender identity exists in the certificate bindings. For more information on encryption profiles, see the FortiMail Administration Guide .	
ip-pool-profile	Enter the name of the IP pool profile. The IP pool profile will deliver incoming emails from FortiMail to the protected server.	
recipient-pattern <pattern_str>	Enter a complete or partial envelope recipient (RCPT TO:) email address to match. Wild card characters allow you to enter partial patterns that can match multiple recipient email addresses. The asterisk (*) represents one or more characters and the question mark (?) represents any single character. For example, the recipient pattern *@example.??? will match messages sent to any email user at example.com, example.net, example.org, or any other "example" domain ending with a three-letter top-level domain name.	
recipient-pattern-type	Enter the type of recipient pattern.	
sender-pattern <pattern_str>	Enter a complete or partial envelope sender (MAIL FROM:) email address to match. Wild card characters allow you to enter partial patterns that can match multiple sender email addresses. The asterisk (*) represents one or more characters and the question mark (?) represents any single character. For example, the sender pattern ??@*.com will match messages sent by any email user with a two letter email user name from any ".com" domain name.	
sender-pattern-type	Enter the type of the sender-pattern.	
status {enable disable}	Enter <code>enable</code> to activate this rule.	disable
tls-profile <profile_str>	Enter a TLS profile to allow or reject the connection based on whether the communication session attributes match the settings in the TLS profile. If the attributes match, the access control action is executed. If the attributes do not match, the FortiMail unit performs the Failure action configured in the TLS profile. For more information on TLS profiles, see the FortiMail Administration Guide .	

Related topics

[o365 profile antivirus on page 131](#)

[config policy delivery-control on page 139](#)

[policy recipient on page 142](#)

policy delivery-control

Use this command to configure email delivery control options.

Syntax

```
config policy delivery-control
  edit <delivery rule id>
    set max-concurrent-connection on page 139
    set max-messages-per-connection on page 139
    set max-recipients-per-period on page 139
    set recipient-domain on page 139
    set status {enable | disable} on page 139
  end
```

Variable	Description	Default
max-concurrent-connection	Enter the maximum concurrent smtp connections (0 to disable).	
max-messages-per-connection	Enter the maximum messages per smtp connection (0 to disable).	
max-recipients-per-period	Enter the maximum recipients per period (0 to disable).	
recipient-domain	Enter the recipient domain.	
status {enable disable}	Enable the rule.	
file_name <file_str>	Enter the name of the language resource file, such as 'custom_french1'.	No default.

policy ip

Use this command to create policies that apply profiles to SMTP connections based upon the IP addresses of SMTP clients and/or servers.

Syntax

```
config policy ip
  edit <policy_int> on page 140
```

```

set action {proxy-bypass | reject | scan | temp-fail} on page 140
set client-ip-group <group_name> on page 140
set client <client_ipv4mask> on page 140
set client-type {ip-address | ip-group | ip-pool} on page 140
set comment on page 141
set exclusive {enable | disable} on page 141
set profile-antispam <antispam-profile_name> on page 141
set profile-antivirus <antivirus-profile_name> on page 141
set sensitive-data on page 88
set profile-content <content-profile_name> on page 141
set profile-dlp on page 141
set profile-ip-pool <ip-pool_name> on page 141
set profile-session <session-profile_name> on page 141
set server-ip-group <group_name> on page 141
set server <smtp-server_ipv4mask> on page 141
set server-ip-pool <ip-pool_str> on page 141
set server-type {ip-address | ip-group | ip-pool} on page 142
set smtp-diff-identity {enable | disable} on page 142
set smtp-diff-identity-ldap on page 142
set smtp-diff-identity-ldap-profile on page 142
set status {enable | disable} on page 142
set use-for-smtp-auth {enable | disable} on page 142
end

```

Variable	Description	Default
<policy_int>	Enter the index number of the IP-based policy.	
action {proxy-bypass reject scan temp-fail}	<p>Enter an action for this policy:</p> <p>Proxy-bypass: Bypass the FortiMail unit's scanning. This action is for transparent mode only.</p> <p>scan: Accept the connection and perform any scans configured in the profiles selected in this policy.</p> <p>reject: Reject the email and respond to the SMTP client with SMTP reply code 550, indicating a permanent failure.</p> <p>Fail Temporarily: Reject the email and respond to the SMTP client with SMTP reply code 451, indicating and indicate a temporary failure.</p>	scan
client-ip-group <group_name>	<p>Enter the IP group of the SMTP client to whose connections this policy will apply.</p> <p>This option only appears if you enter ip-group in <code>client-type {ip-address ip-group ip-pool}</code> on page 140.</p>	
client <client_ipv4mask>	<p>Enter the IP address and subnet mask of the SMTP client to whose connections this policy will apply.</p> <p>To match all clients, enter 0.0.0.0/0.</p>	192.168.224.15 255.255.255.255
client-type {ip-address ip-group ip-pool}	Enter the client type.	ip-address

Variable	Description	Default
comment	Enter a brief comment for the IP policy.	
exclusive {enable disable}	Enable to omit evaluation of matches with recipient-based policies, causing the FortiMail unit to disregard applicable recipient-based policies and apply only the IP-based policy. Disable to apply any matching recipient-based policy in addition to the IP-based policy. Any profiles selected in the recipient-based policy will override those selected in the IP-based policy.	disable
profile-antispam <antispam-profile_name>	Enter the name of an outgoing antispam profile, if any, that this policy will apply.	
profile-antivirus <antivirus-profile_name>	Enter the name of an antivirus profile, if any, that this policy will apply.	
profile-auth-type {imap ldap none pop3 radius smtp}	Enter the type of the authentication profile that this policy will apply. The command <code>profile-auth-<auth_type></code> appears for the type chosen. Enter the name of an authentication profile for the type.	
profile-content <content-profile_name>	Enter the name of the content profile that you want to apply to connections matching the policy.	
profile-dlp	Enter the name of the DLP profile for this policy.	
profile-ip-pool <ip-pool_name>	Enter the name of the IP pool profile that you want to apply to connections matching the policy.	
profile-session <session-profile_name>	Enter the name of the session profile that you want to apply to connections matching the policy.	
server-ip-group <group_name>	Enter the name of the IP group profile that you want to apply to connections matching the policy. This option is only available when the <code>server-type</code> is <code>ip-group</code> .	
server <smtp-server_ipv4mask>	Enter the IP address and subnet mask of the SMTP server to whose connections this policy will apply. To match all servers, enter <code>0.0.0.0/0</code> . This option applies only for FortiMail units operating in transparent mode. For other modes, the FortiMail unit receives the SMTP connection, and therefore acts as the server.	0.0.0.0 0.0.0.0
server-ip-pool <ip-pool_str>	Enter the name of the ip pool to whose connections this policy will apply. This option is only available when the <code>server-type</code> is <code>ip-pool</code> .	

Variable	Description	Default
server-type {ip-address ip-group ip-pool}	Enter the SMTP server type o whose connections this policy will apply. Also configure <code>server <smtp-server_ipv4mask></code> on page 141, <code>server-ip-group <group_name></code> on page 141, and <code>server-ip-pool <ip-pool_str></code> on page 141.	ip-address
smtp-diff-identity {enable disable}	Enable to allow the SMTP client to send email using a different sender email address (MAIL FROM:) than the user name that they used to authenticate. Disable to require that the sender email address in the SMTP envelope match the authenticated user name.	disable
smtp-diff-identity-ldap	Verify SMTP sender identity with LDAP for authenticated email.	disable
smtp-diff-identity-ldap-profile	LDAP profile for SMTP sender identity verification.	disable
status {enable disable}	Enable to apply this policy.	enable
use-for-smtp-auth {enable disable}	Enable to authenticate SMTP connections using the authentication profile configured in sensitive-data on page 88 .	disable

Related topics

[o365 profile antivirus on page 131](#)

[policy access-control delivery on page 137](#)

[policy recipient on page 142](#)

policy recipient

Use this command to create recipient-based policies based on the inbound or outbound directionality of an email message with respect to the protected domain.

Syntax

```
config policy recipient
edit <policy_int> on page 143
    set auth-access-options {pop3 | smtp-auth | smtp-diff-identity | web} on page 143
    set certificate-required {yes | no} on page 143
    set pkiauth {enable | disable} on page 143
    set pkiuser <user_str> on page 143
    set profile-antispam <antispam-profile_name> on page 143
    set profile-antivirus <antivirus-profile_name> on page 144
    set profile-auth-type {imap | ldap | none | pop3 | radius | smtp} on page 144
```

```

set profile-content <content-profile_name> on page 144
set profile-ldap <profile_name> on page 105
set recipient-domain <domain_str> on page 144
set recipient-name <local-part_str> on page 144
set recipient-type {ldap-group | local group| user} on page 144
set sender-domain <domain_str> on page 144
set sender-name <local-part_str> on page 144
set sender-type {ldap-group | local group| user} on page 144
set smtp-diff-identity {enable | disable} on page 144
set status {enable | disable} on page 145
end

```

Variable	Description	Default
<policy_int>	Enter the index number of the recipient-based policy.	
auth-access-options {pop3 smtp-auth smtp-diff-identity web}	<p>Enter the method that email users matching this policy use to retrieve the contents of their per-recipient spam quarantine.</p> <p>pop3: Allow the email user to use POP3 to retrieve the contents of their per-recipient spam quarantine.</p> <p>smtp-auth: Use the authentication server selected in the authentication profile when performing SMTP authentication for connecting SMTP clients.</p> <p>smtp-diff-identity: Allow email when the SMTP client authenticates with a different user name than the one that appears in the envelope's sender email address. You must also enter smtp-auth for this option to have any effect.</p> <p>web: Allow the email user to use FortiMail webmail (HTTP or HTTPS) to retrieve the contents of their per-recipient spam quarantine.</p> <p>Note: Entering this option allows, but does not require, SMTP authentication. To enforce SMTP authentication for connecting SMTP clients, ensure that all access control rules require authentication.</p>	
certificate-required {yes no}	If the email user's web browser does not provide a valid personal certificate, the FortiMail unit will fall back to standard user name and password-style authentication. To require valid certificates only and disallow password-style fallback, enter <code>yes</code> .	no
pkiauth {enable disable}	Enable if you want to allow email users to log in to their per-recipient spam quarantine by presenting a certificate rather than a user name and password.	disable
pkiauser <user_str>	If <code>pkiauth</code> is <code>enable</code> , enter the name of a PKI user, such as 'user1'. For information on configuring PKI users, see user pki on page 299 .	
profile-antispam <antispam-profile_name>	Enter the name of an antispam profile, if any, that this policy will apply.	

Variable	Description	Default
profile-antivirus <antivirus-profile_name>	Enter the name of an antivirus profile, if any, that this policy will apply.	
profile-auth-type {imap ldap none pop3 radius smtp}	Enter the type of the authentication profile that this policy will apply. The command <code>profile-auth-<auth_type></code> appears for the type chosen. Enter the name of an authentication profile for the type.	none
profile-content <content-profile_name>	Enter the name of the content profile that you want to apply to connections matching the policy.	
ldap_profile <ldap-profile_name>	If <code>recipient-type</code> or <code>sender-type</code> is <code>ldap-group</code> , enter the name of an LDAP profile in which the group owner query has been enabled and configured.	
recipient-domain <domain_str>	Enter the domain part of recipient email address to define recipient (<code>RCPT TO:</code>) email addresses that match this policy.	
recipient-name <local-part_str>	Enter the local part of recipient email address to define recipient (<code>RCPT TO:</code>) email addresses that match this policy.	
recipient-type {ldap-group local group user}	Enter one of the following ways to define recipient (<code>RCPT TO:</code>) email addresses that match this policy. If you enter <code>ldap-group</code> , also configure <code>profile-ldap</code> by entering an LDAP profile in which you have enabled and configured a group query.	user
sender-domain <domain_str>	Enter the domain part of sender email address to define sender (<code>MAIL FROM:</code>) email addresses that match this policy.	
sender-name <local-part_str>	Enter the local part of sender email address to define sender (<code>MAIL FROM:</code>) email addresses that match this policy.	
sender-type {ldap-group local group user}	Enter one of the following ways to define sender (<code>MAIL FROM:</code>) email addresses that match this policy. If you enter <code>ldap-group</code> , also configure <code>profile-ldap</code> by entering an LDAP profile in which you have enabled and configured a group query.	user
smtp-diff-identity {enable disable}	Enable to allow the SMTP client to send email using a different sender email address (<code>MAIL FROM:</code>) than the user name that they used to authenticate. Disable to require that the sender email address in the SMTP envelope match the authenticated user name. This option is applicable only if <code>smtp auth</code> is used.	enable

Variable	Description	Default
status {enable disable}	Enable to apply this policy.	enable

Related topics

[o365 profile antivirus on page 131](#)

[policy access-control delivery on page 137](#)

[config policy delivery-control on page 139](#)

profile antispam

Use this command to configure system-wide antispam profiles.

FortiMail units can use various methods to detect spam, such as the FortiGuard Antispam service, DNSBL queries, Bayesian scanning, and heuristic scanning. Antispam profiles contain settings for these features that you may want to vary by policy. Depending on the feature, before you configure antispam policies, you may need to enable the feature or configure its system-wide settings.

Syntax

```
config profile antispam
edit <profile_name> on page 147
    config bannedwords
        edit <word_str> on page 147
            set subject {enable | disable} on page 147
            set body {enable | disable} on page 147
        config dnsbl-server
            edit <server_name> on page 147
        config surbl-server
            edit <server_name> on page 147
        config whitelistwords
            edit <word_str> on page 147
                set subject {enable | disable} on page 147
                set body {enable | disable} on page 147
        set action-banned-word <action_profile> on page 147
        set action-bayesian <action-profile_name> on page 147
        set action-behavior-analysis <action-profile_name> on page 147
        set action-deep-header <action-profile_name> on page 147
        set action-default <action-profile_name> on page 148
        set action-dictionary <action-profile_name> on page 148
        set action-dmarc on page 148
        set action-fortiguard <action-profile_name> on page 148
        set action-fortiguard-blackip <action-profile-name> on page 148
        set action-fortiguard-phishing-uri <action-profile-name> on page 148
        set action-grey-list <action-profile_name> on page 148
        set action-heuristic <action-profile_name> on page 148
        set action-image-spam <action-profile_name> on page 148
```

```
set action-impersonation-analysis <action> on page 148
set action-newsletter <action-profile_name> on page 148
set action-rbl <action-profile_name> on page 148
set action-spf-fail <action> on page 148
set action-spf-neutral <action> on page 148
set action-spf-none <action> on page 148
set action-spf-pass <action> on page 149
set action-spf-perm-error <action> on page 149
set action-spf-sender-alignment <action> on page 149
set action-spf-soft-fail <action> on page 149
set action-spf-temp-error <action> on page 149
set action-surbl <action-profile_name> on page 149
set action-suspicious-newsletter <action-profile_name> on page 149
set action-uri-filter <action-profile_name> on page 149
set action-uri-filter-secondary <action-profile_name> on page 149
set action-virus <action-profile_name> on page 149
set aggressive {enable | disable} on page 149
set apply-action-default {enable | disable} on page 149
set banned-word {enable | disable} on page 149
set bayesian {enable | disable} on page 149
set behavior-analysis {enable | disable} on page 149
set bayesian-autotraining {enable | disable} on page 150
set bayesian-user-db {enable | disable} on page 150
set bayesian-usertraining {enable | disable} on page 150
set deepheader {enable | disable} on page 150
set deepheader-analysis {enable | disable} on page 150
set deepheader-check-ip {enable | disable} on page 150
set dict-score <score_int> on page 150
set dictionary {enable | disable} on page 150
set dictionary-profile on page 150
set dictionary-type on page 150
set dmarc-status {enable | disable} on page 150
set dnsbl {enable | disable} on page 151
set fortiguard-antispam {enable | disable} on page 151
set fortiguard-check-ip {enable | disable} on page 151
set fortiguard-phishing-uri {enable | disable} on page 151
set greylist {enable | disable} on page 151
set heuristic {enable | disable} on page 151
set heuristic-lower <threshold_int> on page 151
set heuristic-rules-percent <percentage_int> on page 151
set heuristic-upper {threshold_int} on page 151
set image-spam {enable | disable} on page 151
set impersonation on page 151
set impersonation-analysis {enable | disable} on page 152
set ip-reputation-level1-status {enable | disable} on page 152
set ip-reputation-level2-status {enable | disable} on page 152
set ip-reputation-level3-status {enable | disable} on page 152
set newsletter-status {enable | disable} on page 152
set scan-bypass-on-auth {enable | disable} on page 153
set scan-max-size <bytes_int> on page 153
set scan-pdf {enable | disable} on page 153
set spam-outbreak-protection {enable | disable} on page 153
set spf-checking {enable | disable} on page 154
set spf-fail-status {enable | disable} on page 152
set spf-neutral-status {enable | disable} on page 152
set spf-none-status {enable | disable} on page 152
set spf-pass-status {enable | disable} on page 152
```

```

set spf-perm-error-status {enable | disable} on page 153
set spf-soft-fail-status {enable | disable} on page 153
set spf-temp-error-status {enable | disable} on page 153
set surbl {enable | disable} on page 154
set suspicious-newsletter-status {enable | disable} on page 154
set uri-filter <filter> on page 154
set uri-filter-secondary <filter> on page 154
set uri-filter-secondary-status {enable | disable} on page 154
set uri-filter-status {enable | disable} on page 154
set virus {enable | disable} on page 155
set whitelist-enable {enable | disable} on page 155
set whitelist-word {enable | disable} on page 155
end

```

Variable	Description	Default
<profile_name>	Enter the name of an antispam profile.	
<word_str>	Enter the banned word. You can use wildcards in banned words. But regular expressions are not supported. For more information about wildcards and regular expressions, see the FortiMail Administration Guide .	
subject {enable disable}	Enable to check the subject line for the banned word.	disable
body {enable disable}	Enable to check the message body for the banned word.	disable
<server_name>	Enter a DNSBL server name to perform a DNSBL scan. The FortiMail unit will query DNS blacklist servers.	
<server_name>	Enter a SURBL server name to perform a SURBL scan. The FortiMail unit will query SURBL servers.	
<word_str>	Enter the whitelisted word to configure.	
subject {enable disable}	Enable to check the subject line for the whitelisted word.	disable
body {enable disable}	Enable to check the message body for the whitelisted word.	disable
action-banned-word <action_profile>	Enter the action profile that you want the FortiMail unit to use if the banned word scan determines that the email is spam.	
action-bayesian <action-profile_name>	Enter the action profile that you want the FortiMail unit to use if the Bayesian scan determines that the email is spam.	
action-behavior-analysis <action-profile_name>	Enter the action profile that you want the FortiMail unit to use if the behavior analysis scan determines that the email is spam.	
action-deep-header <action-profile_name>	Enter the action profile that you want the FortiMail unit to use if the deep header scan determines that the email is spam.	

Variable	Description	Default
action-default <action-profile_name>	Enter the default action profile that you want all scanners of the FortiMail unit to use. However, if you choose an action profile other than "default" for a scanner, this scanner will use the chosen profile.	
action-dictionary <action-profile_name>	Enter the action profile that you want the FortiMail unit to use if the heuristic scan determines that the email is spam.	
action-dmarc	Enter the action profile for DMARC check failure. If either SPF check or DKIM check passes, DMARC check will pass. If both fail, DMARC check fails.	
action-fortiguard <action-profile_name>	Enter the action profile that you want the FortiMail unit to use if the FortiGuard Antispam scan determines that the email is spam.	
action-fortiguard-blackip <action-profile-name>	Enter the action profile that you want the FortiMail unit to use if the FortiGuard black IP scan determines that the email is spam.	
action-fortiguard-phishing-uri <action-profile-name>	Enter the action profile that you want the FortiMail unit to use if the FortiGuard phishing URI scan determines that the email is spam.	
action-grey-list <action-profile_name>	Enter the action profile that you want the FortiMail unit to use if the grey list scan determines that the email is spam.	
action-heuristic <action-profile_name>	Enter the action profile that you want the FortiMail unit to use if the heuristic scan determines that the email is spam.	
action-impersonation-analysis <action>	Enter the action profile that you want the FortiMail unit to use if the impersonation analysis determines the email is from someone impersonating a known email address.	
action-image-spam <action-profile_name>	Enter the action profile that you want the FortiMail unit to use if the image scan determines that the email is spam.	
action-newsletter <action-profile_name>	Enter the action profile that you want the FortiMail unit to use if the newsletter scan determines that the email is spam.	
action-rbl <action-profile_name>	Enter the action profile that you want the FortiMail unit to use if the RBL scan determines that the email is spam.	
action-spf-fail <action>	Enter the action FortiMail performs if the SPF fails, which means the host is not authorized to send messages.	
action-spf-neutral <action>	Enter the action FortiMail performs if SPF neutral fails, which means the SPF record is found but no definitive assertion.	
action-spf-none <action>	Enter the action FortiMail performs if SPF none fails, which means there is no SPF record.	

Variable	Description	Default
action-spf-pass <action>	Enter the action FortiMail performs if SPF pass fails, which means it discovers the host is not authorized to send a message.	
action-spf-perm-error <action>	Enter the action FortiMail performs if SPF perm error fails, which means the SPF records are invalid.	
action-spf-sender-alignment <action>	Enter the action FortiMail performs if SPF sender alignment fails, which means the header from the subject authorization domain mismatch.	
action-spf-soft-fail <action>	Enter the action FortiMail takes if spf soft fail fails, which means the host is not authorized to send messages but not a strong statement.	
action-spf-temp-error <action>	Enter the action FortiMail performs if action SPF temp error fails, which means there is a processing error.	
action-surbl <action-profile_name>	Enter the action profile that you want the FortiMail unit to use if the SURBL scan determines that the email is spam.	
action-suspicious-newsletter <action-profile_name>	Enter the action profile that you want the FortiMail unit to use if the suspicious newsletter scan determines that the email is spam.	
action-uri-filter <action-profile_name>	Enter the action profile that you want the FortiMail unit to use if the URI filter scan determines that the email is spam.	
action-uri-filter-secondary <action-profile_name>	Enter the action profile that you want the FortiMail unit to use if the URI filter scan determines that the email is spam.	
action-virus <action-profile_name>	Enter the action profile that requires the FortiMail unit to treat messages with viruses as spam.	
aggressive {enable disable}	Enable this option to examine file attachments in addition to embedded images. To improve performance, enable this option only if you do not have a satisfactory spam detection rate.	disable
apply-action-default {enable disable}	Enable this option to apply default action to all messages.	disable
banned-word {enable disable}	Enable this option to scan banned words for this antispam profile.	disable
bayesian {enable disable}	Enable this option to activate Bayesian scan for this antispam profile.	disable
behavior-analysis {enable disable}	Enable this option to activate behavior analysis scan for this antispam profile.	disable

Variable	Description	Default
bayesian-autotraining {enable disable}	Enable to use FortiGuard Antispam and SURBL scan results to train per-user Bayesian databases that are not yet mature (that is, they have not yet been trained with 200 legitimate email and 100 spam in order to recognize spam).	enable
bayesian-user-db {enable disable}	Enable to use per-user Bayesian databases. If disabled, the Bayesian scan will use either the global or the per-domain Bayesian database, whichever is selected for the protected domain.	disable
bayesian-usertraining {enable disable}	Enable to accept email forwarded from email users to the Bayesian control email addresses in order to train the Bayesian databases to recognize spam and legitimate email.	enable
deepheader {enable disable}	Enable to perform extensive inspection of message headers. For more information, see “set as profile modify fortishield” on page 184 and “set as profile modify dnsbl” on page 181 .	disable
deepheader-analysis {enable disable}	Enable to inspect all message headers for known spam characteristics. If the FortiGuard Antispam scan is enabled, this option uses results from that scan, providing up-to-date header analysis. For more information, see “set as profile modify fortishield” on page 184 .	disable
deepheader-check-ip {enable disable}	Enable to query for the blacklist status of the IP addresses of all SMTP servers appearing in the <code>Received:</code> lines of header lines. If this option is disabled, the FortiMail unit checks only the IP address of the current SMTP client. This option applies only if you have also configured either or both FortiGuard Antispam scan and DNSBL scan. For more information, see “set as profile modify fortishield” on page 184 and “set as profile modify dnsbl” on page 181 .	disable
dict-score <score_int>	Enter the number of dictionary term matches above which the email will be considered to be spam.	
dictionary {enable disable}	Enable to perform a dictionary scan for this profile.	disable
dictionary-profile	Enter the dictionary profile name.	
dictionary-type	Enter the type of dictionary profile.	
dmARC-status {enable disable}	Enable to have the unit perform email authentication with SPF and DKIM checking. If either SPF check or DKIM check passes, DMARC check will pass. If both fail, DMARC fails.	disable

Variable	Description	Default
dnsbl {enable disable}	Enable to perform a DNSBL scan for this profile. The FortiMail unit will query DNS blacklist servers defined using “set out_profile profile modify deepheader” on page 405 .	disable
fortiguard-antispam {enable disable}	Enable to let the FortiMail unit query the FortiGuard Antispam service to determine if any of the uniform resource identifiers (URI) in the message body are associated with spam. If any URI is blacklisted, the FortiMail unit considers the email to be spam, and you can select the action that the FortiMail unit will perform.	disable
fortiguard-check-ip {enable disable}	Enable to include whether or not the IP address of the SMTP client is blacklisted in the FortiGuard Antispam query.	disable
fortiguard-phishing-uri {enable disable}	Enable to include whether or not the phishing URI is blacklisted in the FortiGuard Antispam query.	disable
greylist {enable disable}	Enable to perform a greylist scan.	disable
heuristic {enable disable}	Enable to perform a heuristic scan.	disable
heuristic-lower <threshold_int>	Enter the score equal to or below which the FortiMail unit considers an email to not be spam.	-20.000000
heuristic-rules-percent <percentage_int>	<p>Enter the percentage of the total number of heuristic rules that will be used to calculate the heuristic score for an email message.</p> <p>The FortiMail unit compares this total score to the upper and lower level threshold to determine if an email is:</p> <ul style="list-style-type: none"> • spam • not spam • indeterminable (score is between the upper and lower level thresholds) <p>To improve system performance and resource efficiency, enter the lowest percentage of heuristic rules that results in a satisfactory spam detection rate.</p>	100
heuristic-upper {threshold_int}	Enter the score equal to or above which the FortiMail unit considers an email to be spam.	10.000000
image-spam {enable disable}	Enable to perform an image spam scan.	disable
impersonation	Enter the impersonation profile used by this profile to prevent email spoofing attacks.	

Variable	Description	Default
impersonation-analysis {enable disable}	Enable sender impersonation analysis to automatically learn and track the mapping of display names and internal email addresses to prevent spoofing attacks.	disable
ip-reputation-level1-status {enable disable}	Enable IP reputation to enable the FortiMail unit to query the FortiGuard Antispam service to determine if the public IP address of the SMTP client is blocklisted. FortiGuard categorizes the blocklisted IP addresses into three levels, level 1 has the worst reputation and level 3 the best.	disable
ip-reputation-level2-status {enable disable}	Enable IP reputation to enable the FortiMail unit to query the FortiGuard Antispam service to determine if the public IP address of the SMTP client is blocklisted. FortiGuard categorizes the blocklisted IP addresses into three levels, level 1 has the worst reputation and level 3 the best.	disable
ip-reputation-level3-status {enable disable}	Enable IP reputation to enable the FortiMail unit to query the FortiGuard Antispam service to determine if the public IP address of the SMTP client is blocklisted. FortiGuard categorizes the blocklisted IP addresses into three levels, level 1 has the worst reputation and level 3 the best.	disable
newsletter-status {enable disable}	Enable detection of newsletters to make sure newsletters and other marketing campaigns are not spam.	
spf-fail-status {enable disable}	Enable to make the FortiMail unit check if the host is not authorized to send messages. If the client IP address fails the SPF check, FortiMail takes the antispam action entered in action-spf-fail.	
spf-neutral-status {enable disable}	Enable to make the FortiMail unit check if the SPF record is found but no definitive assertion. If the client IP address fails the SPF check, FortiMail takes the antispam action entered in action-spf-neutral.	
spf-none-status {enable disable}	Enable to make the FortiMail unit check if there is no SPF record. If the client IP address fails the SPF check, FortiMail takes the antispam action entered in action-spf-none.	
spf-pass-status {enable disable}	Enable to make the FortiMail unit check if the host is authorized to send messages. If the client IP address fails the SPF check, FortiMail takes the antispam action configured in action-spf-pass.	

Variable	Description	Default
spf-sender-alignment-status {enable disable}	Enable to make the FortiMail unit check if the header from the authorization domain is mismatched. If the client IP address fails the SPF check, FortiMail takes the desired action entered in action-spf-sender-alignment.	
spf-perm-error-status {enable disable}	Enable to make the FortiMail unit check if the SPF records are invalid. If the client IP address fails the SPF check, FortiMail takes the antispam action entered in action-spf-perm-error.	
spf-soft-fail-status {enable disable}	Enable to make the FortiMail unit check if the host is not authorized to send messages but not a strong statement. If the client IP address fails the SPF check, FortiMail takes the antispam action entered in action-spf-soft-fail.	
spf-temp-error-status {enable disable}	Enable to make the FortiMail unit check if there is a processing error. If the client IP address fails the SPF check, FortiMail takes the antispam action entered in action-spf-temp-error.	
scan-bypass-on-auth {enable disable}	Enable to omit antispam scans when an SMTP sender is authenticated.	disable
scan-max-size <bytes_int>	Enter the maximum size, in bytes, that the FortiMail unit will scan for spam. Messages exceeding the limit will not be scanned for spam. To scan all email regardless of size, enter 0.	1204 bytes for predefined profiles 600 bytes for user-defined profiles
scan-pdf {enable disable}	Enable to scan the first page of PDF attachments using heuristic, banned word, and image spam scans, if they are enabled.	disable
spam-outbreak-protection {enable disable}	Enable to temporarily hold suspicious email for a certain period of time (configure with CLI command “config system fortiguard antispam set outbreak-protection-period”, see system fortiguard antispam on page 249) if the enabled FortiGuard antispam check (block IP and/or URI filter) returns no result. After the specified time interval, FortiMail will query the FortiGuard server for the second time. This provides an opportunity for the FortiGuard antispam service to update its database in cases a spam outbreak occurs.	disable

Variable	Description	Default
spf-checking {enable disable}	<p>Enable to have the FortiMail unit perform the action configured in this antispam profile, instead of the action configured in the session profile. See spf-validation {enable disable} on page 221.</p> <p>Starting from 6.0.3 release, you can also specify different actions toward defferent SPS check results:</p> <ul style="list-style-type: none"> • spf-fail-status: the host is not authorized to send messages. • spf-soft-fail-status: the host is not authorized to send messages but not a strong statement. • spf-sender-alignment-status: Header From and authorization domain mismatch. • spf-perm-error-status: the SPF records are invalid. • spf-temp-error-status: Temporary proccessing error. • spf-pass-status: the host is authorized to send messages. • spf-neutral-status: SPF record is found but no definitive assertion. • spf-none-status: No SPF record. 	disable
surbl {enable disable}	Enable to perform a SURBL scan. The FortiMail unit will query SURBL servers defined using " set out_profile profile modify surblserver " on page 421 .	disable
suspicious-newsletter-status {enable disable}	Enable the detection of newsletters.	disable
uri-filter <filter>	Specify the URI filter to use.	
uri-filter-secondary <filter>	To take different actions towards different URI filters/categories, you can specify a primary and a secondary filter, and specify different actions for each filter. If both URI filters match an email message, the primary filter action will take precedence.	
uri-filter-secondary-status {enable disable}	Enable or disable the secondaryURI filter scan.	disable
uri-filter-status {enable disable}	Enable or disable URI filter scan.	disable

Variable	Description	Default
virus {enable disable}	Enable to treat email with viruses as spam. When enabled, instead of performing the action configured in the antivirus profile, the FortiMail unit will instead perform either the general or individualized action in the antispam profile. For details, see “set out_profile profile modify individualaction” on page 415 and “set out_profile profile modify actions” on page 400 .	disable
whitelist-enable {enable disable}	Enable to automatically update personal whitelist database from sent email.	disable
whitelist-word {enable disable}	Enable to perform a white list word scan. The scan will examine the email for words configured in “set out_profile profile modify whitelistwordlist” on page 426 .	disable

Related topics

[profile antispam-action on page 155](#)

[profile antivirus on page 159](#)

profile antispam-action

Use this command to configure antispam action profiles.

Syntax

```
config profile antispam-action
edit <profile_name> on page 156
    set action {discard | none | quarantine | quarantine-review | reject |
        rewrite-rcpt} on page 156
    set alternate-host {<relay_fqdn> | <relay_ipv4>} on page 156
    set alternate-host-status {enable | disable} on page 156
    set archive-account <account_name> on page 156
    set archive-status {enable | disable} on page 157
    set bcc-addr <recipient_email> on page 157
    set bcc-status {enable | disable} on page 157
    set deliver-to-original-host {enable | disable} on page 157
    set disclaimer-insertion {enable | disable} on page 157
    set disclaimer-insertion-content <message_name> on page 157
    set disclaimer-insertion-location {beginning | end} on page 157
    set header-insertion-name <name_str> on page 157
    set header-insertion-status {enable | disable} on page 158
    set header-insertion-value <header_str> on page 158
    set notification-profile <profile_name> on page 158
    set notification-status {enable | disable} on page 158
    set rewrite-rcpt-local-type {none | prefix | replace | suffix} on page 158
    set rewrite-rcpt-local-value <value_str> on page 158
    set rewrite-rcpt-domain-type {none-prefix | replace | suffix} on page 158
```

```
set rewrite-rcpt-domain-value <value_str> on page 159
end
```

Variable	Description	Default
<profile_name>	Enter the name of an antispam action profile.	
action {discard none quarantine quarantine-review reject rewrite-rcpt}	<p>Enter an action for the profile.</p> <p>discard: Enter to accept the email, but then delete it instead of delivering the email, without notifying the SMTP client.</p> <p>none: Apply any configured header or subject line tags, if any.</p> <p>quarantine: Enter to redirect spam to the per-recipient quarantine. For more information, see the FortiMail Administration Guide. This option is available only for incoming profiles.</p> <p>quarantine-review: Enter to redirect spam to the system quarantine. For more information, see the FortiMail Administration Guide.</p> <p>reject: Enter to reject the email and reply to the SMTP client with SMTP reply code 550.</p> <p>rewrite-rcpt: Enter to change the recipient address of any email message detected as spam. Configure rewrites separately for the local-part (the portion of the email address before the '@' symbol, typically a user name) and the domain part (the portion of the email address after the '@' symbol).</p> <p>If you enter this option, also configure rewrite-rcpt-local-type {none prefix replace suffix} on page 158, rewrite-rcpt-local-value <value_str> on page 158, rewrite-rcpt-domain-type {none-prefix replace suffix} on page 158, and rewrite-rcpt-domain-value <value_str> on page 159.</p>	none
alternate-host {<relay_fqdn> <relay_ipv4>}	<p>Type the fully qualified domain name (FQDN) or IP address of the alternate relay or SMTP server.</p> <p>This field applies only if <code>alternate-host-status</code> is <code>enable</code>.</p>	No default.
alternate-host-status {enable disable}	<p>Enable to route the email to a specific SMTP server or relay. Also configure alternate-host {<relay_fqdn> <relay_ipv4>} on page 156.</p> <p>Note: If you enable this setting, for all email that matches the profile, the FortiMail unit will use this destination and ignore mailsetting relay-host-list on page 121 and the protected domain's tp-use-domain-mta {yes no} on page 101.</p>	disable
archive-account <account_name>	<p>Type the email archive account name where you want to archive the spam.</p> <p>Enable archive-status {enable disable} on page 157 to make this function work.</p>	

Variable	Description	Default
	For more information about archive accounts, see antispam url-fgas-exempt-list on page 57.	
archive-status {enable disable}	Enable to allow the archive-account <account_name> on page 156 function to work.	disable
bcc-addr <recipient_email>	Type the BCC recipient email address. This field applies only if <code>bcc-status</code> is <code>enable</code> .	No default.
bcc-status {enable disable}	Enable to send a blind carbon copy (BCC) of the email. Also configure bcc-addr <recipient_email> on page 157.	disable
deliver-to-original-host {enable disable}	Enable to deliver the message to the original host.	disable
disclaimer-insertion {enable disable}	Enable to insert disclaimer.	disable
disclaimer-insertion-content <message_name>	Specify the content name to be inserted.	default
disclaimer-insertion-location {beginning end}	Insert the disclaimer at the	beginning
header-insertion-name <name_str>	<p>Enter the message header key. The FortiMail unit will add this text to the message header of the email before forwarding it to the recipient.</p> <p>Many email clients can sort incoming email messages into separate mailboxes, including a spam mailbox, based on text appearing in various parts of email messages, including the message header. For details, see the documentation for your email client.</p> <p>Message header lines are composed of two parts: a key and a value, which are separated by a colon. For example, you might enter:</p> <p><code>X-Custom-Header: Detected as spam by profile 22.</code></p> <p>If you enter a header line that does not include a colon, the FortiMail unit will automatically append a colon, causing the entire text that you enter to be the key.</p> <p>Note: Do not enter spaces in the key portion of the header line, as these are forbidden by RFC 2822.</p> <p>See header-insertion-value <header_str> on page 158.</p>	

Variable	Description	Default
header-insertion-status {enable disable}	Enable to add a message header to detected spam. See header-insertion-value <header_str> on page 158 .	disable
header-insertion-value <header_str>	<p>Enter the message header value.</p> <p>Message header lines are composed of two parts: a key and a value, which are separated by a colon. For example, you might enter:</p> <pre>X-Custom-Header: Detected as spam by profile 22.</pre> <p>If you enter a header line that does not include a colon, the FortiMail unit will automatically append a colon, causing the entire text that you enter to be the key.</p> <p>Note: Do not enter spaces in the key portion of the header line, as these are forbidden by RFC 2822.</p> <p>See header-insertion-name <name_str> on page 157.</p>	
notification-profile <profile_name>	Type the name of the notification profile used for sending notifications.	
notification-status {enable disable}	Enable sending notifications using a notification profile.	disable
rewrite-rcpt-local-type {none prefix replace suffix}	<p>Change the local part (the portion of the email address before the '@' symbol, typically a user name) of the recipient address of any email message detected as spam.</p> <p>none: No change.</p> <p>prefix: Enter to prepend the part with new text. Also configure rewrite-rcpt-local-value <value_str> on page 158.</p> <p>suffix: Enter to append the part with new text. Also configure rewrite-rcpt-local-value <value_str> on page 158.</p> <p>replace: Enter to substitute the part with new text. Also configure rewrite-rcpt-local-value <value_str> on page 158.</p>	none
rewrite-rcpt-local-value <value_str>	Enter the text for the option (except none) you choose in rewrite-rcpt-local-type {none prefix replace suffix} on page 158 .	
rewrite-rcpt-domain-type {none-prefix replace suffix}	<p>Change the domain part (the portion of the email address after the '@' symbol) of the recipient address of any email message detected as spam.</p> <p>none: No change.</p>	none

Variable	Description	Default
	<p>prefix: Enter to prepend the part with new text. Also configure rewrite-rcpt-domain-value <value_str> on page 159.</p> <p>suffix: Enter to append the part with new text. Also configure rewrite-rcpt-domain-value <value_str> on page 159.</p> <p>replace: Enter to substitute the part with new text. Also configure rewrite-rcpt-domain-value <value_str> on page 159.</p>	
<code>rewrite-rcpt-domain-value <value_str></code>	Enter the text for the option (except <code>none</code>) you choose in rewrite-rcpt-domain-type {none-prefix replace suffix} on page 158.	

Related topics

[profile antispam on page 145](#)

profile antivirus

Use this command to create antivirus profiles that you can select in a policy in order to scan email for viruses.

The FortiMail unit scans email header, body, and attachments (including compressed files, such as ZIP, PKZIP, LHA, ARJ, and RAR files) for virus infections. If the FortiMail unit detects a virus, it will take actions as you define in the antivirus action profiles.

Syntax

```
config profile antivirus
edit <profile_name> on page 160
    set action-default { predefined_av_discard | predefined_av_reject } on page 160
    set action-file-signature on page 160
    set action-heuristic {predefined_av_discard | predefined_av_reject} on page 160
    set action-outbreak <action> on page 160
    set action-sandbox-high <action> on page 160
    set action-sandbox-low <action> on page 160
    set action-sandbox-medium <action> on page 160
    set action-sandbox-virus <action> on page 160
    set action-sandbox-uri-high <action> on page 161
    set action-sandbox-uri-low <action> on page 161
    set action-sandbox-uri-medium <action> on page 161
    set action-sandbox-uri-virus <action> on page 161
    set file-signature-check {enable | disable} on page 161
    set grayware-scan {enable | disable} on page 161
```

```

set heuristic {enable | disable} on page 161
set malware-outbreak-protection {enable | disable} on page 161
set sandbox-analysis {enable | disable} on page 161
set sandbox-analysis-uri {enable | disable} on page 161
set sandbox-scan-mode {submit-and-wait | submit-only} on page 161
set scanner {enable | disable} on page 161

```

end

Variable	Description	Default
<profile_name>	Enter the name of the profile. To view a list of existing entries, enter a question mark (?).	
action-default { predefined_av_discard predefined_av_reject }	Type a predefined antivirus action. predefined_av_discard: Accept infected email, but then delete it instead of delivering the email, without notifying the SMTP client. predefined_av_reject: Reject infected email and reply to the SMTP client with SMTP reply code 550.	No default.
action-file-signature	Type a predefined scan for file signature action. predefined_av_discard: predefined_av_reject:	No default.
action-heuristic {predefined_av_discard predefined_av_reject }	Type a predefined heuristic scanning action on infected email. predefined_av_discard: Accept email suspected to be infected, but then delete it instead of delivering the email, without notifying the SMTP client. predefined_av_reject: Reject email suspected to be infected, and reply to the SMTP client with SMTP reply code 550.	No default.
action-outbreak <action>	Type to determine the action to take if the FortiSandbox analysis determines that the email message has an outbreak.	
action-sandbox-high <action>	Type to determine the action to take if the FortiSandbox attachment analysis determines that the email messages have high probability of viruses or other threat qualities.	default
action-sandbox-low <action>	Type to determine the action to take if the FortiSandbox attachment analysis determines that the email messages have low probability of viruses or other threat qualities.	default
action-sandbox-medium <action>	Type to determine the action to take if the FortiSandbox attachment analysis determines that the email messages have medium probability of viruses or other threat qualities.	default
action-sandbox-virus <action>	Type to determine the action to take if the FortiSandbox attachment analysis determines that the email messages definitely have viruses or other threat qualities.	default

Variable	Description	Default
action-sandbox-noresult <action>	Type to determine the action to take if the FortiSandbox attachment analysis returns no results.	None
action-sandbox-uri-high <action>	Type to determine the action to take if the FortiSandbox URI analysis determines that the email messages have high probability of viruses or other threat qualities.	default
action-sandbox-uri-low <action>	Type to determine the action to take if the FortiSandbox URI analysis determines that the email messages have low probability of viruses or other threat qualities.	default
action-sandbox-uri-medium <action>	Type to determine the action to take if the FortiSandbox URI analysis determines that the email messages have medium probability of viruses or other threat qualities.	default
action-sandbox-uri-virus <action>	Type to determine the action to take if the FortiSandbox URI analysis determines that the email messages definitely have viruses or other threat qualities.	default
action-sandbox-uri-noresult <action>	Type to determine the action to take if the FortiSandbox URI analysis returns no results.	None
file-signature-check {enable disable}	Enable to scan for file signatures.	disable
grayware-scan {enable disable}	Enable to scan for grayware as well when performing antivirus scanning.	enable
heuristic {enable disable}	Enable to use heuristics when performing antivirus scanning.	enable
malware-outbreak-protection {enable disable}	<p>Instead of using virus signatures, malware outbreak protection uses data analytics from the FortiGuard Service. For example, if a threshold volume of previously unknown attachments are being sent from known malicious sources, they are treated as suspicious viruses.</p> <p>This feature can help quickly identify new threats.</p> <p>Because the infected email is treated as virus, the virus replacement message will be used, if the replacement action is triggered.</p>	No default.
sandbox-analysis {enable disable}	Enable to send suspicious email attachments to FortiSandbox for inspection. For details about FortiSandbox, see system fortisandbox on page 251 .	disable
sandbox-analysis-uri {enable disable}	Enable or disable sending suspicious attachment content to FortiSandbox for analysis.	disable
sandbox-scan-mode {submit-and-wait submit-only}	Edits how the email is handled by the FortiSandbox	submit-and-wait
scanner {enable disable}	Enable to perform antivirus scanning for this profile.	disable

Related topics

profile antispam on page 145

profile antivirus-action

Use this command to configure antispam action profiles.

Syntax

```
config profile antivirus-action
edit <profile_name> on page 156
    set action {discard | none | quarantine | quarantine-review | reject |
        rewrite-rcpt} on page 156
    set alternate-host {<relay_fqdn> | <relay_ipv4>} on page 156
    set alternate-host-status {enable | disable} on page 156
    set archive-account <account_name> on page 156
    set archive-status on page 164
    set bcc-addr <recipient_email> on page 157
    set bcc-status {enable | disable} on page 157
    set deliver-to-original-host {enable | disable} on page 157
    set disclaimer-insertion {enable | disable} on page 157
    set disclaimer-insertion-content <message_name> on page 157
    set disclaimer-insertion-location {beginning | end} on page 157
    set header-insertion-name <name_str> on page 157
    set header-insertion-status {enable | disable} on page 158
    set header-insertion-value <header_str> on page 158
    set notification-profile <profile_name> on page 158
    set notification-status {enable | disable} on page 158
    set replace-infected-status on page 165
    set rewrite-rcpt-local-type {none | prefix | replace | suffix} on page 158
    set rewrite-rcpt-local-value <value_str> on page 158
    set rewrite-rcpt-domain-type {none-prefix | replace | suffix} on page 158
    set rewrite-rcpt-domain-value <value_str> on page 159
end
```

Variable	Description	Default
<profile_name>	Enter the name of an antispam action profile.	
action {discard none quarantine-review reject repackaging repackaging-with-cmsg replace-infected rewrite-rcpt}	<p>Enter an action for the profile.</p> <p>discard: Enter to accept the email, but then delete it instead of delivering the email, without notifying the SMTP client.</p> <p>none: Apply any configured header or subject line tags, if any.</p> <p>quarantine-review: Enter to redirect spam to the system quarantine. For more information, see the FortiMail Administration Guide.</p> <p>reject: Enter to reject the email and reply to the SMTP client with SMTP reply code 550.</p>	none

Variable	Description	Default
	<p><code>repackage</code>: Forward the infected email as an attachment but the original email body will still be used without modification.</p> <p><code>repackage-with-cmsg</code>: Forward the infected email as an attachment with the customized email body that you define in the custom email template. For example, in the template, you may want to say "The attached email is infected by a virus".</p> <p><code>replace-infected</code>: Replaces the infected file with a replacement message that notifies the email user the infected file was removed. You can customize replacement messages.</p> <p><code>rewrite-rcpt</code>: Enter to change the recipient address of any email message detected as spam. Configure rewrites separately for the local-part (the portion of the email address before the '@' symbol, typically a user name) and the domain part (the portion of the email address after the '@' symbol).</p> <p>If you enter this option, also configure <code>rewrite-rcpt-local-type</code> {none prefix replace suffix} on page 158, <code>rewrite-rcpt-local-value</code> <value_str> on page 158, <code>rewrite-rcpt-domain-type</code> {none-prefix replace suffix} on page 158, and <code>rewrite-rcpt-domain-value</code> <value_str> on page 159.</p>	
<code>alternate-host</code> {<relay_fqdn> <relay_ipv4>}	<p>Type the fully qualified domain name (FQDN) or IP address of the alternate relay or SMTP server.</p> <p>This field applies only if <code>alternate-host-status</code> is enable.</p>	No default.
<code>alternate-host-status</code> {enable disable}	<p>Enable to route the email to a specific SMTP server or relay. Also configure <code>alternate-host</code> {<relay_fqdn> <relay_ipv4>} on page 156.</p>	disable

Variable	Description	Default
	<p>Note: If you enable this setting, for all email that matches the profile, the FortiMail unit will use this destination and ignore mailsetting relay-host-list on page 121 and the protected domain's tp-use-domain-mta {yes no} on page 101.</p>	
archive-account	Enter the archive account.	
archive-status	Enable or disable message archiving.	disable
bcc-addr <recipient_email>	Type the BCC recipient email address. This field applies only if <code>bcc-status</code> is <code>enable</code> .	No default.
bcc-status {enable disable}	Enable to send a blind carbon copy (BCC) of the email. Also configure bcc-addr <recipient_email> on page 157 .	disable
deliver-to-original-host {enable disable}	Enable to deliver the message to the original host.	disable
disclaimer-insertion {enable disable}	Enable to insert disclaimer.	disable
disclaimer-insertion-content <message_name>	Specify the content name to be inserted.	default
disclaimer-insertion-location {beginning end}	Insert the disclaimer at the beginning or end.	beginning
header-insertion-name <name_str>	<p>Enter the message header key. The FortiMail unit will add this text to the message header of the email before forwarding it to the recipient.</p> <p>Many email clients can sort incoming email messages into separate mailboxes, including a spam mailbox, based on text appearing in various parts of email messages, including the message header. For details, see the documentation for your email client.</p> <p>Message header lines are composed of two parts: a key and a value, which are separated by a colon. For example, you might enter:</p> <pre>X-Custom-Header: Detected as spam by profile 22.</pre> <p>If you enter a header line that does not include a colon, the FortiMail unit will automatically append a colon, causing the entire text that you enter to be the key.</p> <p>Note: Do not enter spaces in the key portion of the header line, as these are forbidden by RFC 2822.</p> <p>See header-insertion-value <header_str> on page 158.</p>	

Variable	Description	Default
header-insertion-status {enable disable}	Enable to add a message header to detected spam. See header-insertion-value <header_str> on page 158 .	disable
header-insertion-value <header_str>	<p>Enter the message header value.</p> <p>Message header lines are composed of two parts: a key and a value, which are separated by a colon. For example, you might enter:</p> <p>X-Custom-Header: Detected as spam by profile 22.</p> <p>If you enter a header line that does not include a colon, the FortiMail unit will automatically append a colon, causing the entire text that you enter to be the key.</p> <p>Note: Do not enter spaces in the key portion of the header line, as these are forbidden by RFC 2822.</p> <p>See header-insertion-name <name_str> on page 157.</p>	
notification-profile <profile_name>	Type the name of the notification profile used for sending notifications.	
notification-status {enable disable}	Enable sending notifications using a notification profile.	disable
replace-infected-status	Enable or disable the option to replace infected body or attachment.	disable
rewrite-rcpt-local-type {none prefix replace suffix}	<p>Change the local part (the portion of the email address before the '@' symbol, typically a user name) of the recipient address of any email message detected as spam.</p> <p>none: No change.</p> <p>prefix: Enter to prepend the part with new text. Also configure rewrite-rcpt-local-value <value_str> on page 158.</p> <p>suffix: Enter to append the part with new text. Also configure rewrite-rcpt-local-value <value_str> on page 158.</p> <p>replace: Enter to substitute the part with new text. Also configure rewrite-rcpt-local-value <value_str> on page 158.</p>	none
rewrite-rcpt-local-value <value_str>	Enter the text for the option (except none) you choose in rewrite-rcpt-local-type {none prefix replace suffix} on page 158 .	
rewrite-rcpt-domain-type {none-prefix replace suffix}	<p>Change the domain part (the portion of the email address after the '@' symbol) of the recipient address of any email message detected as spam.</p> <p>none: No change.</p>	none

Variable	Description	Default
	<p>prefix: Enter to prepend the part with new text. Also configure rewrite-rcpt-domain-value <value_str> on page 159.</p> <p>suffix: Enter to append the part with new text. Also configure rewrite-rcpt-domain-value <value_str> on page 159.</p> <p>replace: Enter to substitute the part with new text. Also configure rewrite-rcpt-domain-value <value_str> on page 159.</p>	
rewrite-rcpt-domain-value <value_str>	Enter the text for the option (except <code>none</code>) you choose in rewrite-rcpt-domain-type {none-prefix replace suffix} on page 158 .	
subject-tagging-status {enable disable}	Enable to prepend text defined using subject-tagging-text <tag_str> on page 166 ("tag") to the subject line on detected spam.	disable
subject-tagging-text <tag_str>	Enter the text that will appear in the subject line of the email, such as "[SPAM] ". The FortiMail unit will prepend this text to the subject line of spam before forwarding it to the recipient.	

Related topics

[profile antivirus on page 159](#)

profile authentication

Use this command to configure the FortiMail unit to connect to an external SMTP server in order to authenticate email users.

FortiMail units support the following authentication methods:

- SMTP
- IMAP
- POP3
- RADIUS

When the FortiMail unit is operating in server mode, only local and RADIUS authentication are available.

In addition to authenticating email users for SMTP connections, SMTP profiles can be used to authenticate email users making webmail (HTTP or HTTPS) or POP3 connections to view their per-recipient quarantine, and when authenticating with another SMTP server to deliver email.

Depending on the mode in which your FortiMail unit is operating, you may be able to apply authentication profiles through inbound recipient-based policies, IP-based policies, and email user accounts.

For more information, see the [FortiMail Administration Guide](#).

Syntax

```
config profile authentication imap
edit <profile_name> on page 167
    set option {ssl secure tls senddomain} on page 168
    set port <port_int> on page 168
    set server {<fqdn_str> | <host_ipv4>} on page 168
config profile authentication pop3
edit <profile_name> on page 167
    set option {ssl secure tls senddomain} on page 168
    set port <port_int> on page 168
    set server {<fqdn_str> | <host_ipv4>} on page 168
config profile authentication radius
edit <profile_name> on page 167
    set access-override {enable | disable} on page 167
    set access-override-attribute <integer> on page 167
    set access-override-vendor <integer> on page 167
    set auth-prot {auto | chap | mschap | mschap2 | pap} on page 168
    set domain-override {enable | disable} on page 168
    set domain-override-attribute <integer> on page 168
    set domain-override-vendor <integer> on page 168
    set nas-ip <ip_addr> on page 169
    set port <port_int> on page 169
    set secret <password_str> on page 169
    set send-domain {enable | disable} on page 169
    set server {<fqdn_str> | <host_ipv4>} on page 169
config profile authentication smtp
edit <profile_name> on page 167
    set option {ssl secure tls senddomain} on page 169
    set server {<fqdn_str> | <host_ipv4>} on page 169
    set port <port_int> on page 169
    set try-ldap-mailhost {enable | disable} on page 169

end
```

Variable	Description	Default
<profile_name>	Enter the name of the profile. To view a list of existing entries, enter a question mark (?).	
access-override {enable disable}	Enable to override the access profile you specify when you add an administrator with the value of the remote attribute returned from the RADIUS server, if the returned value matches an existing access profile.	disable
access-override-attribute <integer>	Enter the attribute ID of a vendor for remote access permission override. The attribute should hold an access profile name that exists on FortiMail. The default ID is 6, which is Fortinet-Access-Profile.	6
access-override-vendor <integer>	Enter the vendor's registered RADIUS ID for remote access permission override. The default ID is 12356, which is Fortinet.	12356

Variable	Description	Default
option {ssl secure tls senddomain}	Enter one or more of the following in a space-delimited list: senddomain: Enable if the IMAP server requires both the user name and the domain when authenticating. ssl: Enables secure socket layers (SSL) to secure message transmission. secure: Enables secure authentication. tls: Enables transport layer security (TLS) to ensure privacy between communicating application	
port <port_int>	Enter the TCP port number of the IMAP server. The standard port number for IMAP is 143; for SSL-secured IMAP, it is 993.	
server {<fqdn_str> <host_ipv4>}	Enter the IP address or fully qualified domain name (FQDN) of the IMAP server.	
option {ssl secure tls senddomain}	If you want to enable any of the following options, enter them in a space-delimited list: domain: Enable if the POP3 server requires both the user name and the domain when authenticating. ssl: Enables secure socket layers (SSL) to secure message transmission. secure: Enables secure authentication. tls: Enables transport layer security (TLS) to ensure privacy between communicating application	
port <port_int>	Enter the TCP port number of the POP3 server. The standard port number for POP3 is 110; for SSL-secured POP3, it is 995.	
server {<fqdn_str> <host_ipv4>}	Enter the IP address or fully qualified domain name (FQDN) of the POP3 server.	
auth-prot {auto chap mschap mschap2 pap}	Enter the authentication method for the RADIUS server.	auto
domain-override {enable disable}	Enable to override the domain you specify when you add an administrator with the value of the remote attribute returned from the RADIUS server, if the returned value matches an existing protected domain.	disable
domain-override-attribute <integer>	Enter the attribute ID of a vender for remote domain override. The attribute should hold a domain name that exists on FortiMail. The default ID is 3, which is Fortinet-Vdom-Name.	3
domain-override-vendor <integer>	Enter the vender's registered RADIUS ID for remote domain override. The default ID is 12356, which is Fortinet.	12356

Variable	Description	Default
nas-ip <ip_addr>	Enter the NAS IP address and Called Station ID (for more information about RADIUS Attribute 31, see RFC 2548 Microsoft Vendor-specific RADIUS Attributes). If you do not enter an IP address, the IP address that the FortiMail interface uses to communicate with the RADIUS server will be applied.	0.0.0.0
port <port_int>	If the RADIUS server listens on a nonstandard port number, enter the port number of the RADIUS server. The standard port number for RADIUS is 1812.	1812
secret <password_str>	Enter the password for the RADIUS server.	
send-domain {enable disable}	Enable if the RADIUS server requires both the user name and the domain when authenticating.	
server {<fqdn_str> <host_ipv4>}	Enter the IP address or fully qualified domain name (FQDN) of the RADIUS server.	
option {ssl secure tls senddomain}	If you want to enable any of the following options, enter them in a space-delimited list: senddomain: Enable if the SMTP server requires both the user name and the domain when authenticating. ssl: Enables secure socket layers (SSL) to secure message transmission. secure: Enables secure authentication. tls: Enables transport layer security (TLS) to ensure privacy between communicating application	
server {<fqdn_str> <host_ipv4>}	Enter the IP address or fully qualified domain name (FQDN) of the SMTP server.	
port <port_int>	Enter the TCP port number of the SMTP server. The standard port number for SMTP is 25; for SSL-secured SMTP, it is 465.	
try-ldap-mailhost {enable disable}	Enable if your LDAP server has a mail host entry for the generic user If you select this option, the FortiMail unit will query the generic LDAP server first to authenticate email users. If no results are returned for the query, the FortiMail unit will query the server you entered in the server field.	disable

Related topics

[profile certificate-binding on page 170](#)

[profile encryption on page 186](#)

profile certificate-binding

Use this command to create certificate binding profiles, which establish the relationship between an email address and the certificate that:

- proves an individual's identity
- provides their public (and, for protected domains, private) keys for use with encryption profiles

This relationship and that information can then be used for secure MIME (S/MIME).

If an email is **incoming** to a protected domain and it uses S/MIME encryption, the FortiMail unit compares the sender's identity with the list of certificate bindings to determine if it has a key that can decrypt the email. If it has a matching public key, it will decrypt the email before forwarding it. If it does **not**, it forwards the still-encrypted email to the recipient; the recipient's MUA in that case must support S/MIME and possess the sender's public key.

If an email is **outgoing** from a protected domain, and you have selected an encryption profile in the message delivery rule that applies to the session, the FortiMail unit compares the sender's identity with the list of certificate bindings to determine if it has a certificate and private key. If it has a matching private key, it will encrypt the email using the algorithm specified in the encryption profile. If it does **not**, it performs the failure action indicated in the encryption profile.

Syntax

```
config profile certificate-binding
edit <profile_id> on page 170
set address-pattern <pattern_str> on page 170
set key-private <key_str> on page 170
set key-public <key_str> on page 170
set key-usage on page 170
set password <pwd_str> on page 170
end
```

Variable	Description	Default
<profile_id>	Enter the ID number of the certificate binding profile.	
address-pattern <pattern_str>	Enter the email address or domain associated with the identity represented by the personal or server certificate.	
key-private <key_str>	Enter the private key associated with the identity, used to encrypt and sign email from that identity.	
key-public <key_str>	Enter the public key associated with the identity, used to encrypt and sign email from that identity.	
key-usage	Use the key for encryption, signing, or both.	encryption
password <pwd_str>	Enter the password for the personal certificate files.	

Related topics

[profile authentication on page 166](#)

[profile encryption on page 186](#)

profile content

Use this command to create content profiles, which you can use to match email based upon its subject line, message body, and attachments.

Unlike antispam profiles, which deal primarily with spam, content profiles match any other type of email.

Content profiles can be used to apply content-based encryption to email. They can also be used to restrict prohibited content, such as words or phrases, file names, and file attachments that are not permitted by your network usage policy. As such, content profiles can be used both for email that you want to protect, and for email that you want to prevent.

Syntax

```
config profile content
  edit <profile_name> on page 172
    config attachment-scan
      edit <index_number>
        set action <action> on page 172
        set operator {is | is-not} on page 172
        set attachment-name-pattern <pattern_str> on page 172
        set status {enable | disable} on page 172
      config monitor
        edit monitor <index_int> on page 172
          set action <profile_name> on page 173
          set dict-score <score_int> on page 173
          set dictionary-group <dictionary-group_name> on page 173
          set dictionary-profile <dictionary-profile_name> on page 173
          set dictionary-type {group | profile} on page 173
          set scan-msoffice {enable | disable} on page 173
          set scan-pdf {enable | disable} on page 173
          set status {enable | disable} on page 173
        set action-cdr <action_profile> on page 173
        set action-default <action_profile> on page 173
        set action-image-analysis <action_profile> on page 173
        set action-max-size <action_profile> on page 173
        set archive-scan-options {block-on-failure-to-decompress on page 174 | block-
          password-protected on page 174 | block-recursive on page 174}
        set cdr-file-type-options {msoffice | pdf} on page 174
        set decrypt-password-archive {enable | disable} on page 174
        set decrypt-password-num-of-words <number> on page 174
        set decrypt-password-office {enable | disable} on page 174
        set decrypt-password-options {built-in-password-list | user-defined-password-
          list | words-in-email-content} on page 174
        set defersize <size-in-kb> on page 174
        set embedded-scan-options {check-msoffice | check-msoffice-vba | check-msvisio |
          check-openoffice | check-pdf} on page 175
        set html-content-action {click-protection | convert-to-text | remove-uri |
          sanitize-content} on page 175
        set image-analysis-scan {enable | disable} on page 175
        set max-num-of-attachment <number> on page 175
        set max-size <size-in-kb> on page 175
        set max-size-options {message | attachment} on page 175
        set max-size-status {enable | disable} on page 175
        set scan options block-fragmented-email on page 175
```

```

set scan options block-password-protected-office on page 176
set scan options check-archive-content on page 176
set scan options check-embedded-content on page 176
set scan options bypass-on-smtp-auth on page 176
set scan options check-html-content on page 176
set scan options check-max-num-of-attachment on page 177
set scan options check-text-content on page 177
set scan options defer-message-delivery on page 177
set text-content-action {remove-uri | click-protection} on page 177
end

```

Variable	Description	Default
<profile_name>	Enter the name of the profile. To view a list of existing entries, enter a question mark (?).	No default.
action <action>	Specify the action to use.	No default.
operator {is is-not}	Specify the operator.	is
attachment-name-pattern <pattern_str>	Enter a pattern, such as ' *.bat ', that matches the email attachment names that you want the content profile to match. The patterns include: <ul style="list-style-type: none"> • *.bat • *.com • *.dll • *.doc • *.exe • *.gz • *.hta • *.ppt • *.rar • *.scr • *.tar • *.tgz • *.vb? • *.wps • *.xl? • *.zip • *.pif 	No default.
status {enable disable}	Enable or disable a pattern that matches the email attachment names that you want the content profile to match.	enable
monitor <index_int>	Enter the index number of the monitor profile. If the monitor profile does not currently exist, it will be created.	No default.

Variable	Description	Default
action <profile_name>	Enter the action profile for this monitor profile. The FortiMail unit will perform the actions if the content of the email message matches words or patterns from the dictionary profile that the monitor profile uses.	No default.
dict-score <score_int>	Enter the number of times that an email must match the content monitor profile before it will receive the antispam action.	1
dictionary-group <dictionary-group_name>	Enter the dictionary profile group that this monitor profile will use. The FortiMail unit will compare content in the subject line and message body of the email message with words and patterns in the dictionary profiles. If it locates matching content, the FortiMail unit will perform the actions configured for this monitor profile. For information on dictionary profiles, see the FortiMail Administration Guide .	No default.
dictionary-profile <dictionary-profile_name>	Enter the dictionary profile that this monitor profile will use. The FortiMail unit will compare content in the subject line and message body of the email message with words and patterns in the dictionary profile. If it locates matching content, the FortiMail unit will perform the actions configured for this monitor profile in profile content-action on page 178 . For information on dictionary profiles, see the FortiMail Administration Guide .	No default.
dictionary-type {group profile}	Enter <code>profile</code> to detect content based upon a dictionary profile, or <code>group</code> to detect content based upon a group of dictionary profiles.	group
scan-msoffice {enable disable}	Enable or disable MS Word document scanning for this profile.	disable
scan-pdf {enable disable}	Enable or disable PDF document scanning for this profile.	disable
status {enable disable}	Enable or disable this monitor profile.	disable
action-cdr <action_profile>	Specify the action profile to use.	
action-default <action_profile>	Enter a content action profile to be used by all the content filters except for the encrypted email, which can have its own action. See below for details.	
action-image-analysis <action_profile>	For the image email file type, you can use a content action profile to overwrite the default action profile used in the content profile.	
action-max-size <action-profile>	Specify the action profile to use for message over maximum size.	

Variable	Description	Default
block-on-failure-to-decompress	Enter to apply the action configured in profile content-action on page 178 if an attached archive cannot be successfully decompressed in order to scan its contents.	
block-password-protected	Enter to apply the action configured in profile content-action on page 178 if an attached archive is password-protected.	
block-recursive	Enable to block archive attachments whose depth of nested archives exceeds <code>archive-max-recursive-level <depth_int></code> on page 174 .	
archive-max-recursive-level <depth_int>	<p>Enter the nesting depth threshold. Depending upon each attached archive's depth of archives nested within the archive, the FortiMail unit will use one of the following methods to determine whether it should block or pass the email.</p> <p><code>archive-max-recursive-level</code> is 0, or attachment's depth of nesting equals or is less than <code>archive-max-recursive-level</code>: If the attachment contains a file that matches one of the other MIME file types, perform the action configured for that file type, either block or pass.</p> <p>Attachment's depth of nesting is greater than <code>archive-max-recursive-level</code>: Apply the block action, unless you have disabled block-recursive on page 174, in which case it will pass the MIME file type content filter. Block actions are specified in the profile content-action on page 178.</p>	0
cdr-file-type-options {msoffice pdf}	Specify the file type for content disarm and reconstruction.	
decrypt-password-archive {enable disable}	Enable or disable to decrypt password protected archives.	disable
decrypt-password-num-of-words <number>	Specify the number of words adjacent to the keyword to try for archive decryption.	5
decrypt-password-office {enable disable}	Enable to decrypt password protected Office files.	disable
decrypt-password-options {built-in-password-list user-defined-password-list words-in-email-content}	Specify which kind of password to use to decrypt the archives.	words-in-email-content
defersize <size-in-kb>	Bigger size will be deferred. 0 means no limit.	0

Variable	Description	Default
embedded-scan-options {check-msoffice check-msoffice-vba check-msvisio check-openoffice check-pdf}	<p>Documents, similar to an archive, can sometimes contain video, graphics, sounds, and other files that are used by the document. By embedding the required file within itself instead of linking to such files externally, a document becomes more portable. However, it also means that documents can be used to hide infected files that are the real attack vector.</p> <p>Enable to, for MIME types such as Microsoft Office, Microsoft Visio, OpenOffice.org , and PDF documents, scan files that are encapsulated within the document itself.</p>	
html-content-action {click-protection convert-to-text remove-uri sanitize-content}	<p>Specify the action towards hypertext markup language (HTML) tags in email messages:</p> <p>Convert HTML to text: convert the HTML content to text only content.</p> <p>Sanitize HTML content: produce new HTML content by removing the potentially hazardous tags and attributes (such as hyperlinks and scripts) and only preserving the safe and essential tags (such as formatting tags).</p> <p>Remove URIs: remove the URIs in email message.</p> <p>Click Protection: Rewrite the URIs and in case the user clicks on the URIs, scan the URIs and then take the configured actions.</p>	
image-analysis-scan {enable disable}	<p>If you have purchase the adult image scan license, you can enable it to scan for adult images.</p> <p>You can also configure the scan sensitivity and image sizes under Security > Other > Adult Image Analysis.</p>	disable
max-num-of-attachment <number>	Specify how many attachments are allowed in one email message. The valid range is between 1 and 100. The default value is 10.	10
max-size <size-in-kb>	<p>Enter the size threshold in kilobytes. Delivery of email messages greater than this size will be deferred until the period configured for oversize email.</p> <p>To disable deferred delivery, enter 0.</p>	10240
max-size-options {message attachment}	Specify either the message or attachment for the size limit.	message
max-size-status {enable disable}	Enable to apply the maximum size limits.	disable
block-fragmented-email	<p>Enable to detect and block fragmented email.</p> <p>Some mail user agents, such as Outlook, are able to fragment big emails into multiple sub-messages. This is used to bypass oversize limits/scanning.</p>	disable

Variable	Description	Default
block-password-protected-office	Enable to apply the block action configured in the content action profile if an attached MS Office document is password-protected, and therefore cannot be decompressed in order to scan its contents.	disable
check-archive-content	Enable to check for archived attachments.	
check-embedded-content	<p>Enable to check for embedded contents.</p> <p>Documents, similar to an archive, can sometimes contain video, graphics, sounds, and other files that are used by the document. By embedding the required file within itself instead of linking to such files externally, a document becomes more portable. However, it also means that documents can be used to hide infected files that are the real attack vector.</p>	
bypass-on-smtp-auth	Enable to omit antispam scans when an SMTP sender is authenticated.	disable
check-html-content	<p>Enable to detect hypertext markup language (HTML) tags and, if found: apply the action profile</p> <p>add X-FEAS-ATTACHMENT-FILTER: Contains HTML tags. to the message headers</p> <p>This option can be used to mitigate potentially harmful HTML content such as corrupted images or files, or phishing URLs that have been specially crafted for a targeted attack, and therefore not yet identified by the FortiGuard Antispam service.</p> <p>Depending on the action profile, for example, you could warn email users by tagging email that contains potentially dangerous HTML content, or, if you have removed the HTML tags, allow users to safely read the email to decide whether or not it is legitimate first, without automatically displaying and executing potentially dangerous scripts, images, or other files. (Automatic display of HTML content is a risk on some email clients.)</p> <p>Caution: Unless you also select <code>replace</code> for the action in the content action profile, HTML will not be removed, and the email will not be converted to plain text. Instead, the FortiMail unit will only apply whichever other action profile “block” action you have selected.</p> <p>To actually remove HTML tags, you must also select replace.</p> <p>If you select Replace, all HTML tags will be removed, except for the minimum required by the HTML document type definition (DTD):</p> <pre><html> <head> <body></pre> <p>Stripped body text will be surrounded by <code><pre></code> tags, which is typically rendered in a monospace font, causing the appearance to mimic plain text.</p>	

Variable	Description	Default
	<p>For linked files, which are hosted on an external web site for subsequent download rather than directly attached to the email, the FortiMail unit will download and attach the file to the email before removing the <code></code> or <code><embed></code> tag. In this way, while the format is converted to plain text, attachments and linked files which may be relevant to the content are still preserved.</p> <p>For example, in an email that is a mixture of HTML and plain text (<code>Content-Type: multipart/alternative</code>), and if the action profile's "block" action is <code>replace</code>, the FortiMail unit would remove hyperlink, font, and other HTML tags in the sections labeled with <code>Content-Type: text/html</code>. Linked images would be converted to attachments (The MIME <code>Content-Type: text/html</code> label itself, however, would not be modified).</p>	
check-max-num-of-attachment	Enable to specify how many attachments are allowed in one email message. The valid range is between 1 and 100. The default value is 10.	
check-text-content	Enable to check the URI in the text part of the messages.	
defer-message-delivery	Enable to defer mail delivery from specific senders configured in policy to conserve peak time bandwidth at the expense of sending low priority, bandwidth consuming traffic at scheduled times. For example, you can apply this function to senders of marketing campaign emails or mass mailing.	
text-content-action {remove-uri click-protection}	<p>Remove URIs: Removes URIs in the text parts of email messages.</p> <p>Click Protection: Rewrite the URIs and in case the user clicks on the URIs, scan the URIs and then take the configured action.</p>	remove-uri

Related topics

[profile content-action on page 178](#)

profile content-action

Use this command to define content action profiles.

Content action profiles can be used to apply content-based encryption.

Alternatively, content action profiles can define one or more things that the FortiMail unit should do if the content profile determines that an email contains prohibited words or phrases, file names, or file types.

For example, you might have configured most content profiles to match prohibited content, and therefore to use a content action profile named `quar_profile` which quarantines email to the system quarantine for review.

However, you have decided that email that does not pass the dictionary scan named `financial_terms` is **always** prohibited, and should be rejected so that it does not require manual review. To do this, you would first configure a second action profile, named `rejection_profile`, which rejects email. You would then override `quar_profile` specifically for the dictionary-based content scan in each profile by selecting `rejection_profile` for content that matches `financial_terms`.

Syntax

```
config profile content-action
  edit <profile_name> on page 178
    set action {discard | encryption | none | quarantine | quarantine-review |
      reject | replace | rewrite-rcpt | treat-as-spam} on page 179
    set alternate-host {<relay_fqdn> | <relay_ipv4>} on page 179
    set alternate-host-status {enable | disable} on page 179
    set archive-account <account_name> on page 179
    set archive-status {enable | disable} on page 179
    set suspicious-newsletter-status {enable | disable} on page 154
    set bcc-status {enable | disable} on page 180
    set deliver-to-original-host {enable | disable} on page 180
    set disclaimer-insertion {enable | disable} on page 180
    set disclaimer-insertion-content <message_name> on page 180
    set disclaimer-insertion-location {beginning | end} on page 180
    set header-insertion-name <text_str> on page 180
    set header-insertion-value <value_str> on page 180
    set notification-profile <profile_name> on page 181
    set notification-status {enable | disable} on page 181
    set replace-content on page 181
    set replace-content-message on page 181
    set rewrite-rcpt-domain-type {none | prefix | replace | suffix} on page 181
    set rewrite-rcpt-domain-value <case_str> on page 181
    set rewrite-rcpt-local-type {none | prefix | replace | suffix} on page 181
    set rewrite-rcpt-local-value <value_str> on page 181
    set subject-tagging-text <text_str> on page 181
    set tagging type {insert-header | tag-subject} on page 182
  end
```

Variable	Description	Default
<profile_name>	Enter the name of the profile. To view a list of existing entries, enter a question mark (?).	

Variable	Description	Default
action {discard encryption none quarantine quarantine-review reject replace rewrite-rcpt treat-as-spam}	<p>Enter the action that the FortiMail unit will perform if the content profile determines that an email contains prohibited words or phrases, file names, or file types.</p> <p>discard: Accept the email, but then delete it instead of delivering the email, without notifying the SMTP client.</p> <p>encryption: Apply an encryption profile.</p> <p>none: Apply any configured header or subject line tags, if any.</p> <p>quarantine: Divert the email to the per-recipient quarantine.</p> <p>quarantine-review: Divert the email to the system quarantine.</p> <p>reject: Reject the email, replying with an SMTP error code to the SMTP client.</p> <p>replace: Accept the email, but replace the content matching this profile with a replacement message, and, if you have enabled check-html-content on page 176, strip HTML tags.</p> <p>rewrite-rcpt: Enter to change the recipient address of any email that matches the content profile. Also configure rewrite-rcpt-domain-type {none prefix replace suffix} on page 181, rewrite-rcpt-domain-value <case_str> on page 181, rewrite-rcpt-local-type {none prefix replace suffix} on page 181, and rewrite-rcpt-local-value <value_str> on page 181.</p> <p>treat-as-spam: Apply the action selected in the antispam profile.</p>	replace
alternate-host {<relay_fqdn> <relay_ipv4>}	<p>Type the fully qualified domain name (FQDN) or IP address of the alternate relay or SMTP server.</p> <p>This field applies only if alternate-host-status is enable.</p>	No default.
archive-account <account_name>	<p>Type the email archive account name where you want to archive the email.</p> <p>Enable archive-status {enable disable} on page 179 to make this function work.</p> <p>For more information about archive accounts, see antispam url-fgas-exempt-list on page 57.</p>	
archive-status {enable disable}	<p>Enable to allow the archive-account <account_name> on page 179 function to work.</p>	disable
alternate-host-status {enable disable}	<p>Enable to route the email to a specific SMTP server or relay. Also configure alternate-host {<relay_fqdn> <relay_ipv4>} on page 179.</p>	disable

Variable	Description	Default
	Note: If you enable this setting, for all email that matches the profile, the FortiMail unit will use this destination and ignore mailsetting relay-host-list on page 121 and the protected domain's tp-use-domain-mta {yes no} on page 101 .	
bcc-addr <recipient_email>	Type the BCC recipient email address. This field applies only if <code>bcc-status</code> is <code>enable</code> .	No default.
bcc-status {enable disable}	Enable to send a blind carbon copy (BCC) of the email. Also configure suspicious-newsletter-status {enable disable} on page 154 .	disable
deliver-to-original-host {enable disable}	Enable to deliver the message to the original host.	disable
disclaimer-insertion {enable disable}	Enable to insert disclaimer.	disable
disclaimer-insertion-content <message_name>	Specify the content name to be inserted.	default
disclaimer-insertion- location {beginning end}	Insert the disclaimer at the beginning or end of the message.	beginning
header-insertion-name <text_str>	<p>Enter the message header key. The FortiMail unit will add this text to the message header of the email before forwarding it to the recipient.</p> <p>Many email clients can sort incoming email messages into separate mailboxes based on text appearing in various parts of email messages, including the message header. For details, see the documentation for your email client.</p> <p>Message header lines are composed of two parts: a key and a value, which are separated by a colon. For example, you might enter: <code>X-Content-Filter: Contains banned word.</code></p> <p>If you enter a header line that does not include a colon, the FortiMail unit will automatically append a colon, causing the entire text that you enter to be the key.</p> <p>Note: Do not enter spaces in the key portion of the header line, as these are forbidden by RFC 2822.</p> <p>Also configure tagging type {insert-header tag-subject} on page 182.</p>	
header-insertion-value <value_str>	<p>Enter the message header value. The FortiMail unit will add this value to the message header of the email before forwarding it to the recipient.</p> <p>Also configure tagging type {insert-header tag-subject} on page 182.</p>	

Variable	Description	Default
notification-profile <profile_name>	Type the name of the notification profile used for sending notifications.	
notification-status {enable disable}	Enable sending notifications using a notification profile.	disable
replace-content	Enable or disable content replacement.	disable
replace-content-message	Enter the name of the custom message for content replacement.	
rewrite-rcpt-domain-type {none prefix replace suffix}	<p>Change the domain part (the portion of the email address after the '@' symbol) of the recipient address of any email that matches the content profile.</p> <p>none: No change.</p> <p>prefix: Enter to prepend the part with new text. Also configure rewrite-rcpt-domain-value <case_str> on page 181.</p> <p>suffix: Enter to append the part with new text. Also configure rewrite-rcpt-domain-value <case_str> on page 181.</p> <p>replace: Enter to substitute the part with new text. Also configure rewrite-rcpt-domain-value <case_str> on page 181.</p>	none
rewrite-rcpt-domain-value <case_str>	Enter the text for the option (except <code>none</code>) you choose in rewrite-rcpt-domain-type {none prefix replace suffix} on page 181 .	
rewrite-rcpt-local-type {none prefix replace suffix}	<p>Change the local part (the portion of the email address before the '@' symbol, typically a user name) of the recipient address of any email that matches the content profile.</p> <p>none: No change.</p> <p>prefix: Enter to prepend the part with new text. Also configure rewrite-rcpt-local-value <value_str> on page 181.</p> <p>suffix: Enter to append the part with new text. Also configure rewrite-rcpt-local-value <value_str> on page 181.</p> <p>replace: Enter to substitute the part with new text. Also configure rewrite-rcpt-local-value <value_str> on page 181.</p>	none
rewrite-rcpt-local-value <value_str>	Enter the text for the option (except <code>none</code>) you choose in rewrite-rcpt-local-type {none prefix replace suffix} on page 181 .	
subject-tagging-text <text_str>	<p>Enter the text that will appear in the subject line of the email, such as "[PROHIBITED-CONTENT]". The FortiMail unit will prepend this text to the subject line of the email before forwarding it to the recipient.</p> <p>Many email clients can sort incoming email messages into separate mailboxes based on text appearing in various parts of email messages, including the subject line. For details, see the documentation for your email client.</p> <p>Also configure tagging type {insert-header tag-subject} on page 182.</p>	

Variable	Description	Default
tagging type {insert-header tag-subject}	Enter the type of tagging for this profile.	

Related topics

[profile encryption on page 186](#) [on page 170](#)

profile dictionary

Use this command to configure dictionary profiles.

Unlike banned words, dictionary terms are UTF-8 encoded, and may include characters other than US-ASCII characters, such as é or ñ.

Dictionary profiles can be grouped or used individually by antispam or content profiles to detect spam, banned content, or content that requires encryption to be applied.

Syntax

```
config profile dictionary
edit <profile_name> on page 182
config item
edit <item_int> on page 182
set pattern <pattern_str> on page 182
set pattern-comments <comment_str> on page 183
set pattern-type {ABAROUTING | CANSIN | CUSIP | CreditCard | ISIN | USSSN |
regex | wildcard} on page 183
set pattern-weight <weight_int> on page 184
set pattern-scan-area {header | body} on page 184
set pattern-status {enable | disable} on page 184
set pattern-max-weight <weight_int> on page 185
set pattern-max-limit {enable | disable} on page 185
end
```

Variable	Description	Default
<profile_name>	Enter the name of the profile.	
<item_int>	Enter the index number for the pattern entry where you can add a word or phrase to the dictionary.	
pattern <pattern_str>	For a predefined pattern, enter a value to change the predefined pattern name. For a use-defined pattern, enter a word or phrase that you want the dictionary to match, expressed either verbatim, with wild cards, or as a regular expression.	

Variable	Description	Default
	<p>Regular expressions do not require slash (/) boundaries. For example, enter:</p> <pre>v[i1]agr?a</pre> <p>Matches are case insensitive and can occur over multiple lines as if the word were on a single line (that is, Perl-style match modifier options <code>i</code> and <code>s</code> are in effect).</p> <p>The FortiMail unit will convert the encoding and character set into UTF-8, the same encoding in which dictionary patterns are stored, before evaluating an email for a match with the pattern. Because of this, your pattern must match the UTF-8 string, not the originally encoded string. For example, if the original encoded string is:</p> <pre>=?iso-8859-1?B?U2UgdHJhdGEgZGVsIHNNwYW0uCg==?=</pre> <p>the pattern must match:</p> <pre>Se trata del spam.</pre> <p>Entering the pattern <code>*iso-8859-1*</code> would not match.</p>	
pattern-comments <comment_str>	Enter any description for the pattern.	
pattern-type {ABAROUTING CANSIN CUSIP CreditCard ISIN USSSN regex wildcard}	<p>Enter ABAROUTING, CANSIN, CUSIP, CreditCard, ISIN, or USSSN for predefined patterns.</p> <p>ABAROUTING: A routing transit number (RTN) is a nine digit bank code, used in the United States, which appears on the bottom of negotiable instruments such as checks identifying the financial institution on which it was drawn.</p> <p>CANSIN: Canadian Social Insurance Number. The format is three groups of three digits, such as 649 242 666.</p> <p>CUSIP: CUSIP typically refers to both the Committee on Uniform Security Identification Procedures and the 9-character alphanumeric security identifiers that they distribute for all North American securities for the purposes of facilitating clearing and settlement of trades.</p> <p>CreditCard: Major credit card number formats.</p> <p>ISIN: An International Securities Identification Number (ISIN) uniquely identifies a security. Securities for which ISINs are issued include bonds, commercial paper, equities and warrants. The ISIN code is a 12-character alpha-numerical code that does not contain information characterizing financial instruments but serves for uniform identification of a security at trading and settlement.</p>	regex

Variable	Description	Default
	<p>USSN: United States Social Security number. The format is a nine digit number, such as 078051111.</p> <p>For user-defined patterns, enter either:</p> <p>wildcard: Pattern is verbatim or uses only simple wild cards (? or *).</p> <p>regex: Pattern is a Perl-style regular expression.</p>	
pattern-weight <weight_int>	<p>Enter a number by which an email's dictionary match score will be incremented for each word or phrase it contains that matches this pattern.</p> <p>The dictionary match score may be used by content monitor profiles to determine whether or not to apply the content action.</p>	1
pattern-scan-area {header body}	Enter <code>header</code> to match occurrences of the pattern when it is located in an email's message headers, including the subject line, or <code>body</code> to match occurrences of the pattern when it is located in an email's message body.	
pattern-status {enable disable}	Enable or disable a pattern in a profile.	disable

Variable	Description	Default
pattern-max-weight <weight_int>	Enter the maximum by which matches of this pattern can contribute to an email's dictionary match score.	1
pattern-max-limit {enable disable}	Enable if the pattern must not be able to increase an email's dictionary match score more than the amount configured in pattern-max-weight <weight_int> on page 185.	disable

Related topics

[profile dictionary-group on page 185](#)

profile dictionary-group

Use this command to create groups of dictionary profiles.

Dictionary groups can be useful when you want to use multiple dictionary profiles during the same scan.

For example, you might have several dictionaries of prohibited words — one for each language — that you want to use to enforce your network usage policy. Rather than combining the dictionaries or creating multiple policies and multiple content profiles to apply each dictionary profile separately, you could simply group the dictionaries, then select that group in the content monitor profile.

Before you can create a dictionary group, you must first create one or more dictionary profiles. For more information about dictionary profiles, see [profile dictionary on page 182](#).

Syntax

```
config profile dictionary-group
    edit <group_name> on page 185
        config dictionaries
            edit <dictionary_name> on page 185
        end
    end
```

Variable	Description	Default
<group_name>	Enter the name of the dictionary group.	
<dictionary_name>	Enter the dictionary that you want to include in the dictionary group.	

Related topics

[profile dictionary on page 182](#)

profile email-address-group

Use this command to create groups of email addresses.

Email groups include groups of email addresses that are used when configuring access control rules. For information about access control rules, see [o365 profile antivirus on page 131](#).

Syntax

```
config profile email-address-group
  edit <group_name> on page 186
    config member
      edit <email_address> on page 186
    end
  end
```

Variable	Description	Default
<group_name>	Enter the name of the email address group.	
<email_address>	Enter the email address that you want to include in the email group.	

Related topics

[o365 profile antivirus on page 131](#)

profile encryption

Use this command to create encryption profiles, which contain encryption settings for secure MIME (S/MIME).

Encryption profiles, unlike other types of profiles, are applied through message delivery rules, not policies.

Syntax

```
config profile encryption
  edit password <password_str> on page 129
    set encryption-algorithm {aes128 | aes192 | aes256 | cast5 | tripledes} on page 187
    set action-on-failure {drop | send | tls} on page 187
    set max-push-size <size_int> on page 187
    set protocol {smime | ibe} on page 187
    set retrieve-action {push | pull} on page 187
  end
```

Variable	Description	Default
<profile_name>	Enter the name of the encryption profile.	

Variable	Description	Default
encryption-algorithm {aes128 aes192 aes256 cast5 tripledes}	Enter the encryption algorithm that will be used with the sender's private key in order to encrypt the email.	aes128
action-on-failure {drop send tls}	Enter the action the FortiMail unit takes when identity-based encryption cannot be used, either: drop: Send a delivery status notification (DSN) email to the sender's email address, indicating that the email is permanently undeliverable. send: Deliver the email without encryption.	drop
max-push-size <size_int>	The maximum message size (in KB) of the secure mail delivered (or pushed) to the recipient. Messages that exceed this size are delivered via pull. The size cannot exceed 10240KB. This option applies to the IBE protocol only.	2048
protocol {smime ibe}	The protocol used for this profile, S/MIME or IBE.	smime
retrieve-action {push pull}	The action used by the mail recipients to retrieve IBE messages. push: A notification and a secure mail is delivered to the recipient who needs to go to the FortiMail unit to open the message. The FortiMail unit does not store the message. pull: A notification is delivered to the recipient who needs to go to the FortiMail unit to open the message. The FortiMail unit stores the message. This option applies to the IBE protocol only.	push

Related topics

[profile authentication on page 166](#)

profile impersonation

Email impersonation is one of the email spoofing attacks. It forges the email header to deceive the recipient because the message appears to be from a different source than the actual address.

To fight against email impersonation, you can map high valued target display names with correct email addresses and FortiMail can check for the mapping. For example, an external spammer wants to impersonate the CEO of your company(ceo@company.com). The spammer will put "CEO ABC <ceo@external.com>" in the Email header From, and send such email to a user(victim@company.com). If FortiMail has been configured with a manual entry "CEO ABC"/"ceo@company.com" in an impersonation analysis profile to indicate the correct display name/email pair, or it has learned display name/email pair through the dynamic process, then such email will be detected by impersonation analysis, because the spammer uses an external email address and an internal user's display name.

You can also add empty entries to force the FortiMail to skip impersonation analysis.

There are two ways to do the mapping:

- **Manual:** you manually enter mapping entries and create impersonation analysis profiles as described below.
- **Dynamic:** FortiMail Mail Statistics Service can automatically learn the mapping.

Syntax

```
config impersonation
  edit <name> on page 188
    config entry
      edit <entry> on page 188
        set display-name on page 188
        set display-name-type on page 188
        set email-address on page 188
      config exempt
        edit <entry>
          set display-name on page 188
          set display-name-type on page 188
          set email-address on page 188
        end
      end
    end
  end
end
```

Variable	Description	Default
<name>	Enter the profile name.	
<entry>	Enter the profile entry	
display-name	Enter the display name to be mapped to the email address. You can use the wildcard or regular expression.	
display-name-type	Enter the display name pattern	
email-address	Enter the email address to be mapped to the display name. The email address can be from protected/internal domains or unprotected/external domains.	

profile ip-address-group

Use this command to create groups of IP addresses.

IP groups include groups of IP addresses that are used when configuring access control rules. For information about access control rules, see [o365 profile antivirus on page 131](#).

Syntax

```
config profile ip-address-group
  edit <name> on page 189
    config member
      edit <ip/mask> on page 189
    end
  end
end
```

Variable	Description	Default
<name>	Enter the name of the IP address group.	
<ip/mask>	<p>Enter the Enter the IP address and netmask that you want to include in the email group. Use the netmask, the portion after the slash (/), to specify the matching subnet.</p> <p>For example, enter 10.10.10.10/24 to match a 24-bit subnet, or all addresses starting with 10.10.10. This will appear as 10.10.10.0/24 in the access control rule table, with the 0 indicating that any value is matched in that position of the address.</p> <p>Similarly, 10.10.10.10/32 will appear as 10.10.10.10/32 and match only the 10.10.10.10 address.</p> <p>To match any address, enter 0.0.0.0/0.</p>	

Related topics

[o365 profile antivirus on page 131](#)

profile ip-pool

Use this command to define a range of IP addresses. IP pools can be used in multiple ways:

- To define destination IP addresses of multiple protected SMTP servers if you want to load balance **incoming** email between them.
- To define source IP addresses used by the FortiMail unit if you want **outgoing** email to originate from a range of IP addresses.

Each email that the FortiMail unit sends will use the next IP address in the range. When the last IP address in the range is used, the next email will use the first IP address.

For more information, see the [FortiMail Administration Guide](#).

Syntax

```
config profile ip-pool
  edit <profile_name> on page 189
    set iprange {enable | disable} on page 189
  end
```

Variable	Description	Default
<profile_name>	Enter the name of the IP pool profile.	
iprange {enable disable}	Enter the first and last IP address in each contiguous range included in the profile.	

profile ldap

Use this command to configure LDAP profiles which can query LDAP servers for authentication, email address mappings, and more.



Before using an LDAP profile, verify each LDAP query and connectivity with your LDAP server. When LDAP queries do not match with the server's schema and/or contents, unintended mail processing behaviors can result, including bypassing antivirus scans. For details on preparing an LDAP directory for use with FortiMail LDAP profiles, see the [FortiMail Administration Guide](#).

LDAP profiles each contain one or more queries that retrieve specific configuration data, such as user groups, from an LDAP server.

Syntax

```
config profile ldap
edit <profile_name> on page 191
    set access-override {enable | disable} on page 191
    set access-override-attribute <attribute_str> on page 191
    set address-map-state {enable | disable} on page 192
    set alias-base-dn <dn_str> on page 192
    set alias-bind-dn <bind_dn_str> on page 192
    set alias-bind-password <bindpw_str> on page 192
    set alias-dereferencing {never | always | search | find} on page 193
    set alias-expansion-level <limit_int> on page 193
    set alias-group-expansion-state {enable | disable} on page 193
    set alias-group-member-attribute <attribute_str> on page 193
    set alias-group-query <query_str> on page 193
    set alias-member-mail-attribute <attribute_str> on page 194
    set alias-member-query <query_str> on page 194
    set alias-schema {activedirectory | dominoperson | inetlocalmailrcpt |
        inetorgperson | userdefined} on page 194
    set alias-scope {base one | sub} on page 195
    set alias-state {enable | disable} on page 195
    set antispam <attribute_str> on page 195
    set webmail-language <language_name> on page 102
    set asav-state {enable | disable} on page 195
    set auth-bind-dn {cnid | none | searchuser | upn} on page 195
    set authstate {enable | disable} on page 195
    set base-dn <basedn_str> on page 195
    set bind-dn <binddn_str> on page 196
    set bind-password <bindpw_str> on page 196
    set cache-state {enable | disable} on page 196
    set cache-ttl <ttl_int> on page 196
    set set chain on page 196
    set set chain-status {enable | disable} on page 196
    set cnid-name <cnid_str> on page 196
    set content <string> on page 196
    set dereferencing {never | always | search | find} on page 197
    set display-name on page 188
    set domain-antispam-attr <attribute_str> on page 197
```

```

set domain-antivirus-attr <attribute_str> on page 197
set domain-content-attr on page 197
set domain-override {enable | disable} on page 197
set domain-override-attribute on page 197
set domain-parent-attr <attribute_str> on page 197
set domain-query <query_str> on page 197
set domain-routing-mail-host-attr <attribute_str> on page 198
set domain-state {enable | disable} on page 198
set external-address <attribute_str> on page 198
set fallback-port <port_int> on page 198
set fallback-server {<fqdn_str> | <server_ipv4>} on page 199
set group-base-dn <basedn_str> on page 199
set group-expansion-level on page 199
set group-membership-attribute <attribute_str> on page 199
set quarantine-report-to-ldap-groupowner {enable | disable} on page 95
set group-owner {enable | disable} on page 199
set group-owner-address-attribute <attribute_str> on page 199
set group-owner-attribute <attribute_str> on page 200
set group-relative-name {enable | disable} on page 200
set server-name <name_str> on page 125
set groupstate {enable | disable} on page 201
set internal-address <attribute_str> on page 201
set port <port_int> on page 201
set query <query_str> on page 201
set rcpt-vrfy-bypass {enable | disable} on page 203
set referrals-chase {enable | disable} on page 203
set routing-mail-host <attribute_str> on page 203
set routing-mail-addr <attribute_str> on page 203
set routing-state {enable | disable} on page 203
set schema {activedirectory | dominoperson | inetlocalmailrcpt | inetorgperson |
    userdefined} on page 203
set scope {base | one | sub} on page 203
set secure {none | ssl} on page 203
set server <name_str> on page 204
set timeout <timeout_int> on page 204
set unauth-bind {enable | disable} on page 204
set upn-suffix <upns_str> on page 204
set version {ver2 | ver3} on page 204
set webmail-password-change {enable | disable} on page 205
set webmail-password-schema {openldap | activedirectory} on page 205
end

```

Variable	Description	Default
<profile_name>	Enter the name of the LDAP profile.	
access-override {enable disable}	Enable to override the access profile you specify when you add an administrator with the value of the remote attribute returned from the LDAP server, if the returned value matches an existing access profile. If there is no match, the specified access profile will still be used. Also specify the access profile attribute.	disable
access-override-attribute <attribute_str>	Specify the access profile attribtue.	

Variable	Description	Default
address-map-state {enable disable}	Enable to query the LDAP server defined in the LDAP profile for user objects' mappings between email addresses.	disable
alias-base-dn <dn_str>	<p>Enter the distinguished name (DN) of the part of the LDAP directory tree within which the FortiMail will search for either alias or user objects.</p> <p>User or alias objects should be child nodes of this location.</p> <p>Whether you should specify the base DN of either user objects or alias objects varies by your LDAP schema style. Schema may resolve alias email addresses directly or indirectly (using references).</p> <p>Direct resolution: Alias objects directly contain one or more email address attributes, such as <code>mail</code> or <code>rfc822MailMember</code>, whose values are user email addresses such as <code>user@example.com</code>, and that resolves the alias. The Base DN, such as <code>ou=Aliases,dc=example,dc=com</code>, should contain alias objects.</p> <p>Indirect resolution: Alias objects do not directly contain an email address attribute that can resolve the alias; instead, in the style of LDAP group-like objects, the alias objects contain only references to user objects that are "members" of the alias "group." User objects' email address attribute values, such as <code>user@example.com</code>, actually resolve the alias. Alias objects refer to user objects by possessing one or more "member" attributes whose value is the DN of a user object, such as <code>uid=user,ou=People,dc=example,dc=com</code>. The FortiMail unit performs a first query to retrieve the distinguished names of "member" user objects, then performs a second query using those distinguished names to retrieve email addresses from each user object. The Base DN, such as <code>ou=People,dc=example,dc=com</code>, should contain user objects.</p>	
alias-bind-dn <bind_dn_str>	<p>Enter the bind DN, such as <code>cn=FortiMailA,dc=example,dc=com</code>, of an LDAP user account with permissions to query the <code>basedn</code>.</p> <p>This command may be optional if your LDAP server does not require the FortiMail unit to authenticate when performing queries, and if you have enabled unauth-bind {enable disable} on page 204.</p>	
alias-bind-password <bindpw_str>	Enter the password of alias-bind-dn <bind_dn_str> on page 192.	

Variable	Description	Default
alias-dereferencing {never always search find}	Select the method to use, if any, when dereferencing attributes whose values are references: <ul style="list-style-type: none"> <code>never</code>: Do not dereference. <code>always</code>: Always dereference. <code>search</code>: Dereference only when searching. <code>find</code>: Dereference only when finding the base search object. 	never
alias-expansion-level <limit_int>	Enter the maximum number of alias nesting levels that aliases the FortiMail unit will expand.	0
alias-group-expansion-state {enable disable}	<p>Enable if your LDAP schema resolves email aliases indirectly. For more information on direct vs. indirect resolution, see alias-base-dn <dn_str> on page 192.</p> <p>When this option is disabled, alias resolution occurs using one query. The FortiMail unit queries the LDAP directory using the <code>basedn</code> and the <code>alias-member-query</code>, and then uses the value of each <code>alias-member-mail-attribute</code> to resolve the alias.</p> <p>When this option is enabled, alias resolution occurs using two queries:</p> <p>The FortiMail unit first performs a preliminary query using the <code>basedn</code> and <code>alias-group-query</code>, and uses the value of each <code>alias-group-member-attribute</code> as the base DN for the second query.</p> <p>The FortiMail unit performs a second query using the distinguished names from the preliminary query (instead of the <code>basedn</code>) and the <code>alias-member-query</code>, and then uses the value of each <code>alias-member-mail-attribute</code> to resolve the alias.</p> <p>The two-query approach is appropriate if, in your schema, alias objects are structured like group objects and contain references in the form of distinguished names of member user objects, rather than directly containing email addresses to which the alias resolves. In this case, the FortiMail unit must first “expand” the alias object into its constituent user objects before it can resolve the alias email address.</p>	disable
alias-group-member-attribute <attribute_str>	<p>Enter the name of the attribute for the group member, such as <code>member</code>, whose value is the DN of a user object.</p> <p>This attribute must be present in alias objects only if they do not contain an email address attribute specified in alias-member-mail-attribute <attribute_str> on page 194.</p>	
alias-group-query <query_str>	Enter an LDAP query filter that selects a set of alias objects, represented as a group of member objects in the LDAP directory.	

Variable	Description	Default
	<p>The query filter string filters the result set, and should be based upon any attributes that are common to all alias objects but also exclude non-alias objects.</p> <p>For example, if alias objects in your directory have two distinguishing characteristics, their <code>objectClass</code> and <code>proxyAddresses</code> attributes, the query filter might be: <code>(&(objectClass=group) (proxyAddresses=smtp:\$m))</code> where <code>\$m</code> is the FortiMail variable for an email address.</p>	
alias-member-mail-attribute <attribute_str>	<p>Enter the name of the attribute for the alias member's mail address, such as <code>mail</code> or <code>rfc822MailMember</code>, whose value is an email address to which the email alias resolves, such as <code>user@example.com</code>.</p> <p>This attribute must be present in either alias or user objects, as determined by your schema and whether it resolves aliases directly or indirectly.</p>	
alias-member-query <query_str>	<p>Enter an LDAP query filter that selects a set of either user or email alias objects, whichever object class contains the attribute you configured in alias-member-mail-attribute <attribute_str> on page 194, from the LDAP directory.</p> <p>The query filter string filters the result set, and should be based upon any attributes that are common to all user/alias objects but also exclude non-user/alias objects.</p> <p>For example, if user objects in your directory have two distinguishing characteristics, their <code>objectClass</code> and <code>mail</code> attributes, the query filter might be: <code>(& (objectClass=alias) (mail=\$m))</code> where <code>\$m</code> is the FortiMail variable for a user's email address.</p>	
alias-schema {activedirectory dominoperson inetlocalmailrcpt inetorgperson userdefined}	Enter either the name of the LDAP directory's schema, or enter <code>userdefined</code> to indicate a custom schema.	inetorgperson

Variable	Description	Default
alias-scope {base one sub}	Enter which level of depth to query: <ul style="list-style-type: none"> <code>base</code>: Query the <code>basedn</code> level. <code>one</code>: Query only the one level directly below the <code>basedn</code> in the LDAP directory tree. <code>sub</code>: Query recursively all levels below the <code>basedn</code> in the LDAP directory tree. 	sub
alias-state {enable disable}	Enable to query user objects for email address aliases.	disable
antispam <attribute_str>	Enter the name of the attribute, such as <code>antispam</code> , whose value indicates whether or not to perform antispam processing for that user.	
antivirus <attribute_str>	Enter the name of the attribute, such as <code>antivirus</code> , whose value indicates whether or not to perform antivirus processing for that user.	
asav-state {enable disable}	Enable to query user objects for mappings between internal and external email addresses.	disable
auth-bind-dn {cnid none searchuser upn}	Enter either none to not define a user authentication query, or one of the following to define a user authentication query: <p><code>cnid</code>: Enter the name of the user objects' common name attribute, such as <code>cn</code> or <code>uid</code>.</p> <p><code>searchuser</code>: Enter to form the user's bind DN by using the DN retrieved for that user</p> <p>This command applies only if <code>schema</code> is <code>userdefined</code> in "set ldap_profile profile user" on page 2407..</p> <p><code>upn</code>: Enter to form the user's bind DN by prepending the user name portion of the email address (<code>\$u</code>) to the User Principle Name (UPN, such as <code>example.com</code>).</p> <p>By default, the FortiMail unit will use the mail domain as the UPN. If you want to use a UPN other than the mail domain, also configure <code>upn-suffix <upns_str></code> on page 204.</p>	searchuser
authstate {enable disable}	Enable to perform user authentication queries.	disable
base-dn <basedn_str>	Enter the distinguished name (DN) of the part of the LDAP directory tree within which the FortiMail unit will search for user objects, such as <code>ou=People,dc=example,dc=com</code> . User objects should be child nodes of this location.	

Variable	Description	Default
bind-dn <binddn_str>	<p>Enter the bind DN, such as <code>cn=FortiMailA,dc=example,dc=com</code>, of an LDAP user account with permissions to query the <code>basedn</code>.</p> <p>This command may be optional if your LDAP server does not require the FortiMail unit to authenticate when performing queries, and if you have enabled <code>unauth-bind {enable disable}</code> on page 204.</p>	
bind-password <bindpw_str>	Enter the password of <code>bind-dn <binddn_str></code> on page 196.	
cache-state {enable disable}	<p>Enable to cache LDAP query results.</p> <p>Caching LDAP queries can introduce a delay between when you update LDAP directory information and when the FortiMail unit begins using that new information, but also has the benefit of reducing the amount of LDAP network traffic associated with frequent queries for information that does not change frequently.</p> <p>If this option is enabled but queries are not being cached, inspect the value of TTL. Entering a TTL value of 0 effectively disables caching.</p>	disable
cache-ttl <ttl_int>	<p>Enter the amount of time, in minutes, that the FortiMail unit will cache query results. After the TTL has elapsed, cached results expire, and any subsequent request for that information causes the FortiMail unit to query the LDAP server, refreshing the cache.</p> <p>The default TTL value is 1,440 minutes (one day). The maximum value is 10,080 minutes (one week). Entering a value of 0 effectively disables caching.</p>	1440
set chain	Enter the LDAP profile you wish to add the group of other LDAP profiles to create a chain query.	
set chain-status {enable disable}	Enable the chain query.	disable
cnid-name <cnid_str>	Enter the name of the user objects' common name attribute, such as <code>cn</code> or <code>uid</code> .	
content <string>	<p>Enter the name of the attribute, such as <code>genericContent</code>, whose value is the name of the content profile assigned to the domain.</p> <p>The name of this attribute may vary by the schema of your LDAP directory.</p> <p>If you do not specify this attribute at all (that is, leave this field blank), the content profile in the matched recipient-based policy will be used.</p>	

Variable	Description	Default
dereferencing {never always search find}	Select the method to use, if any, when dereferencing attributes whose values are references. <ul style="list-style-type: none"> <code>never</code>: Do not dereference. <code>always</code>: Always dereference. <code>search</code>: Dereference only when searching. <code>find</code>: Dereference only when finding the base search object. 	never
display-name	Enter the LDAP address mapping display name attribute.	
domain-antispam-attr <attribute_str>	Enter the name of the antispam profile attribute, such as <code>businessCategory</code> , whose value is the name of the antispam profile assigned to the domain. The name of this attribute may vary by the schema of your LDAP directory.	
domain-antivirus-attr <attribute_str>	Enter the name of the antivirus profile attribute, such as <code>preferredLanguage</code> , whose value is the name of the antivirus profile assigned to the domain. The name of this attribute may vary by the schema of your LDAP directory.	
domain-content-attr	Enter the content attribute name.	
domain-override {enable disable}	Enable or disable system admin domain override.	
domain-override-attribute	Enter the system admin domain override attribute.	
domain-parent-attr <attribute_str>	Enter the name of the parent domain attribute, such as <code>description</code> , whose value is the name of the parent domain from which a domain inherit the specific RCPT check settings and quarantine report settings. The name of this attribute may vary by the schema of your LDAP directory.	
domain-query <query_str>	Enter an LDAP query filter that selects a set of domain objects, whichever object class contains the attribute you configured for this option, from the LDAP directory. For details on query syntax, refer to any standard LDAP query filter reference manual. For this option to work, your LDAP directory should contain a single generic user for each domain. The user entry should be configured with attributes to represent the following: parent domain from which a domain inherits the specific RCPT check settings and quarantine report settings. For example, <code>description=parent.com</code>	

Variable	Description	Default
	<p>IP address of the backend mail server hosting the mailboxes of the domain. For example, <code>mailHost=192.168.1.105</code></p> <p>antispam profile assigned to the domain. For example, <code>businessCategory=parentAntispam</code></p> <p>antivirus profile assigned to the domain. For example, <code>preferredLanguage=parentAntivirus</code></p>	
domain-routing-mail-host-attr <attribute_str>	<p>Enter the name of the mail host attribute, such as <code>mailHost</code>, whose value is the name of the IP address of the backend mail server hosting the mailboxes of the domain.</p> <p>The name of this attribute may vary by the schema of your LDAP directory.</p>	
domain-state {enable disable}	<p>Enable or disable the domain lookup option.</p> <p>For more information about domain lookup, see domain-query <query_str> on page 197.</p>	disable
external-address <attribute_str>	<p>Enter the name of the attribute, such as <code>externalAddress</code>, whose value is an email address in the same or another protected domain.</p> <p>This email address will be rewritten into the value of internal-address <attribute_str> on page 201 according to the match conditions and effects described in Match evaluation and rewrite behavior for email address mappings: on page 206.</p> <p>The name of this attribute may vary by the schema of your LDAP directory.</p>	extAddress
fallback-port <port_int>	<p>If you have configured a backup LDAP server that listens on a nonstandard port number, enter the TCP port number.</p> <p>The standard port number for LDAP is 389. The standard port number for SSL-secured LDAP is 636.</p>	389

Variable	Description	Default
	The FortiMail unit will use SSL-secured LDAP to connect to the server if <code>secure</code> is <code>ssl</code> .	
<code>fallback-server</code> {<fqdn_str> <server_ipv4>}	Enter either the fully qualified domain name (FQDN) or IP address of the backup LDAP server. If there is no fallback server, enter an empty string (").	
<code>group-base-dn</code> <basedn_str>	Enter the base DN portion of the group's full DN, such as <code>ou=Groups,dc=example,dc=com</code> . This command applies only if <code>group-relative-name</code> is <code>enable</code> .	
<code>group-expansion-level</code>	Enter how many levels of nested groups will be expanded for lookup. Valid range is 1-6.	1
<code>group-membership-attribute</code> <attribute_str>	Enter the name of the attribute, such as <code>memberOf</code> or <code>gidNumber</code> , whose value is the group number or DN of a group to which the user belongs. This attribute must be present in user objects. Whether the value must use common name, group number, or DN syntax varies by your LDAP server schema. For example, if your user objects use both <code>inetOrgPerson</code> and <code>posixAccount</code> schema, user objects have the attribute <code>gidNumber</code> , whose value must be an integer that is the group ID number, such as 10000.	
<code>group-name-attribute</code> <attribute_str>	Enter the name of the attribute, such as <code>cn</code> , whose value is the group name of a group to which the user belongs. This command applies only if <code>group-relative-name</code> is <code>enable</code> .	
<code>group-owner</code> {enable disable}	Enable to query the group object by its distinguished name (DN) to retrieve the DN of the group owner, which is a user that will receive that group's spam reports. Using that user's DN, the FortiMail unit will then perform a second query to retrieve that user's email address, where the spam report will be sent. For more information on sending spam reports to the group owner, see config domain-setting on page 90 .	disable
<code>group-owner-address-attribute</code> <attribute_str>	Enter the name of the attribute, such as <code>mail</code> , whose value is the group owner's email address.	

Variable	Description	Default
	If <code>group-owner</code> is enable, this attribute must be present in user objects.	
group-owner-attribute <attribute_str>	<p>Enter the name of the attribute, such as <code>groupOwner</code>, whose value is the distinguished name of a user object. You can configure the FortiMail unit to allow that user to be responsible for handling the group's spam report.</p> <p>If <code>group-owner</code> is enable, this attribute must be present in group objects.</p>	
group-relative-name {enable disable}	<p>Enable to specify the base distinguished name (DN) portion of the group's full distinguished name (DN) in the LDAP profile. By specifying the group's base DN and the name of its group name attribute in the LDAP profile, you will only need to supply the group name value when configuring each feature that uses this query.</p> <p>For example, you might find it more convenient in each recipient-based policy to type only the group name, <code>admins</code>, rather than typing the full DN, <code>cn=admins,ou=Groups,dc=example,dc=com</code>. In this case, you could enable this option, then <code>basedn (ou=Groups,dc=example,dc=com)</code> and <code>groupnameattribute (cn)</code>. When performing the query, the FortiMail unit would assemble the full DN by inserting the common name that you configured in the recipient-based policy between the <code>groupnameattribute</code> and the <code>basedn</code> configured in the LDAP profile.</p> <p>Note: Enabling this option is appropriate only if your LDAP server's schema specifies that the group membership attribute's value must use DN syntax. It is not appropriate if this value uses another type of syntax, such as a number or common name.</p> <p>For example, if your user objects use both <code>inetOrgPerson</code> and <code>posixAccount</code> schema, user objects have the attribute <code>gidNumber</code>, whose value must be an integer that is the group ID number, such as <code>10000</code>. Because a group ID number does not use DN syntax, you would not enable this option.</p>	disable
group-virtual {enable disable}	<p>Enable to use objects within the base DN of base-dn <basedn_str> on page 195 as if they were members of a user group object.</p>	disable

Variable	Description	Default
	For example, your LDAP directory might not contain user group objects. In that sense, groups do not really exist in the LDAP directory. However, you could mimic a group's presence by enabling this option to treat all users that are child objects of the base DN in the user object query as if they were members of such a group.	
groupstate {enable disable}	Enable to perform LDAP group queries.	disable
internal-address <attribute_str>	<p>Enter the name of the LDAP attribute, such as <code>internalAddress</code>, whose value is an email address in the same or another protected domain.</p> <p>This email address will be rewritten into the value of <code>external-address <attribute_str></code> on page 198 according to the match conditions and effects described in Match evaluation and rewrite behavior for email address mappings: on page 206.</p> <p>The name of this attribute may vary by the schema of your LDAP directory.</p>	intAddress
port <port_int>	<p>If you have configured a backup LDAP server that listens on a nonstandard port number, enter the TCP port number.</p> <p>The standard port number for LDAP is 389. The standard port number for SSL-secured LDAP is 636.</p>	389
query <query_str>	<p>Enter an LDAP query filter, enclosed in single quotes ('), that selects a set of user objects from the LDAP directory.</p> <p>The query filter string filters the result set, and should be based upon any attributes that are common to all user objects but also exclude non-user objects.</p> <p>For example, if user objects in your directory have two distinguishing characteristics, their <code>objectClass</code> and <code>mail</code> attributes, the query filter might be:</p> <pre>(& (objectClass=inetOrgPerson) (mail=\$m))</pre> <p>where <code>\$m</code> is the FortiMail variable for a user's email address.</p>	(& (objectClass=inetOrgPerson) (mail=\$m))

Variable	Description	Default
	<p>If the email address (\$m) as it appears in the message header is different from the user's email address as it appears in the LDAP directory, such as when you have enabled recipient tagging, a query for the user by the email address (\$m) may fail. In this case, you can modify the query filter to subtract prepended or appended text from the user name portion of the email address before performing the LDAP query. For example, to subtract "-spam" from the end of the user name portion of the recipient email address, you could use the query filter:</p> <pre>(& (objectClass=inetOrgPerson) (mail=\$m\$ {-spam}))</pre> <p>where \${-spam} is the FortiMail variable for the tag to remove before performing the query. Similarly, to subtract "spam-" from the beginning of the user name portion of the recipient email address, you could use the query filter:</p> <pre>(& (objectClass=inetOrgPerson) (mail=\$m\$ {^spam-}))</pre> <p>where \${^spam-} is the FortiMail variable for the tag to remove before performing the query.</p> <p>For some schemas, such as Microsoft Active Directory-style schemas, this query will retrieve both the user's primary email address and the user's alias email addresses. If your schema style is different, you may want to also configure an alias query to resolve aliases.</p> <p>For details on query syntax, refer to any standard LDAP query filter reference manual.</p> <p>This command applies only if <code>schema</code> is <code>userdefined</code>.</p>	

Variable	Description	Default
rcpt-vrfy-bypass {enable disable}	If you have selected using LDAP server to verify recipient address and your LDAP server is down, enabling this option abandons recipient address verification and the FortiMail unit will continue relaying email.	disable
referrals-chase {enable disable}	Enable chase referrals.	disable
routing-mail-host <attribute_str>	Enter the name of the LDAP attribute, such as <code>mailHost</code> , whose value is the fully qualified domain name (FQDN) or IP address of the email server that stores email for the user's email account.	mailHost
routing-mail-addr <attribute_str>	<p>Enter the name of the LDAP attribute, such as <code>mailRoutingAddress</code>, whose value is the email address of a deliverable user on the email server, also known as the mail host.</p> <p>For example, a user may have many aliases and external email addresses that are not necessarily known to the email server. These addresses would all map to a real email account (mail routing address) on the email server (mail host) where the user's email is actually stored.</p> <p>A user's recipient email address located in the envelope or header portion of each email will be rewritten to this address.</p>	mailRoutingAddress
routing-state {enable disable}	Enable to perform LDAP queries for mail routing.	disable
schema {activedirectory dominoperson inetlocalmailrcpt inetorgperson userdefined}	<p>Enter either the name of the LDAP directory's schema, or enter <code>userdefined</code> to indicate a custom schema.</p> <p>If you enter <code>userdefined</code>, you must configure <code>query</code>.</p>	inetorgperson
scope {base one sub}	<p>Enter which level of depth to query:</p> <p><code>base</code>: Query the <code>basedn</code> level.</p> <p><code>one</code>: Query only the one level directly below the <code>basedn</code> in the LDAP directory tree.</p> <p><code>sub</code>: Query recursively all levels below the <code>basedn</code> in the LDAP directory tree.</p>	sub
secure {none ssl}	<p>Enter a value to indicate whether or not to connect to the LDAP server(s) using an encrypted connection.</p> <p><code>none</code>: Use a non-secure connection.</p> <p><code>SSL</code>: Use an SSL-secured (LDAPS) connection.</p>	none

Variable	Description	Default
	<p>Note: If your FortiMail unit is deployed in server mode, and you want to enable webmail-password-change {enable disable} on page 205 using an LDAP server that uses a Microsoft ActiveDirectory-style schema, you must select SSL. ActiveDirectory servers require a secure connection for queries that change user passwords.</p>	
server <name_str>	Enter the fully qualified domain name (FQDN) or IP address of the LDAP server.	
timeout <timeout_int>	Enter the maximum amount of time in seconds that the FortiMail unit will wait for query responses from the LDAP server.	10
unauth-bind {enable disable}	<p>An unauthenticated bind is a bind where the user supplies a user name with no password. Some LDAP servers (such as Active Directory) allow unauthenticated bind by default. For better security, FortiMail does not accept empty password when doing LDAP authentication even if the backend LDAP server allows it.</p> <p>In some cases, such as allowing all members of a distribution list to access their quarantined email in gateway and transparent mode, this option needs to be enabled in the LDAP profile, so that FortiMail can accept LDAP authentication requests with empty password (user name must not be empty), and forward such requests to the backend LDAP server. If unauthenticated bind is permitted by the LDAP server, AND if the user exists on the server, FortiMail will consider authentication successful and grant access to the user.</p> <p>It is highly recommended that a dedicated LDAP profile (with this option enabled) is used for the above case. All other users should use separate LDAP profiles with this option disabled (this is the default setting) to maintain maximum security.</p> <p>Note: This option is available in CLI only. And it only takes effect for webmail access in gateway and transparent mode.</p>	disable
upn-suffix <upns_str>	If you want to use a UPN other than the mail domain, enter that UPN. This can be useful if users authenticate with a domain other than the mail server's principal domain name.	
version {ver2 ver3}	Enter the version of the protocol used to communicate with the LDAP server.	ver3

Variable	Description	Default
webmail-password-change {enable disable}	Enable to perform password change queries for FortiMail webmail users.	disable
webmail-password-schema {openldap activedirectory}	<p>Enter one of the following to indicate the schema of your LDAP directory:</p> <p><code>openldap</code>: The LDAP directory uses an OpenLDAP-style schema.</p> <p><code>activedirectory</code>: The LDAP directory uses a Microsoft Active Directory-style schema.</p> <p>Note: Microsoft Active Directory requires that password changes occur over an SSL-secured connection.</p>	openldap

Email address mapping

Address mappings are bidirectional, one-to-one or many-to-many mappings. They can be useful when:

- you want to hide a protected domain's true email addresses from recipients
- a mail domain's domain name is not globally DNS-resolvable, and you want to replace the domain name with one that is
- you want to rewrite email addresses

Like aliases, address mappings translate email addresses. They do not translate many email addresses into a single email address. However, **unlike** aliases:

- Mappings cannot translate one email address into many.
- Mappings cannot translate an email address into one that belongs to an unprotected domain. (This restriction applies to locally defined address mappings only. This is not enforced for mappings defined on an LDAP server.)
- Mappings are applied bidirectionally, when an email is outgoing as well as when it is incoming to the protected domain.
- Mappings may affect both sender and recipient email addresses, and may affect those email addresses in both the message envelope and the message header, depending on the match condition.

The following table illustrates the sequence in which parts of each email are compared with address mappings for a match, and which locations' email addresses are translated if a match is found.



Both `RCPT TO:` and `MAIL FROM:` email addresses are always evaluated for a match with an address mapping. If both `RCPT TO:` and `MAIL FROM:` contain email addresses that match the mapping, both mapping translations will be performed.

Match evaluation and rewrite behavior for email address mappings:

Order of evaluation	Match condition	If yes...	Rewrite to...
1	Does <code>RCPT TO:</code> match an external email address?	Replace <code>RCPT TO:</code> .	Internal email address
2	Does <code>MAIL FROM:</code> match an internal email address?	For each of the following, if it matches an internal email address, replace it: <code>MAIL FROM:</code> <code>RCPT TO:</code> <code>From:</code> <code>To:</code> <code>Return-Path:</code> <code>Cc:</code> <code>Reply-To:</code> <code>Return-Receipt-To:</code> <code>Resent-From:</code> <code>Resent-Sender:</code> <code>Delivery-Receipt-To:</code> <code>Disposition-Notification-To:</code>	External email address

For example, you could create an address mapping between the internal email address `user1@marketing.example.net` and the external email address `sales@example.com`. The following effects would be observable on the simplest case of an outgoing email and an incoming reply:

For email from `user1@marketing.example.net` to others: `user1@marketing.example.net` in both the message envelope (`MAIL FROM:`) and many message headers (`From:`, etc.) would then be replaced with `sales@example.com`. Recipients would only be aware of the email address `sales@example.com`.

For email to `sales@example.com` from others: The recipient address in the message envelope (`RCPT TO:`), but **not** the message header (`To:`), would be replaced with `user1@marketing.example.net`. `user1@marketing.example.net` would be aware that the sender had originally sent the email to the mapped address, `sales@example.com`.

Alternatively, you can configure an LDAP profile to query for email address mappings.

Related topics

[profile authentication on page 166](#)

profile notification

Use this command configure a notification profile.

Syntax

```
config profile notification
edit <profile_name> on page 207
    set attach-original-message {enable | disable} on page 207
    set email-template <template_name> on page 207
    set other <recipient_address> on page 207
    set recipient {none | other | recipient | sender} on page 207
    set type {generic | sender_addr_rate_ctrl} on page 207
end
```

Variable	Description	Default
<profile_name>	Enter the name of the notification profile.	
attach-original-message {enable disable}	Enable to include the original message as attachment in the notification email.	disable
email-template <template_name>	Specify the email template to use.	default
other <recipient_address>	Specify the recipient address for the notification email.	
recipient {none other recipient sender}	Specify who you want to send the notification to.	none
type {generic sender_addr_rate_ctrl}	Specify the type of notification profile.	generic

profile resource

Use this command configure a resource profile.



This command only applies in the server mode.

Syntax

```
config profile resource
edit <profile_name> on page 208
    set auto-check-message on page 208
    set auto-delete-old-mail <days> on page 208
    set unread-days on page 245
    set auto-delete-trash-folder <days> on page 208
    set auto-forward {enable | disable} on page 208
    set auto-reply {enable | disable} on page 208
    set message-filter {enable | disable} on page 208
```

```

set mobile-access {enable | disable} on page 208
set outbound-whitelist on page 208
set quarantine-bcc-addr on page 208
set quarantine-bcc-status on page 208
set quarantine-days on page 208
set quarantine-report on page 208
set quota <number_mb> on page 208
set release-auto-whitelist on page 208
set release-through-email on page 209
set release-through-web on page 209
set status {enable | disable} on page 209
set webmail-access {enable | disable} on page 209
set webmail-addressbook-access {domain | none | system} on page 209
set webmail-user-preference on page 209

```

end

Variable	Description	Default
auto-check-message	Enable or disable auto checking new messages in webmail.	disable
<profile_name>	Enter the name of the notification profile.	
auto-delete-old-mail <days>	Enter the number of days after which the FortiMail unit will automatically delete email that is locally hosted. 0 means not to delete email.	0
auto-delete-sent-folder <days>	Enter the number of days after which the FortiMail unit will automatically delete email in the sent folder. 0 means not to delete email.	0
auto-delete-trash-folder <days>	Enter the number of days after which the FortiMail unit will automatically empty the trash folder. 0 means not to delete email.	14
auto-forward <enable disable>	Enable to allow auto forward in webmail.	
auto-reply <enable disable>	Enable to allow auto reply in webmail.	
message-filter <enable disable>	Enable to allow message filtering in webmail.	
mobile-access {enable disable}	Enable to allow mobile users to access their email via webmail.	enable
outbound-whitelist	Enable or disable automatically updating personal white lists from sent emails.	disable
quarantine-bcc-addr	Enter the comma separated email address of BCC.	
quarantine-bcc-status	Enable or disable bcc messages to specified emails when quarantined emails released.	disable
quarantine-days	Enter the number of days a quarantined message is kept. Enter 0 for indefinitely.	
quarantine-report	Generates a summary report of the quarantined emails.	
quota <number_mb>	Enter the user's disk space quota in Megabytes.	200
release-auto-whitelist	Automatically add sender of a released message to personal white list.	

Variable	Description	Default
release-through-email	Enable or disable auto release quarantined emails through email	disable
release-through-web	Enable or disable auto release quarantined emails through the web.	disable
status {enable disable}	Enable or disable the user account.	enable
webmail-access {enable disable}	Enable or disable user's webmail access.	enable
webmail-addressbook-access {domain none system}	Enable or disable user access to system and/or domain address book.	domain
webmail-user-preference {enable disable}	Use this command to turn on/off the user preference option on the webmail.	enable
webmail-user-preference	Change webmail user access user preferences.	

profile session

Use this command to create session profiles.

While, like antispam profiles, session profiles protect against spam, session profiles focus on the connection and envelope portion of the SMTP session, rather than the message header, body, or attachments.

Similar to access control rules or delivery rules, session profiles control aspects of sessions in an SMTP connection.

Syntax

```
config profile session
edit <profile_name> on page 211
set block-encrypted {enable | disable} on page 211
set bypass-bounce-verification {enable | disable} on page 211
set check-client-ip-quick {enable | disable} on page 211
set conn-blacklisted {enable | disable} on page 212
set conn-concurrent <connections_int> on page 212
set conn-hidden {enable | disable} on page 212
set conn-idle-timeout <timeout_int> on page 212
set conn-total <connections_int> on page 213
set dkim-signing {enable | disable} on page 213
set dkim-signing-authenticated-only {enable | disable} on page 213
set dkim-validation {enable | disable} on page 213
set domain-key-validation {enable | disable} on page 213
set domain-key-validation {enable | disable} on page 213
set email-queue {default | incoming | no-preference | outgoing} on page 214
set endpoint-reputation {enable | disable} on page 214
set endpoint-reputation-action {reject | monitor} on page 214
set endpoint-reputation-blacklist-duration <duration_int> on page 214
set endpoint-reputation-blacklist-trigger <trigger_int> on page 214
set eom-ack {enable | disable} on page 214
set error-drop-after <errors_int> on page 214
```

```
set error-penalty-increment <penalty-increment_int> on page 215
set error-penalty-initial <penalty-initial_int> on page 215
set error-penalty-threshold <threshold_int> on page 215
set limit-NOOPs <limit_int> on page 215
set limit-RSETs <limit_int> on page 215
set limit-email <limit_int> on page 215
set limit-helo <limit_int> on page 215
set limit-max-header-size <limit_int> on page 215
set expire-inactivity <days_int> on page 244
set limit-recipient <limit_int> on page 215
set mail-route <profile_name> on page 215
set number-of-messages <limit_int> on page 215
set number-of-recipients <limit_int> on page 216
set recipient-blacklist-status {enable | disable} on page 216
set recipient-rewrite-map <profile_name> on page 216
set recipient-whitelist-status {enable | disable} on page 216
set remote-log <profile_name> on page 216
set remove-headers {enable | disable} on page 216
set remove-received-headers {enable | disable} on page 216
set sender-blacklist-status {enable | disable} on page 216
set sender-reputation-reject-score <threshold_int> on page 216
set sender-reputation-status {enable | disable} on page 216
set sender-reputation-tempfail-score <threshold_int> on page 217
set sender-reputation-throttle-number <rate_int> on page 217
set sender-reputation-throttle-percentage <percentage_int> on page 217
set sender-reputation-throttle-score <threshold_int> on page 217
set sender-reputation-throttle-number <num_integer> on page 217
set sender-reputation-throttle-percentage <percentage_int> on page 217
set sender-reputation-throttle-score <threshold_int> on page 217
set sender-whitelist-status {enable | disable} on page 217
set session-3way-check {enable | disable} on page 217
set session-allow-pipelining {no | loose | strict} on page 218
set session-command-checking {enable | disable} on page 218
set session-disallow-encrypted {enable | disable} on page 218
set session-helo-char-validation {enable | disable} on page 218
set session-helo-domain-check {enable | disable} on page 219
set session-helo-rewrite-clientip {enable | disable} on page 220
set session-helo-rewrite-custom {enable | disable} on page 220
set session-helo-rewrite-custom-string <helo_str> on page 220
set session-prevent-open-relay {enable | disable} on page 220
set session-recipient-domain-check {enable | disable} on page 220
set session-reject-empty-domain {enable | disable} on page 221
set session-sender-domain-check {enable | disable} on page 221
set spf-validation {enable | disable} on page 221
set splice-status {enable | disable} on page 221
set splice-threshold on page 222
set splice-unit {seconds | kilobytes} on page 222
config header-removal-list
  edit <key_str> on page 211
config recipient-blacklist
  edit <recipient_address_str> on page 211
config recipient-whitelist
  edit <recipient_address_str> on page 211
config sender-blacklist
  edit <sender_address_str> on page 211
config sender-whitelist
  edit <sender_address_str> on page 211
```

```

    next
end

```

Variable	Description	Default
<profile_name>	Enter the name of the session profile.	
<key_str>	Enter a header key to remove it from email messages.	
<recipient_address_str>	Enter a blacklisted recipient email address to which this profile is applied.	
<recipient_address_str>	Enter a whitelisted recipient email address to which this profile is applied.	
<sender_address_str>	Enter a blacklisted sender email address to which this profile is applied.	
<sender_address_str>	Enter a whitelisted sender email address to which this profile is applied.	
block_encrypted {enable disable}	<p>Enable to block TLS/MD5 commands so that email must pass unencrypted, enabling the FortiMail unit to scan the email for viruses and spam.</p> <p>Disable to pass TLS/MD5 commands, allowing encrypted email to pass. The FortiMail unit cannot scan encrypted email for viruses and spam.</p> <p>This option applies only if the FortiMail unit is operating in transparent mode.</p>	disable
bypass-bounce-verification {enable disable}	<p>Select to, if bounce verification is enabled, omit verification of bounce address tags on incoming bounce messages.</p> <p>This bypass does not omit bounce address tagging of outgoing email.</p> <p>Alternatively, you can omit bounce verification according to the protected domain. For details, see config domain-setting on page 90.</p> <p>For information on enabling bounce address tagging and verification (BATV), see antispam bounce-verification on page 42.</p>	disable
check-client-ip-quick {enable disable}	<p>Enable to query the FortiGuard Antispam Service to determine if the IP address of the SMTP server is blacklisted. This action will happen during the connection phase.</p> <p>In an antispam profile, you can also enable FortiGuard black IP checking. But that action happens after the entire message has been received by FortiMail.</p> <p>Therefore, if this feature is enabled in a session profile and the action is reject, the performance will be improved.</p>	disable

Variable	Description	Default
conn-blacklisted {enable disable}	<p>Enable to prevent clients from using SMTP servers that have been blacklisted in antispam profiles or, if enabled, the FortiGuard AntiSpam service.</p> <p>This option applies only if the FortiMail unit is operating in transparent mode.</p>	disable
conn-concurrent <connections_int>	<p>Enter a limit to the number of concurrent connections per SMTP client. Additional connections are rejected.</p> <p>To disable the limit, enter 0.</p>	0
conn-hidden {enable disable}	<p>Enter either of the following transparency behaviors:</p> <p>enable: Be transparent. Preserve the IP address or domain name in: the SMTP greeting (HELO/EHLO) in the envelope, the <code>Received:</code> Message headers of email messages, and the IP addresses in the IP header source and destination. This masks the existence of the FortiMail unit to the protected SMTP server.</p> <p>disable: Do not be transparent. Replace the SMTP client's IP addresses or domain names with that of the FortiMail unit.</p> <p>This option applies only if the FortiMail unit is operating in transparent mode. For more information about the proxies and built-in MTA transparency, see the FortiMail Administration Guide.</p> <p>Note: Unless you have enabled <code>exclusive {enable disable}</code> on page 141 in config policy delivery-control on page 139, the <code>hide (tp-hidden {no yes} on page 100)</code> option in config domain-setting on page 90 has precedence over this option, and may prevent it from applying to incoming email messages.</p> <p>Note: For full transparency, also set the <code>hide (tp-hidden {no yes} on page 100)</code> option in config domain-setting on page 90 to <code>yes</code>.</p>	disable
conn-idle-timeout <timeout_int>	<p>Enter a limit to the number of seconds a client may be inactive before the FortiMail unit drops the connection.</p> <p>Set the value between 5-1200.</p>	30
conn-rate-number <connections_int>	<p>This is a rate limit to the number of messages sent per client IP address per time interval (the default value is 30 minutes).</p> <p>You set the time interval using the command:</p> <pre>config antispam settings set session-profile-rate-control-interval <minutes> end</pre> <p>To disable the limit, enter 0.</p>	0

Variable	Description	Default
conn-total <connections_ int>	Enter a limit to the total number of concurrent connections from all sources. To disable the limit, enter 0.	0
dkim-signing {enable disable}	Enable to sign outgoing email with a DKIM signature. This option requires that you first generate a domain key pair and publish the public key in the DNS record for the domain name of the protected domain. If you do not publish the public key, destination SMTP servers will not be able to validate your DKIM signature. For details on generating domain key pairs and publishing the public key, see the FortiMail Administration Guide .	disable
dkim-signing- authenticated-only {enable disable}	Enable to sign outgoing email with a DKIM signature only if the sender is authenticated. This option is available only if <code>dkim-signing</code> is <code>enable</code> .	disable
dkim-validation {enable disable}	Enable to, if a DKIM signature is present, query the DNS server that hosts the DNS record for the sender's domain name to retrieve its public key to decrypt and verify the DKIM signature. An invalid signature increases the client sender reputation score and affect the deep header scan. A valid signature decreases the client sender reputation score. If the sender domain DNS record does not include DKIM information or the message is not signed, the FortiMail unit omits the DKIM signature validation.	disable
domain-key-validation {enable disable}	Enable if the DNS record for the domain name of the sender lists DomainKeys. An unauthorized client IP address increases the client sender reputation score. An authorized client IP address decreases the client sender reputation score. If the DNS record for the domain name of the sender does not publish DomainKeys information, the FortiMail unit omits the DomainKeys client IP address validation.	disable
email-addr-rewrite-options {envelope-from envelope- from-as-key envelope-to header-from header-to reply-to}	Specify which sender and recipient addresses to rewrite. For more details, see the session profile section in the FortiMail Administration Guide.	

Variable	Description	Default
email-queue {default incoming no-preference outgoing}	Enter the email queue to use for the matching sessions.	no-preference
endpoint-reputation {enable disable}	<p>Enable to accept, monitor, or reject email based upon endpoint reputation scores.</p> <p>This option is designed for use with SMTP clients with dynamic IP addresses. It requires that your RADIUS server provide mappings between dynamic IP addresses and MSISDNs/subscriber IDs to the FortiMail unit. If this profile governs sessions of SMTP clients with static IP addresses, instead consider sender-reputation-status {enable disable} on page 216.</p>	disable
endpoint-reputation-action {reject monitor}	<p>Enter either:</p> <p>reject: Reject email and MMS messages from MSISDNs/subscriber IDs whose MSISDN reputation scores exceed Auto blacklist score trigger value.</p> <p>monitor: Log, but do not reject, email and MMS messages from MSISDNs/subscriber IDs whose MSISDN reputation scores exceed <code>endpoint-reputation-blacklist-trigger</code> value. Log entries appear in the history log.</p>	reject
endpoint-reputation-blacklist-duration <duration_int>	Enter the number of minutes that an MSISDN/subscriber ID will be prevented from sending email or MMS messages after they have been automatically blacklisted.	0
endpoint-reputation-blacklist-trigger <trigger_int>	<p>Enter the MSISDN reputation score over which the FortiMail unit will add the MSISDN/subscriber ID to the automatic blacklist.</p> <p>The trigger score is relative to the period of time configured as the automatic blacklist window.</p>	5
eom-ack {enable disable}	<p>Enable to acknowledge the end of message (EOM) signal immediately after receiving the carriage return and line feed (CRLF) characters that indicate the EOM, rather than waiting for antispam scanning to complete.</p> <p>If the FortiMail unit has not yet completed antispam scanning by the time that four (4) minutes has elapsed, it will return SMTP reply code 451(<code>Try again later</code>), resulting in no permanent problems, as according to RFC 2281, the minimum timeout value should be 10 minutes. However, in rare cases where the server or client's timeout is shorter than 4 minutes, the sending client or server could time-out while waiting for the FortiMail unit to acknowledge the EOM command. Enabling this option prevents those rare cases.</p>	disable
error-drop-after <errors_int>	Enter the total number of errors the FortiMail unit will accept before dropping the connection.	5

Variable	Description	Default
error-penalty-increment <penalty-increment_int>	Enter the number of seconds by which to increase the delay for each error after the first delay is imposed.	1
error-penalty-initial <penalty-initial_int>	Enter the delay penalty in seconds for the first error after the number of "free" errors is reached.	1
error-penalty-threshold <threshold_int>	Enter the number of number of errors permitted before the FortiMail unit will penalize the SMTP client by imposing a delay.	1
limit-NOOPs <limit_int>	Enter the limit of NOOP commands that are permitted per SMTP session. Some spammers use NOOP commands to keep a long session alive. Legitimate sessions usually require few NOOPs. Enter 0 to reset to the default value.	10
limit-RSETs <limit_int>	Enter the limit of RSET commands that are permitted per SMTP session. Some spammers use RSET commands to try again after receiving error messages such as unknown recipient. Legitimate sessions should require few RSETs. To disable the limit, enter 0.	20
limit-email <limit_int>	Enter the limit of email messages per session to prevent mass mailing. To disable the limit, enter 0.	10
limit-helo <limit_int>	Enter the limit of SMTP greetings that a connecting SMTP server or client can perform before the FortiMail unit terminates the connection. Restricting the number of SMTP greetings allowed per session makes it more difficult for spammers to probe the email server for vulnerabilities, as a greater number of attempts results in a greater number of terminated connections, which must then be re-initiated. Enter 0 to reset to the default value.	3
limit-max-header-size <limit_int>	Enter the limit of the message header size. If enabled, messages with headers over the threshold size are rejected.	32
limit-max-message-size <limit_int>	Enter the limit of message size in kilobytes (KB) . If enabled, messages over the threshold size are rejected. Note: If both this option and <code>max-message-size <limit_int></code> on page 94 in the protected domain are enabled, email size will be limited to whichever size is smaller.	10240KB
limit-recipient <limit_int>	Enter the limit of recipients to prevent mass mailing.	500
mail-route <profile_name>	Enter a mail routing profile to be used in a session profile.	
number-of-messages <limit_int>	Enter the number of message per client per time interval (the default value is 30 minutes). You set the time interval using the command:	0

Variable	Description	Default
	<pre>config antispam settings set session-profile-rate-control-interval <minutes> end</pre> <p>Enter 0 to disable the limit.</p>	
number-of-recipients <limit_int>	<p>Enter the number of recipients per client per time interval (the default value is 30 minutes).</p> <p>You set the time interval using the command:</p> <pre>config antispam settings set session-profile-rate-control-interval <minutes> end</pre> <p>Enter 0 to disable the limit.</p>	0
recipient-blacklist-status {enable disable}	Enable to use an envelope recipient (RCPT TO:) black list in SMTP sessions to which this profile is applied, then define blacklisted email addresses using <recipient_address_str> on page 211 .	disable
recipient-rewrite-map <profile_name>	Enter an address rewrite profile to be used in a session profile.	
recipient-whitelist-status {enable disable}	Enable to use an envelope recipient (RCPT TO:) white list in SMTP sessions to which this profile is applied, then define whitelisted email addresses using <recipient_address_str> on page 211 .	disable
remote-log <profile_name>	Enter a remote logging profile. Note that the remote logging profiles used here are the same as the system-wide remote logging profiles.	
remove-headers {enable disable}	Enable to remove other configured headers from email messages.	disable
remove-received-headers {enable disable}	Enable to remove all Received: message headers from email messages.	disable
sender-blacklist-status {enable disable}	Enable to use an envelope sender (MAIL FROM:) black list in SMTP sessions to which this profile is applied, then define the blacklisted email addresses using <sender_address_str> on page 211 .	disable
sender-reputation-reject-score <threshold_int>	<p>Enter a sender reputation score over which the FortiMail unit will return a rejection error code when the SMTP client attempts to initiate a connection.</p> <p>This option applies only if sender-reputation-status {enable disable} on page 216 is enabled.</p>	80
sender-reputation-status {enable disable}	Enable to reject email based upon sender reputation scores.	disable

Variable	Description	Default
sender-reputation-tempfail-score <threshold_int>	<p>Enter a sender reputation score over which the FortiMail unit will return a temporary failure error code when the SMTP attempts to initiate a connection.</p> <p>This option applies only if sender-reputation-status {enable disable} on page 216 is enabled.</p>	55
sender-reputation-throttle-number <rate_int>	Enter the maximum number of email messages per hour that the FortiMail unit will accept from a throttled SMTP client.	5
sender-reputation-throttle-percentage <percentage_int>	Enter the maximum number of email messages per hour that the FortiMail unit will accept from a throttled SMTP client, as a percentage of the number of email messages that the sender sent during the previous hour.	1
sender-reputation-throttle-score <threshold_int>	<p>Enter the sender reputation score over which the FortiMail unit will rate limit the number of email messages that can be sent by this SMTP client.</p> <p>The enforced rate limit is either sender-reputation-throttle-number <rate_int> on page 217 or sender-reputation-throttle-percentage <percentage_int> on page 217 whichever value is greater.</p> <p>This option applies only if sender-reputation-status {enable disable} on page 216 is enabled.</p>	15
sender-reputation-throttle-number <num_integer>	Enter the maximum number of email messages per hour that the FortiMail unit will accept from a throttled SMTP client.	5
sender-reputation-throttle-percentage <percentage_int>	Enter the maximum number of email messages per hour that the FortiMail unit will accept from a throttled SMTP client, as a percentage of the number of email messages that the SMTP client sent during the previous hour.	1
sender-reputation-throttle-score <threshold_int>	<p>Enter a sender reputation score over which the FortiMail unit will rate limit the number of email messages that can be sent by this SMTP client.</p> <p>Entering 0 means no score limit and thus no action. But FortiMail still monitors the sender reputation and increases or decreases the sender reputation scores accordingly.</p>	35
sender-whitelist-status {enable disable}	Enable to use an envelope sender (MAIL FROM:) white list in SMTP sessions to which this profile is applied, then define whitelisted email addresses using <sender_address_str> on page 211.	disable
session-3way-check {enable disable}	<p>Enable to reject the email if the domain name in the SMTP greeting (HELO/EHLO) and recipient email address (RCPT TO:) match, but the domain name in the sender email address (MAIL FROM:) does not.</p> <p>Mismatching domain names is sometimes used by spammers to mask the true identity of their SMTP client.</p> <p>This check only affects unauthenticated sessions.</p>	disable

Variable	Description	Default
session-allow-pipelining {no loose strict}	<p>Select one of the following behaviors for ESMTP command pipelining, which causes some SMTP commands to be accepted and processed as a batch, increasing performance over high-latency connections.</p> <p>no: Disabled. The FortiMail unit accepts only one command at a time during an SMTP session and will not accept the next command until it completes processing of the previous command.</p> <p>loose: Enabled, and does not require strict compliance with RFC2920.</p> <p>strict: Enabled, but requires strict compliance with RFC 2920.</p> <p>This option applies only if the FortiMail unit is operating in transparent mode.</p>	no
session-command-checking {enable disable}	<p>Enable to return SMTP reply code 503, rejecting the SMTP command, if the client or server uses SMTP commands that are syntactically incorrect.</p> <p>EHLO or HELO, MAIL FROM:, RCPT TO: (can be multiple), and DATA commands must be in that order. AUTH, STARTTLS, RSET, NOOP commands can arrive at any time. Other commands, or commands in an unacceptable order, return a syntax error.</p> <p>In the following example, the invalid commands are highlighted in bold:</p> <pre>220 FortiMail-400.localdomain ESMTP Smtpd; Wed, 14 Feb 2008 13:41:15 GMT EHLO example.com 250-FortiMail-400.localdomain Hello [192.168.1.1], pleased to meet you RCPT TO:<user1@example.com> 503 5.0.0 Need MAIL before RCPT</pre>	disable
session-disallow-encrypted {enable disable}	<p>Enable to block TLS/MD5 commands so that email must pass unencrypted, enabling the FortiMail unit to scan the email for viruses and spam.</p> <p>Clear to pass TLS/MD5 commands, allowing encrypted email to pass. The FortiMail unit cannot scan encrypted email for viruses and spam.</p> <p>This option applies only if the FortiMail unit is operating in transparent mode.</p>	disable
session-helo-char-validation {enable disable}	<p>Enable to return SMTP reply code 501, rejecting the SMTP greeting, if the client or server uses a greeting that contains a domain name with invalid characters.</p>	disable

Variable	Description	Default
	<p>To avoid disclosure of a real domain name, spammers sometimes spoof an SMTP greeting domain name with random characters, rather than using a genuine, valid domain name. If this option is enabled, such connections are rejected.</p> <p>In the following example, the invalid command is highlighted in bold:</p> <pre>220 FortiMail-400.localdomain ESMTP Smtpd; Wed, 14 Feb 2008 13:30:20 GMT EHLO ^^&^&^#\$</pre> <p>501 5.0.0 Invalid domain name</p> <p>Valid characters for domain names include:</p> <ul style="list-style-type: none"> • alphanumerics (A to Z and 0 to 9) • brackets ([and]) • periods (.) • dashes (-) • underscores (_) • number symbols(#) • colons (:) 	
session-helo-domain-check {enable disable}	<p>Enable to return SMTP reply code 501, rejecting the SMTP greeting, if the client or server uses a greeting that contains a domain name with invalid characters.</p> <p>To avoid disclosure of a real domain name, spammers sometimes spoof an SMTP greeting domain name with random characters, rather than using a genuine, valid domain name. If this option is enabled, such connections are rejected.</p> <p>In the following example, the invalid command is highlighted in bold:</p> <pre>220 FortiMail-400.localdomain ESMTP Smtpd; Wed, 14 Feb 2008 13:30:20 GMT EHLO ^^&^&^#\$</pre> <p>501 5.0.0 Invalid domain name</p> <p>Valid domain characters include:</p> <ul style="list-style-type: none"> • alphanumerics (A to Z and 0 to 9) • brackets ([and]) • periods (.) • dashes (-) • underscores (_) • number symbols(#) • colons (:) 	disable

Variable	Description	Default
session-helo-rewrite-clientip {enable disable}	Enable to rewrite the <code>HELO/EHLO</code> domain to the IP address of the SMTP client to prevent domain name spoofing. This option applies only if the FortiMail unit is operating in transparent mode.	disable
session-helo-rewrite-custom {enable disable}	Enable to rewrite the <code>HELO/EHLO</code> domain, then enter the replacement text using session-helo-rewrite-custom-string <helo_str> on page 220. This option applies only if the FortiMail unit is operating in transparent mode.	disable
session-helo-rewrite-custom-string <helo_str>	Enter the replacement text for the <code>HELO/EHLO</code> domain.	
session-prevent-open-relay {enable disable}	Enable to block unauthenticated outgoing connections to unprotected mail servers in order to prevent clients from using open relays to send email. If clients from your protected domains are permitted to use open relays to send email, email from your domain could be blacklisted by other SMTP servers. This feature: <ul style="list-style-type: none"> • applies only if the FortiMail unit is operating in transparent mode, • only affects unauthenticated sessions, and • is applicable only if you allow clients to use an unprotected SMTP server for outgoing connections. For details, see mailsetting proxy-smtp on page 119. 	disable
session-recipient-domain-check {enable disable}	Enable to return SMTP reply code 550, rejecting the SMTP command, if the domain name portion of the recipient address is not a domain name that exists in either MX or A records. In the following example, the invalid command is highlighted in bold: 220 FortiMail-400.localdomain ESMTP Smtpd; Wed, 14 Feb 2008 14:48:32 GMT EHLO example.com 250-FortiMail-400.localdomain Hello [192.168.1.1], pleased to meet you MAIL FROM:<user1@fortinet.com> 250 2.1.0 <user1@fortinet.com>... Sender ok RCPT TO:<user2@example.com> 550 5.7.1 <user2@example.com>... Relaying denied. IP name lookup failed [192.168.1.1] This check only affects unauthenticated sessions.	disable

Variable	Description	Default
session-reject-empty-domain {enable disable}	<p>Enable to return SMTP reply code 553, rejecting the SMTP command, if a domain name does not follow the "@" symbol in the sender email address.</p> <p>Because the sender address is invalid and therefore cannot receive delivery status notifications (DSN), you may want to disable this feature.</p> <p>In the following example, the invalid command is highlighted in bold:</p> <pre>220 FortiMail-400.localdomain ESMTP Smtpd; Wed, 14 Feb 2007 14:48:32 GMT EHLO example.com 250-FortiMail-400.localdomain Hello [192.168.171.217], pleased to meet you MAIL FROM:<john@> 553 5.1.3 <john@>... Hostname required This check only affects unauthenticated sessions.</pre>	disable
session-sender-domain-check {enable disable}	<p>Enable to return SMTP reply code 421, rejecting the SMTP command, if the domain name portion of the sender address is not a domain name that exists in either MX or A records.</p> <p>In the following example, the invalid command is highlighted in bold:</p> <pre>220 FortiMail-400.localdomain ESMTP Smtpd; Wed, 14 Feb 2008 14:32:51 GMT EHLO 250-FortiMail-400.localdomain Hello [192.168.1.1], pleased to meet you MAIL FROM:<user1@example.com> 421 4.3.0 Could not resolve sender domain.</pre>	disable
spf-validation {enable disable}	<p>Enable to, if the sender domain DNS record lists SPF authorized IP addresses, compare the client IP address to the IP addresses of authorized senders in the DNS record.</p> <p>An unauthorized client IP address increases the client sender reputation score. An authorized client IP address decreases the client sender reputation score.</p> <p>If the DNS record for the domain name of the sender does not publish SPF information, the FortiMail unit omits the SPF client IP address validation.</p>	disable
splice-status {enable disable}	<p>Enable to permit splicing.</p> <p>Splicing enables the FortiMail unit to simultaneously scan an email and relay it to the SMTP server. This increases throughput and reduces the risk of a server timeout.</p>	disable

Variable	Description	Default
	<p>If the FortiMail unit detects spam or a virus, it terminates the server connection and returns an error message to the sender, listing the spam or virus name and infected file name.</p> <p>This option applies only if the FortiMail unit is operating in transparent mode.</p>	
splice-threshold <integer>	<p>Enter a threshold value to switch to splice mode based on time (seconds) or data size (kilobytes) using <code>splice-unit {seconds kilobytes}</code> on page 222.</p> <p>This option applies only if the FortiMail unit is operating in transparent mode.</p>	0
splice-unit {seconds kilobytes}	<p>Enter the time (seconds) or data size (kilobytes) for the <code>splice</code> threshold.</p> <p>This option applies only if the FortiMail unit is operating in transparent mode.</p>	seconds

Related topics

[profile encryption on page 186](#) on page 170

profile tls

Use this command to configure TLS profiles that can be used by receive rules (also called access control rules) and delivery rules.

Syntax

```
config profile tls
edit <profile_name> on page 222
    set level {encrypt | none | secure | preferred} on page 222
    set action {fail | tempfail} on page 223
end
```

Variable	Description	Default
<profile_name>	Enter the name of the TLS profile.	
level {encrypt none secure preferred}	Enter the security level of the TLS connection.	preferred

Variable	Description	Default
	<p>encrypt: Requires a basic TLS connection. Failure to negotiate a TLS connection results in the connection being rejected according to the <code>action</code> setting.</p> <p>none: Disables TLS. Requests for a TLS connection will be ignored.</p> <p>preferred: Allow a simple TLS connection, but do not require it. Data is not encrypted, nor is the identity of the server validated with a certificate.</p> <p>secure: Requires a certificate-authenticated TLS connection. CA certificates must be installed on the FortiMail unit before they can be used for secure TLS connections. For information on installing CA certificates, see the FortiMail Administration Guide.</p>	
<code>action {fail tempfail}</code>	<p>Select the action the FortiMail unit takes when a TLS connection cannot be established.</p> <p>This option does not apply for profiles whose <code>level</code> is <code>preferred</code>.</p>	<code>tempfail</code>

Related topics

[o365 profile antivirus on page 131](#)

profile uri-filter

Use this command to configure TLS profiles that can be used by receive rules (also called access control rules) and delivery rules.

Syntax

```
config profile tls
  edit <profile_name> on page 223
    set category <filter_category> on page 223
  end
```

Variable	Description	Default
<code><profile_name></code>	Enter the name of the tls profile.	
<code>category <filter_category></code>	Specify the FortiGuard URI filter to use.	

report

Use this command to configure report profiles that define what information will appear in generated reports.

In addition to log files, FortiMail units require a report profile to be able to generate a report. A report profile is a group of settings that contains the report name, file format, subject matter, and other aspects that the FortiMail unit considers when generating the report.

Syntax

```
config report
edit <profile_name> on page 224
set dest-ip-mask <ip/netmask_str> on page 224
set dest-ip-type {ip-group | ip-mask} on page 224
set direction {both | incoming | outgoing} on page 224
set domains {all | <protected-domain_str>} on page 225
set file-format {html | pdf} on page 225
set period-absolute-from <start_str> on page 225
set period-absolute-to <end_str> on page 225
set period-relative {last-2-weeks | last-7-days | last-14-days | last-30-days |
    last-N-days | last-N-hours | last-N-weeks | last-month | last-quarter |
    last-week | not-used | this-month | this-quarter | this-week | this-year |
    today | yesterday} on page 225
set period-relative-value <n_int> on page 225
set query-status <query_str> on page 225
set recipients <recipient_str> on page 225
set schedule {daily | dates | none | weekdays} on page 225
set schedule-dates <dates_str> on page 226
set schedule-hour <time_int> on page 226
set schedule-weekdays <days_str> on page 226
set sender-domains on page 226
end
```

Variable	Description	Default
<profile_name>	Enter the name of the report profile.	
dest-ip-mask <ip/netmask_str>	Enter the IP address to which reports on logged email messages are destined.	0.0.0.0/32
dest-ip-type {ip-group ip-mask}	Enter the type of the IP address for sending reports on logged email messages.	ip-mask
direction {both incoming outgoing}	Enter one of the following: both: Report on both incoming and outgoing email. incoming: Report only on email whose recipient is a member of a protected domain. outgoing: Report only on email whose recipient is not a member of a protected domain.	both

Variable	Description	Default
domains {all <protected-domain_str>}	Enter either ALL to include all protected domains in the report, or enter a list of one or more protected domains. Separate each protected domain with a comma (,).	all
file-format {html pdf}	Enter the file format of the generated report.	pdf
period-absolute-from <start_str>	Enter the beginning of the time range in the format yyyy-mm-dd-hh, where yyyy is the year, mm is the month, dd is the day, and hh is the hour in 24-hour clock format. For example, entering 2008-10-24-09 includes log messages as early as 9 AM on October 24, 2008.	
period-absolute-to <end_str>	Enter the end of the time range in the format yyyy-mm-dd-hh, where yyyy is the year, mm is the month, dd is the day, and hh is the hour in 24-hour clock format. For example, entering 2009-10-24-17 includes log messages as late as 5 PM on October 24, 2009.	
period-relative {last-2-weeks last-7-days last-14-days last-30-days last-N-days last-N-hours last-N-weeks last-month last-quarter last-week not-used this-month this-quarter this-week this-year today yesterday}	Enter the time span of log messages from which to generate the report. If you entered last-N-days, last-N-hours, or last-N-weeks also configure period-relative-value <n_int> on page 225 .	
period-relative-value <n_int>	If you entered last-N-days, last-N-hours, or last-N-weeks as the value for period-relative, enter the value of n.	
query-status <query_str>	Enter the name of a query whose result you want to include in the report, such as Mail_Stat_Viruses. To display a list of available query names, enter a question mark (?)	
recipients <recipient_str>	Enter a list of one or more recipient email addresses that will receive the report generated from the report profile. Separate each recipient with a comma (,).	
schedule {daily dates none weekdays}	Enter a value to schedule when the report is automatically generated, or to disable generating reports on schedule if you want to initiate them only manually. daily: Generate the report every day.	

Variable	Description	Default
	<p>dates: Generate the report on certain dates in the month. Also configure schedule-dates <dates_str> on page 226.</p> <p>none: If you do not want to automatically generate the report according to a schedule, enter <code>none</code>. You can still manually initiate the FortiMail unit to generate a report at any time.</p> <p>weekdays: Generate the report on certain days of the week. Also configure schedule-weekdays <days_str> on page 226.</p>	
<code>schedule-dates <dates_str></code>	Enter the dates to generate the reports. Separate each date with a comma (,). For example, to generate a report on the first and fourteenth of each month, you would enter <code>1, 14</code> .	
<code>schedule-hour <time_int></code>	<p>If you want to automatically generate the report according to a schedule, enter the hour of the day, according to a 24-hour clock, at which you want to generate the report. Also configure the days on which you want to generate the report.</p> <p>For example, to generate reports at 5 PM, you would enter <code>17</code>.</p>	
<code>schedule-weekdays <days_str></code>	Enter the days to generate the reports. Separate each day with a comma (,). For example, to generate a report on Friday and Wednesday, you would enter <code>wednesday, friday</code> .	
<code>sender-domains</code>	Enter the selected sender domain names (empty means ALL)	

Related topics

[log alertemail setting on page 115](#)

sensitive data

Use this command to configure sensitive data.

Syntax

```
config sensitive-data fingerprint
  edit <fingerprint data name> on page 227
    config document on page 227
      edit <document id> on page 227
        set filename on page 227
```

```

        set signature on page 227
config sensitive-data fingerprint-source
  edit <DLP server name> on page 227
    set file-path on page 227
    set file-pattern on page 227
    set keep-modified on page 227
    set password on page 227
    set period on page 227
    set remove-deleted on page 227
    set scan-subdirectories on page 227
    set server on page 227
    set server-type on page 227
    set username on page 227
  edit linux on page 227
    set file-path on page 227
    set file-pattern on page 227
    set keep-modified on page 227
    set password on page 227
    set period on page 227
    set remove-deleted on page 227
    set scan-subdirectories on page 227
    set server on page 227
    set server-type on page 227
    set username on page 227
end

```

Variable	Description	Default
<fingerprint data name>	Enter the name of the fingerprint data you want to configure.	
document	Enter to examine a list of created document IDs.	
<document id>	Enter the name of the document you want to modify.	
filename	Enter the filename of the fingerprint document.	
signature	Enter the signature of the file.	
fingerprint-source	Enter to configure the fingerprint source.	
<DLP server name>	Enter the name of the DLP server.	
linux	Enter the Linux identifier.	
file-path	Enter the file path on the server.	
file-pattern	Enter the file patterns to fingerprint.	
keep-modified	Keep previous fingerprints for modified files (enable or disable).	
password	Enter the login password.	
period	Select periodic server checking.	
remove-deleted	Remove fingerprints for deleted files (enable or disable).	
scan-subdirectories	Fingerprint files in subdirectories (enable or disable).	
server	Enter the IP address of the server.	
server-type	Enter the DLP server type.	
username	Enter the login username.	

system accprofile

Use this command to configure access profiles that, in conjunction with the domain to which an administrator account is assigned, govern which areas of the web-based manager and CLI that an administrator can access, and whether or not they have the permissions necessary to change the configuration or otherwise modify items in each area.

Syntax

```
config system accprofile
edit <profile_name> on page 228
    set archive {none | read | read-write} on page 228
    set black-white-list {none | read | read-write} on page 228
    set greylist {none | read | read-write} on page 228
    set others {none | read | read-write} on page 228
    set personal-quarantine {none | read | read-write} on page 228
    set policy {none | read | read-write} on page 228
    set system {none | read | read-write} on page 228
    set system-quarantine {none | read | read-write} on page 228
end
```

Variable	Description	Default
<profile_name>	Enter the name of the access profile.	
archive {none read read-write}	For the archiving configuration, enter the permissions that will be granted to administrator accounts associated with this access profile.	none
black-white-list {none read read-write}	For the black and white list configuration, enter the permissions that will be granted to administrator accounts associated with this access profile.	none
greylist {none read read-write}	For the greylist configuration, enter the permissions that will be granted to administrator accounts associated with this access profile.	none
others {none read read-write}	For the rest of the configurations except policy, black-white-list, and quarantine, enter the permissions that will be granted to administrator accounts associated with this access profile.	none
personal-quarantine {none read read-write}	For personal quarantine, enter the permissions that will be granted to administrator accounts associated with this access profile.	none
policy {none read read-write}	For the policy configuration, enter the permissions that will be granted to administrator accounts associated with this access profile.	none
system {none read read-write}	For system settings, enter the permissions that will be granted to administrator accounts associated with this access profile.	none
system-quarantine {none read read-write}	For system quarantine, enter the permissions that will be granted to administrator accounts associated with this access profile.	none

Related topics

system admin on page 229

system admin

Use this command to configure FortiMail administrator accounts.

By default, FortiMail units have a single administrator account, `admin`. For more granular control over administrative access, you can create additional administrator accounts that are restricted to being able to configure a specific protected domain and/or with restricted permissions. For more information, see the [FortiMail Administration Guide](#).

Syntax

```
config system admin
  edit <name_str> on page 229
    set access-profile <profile_name> on page 229
    set auth-strategy {ldap | local | local-plus-radius | pki | radius} on page 229
    set is-system-domain {no | yes} on page 230
    set language <lang_str> on page 230
    set ldap-profile <profile_name> on page 230
    set password <password_str> on page 230
    set pkiuser <pkiuser_str> on page 230
    set radius-permission-check {enable | disable} on page 230
    set radius-profile <profile_int> on page 230
    set radius-subtype-id <subtype_int> on page 230
    set radius-vendor-id <vendor_int> on page 230
    set sshkey <key_str> on page 230
    set status {enable | disable} on page 230
    set theme on page 230
    set theme <theme_str> on page 230
    set trusthosts <host_ipv4mask> on page 231
    set webmode (basic | advanced) on page 231
  end
```

Variable	Description	Default
<name_str>	Enter the name of the administrator account.	
access-profile <profile_name>	Enter the name of an access profile that determines which functional areas the administrator account may view or affect.	
auth-strategy {ldap local local-plus-radius pki radius}	Select the local or remote type of authentication that the administrator will be able to use: ldap local radius radius-plus-local pki	local

Variable	Description	Default
is-system-domain {no yes}	Enter <code>yes</code> to indicate that the administrator account may view all settings on the FortiMail unit.	yes
language <lang_str>	Enter this administrator account's preference for the display language of the web-based manager. Available languages vary by whether or not you have installed additional language resource files. To view a list of languages, enter a question mark (<code>?</code>).	english
ldap-profile <profile_name>	If <code>auth-strategy</code> is <code>ldap</code> , enter the LDAP profile you want to use.	
password <password_str>	If <code>auth-strategy</code> is <code>local</code> or <code>radius-plus-local</code> , enter the password for the administrator account. Caution: Do not enter a FortiMail administrator password less than six characters long. For better security, enter a longer password with a complex combination of characters and numbers, and change the password regularly. Failure to provide a strong password could compromise the security of your FortiMail unit.	
pkiuser <pkiuser_str>	If <code>auth-strategy</code> is <code>pki</code> , enter the name of a PKI user. Whether the administrator is required to log in only with a valid personal certificate or password-style authentication fallback is allowed varies by your configuration of <code>pki-mode</code> { <code>enable</code> <code>disable</code> } on page 255.	
radius-permission-check {enable disable}	If <code>auth-strategy</code> is <code>local</code> or <code>radius-plus-local</code> , enable to query the RADIUS server for the permissions attribute.	disable
radius-profile <profile_int>	If <code>auth-strategy</code> is <code>local</code> or <code>radius-plus-local</code> , enter the index number of a RADIUS authentication profile.	
radius-subtype-id <subtype_int>]	If <code>auth-strategy</code> is <code>local</code> or <code>radius-plus-local</code> , and <code>radius-permission-check</code> is <code>enable</code> , enter the RADIUS subtype identifier.	0
radius-vendor-id <vendor_int>	If <code>auth-strategy</code> is <code>local</code> or <code>radius-plus-local</code> , and <code>radius-permission-check</code> is <code>enable</code> , enter the RADIUS vendor identifier.	0
sshkey <key_str>	Enter the SSH key string surrounded in single straight quotes (<code>'</code>). When connecting from an SSH client that presents this key, the administrator will not need to provide their account name and password in order to log in to the CLI.	
status {enable disable}	Enable to activate the admin user.	disable
theme	Enter the system admin GUI theme.	
theme <theme_str>	Enter this administrator account's preference for the display theme when logging in.	

Variable	Description	Default
trusthosts <host_ ipv4mask>	Enter one to three IP addresses and netmasks from which the administrator can log in to the FortiMail unit. Separate each IP address and netmask pair with a comma (,). To allow the administrator to authenticate from any IP address, enter 0.0.0.0/0.0.0.0.	0.0.0.0/0.0.0.0
webmode (basic advanced)	Enter which display mode will initially appear when the administrator logs in to the web-based manager. The administrator may switch the display mode during their session; this affects only the initial state of the display.	basic

Related topics

[sensitive data on page 226](#)

system appearance

Use this command to customize the appearance of the web-based manager, FortiMail webmail, and per-recipient quarantine of the FortiMail unit.

Syntax

```
config system appearance
  set customized-login-status {enable | disable} on page 231
  set fallback-charset <language_code> on page 231
  set login-page-language <lang_str> on page 232
  set login-page-theme on page 232
  set product <product-name_str> on page 232
  set webmail-help-status {enable | disable} on page 232
  set webmail-help-url <url_str> on page 232
  set webmail-lang <language_str> on page 232
  set webmail-login <login_str> on page 232
  set webmail-login-hint <login_hint_str> on page 232
  set webmail-theme {IndigoDarkBlue | RedGrey | Standard} on page 232
  set webmail-theme-status {enable | disable} on page 232
end
```

Variable	Description	Default
customized-login-status {enable disable}	Enable to edit a graphic that will appear at the top of all webmail pages. The image's dimensions must be 314 pixels wide by 36 pixels tall.	disable
fallback-charset <language_code>	Enter the fallback charset for non RFC 2047 compliant message.	english

Variable	Description	Default
login-page-language <lang_str>	Enter the default language for the display of the login page of the web manager. To view a list of languages, enter a question mark (?). Note that the setting only affect the login page, not the entire web-based manager.	english
login-page-theme	Enter the default display theme of the login page.	
product <product-name_str>	Enter the text that will precede 'Administrator Login' on the login page of the web-based manager.	FortiMail
webmail-help-status {enable disable}	Enable to display the help button in the webmail interface. The default help contents are provided by Fortinet.	enable
webmail-help-url <url_str>	If you want to provide your own help to the webmail users, you can enter the URL of the help file.	
webmail-lang <language_str>	Enter the name of the language in English, such as 'French', that will be used when an email user initially logs in to FortiMail webmail/per-recipient quarantine. The email user may switch the display language in their preferences; this affects only the initial state of the display. Available languages vary by whether or not you have installed additional language resource files.	English
webmail-login <login_str>	Enter a word or phrase that will appears on top of the webmail login page, such as Webmail Login.	Login
webmail-login-hint <login_hint_str>	Enter a hint for the user name, such as Your Email Address. This hint will appear as a mouse-over display on the login name field.	address
webmail-theme {IndigoDarkBlue RedGrey Standard}	Select a theme for the webmail GUI.	RedGrey
webmail-theme-status {enable disable}	Enable or disable webmail theme change.	enable

Related topics

[system geoip-override on page 253](#)

system backup-restore-mail

Use this command to configure backup and restoration of email user's mailboxes.

For the initial backup, whether manually or automatically initiated, the FortiMail unit will make a full backup. For subsequent backups, the FortiMail unit will make the number of incremental backups, then make another full backup, and repeat this until it reaches the maximum number of full backups to keep on the backup media, which you selected in `full <full-backups_int>` on page 233. At that point, it will overwrite the oldest full backup.

For example, if `full <full-backups_int>` on page 233 is 3 and `monthly-incremental-days` on page 234 is 4, the FortiMail unit would make a full backup, then 4 incremental backups. It would repeat this two more times for a total of 3 backup sets, and then overwrite the oldest full backup when creating the next backup.

Syntax

```
config system backup-restore-mail
  set encryption-key <key> on page 233
  set folder <path_str> on page 233
  set full <full-backups_int> on page 233
  set host <fortimail-fqdn_str> on page 233
  set hour-of-day <hours_int> on page 233
  set monthly-day-of-month on page 233
  set monthly-incremental-days on page 234
  set number-of-backups on page 234
  set port <port_int> on page 234
  set protocol {ext-usb | ext-usb-auto | iscsi_server | nfs | smb-winserver | ssh}
    on page 234
  set status {enable | disable} on page 234
end
```

Variable	Description	Default
encryption-key <key>	Enter the encryption key for backup/restore.	
folder <path_str>	Enter the path of the folder on the backup server where the FortiMail unit will store the mailbox backups, such as: /home/fortimail/mailboxbackups This field appears only if the backup media is an NFS server or SSH server.	FortiMail-mail-data-backup
full <full-backups_int>	Enter the total number of full backups to keep on the backup media. Valid values are between 1 and 10.	3
host <fortimail-fqdn_str>	If you want to restore all mailboxes from a backup labeled with the fully qualified domain name (FQDN) of a previous FQDN, or that of another FortiMail unit, enter the FQDN of the backup that you want to restore. For example, to restore the most recent backup made by a FortiMail unit named fortimail.example.com, enter <code>fortimail.example.com</code> .	
hour-of-day <hours_int>	Enter the hour of the day, according to a 24-hour clock, on the days of the week at which to make backups. For example, to make backups at 9 PM, enter 21.	23
monthly-day-of-month	Enter the day of the month to perform the full backup.	

Variable	Description	Default
monthly-incremental-days	Enter how often to perform the monthly incremental backup.	
number-of-backups	Enter the number of full backups to keep.	
port <port_int>	Enter the TCP port number on which the backup server listens for connections. This field does not appear if the backup media is a USB disk.	22
protocol {ext-usb ext-usb-auto iscsi_server nfs smb-winsrvr ssh}	Enter one of the following types of backup media: <code>ext-usb</code> : An external hard drive connected to the FortiMail unit's USB port. <code>ext-usb-auto</code> : An external disk connected to the FortiMail unit's USB port. Unlike the previous option, this option only creates a backup when you connect the USB disk, or when you manually initiate a backup rather than according to a schedule. <code>iscsi_server</code> : An Internet SCSI (Small Computer System Interface), also called iSCSI, server. <code>nfs</code> : A network file system (NFS) server. <code>smb/winsrvr</code> : A Windows-style file share. <code>ssh</code> : A server that supports secure shell (SSH) connections. Other available options vary by your choice of backup media.	nfs
status {enable disable}	Enable to allow backups and restoration to occur, whether manually initiated or automatically performed on schedule. Also configure the backup media in <code>protocol {ext-usb ext-usb-auto iscsi_server nfs smb-winsrvr ssh}</code> on page 234 and, if applicable to the type of the media, configure a schedule in <code>encryption-key <key></code> on page 233 and <code>hour-of-day <hours_int></code> on page 233 Note: You should enable backups/restoration after configuring the other options if a scheduled backup will occur before you configure <code>protocol {ext-usb ext-usb-auto iscsi_server nfs smb-winsrvr ssh}</code> on page 234. Failure to do so would result in a failed backup attempt, requiring you to wait for the failed attempt to terminate before you can continue to configure this feature.	disable

Related topics

[system link-monitor on page 275](#)

system central-management

Use this command to configure central management options.

Syntax

```
config system central-management
  set allow-push-configuration <enable | disable> on page 235
  set auto-backup on page 235
  set status <enable | disable> on page 235
end
```

Variable	Description	Default
allow-push-configuration <enable disable>	Enable the push configuration initiated from central management server.	
auto-backup	Enter the automatic backup of configuration on logout/timeout	
status <enable disable>	Enable the central management.	

system certificate ca

Use this command to import certificates for certificate authorities (CA).

Certificate authorities validate and sign other certificates in order to indicate to third parties that those other certificates may be trusted to be authentic.

CA certificates are required by connections that use transport layer security (TLS). For more information, see the [FortiMail Administration Guide](#).

Syntax

```
config system certificate ca
  edit <name_str> on page 235
    set certificate <cert_str> on page 235
end
```

Variable	Description	Default
<name_str>	Enter a name for this certificate.	
certificate <cert_str>	Enter or paste the certificate in PEM format to import it.	

Related topics

[system certificate crt on page 236](#)

[system certificate local on page 236](#)

[system certificate remote on page 237](#)

system certificate crl

Use this command to import certificate revocation lists.

To ensure that your FortiMail unit validates only certificates that have not been revoked, you should periodically upload a current certificate revocation list, which may be provided by certificate authorities (CA). Alternatively, you can use online certificate status protocol (OCSP) to query for certificate statuses. For more information, see the [FortiMail Administration Guide](#).

Syntax

```
config system certificate crl
  edit <name_str> on page 236
    set crl <cert_str> on page 236
  end
```

Variable	Description	Default
<name_str>	Enter a name for this certificate revocation list.	
crl <cert_str>	Enter or paste the certificate in PEM format to import it.	

Related topics

[system central-management on page 235](#)

[system certificate local on page 236](#)

[system certificate remote on page 237](#)

system certificate local

Use this command to import signed certificates and certificate requests in order to install them for local use by the FortiMail unit.

FortiMail units require a local server certificate that it can present when clients request secure connections, including:

- the web-based manager (HTTPS connections only)
- webmail (HTTPS connections only)
- secure email, such as SMTPS, IMAPS, and POP3S



When using this command to import a local certificate, you must enter the commands in the order described in the following syntax. This is because `privatekey` will need the password to decrypt the private key if it was encrypted and `certificate` will try to find a matched private key file.

Syntax

```
config system certificate local
  edit <name_str> on page 237
    set password on page 237
    set private-key on page 237
    set certificate <cert_str> on page 237
    set csr <csr_str> on page 237
    set comments <comment_str> on page 237
  end
```

Variable	Description	Default
<name_str>	Enter a name for the certificate to be imported.	
password	Enter a password for the certificate.	
private-key	Enter a private key for the certificate.	
certificate <cert_str>	Enter or paste the certificate in PEM format to import it.	
csr <csr_str>	Enter or paste the certificate signing request in PEM format to import it.	
comments <comment_str>	Enter any comments for this certificate.	

Related topics

[system central-management on page 235](#)

[system certificate crl on page 236](#)

[system certificate remote on page 237](#)

system certificate remote

Use this command to import the certificates of the online certificate status protocol (OCSP) servers of your certificate authority (CA).

OCSP enables you to revoke or validate certificates by query, rather than by importing certificate revocation lists (CRL).

Remote certificates are required if you enable OCSP for PKI users.

Syntax

```
config system certificate remote
  edit <name_str> on page 238
    set certificate <cert_str> on page 238
  end
```

Variable	Description	Default
<name_str>	Enter a name for the certificate to be imported.	
certificate <cert_str>	Enter or paste the certificate in PEM format to import it.	

Related topics

system central-management on page 235

system certificate crt on page 236

system certificate local on page 236

system ddns

Use this command to configure the FortiMail unit to update a dynamic DNS (DDNS) service with its current public IP address.

Syntax

```
config system ddns
  edit <ddns-service_str> on page 238
    config domain
      edit domain <domain_str> on page 239\
        set ipmode {auto | bind | static} on page 239
        set interface <interface_str> on page 239
        set ip <host_ipv4> on page 239
        set status {enable | disable} on page 239
        set type {custom | dynamic | static} on page 239
      set password <password_str> on page 239
      set timeout <time_int> on page 239
      set username <username_str> on page 239
    end
```

Variable	Description	Default
<ddns-service_str>	<p>Enter one of the following DDNS update servers:</p> <ul style="list-style-type: none"> members.dhs.org dipdnserver.dipdns.com www.dnsart.com members.dyndns.org www.dyns.net ip.todayisp.com ods.org rh.tzo.com ph001.oray.net <p>Note: You must have an account with this DDNS service provider.</p>	

Variable	Description	Default
domain <domain_str>	Enter the domain name that is tied to this username and server.	
ipmode {auto bind static}	<p>Select the method of determining the IP address:</p> <p>auto: Automatically detect the public IP address of the FortiMail unit and use that as the IP address to which <code>domain <domain_str></code> on page 239 will resolve.</p> <p>bind: Use the IP address of a specific network interface as the IP address to which <code>domain <domain_str></code> on page 239 will resolve. Also configure <code>interface <interface_str></code> on page 239.</p> <p>static: Use the public IP address to which <code>domain <domain_str></code> on page 239 will resolve. Also configure <code>ip <host_ipv4></code> on page 239.</p>	auto
interface <interface_str>	Enter the specific network interface of which the IP address is used as the IP address to which <code>domain <domain_str></code> on page 239 will resolve.	
ip <host_ipv4>	Enter the public IP address to which <code>domain <domain_str></code> on page 239 will resolve.	
status {enable disable}	Enable to notify a DDNS service provider to update public DNS records when the public IP address of the FortiMail unit changes.	disable
type {custom dynamic static}	Enter a service type for this domain.	
password <password_str>	Enter the password of the DDNS account.	
timeout <time_int>	Enter the amount of time in hours after which your FortiMail unit will contact the DDNS server to reaffirm its current IP address.	
username <username_str>	Enter the user name of your account with the DDNS service provider.	

Related topics

[system dns on page 242](#)

system disclaimer

Use this command to configure system-wide disclaimer messages.

A disclaimer message is text that is generally attached to email to warn the recipient that the email contents may be confidential. For disclaimers added to outgoing messages, you need to configure an IP-based policy or an outgoing recipient-based policy.

Disclaimer messages can be appended for either or both incoming or outgoing email messages. For information on determining the directionality of an email message, see the [FortiMail Administration Guide](#).

Syntax

```
config system disclaimer
  set exclude-status {enable | disable} on page 240
  set incoming-body-content <disclaimer_str> on page 240
  set incoming-body-content-html on page 240
  set incoming-body-location on page 240
  set incoming-body-status {enable | disable} on page 240
  set incoming-header-insertion-name on page 240
  set incoming-header-insertion-value on page 240
  set incoming-header-content <disclaimer_str> on page 240
  set incoming-header-status {enable | disable} on page 240
  set outgoing-body-content <disclaimer_str> on page 240
  set outgoing-body-content-html on page 241
  set outgoing-body-location on page 241
  set outgoing-body-status {enable | disable} on page 241
  set outgoing-header-content <disclaimer_str> on page 241
  set outgoing-header-status {enable | disable} on page 241
end
```

Variable	Description	Default
exclude-status {enable disable}	If you do not want to insert disclaimers to the email messages from certain senders or to certain recipients, you can enable this option. For information about how to configure the disclaimer exclusion list, see system disclaimer-exclude on page 241 .	disable
incoming-body-content <disclaimer_str>	Enter the text that comprises the disclaimer message that appends to the message body of each incoming email.	
incoming-body-content-html	Enter the text that comprises the content of the HTML incoming disclaimer in the message body.	
incoming-body-location	Enter an incoming disclaimer at the beginning or end of a message body.	
incoming-body-status {enable disable}	Enable to append a disclaimer to the message body of each incoming email. Also configure incoming-body-content <disclaimer_str> on page 240 .	disable
incoming-header-insertion-name	Enter the name of the header to be inserted for incoming disclaimer.	
incoming-header-insertion-value	Enter the value of the header to be inserted for incoming disclaimer.	
incoming-header-content <disclaimer_str>	Enter the text that comprises the disclaimer message that is inserted into the message header of each incoming email.	
incoming-header-status {enable disable}	Enable to insert a disclaimer to the message header of each incoming email. Also configure incoming-header-content <disclaimer_str> on page 240 .	disable
outgoing-body-content <disclaimer_str>	Enter the text that comprises the disclaimer message that appends to the message body of each outgoing email.	

Variable	Description	Default
outgoing-body-content-html	Enter the content of html outgoing disclaimer in the message body.	
outgoing-body-location	Enter the outgoing disclaimer at the beginning or ending of the message body.	
outgoing-body-status {enable disable}	Enable to append a disclaimer to the message body of each outgoing email. Also configure outgoing-body-content <disclaimer_str> on page 240.	disable
outgoing-header-content <disclaimer_str>	Enter the text that comprises the disclaimer message that is inserted into the message header of each outgoing email.	
outgoing-header-status {enable disable}	Enable to insert a disclaimer to the message header of each outgoing email. Also configure outgoing-body-content <disclaimer_str> on page 240.	disable

Related topics

[system disclaimer-exclude on page 241](#)

system disclaimer-exclude

In some cases, you may not want to insert disclaimers to some email messages. For example, you may not want to insert disclaimers to paging text or SMS text messages. To do this, you add the specific senders, sender domains, recipients, or recipients domains to the exclusion list, and when you configure the global disclaimer settings (see [system disclaimer on page 239](#), you can enable the exclusion list.

Syntax

```
config system disclaimer-exclude
edit <id> on page 241
    set recipient-pattern <string> on page 241
    set sender-pattern <string> on page 241
end
```

Variable	Description	Default
<id>	Enter a table ID.	
recipient-pattern <string>	Enter a recipient pattern. For example, if you add *@example.com, all messages to example.com users will be exempted from disclaimer insertion	
sender-pattern <string>	Enter a sender pattern. For example, if you add *@example.com, all messages from example.com users will be exempted from disclaimer insertion	

Related topics

[system disclaimer on page 239](#)

system dns

Use this command to configure the IP addresses of the primary and secondary DNS servers that the FortiMail unit will query to resolve domain names into IP addresses.

Starting from 5.0.2 release, you can also configure up to three other DNS servers for protected domains' (and their domain associations) MX record query only. This is useful if the protected domains' MX record or A record are resolved differently on internal DNS servers. This feature is only applicable to gateway mode and transparent mode and when you select MX record as the relay type in domain settings. Note that if you configure DNS servers for protected domains (such as example.com), FortiMail will also use the same DNS server for all queries that are in the form of anysub.example.com, so that the recursive queries for the returned MX record (mx.example.com) or other records can be directed the the same server.

Syntax

```
config system dns
  set cache {enable | disable} on page 242
  set cache-min-ttl <time-in-seconds> on page 242
  set primary <ipv4_address> on page 242
  set ptr-query-option {enable | disable| public-ip-only} on page 243
  set protected-domain-dns-servers <ipv4_address> on page 243
  set protected-domain-dns-state {enable | disable} on page 243
  set secondary <dns_ipv4> on page 243
  set truncate-handling {disable | tcp-retry} on page 243
end
```

Variable	Description	Default
cache {enable disable}	Enable to cache DNS query results to improve performance. Disable the DNS cache to free memory if you are low on memory.	enable
cache-min-ttl <time-in-seconds>	Use this command to overwrite the TTL of the cached DNS records in case the TTL of the records is very short. However, the newly set TTL value is only effective if it is longer than the original TTL. For example, if you set it to 30 seconds while the original TTL is 10 seconds, then the actual record TTL will become 30 seconds. If you set it to 30 seconds while the original TTL is 60 seconds, then the actual record TTL remains to be 60 seconds.	300
primary <ipv4_address>	Enter the IP address of the primary DNS server.	0.0.0.0

Variable	Description	Default
ptr-query-option {enable disable public-ip-only}	<p>Enable to perform reverse DNS lookups on both private network IP addresses and public IP addresses.</p> <p>However, PTR queries may cause delays when the DNS server has no response. In this situation, you may choose to disable the querying.</p> <p>In some cases, the DNS server may not have PTR records for your private network's IP addresses. Failure to contain records for those IP addresses may increase DNS query time. In this situation, you can choose to query on public IP addresses only.</p>	public-ip-only
protected-domain-dns-servers <ipv4_address>	Enter the IP address of the DNS servers that you want to use to resolve the protected domain names (including their subdomains). You can enter up to 3 addresses/DNS servers.	0.0.0.0
protected-domain-dns-state {enable disable}	Either enable or disable the protected domain DNS servers.	disable
secondary <dns_ipv4>	Enter the IP address of the secondary DNS serve.	0.0.0.0
truncate-handling {disable tcp-retry}	Specify how to handle truncated UDP replies of DNS queries: select either disable (meaning no retries) or tcp-try (meaning retry in TCP mode).	tcp-retry

Related topics

[system ddns on page 238](#)

system encryption ibe

Use this command to configure, enable or disable Identity-Based Encryption (IBE) services, which control how secured mail recipients use the mail IBE function.

Syntax

```
config system encryption ibe
    set custom-user-control-status {enable | disable} on page 244
    set expire-emails <days_int> on page 244
    set expire-inactivity <days_int> on page 244
    set expire-passwd-reset <hours_int> on page 244
    set expire-registration <days_int> on page 244
    set read-notification {enable | disable} on page 244
    set secure-compose {enable | disable} on page 244
    set secure-reply {enable | disable} on page 244
    set secure-forward {enable | disable} on page 244
    set service-name <name_str> on page 245
    set status {enable | disable} on page 245
```

```

set unread-days on page 245
set unread-notif-rcpt on page 245
set unread-notif-sender on page 245
set unread-notification {enable | disable} on page 245
set url-about <url_str> on page 245
set url-base <url_str> on page 245
set url-custom-user-control <url_str> on page 245
set url-forgot-pwd <psw_str> on page 245
set url-help <url_str> on page 245
end

```

Variable	Description	Default
custom-user-control-status {enable disable}	If your corporation has its own user authentication tools, enable this option and enter the URL. Also configure <code>url-custom-user-control</code> and <code>url-forgot-pwd</code> .	disable
expire-emails <days_int>	Enter the number of days that the secured mail will be saved on the FortiMail unit.	180
expire-inactivity <days_int>	Enter the number of days the secured mail recipient can access the FortiMail unit without registration. For example, if you set the value to 30 days and if the mail recipient did not access the FortiMail unit for 30 days after they registers on the unit, the recipient will need to register again if another secured mail is sent to them. If the recipient accessed the FortiMail unit on the 15th days, the 30-day limit will be recalculated from the 15th day onwards.	90
expire-passwd-reset <hours_int>	Enter the password reset expiry time in hours. This is for the recipients who have forgotten their login passwords and request for new ones. The secured mail recipient must reset their password within this time limit to access the FortiMail unit.	24
expire-registration <days_int>	Enter the number of days that the secured mail recipient has to register on the FortiMail unit to view the mail before the registration expires. The starting date is the date when the FortiMail unit sends out the first notification to a mail recipient.	30
read-notification {enable disable}	Enable to send the read notification the first time the mail is read.	disable
secure-compose {enable disable}	Select to allow the secure mail recipient to compose an email. The FortiMail unit will use policies and mail delivery rules to determine if this mail needs to be encrypted. For encrypted email, the domain of the composed mail's recipient must be a protected one, otherwise an error message will appear and the mail will not be delivered.	disable
secure-reply {enable disable}	Allow the secured mail recipient to reply to the email with encryption.	disable
secure-forward {enable disable}	Allow the secured mail recipient to forward the email with encryption	disable

Variable	Description	Default
service-name <name_str>	Enter the name for the IBE service. This is the name the secured mail recipients will see once they access the FortiMail unit to view the mail.	
status {enable disable}	Enable the IBE service you have configured.	disable
unread-days	Enter the unread days.	
unread-notif-rcpt	Enable to send the unread notification to the recipient.	disable
unread-notif-sender	Enable to send the unread notification to the sender.	disable
unread-notification {enable disable}	Enable to send the unread notification if the message remains unread for 14 days by default.	disable
url-about <url_str>	<p>You can create a file about the FortiMail IBE encryption and enter the URL for the file. The mail recipient can click the “About” link from the secure mail notification to view the file.</p> <p>If you leave this option empty, a link for a default file about the FortiMail IBE encryption will be added to the secure mail notification.</p>	
url-base <url_str>	Enter the FortiMail unit URL, for example, https://192.168.100.20, where a mail recipient can register or authenticate to access the secured mail.	
url-custom-user-control <url_str>	Enter the URL where you can check for user existence. This command appears after you enable <code>custom-user-control-status</code> .	
url-forgot-pwd <psw_str>	Enter the URL where users get authenticated. This command appears after you enable <code>custom-user-control-status</code> .	
url-help <url_str>	<p>You can create a help file on how to access the FortiMail secure email and enter the URL for the file. The mail recipient can click the “Help” link from the secure mail notification to view the file.</p> <p>If you leave this option empty, a default help file link will be added to the secure mail notification.</p>	

Related topics

[system encryption ibe-auth on page 245](#)

system encryption ibe-auth

When mail recipients of the IBE domains access the FortiMail unit after receiving a secure mail notification:

- recipients of the IBE domains without LDAP authentication profiles need to register to view the email.
- recipients of the IBE domains with LDAP authentication profiles just need to authenticate because the FortiMail unit can query the LDAP servers for authentication information based on the LDAP profile.

In both cases, the FortiMail unit will record the domain names of the recipients who register or authenticate on it under the *User > IBE User > IBE Domain* tab.

Use this command to bind domains with LDAP authentication profiles with which the FortiMail unit can query the LDAP servers for authentication, email address mappings, and more. For more information about LDAP profiles, see [“profile ldap on page 190”](#).

Syntax

```
config system encryption ibe-auth
  edit <id> on page 246
    set domain-pattern <string> on page 246
    set ldap-profile <profile_name> on page 246
    set status {enable | disable} on page 246
  end
```

Variable	Description	Default
<id>	Enter a table ID.	
domain-pattern <string>	Enter a domain name that you want to bind to an LDAP authentication profile. If you want all IBE users to authenticate through an LDAP profile and do not want other non-LDAP-authenticated users to get registered on FortiMail, you can use wildcard * for the domain name and then bind it to an LDAP profile.	
ldap-profile <profile_name>	Enter a profile name from the available LDAP profile list, which you want to use to authenticate the domain users.	
status {enable disable}	Enable or disable the rule.	disable

Related topics

[system encryption ibe on page 243](#)

system fortiguard antivirus

Use this command to configure how the FortiMail unit will retrieve the most recent updates to FortiGuard Antivirus engines, antivirus definitions, and antispam definitions (the heuristic antispam rules only). FortiMail can get antivirus updates either directly from a Fortinet Distribution Network (FDN) server or via a web proxy.

Syntax

```

config system fortiguard antivirus
  set override-server-address <virtual-ip_ipv4> on page 247
  set override-server-status {enable | disable} on page 247
  set push-update-override-address <virtual-ip_ipv4> on page 247
  set push-update-override-port <port_int> on page 247
  set push-update-override-status {enable | disable} on page 247
  set push-update-status {enable | disable} on page 247
  set scheduled-update-day <day_int> on page 247
  set scheduled-update-frequency {daily | every | weekly} on page 248
  set scheduled-update-status {enable | disable} on page 248
  set scheduled-update-time <time_str> on page 248
  set tunneling-address <host_ipv4> on page 248
  set tunneling-password <password_str> on page 248
  set <document id> on page 227
  set tunneling-status {enable | disable} on page 248
  set tunneling-username <username_str> on page 248
  set virus-db {default | extended | extreme} on page 248
  set virus-outbreak {diabale | enable | enable-with-defer} on page 248
  set virus-outbreak-protection-period <minutes> on page 249
end

```

Variable	Description	Default
override-server-address <virtual-ip_ipv4>	If <code>override-server-status</code> is <code>enable</code> , enter the IP address of the public or private FortiGuard Distribution Server (FDS) that overrides the default FDS to which the FortiMail unit connects for updates.	
override-server-status {enable disable}	Enable to override the default FDS to which the FortiMail unit connects for updates.	disable
push-update-override-address <virtual-ip_ipv4>	If <code>push-update-override-status</code> is <code>enable</code> , enter the public IP address that will forward push updates to the FortiMail unit. Usually, this is a virtual IP address on the external interface of a NAT device such as a firewall or router.	
push-update-override-port <port_int>	If <code>push-update-override-status</code> is <code>enable</code> , enter the port number that will forward push updates to UDP port 9443 the FortiMail unit. Usually, this is a port forward on the external interface of a NAT device such as a firewall or router.	
push-update-override-status {enable disable}	Enable to override the default IP.	disable
push-update-status {enable disable}	Enable to allow the FortiMail unit to receive notifications of available updates, which trigger it to download FortiGuard Antivirus packages from the FDN.	disable
scheduled-update-day <day_int>	Enter the day of the week at which the FortiMail unit will request updates where the range is from 0-6 and 0 means Sunday and 6 means Saturday.	

Variable	Description	Default
scheduled-update-frequency {daily every weekly}	Enter the frequency at which the FortiMail unit will request updates. Also configure scheduled-update-day <day_int> on page 247 and scheduled-update-time <time_str> on page 248.	weekly
scheduled-update-status {enable disable}	Enable to perform updates according to a schedule.	enable
scheduled-update-time <time_str>	Enter the time of the day at which the FortiMail unit will request updates, in the format <code>hh:mm</code> , where <code>hh</code> is the number of hours and <code>mm</code> is the number of minutes after the hour in 15 minute intervals.	01:00
tunneling-address <host_ipv4>	If <code>tunneling-status</code> is <code>enable</code> , enter the IP address of the web proxy.	
tunneling-password <password_str>	If <code>tunneling-status</code> is <code>enable</code> , enter the password of the account on the web proxy.	
tunneling-port <port_int>	If <code>tunneling-status</code> is <code>enable</code> , enter the TCP port number on which the web proxy listens.	
tunneling-status {enable disable}	Enable to tunnel update requests through a web proxy.	disable
tunneling-username <username_str>	If <code>tunneling-status</code> is <code>enable</code> , enter the user name of the FortiMail unit's account on the web proxy.	
virus-db {default extended extreme}	Depending on your models, FortiMail supports three types of antivirus databases: <ul style="list-style-type: none"> • Default: The default FortiMail virus database contains most commonly seen viruses and should be sufficient enough for regular antivirus protection. • Extended: Some high-end FortiMail models support the usage of an extended virus database, which contains viruses that are not active any more. • Extreme: Some high-end models also support the usage of an extreme virus database, which contains more virus signatures than the default and extended databases. 	default
virus-outbreak {diabie enable enable-with-defer}	When a virus outbreak occurs, the FortiGuard antivirus database may need some time to get updated. Therefore, you can choose to defer the delivery of the suspicious email messages and scan them for the second time: <ul style="list-style-type: none"> • Disable: Do not query FortiGuard antivirus service. • Enable: Query FortiGuard antivirus service. • Enable with Defer: If the first query returns no results, defer the email for the specified time and do the second query. 	enable-with-defer

Variable	Description	Default
virus-outbreak-protection-period <minutes>	If you specify Enable with Defer in the above field, specify how many minutes later a second query will be done.	20

Related topics

[system fortiguard antispam on page 249](#)

[update on page 342](#)

system fortiguard antispam

Use this command to configure how the FortiMail unit will connect to the FortiGuard servers to query for antispam signatures. Unlike the antivirus updates, FortiMail cannot query FortiGuard antispam service via a web proxy. If there is a web proxy before FortiMail, you have to use a FortiManager unit locally as an override server.

Syntax

```
config system fortiguard antispam
    set cache-mpercent <percentage_int> on page 249
    set cache-status {enable | disable} on page 249
    set cache ttl <ttl_int> on page 249
    set hostname {<fqdn_str> | <host_ipv4>} on page 249
    set outbreak-protection-level {disable | high | low | medium} on page 250
    set outbreak-protection-period <minutes> on page 250
    set port {53 | 8888 | 8889} on page 250
    set protocol on page 250
    set query-timeout <timeout_int> on page 250
    set action-rbl <action-profile_name> on page 148
    set server-override-ip <ipv4> on page 250
    set server-override-status {enable | disable} on page 250
    set status {enable | disable} on page 250
    set uri-redirect-lookup {enable | disable} on page 250
end
```

Variable	Description	Default
cache-mpercent <percentage_int>	Enter the percentage of memory the antispam cache is allowed to use in percentage. The range is 1-15%.	2
cache-status {enable disable}	Enable cache and specify the cache time to live (TTL) to improve performance.	enable
cache ttl <ttl_int>	Enter the TTL in seconds for cache entries.	300
hostname {<fqdn_str> <host_ipv4>}	Enter an IP address or a fully qualified domain name (FQDN) to override the default FortiGuard Antispam query server.	antispam.fortigate.com

Variable	Description	Default
outbreak-protection-level {disable high low medium}	Specify a spam outbreak protection level. Higher levels mean stricter filtering. This feature temporarily holds email for a certain period of time (see <code>outbreak-protection-period</code>) if the enabled FortiGuard antispam check (black IP and/or URI filter) returns no result. After the specified time interval, FortiMail will query the FortiGuard server for the second time. This provides an opportunity for the FortiGuard antispam service to update its database in cases a spam outbreak occurs. Conversely, in order to reduce the types of email to be deferred for outbreak, set this command to <code>low</code> .	medium
outbreak-protection-period <minutes>	Specify how long (in minutes) FortiMail will hold email before it query the FortiGuard server for the second time.	30
port {53 8888 8889}	Enter the port number used to communicate with the FortiGuard Antispam query servers.	53
protocol	Enter the protocol used to communicate with the FortiGuard servers.	
query-timeout <timeout_int>	Enter the timeout value for the FortiMail unit to query the FortiGuard Antispam query server.	7
server-location	Limit the FortiGuard servers to certain locations.	
server-override-ip <ipv4>	If <code>server-override-status</code> is <code>enable</code> , enter the IP address of the public or private FortiGuard Antispam query server that overrides the default query server to which the FortiMail unit connects.	
server-override-status {enable disable}	Enable to override the default FortiGuard Antispam query server to which the FortiMail unit connects to and checks for antispam signatures.	disable
status {enable disable}	Enable to query to the FortiGuard Distribution Network (FDN) for FortiGuard Antispam ratings. This option must be enabled for antispam profiles where the FortiGuard Antispam scan is enabled to have an effect.	enable
uri-redirect-lookup {enable disable}	If an email contains a shortened URI that redirects to another URI, the FortiMail unit is able to send a request to the shortened URI to get the redirected URI and scan it against the FortiGuard AntiSpam database. By default, this function is enabled. To use it, you need to open your HTTP port to allow the FortiMail unit to send request for scanning the redirected URI.	enable

Related topics

[system fortiguard antivirus on page 246](#)

[update on page 342](#)

system fortisandbox

The FortiSandbox unit is used for automated sample tracking, or sandboxing. You can send suspicious email attachments to FortiSandbox for inspection when you configure antivirus profiles. If the file exhibits risky behavior, or is found to contain a virus, the result will be sent back to FortiMail and a new virus signature is created and added to the FortiGuard antivirus signature database. For more information about FortiSandbox, please visit Fortinet's web site at <https://www.fortinet.com>.

Syntax

```
config system fortisandbox
  config file-pattern on page 251
    edit <table_value> on page 251
      set pattern <string> on page 251
    end
  config file-types on page 251
    edit {adobe-flash | archive | html | jar | javascript | pdf | msoffice-document | windows-executable}
      set status {enable | disable} on page 252
    end
  set admin-email <email_str> on page 252
  set host <hostname_or_ip> on page 252
  set max-file-size <integer_value> on page 252
  set max-file-size-status {enable | disable} on page 252
  set max-uri-per-email on page 252
  set scan-exception-as {clean | malicious | high-risk | medium-risk | low-risk} on page 252
  set scan-mode {scan-and-wait | scan-only} on page 252
  set scan-order {antispam-content-sandbox | antispam-sandbox-content | sandbox-antispam-content} on page 252
  set scan-result-retention on page 252
  set scan-timeout on page 252
  set service-type on page 252
  set statistics-interval <1-30-minutes> on page 252
  set status {enable | disable} on page 252
  set uri-scan-category on page 252
  set uri-scan-email-selection on page 252
  set uri-scan-on-rating-error {enable | disable} on page 253
end
```

Variable	Description	Default
file-pattern	Enter the file patterns to upload to FortiSandbox	
<table_value>	Enter the item number to edit.	
pattern <string>	Enter the pattern value.	
file-types	Enter the file types to upload to FortiSandbox for scanning.	

Variable	Description	Default
edit <file_types>	Enter the desired attachment type to include in the FortiSandbox unit's scanning.	
status {enable disable}	Enable or disable the selected file type from the FortiSanbox unit's scanning.	
admin-email <email_str>	Enter the administrator's email address to receive reports and notifications.	
max-file-size <integer_value>	Enter the maximum size in kilobytes for files uploaded to FortiSandbox.	
max-file-size-status {enable disable}	Enable or disable the maximum size for files uploaded to FortiSandbox.	
host <hostname_or_ip>	Enter the host name or IP address of the FortiSandbox.	
max-uri-per-email	Maximum number of URIs per email to be scanned. Range between 1-12.	3
scan-exception-as {clean malicious high-risk medium-risk low-risk}	Specify different actions to take when FortiSandbox returns a scan exception. The corresponding actions are listed under the FortiSandbox settings in the antivirus profiles.	clean
scan-mode {scan-and-wait scan-only}	<i>scan-and-wait</i> means to submit the suspicious email to FortiSandbox and wait for the results. <i>scan-only</i> means just to submit the suspicious email without waiting for the results.	scan-and-wait
scan-order {antispam-content-sandbox antispam-sandbox-content sandbox-antispam-content}	Set the order of scanners. Sending files to FortiSandbox usually takes more bandwidth and thus it is better to use is as the last resort.	antispam-content-sandbox
scan-result-retention	Scan result retention period in minutes.	60
scan-timeout	Timeout value before discarding unfinished scan tasks.	30
service-type	Use FortiSandbox appliance or FortiSandbox cloud service.	
statistics-interval <1-30-minutes>	Specify how long FortiMail should wait to retrieve some high level statistics from FortiSandbox. The statistics include how much malware is detected and how many files are clean among all the files submitted.	5
status {enable disable}	Either enable or disable the usage of the unit.	disable
uri-scan-category	Category of the URI to be scanned.	
uri-scan-email-selection	Selection of email for URI scan.	

Variable	Description	Default
uri-scan-on-rating-error {enable disable}	Sometimes, FortiMail may not be able to get results from the FortiGuard queries (for example, ratings errors due to network connection failures). In this case, you can choose whether to upload the those URIs to FortiSandbox for scanning. Choosing not to upload those URIs may help improving the FortiSandbox performance.	disable

system geoip-override

Use this command to override the GeoIP lookup by manually specifying the geolocations of some IP addresses/IP ranges.

Syntax

```
config system geoip-override
  set description on page 253
  set country-code on page 253
end
```

Variable	Description	Default
description	Enter a description.	
country-code	Enter the two letter country code (for example US, CA).	

system global

Use this command to configure many FortiMail system-wide configurations.

Syntax

```
config system global
  set admin-idle-timeout <timeout_int> on page 254
  set admin-lockout-duration on page 254
  set admin-lockout-threshold on page 254
  set default-certificate <name_str> on page 254
  set dh-params <params_int> on page 254
  set disclaimer-per-domain {enable | disable} on page 254
  set disk-monitor {enable | disable} on page 254
  set email-migration-status <enable | disable> on page 254
  set hostname <host_str> on page 254
  set iscsi-initiator-name <name_str> on page 254
  set lcd-pin <pin_int> on page 255
  set lcd-protection {enable | disable} on page 255
  set ldap-server-sys-status {enable | disable} on page 255
```

```

set ldap-sess-cache-state {enable | disable} on page 255
set local-domain-name <name_str> on page 255
set mailstat-service {enable | disable} on page 255
set mta-adv-ctrl-status {enable | disable} on page 255
set operation mode {gateway | server | transparent} on page 255
set pki-certificate-req {yes | no} on page 255
set pki-mode {enable | disable} on page 255
set port-http <port_int> on page 256
set port-https <port_int> on page 256
set port-ssh <port_int> on page 256
set port-telnet <port_int> on page 256
set post-login-banner {admin | ibe | webmail} on page 256
set pre-login-banner admin on page 256
set rest-api {enable | disable} on page 256
set ssl-versions {ssl3 tls1_0 | tls1_1 | tls1_2 | tls1_3} on page 256
set strong-crypto {enable | disable} on page 257
set tftp {enable | disable} on page 257
end

```

Variable	Description	Default
admin-idle-timeout <timeout_int>	Enter the amount of time in minutes after which an idle administrative session will be automatically logged out. The maximum idle time out is 480 minutes (eight hours). To improve security, do not increase the idle timeout.	5
admin-lockout-duration	Enter the lockout duration in minutes after the failed login threshold is reached.	3
admin-lockout-threshold	Enter the number of failed login attempts before being locked out.	4
default-certificate <name_str>	Enter the name of a local certificate to use it as the "default" (that is, currently chosen for use) certificate. FortiMail units require a local server certificate that it can present when clients request secure connections.	factory
dh-params <params_int>	Enter the minimum size of Diffie-Hellman prime for SSH/HTTPS.	1024
disclaimer-per-domain {enable disable}	Enable to allow individualized disclaimers to be configured for each protected domain.	
disk-monitor {enable disable}	Enable to monitor the hard disk status of the FortiMail unit. If a problem is found, an alert email is sent to the administrator.	disable
email-migration-status <enable disable>	Enable the email migration from external server.	
hostname <host_str>	Enter the host name of the FortiMail unit.	Varies by model.
hsts-max-age <days>	Set the HTTP Strict Transport Security (HSTS) max-age. 0 means to disable.	365
iscsi-initiator-name <name_str>	Enter the FortiMail iSCSI client name used to communicate with the iSCSI server for centralized quarantine storage.	

Variable	Description	Default
	This is only used to change the name generated by the FortiMail unit automatically.	
lcd-pin <pin_int>	Enter the 6-digit personal identification number (PIN) that administrators must enter in order to access the FortiMail LCD panel. The PIN is used only when <code>lcdprotection</code> is <code>enable</code> .	Encoded value varies.
lcd-protection {enable disable}	Enable to require that administrators enter a PIN in order to use the buttons on the front LCD panel. Also configure <code>lcdpin</code> .	disable
ldap-server-sys-status {enable disable}	Enable or disable the LDAP server for serving organizational information.	enable
ldap-sess-cache-state {enable disable}	Enable to keep the continuity of the connection sessions to the LDAP server. Repeated session connections waste network resources.	enable
local-domain-name <name_str>	Enter the local domain name of the FortiMail unit.	
mailstat-service <enable disable>	Enable the mail statistic service. After you enable this service, a new tab called Top User Statistics will appear under FortiView on the GUI.	disable
mta-adv-ctrl-status {enable disable}	Enable to configure session-specific MTA settings and overwrite the global settings configured elsewhere.	enable
operation mode {gateway server transparent}	Enter one of the following operation modes: <code>gateway</code> : The FortiMail unit acts as an email gateway or MTA, but does not host email accounts. <code>server</code> : The FortiMail unit acts as a standalone email server that hosts email accounts and acts as an MTA. <code>transparent</code> : The FortiMail unit acts as an email proxy.	gateway
pki-certificate-req {yes no}	If the administrator's web browser does not provide a valid personal certificate for PKI authentication, the FortiMail unit will fall back to standard user name and password-style authentication. To require valid certificates only and disallow password-style fallback, enter <code>yes</code> . To allow password-style fallback, enter <code>no</code> .	no
pki-mode {enable disable}	Enable to allow PKI authentication for FortiMail administrators. For more information, see user pki on page 299 and system admin on page 229 . Also configure <code>pki-certificate-req {yes no}</code> on page 255 .	disable

Variable	Description	Default
	Caution: Before disabling PKI authentication, select another mode of authentication for FortiMail administrators and email users that are currently using PKI authentication. Failure to first select another authentication method before disabling PKI authentication will prevent them from being able to log in.	
port-http <port_int>	Enter the HTTP port number for administrative access on all interfaces.	80
port-https <port_int>	Enter the HTTPS port number for administrative access on all interfaces.	443
port-ssh <port_int>	Enter the SSH port number for administrative access on all interfaces.	22
port-telnet <port_int>	Enter the TELNET port number for administrative access on all interfaces.	23
post-login-banner {admin ibe webmail}	Enable or disable the legal disclaimer. admin: Select to display the disclaimer message after the administrator logs into the FortiMail web UI. webmail: Select to display the disclaimer message after the user logs into the FortiMail webmail. ibe: Select to display the disclaimer message after the user logs into the FortiMail unit to view IBE encrypted email.	admin
pre-login-banner admin	Enable or disable the legal disclaimer before the administrator logs into the FortiMail web UI.	admin
rest-api {enable disable}	Enable or disable REST API support.	disable
ssl-versions {ssl3 tls1_0 tls1_1 tls1_2 tls1_3}	Specify which SSL/TLS versions you want to support for the HTTPS and SMTP access to FortiMail. Currently, TLS 1.0, TLS 1.1, TLS 1.2, and TLS 1.3 are supported. In 6.0.0 release, <code>strong-crypto</code> is enabled and TLS 1.0 is disabled by default. Because some old versions of email clients (for example, MS Outlook 2007 and older) and MTAs only support TLS 1.0, they may have issues connecting to FortiMail. To fix the issue, disable <code>strong-crypto</code> and add TLS 1.0 support. Starting from 6.0.1 release, both <code>strong-crypto</code> and TLS 1.0 are enabled by default. Starting from 6.2.0, when <code>strong-crypto</code> is enabled, TLS 1.0 is disabled. When <code>strong-crypto</code> is enabled, SSL 3.0 is only supported in 5.4 releases, not in 6.0 and 6.2 releases.	ssl3 tls1_0, tls1_1, tls1_2 tls1_3

Variable	Description	Default
strong-crypto {enable disable}	<p>Enable to use strong encryption and only allow strong ciphers (AES) and digest (SHA1) for HTTPS/SSH admin access.</p> <p>When strong encryption is enabled, HTTPS is supported by the following web browsers: Netscape 7.2, Netscape 8.0, Firefox, and Microsoft Internet Explorer 7.0 (beta) and higher.</p> <p>Note that Microsoft Internet Explorer 5.0 and 6.0 are not supported in strong encryption.</p>	enable
tftp {enable disable}	Enable to allow use of TFTP in FIPS mode.	enable

Related topics

[config domain-setting on page 90](#)

system ha

Use this command to configure the FortiMail unit to act as a member of a high availability (HA) cluster in order to increase processing capacity or availability. It also enables you to monitor the HA cluster.

Syntax

```
config system ha
config interface
    edit <interface_name> on page 258
        set status {enable | disable} on page 109
        set heartbeat-status <disable | primary | secondary> on page 259
        set peer-ip <ipv4_netmask> on page 260
        set peer-ip6 <ipv6_netmask> on page 260
        set port-monitor {enable | disable} on page 260
        set virtual-ip <ipv4_netmask> on page 260
        set virtual-ip6 <ipv6_netmask> on page 260
config service
    edit <remote-smtp> on page 260
        set check-interval <integer> on page 260
        set check-timeout <integer> on page 260
        set ip <ip_addr> on page 260
        set port <port_num> on page 260
        set retries <integer> on page 260
        set status {enable | disable} on page 260
    edit <remote-imap> on page 260
        set check-interval <integer> on page 260
        set check-timeout <integer> on page 260
        set ip <ip_addr> on page 260
        set port <port_num> on page 260
```

```

    set retries <integer> on page 261
    set status {enable | disable} on page 261
edit <remote-pop> on page 261
    set check-interval <integer> on page 261
    set check-timeout <integer> on page 261
    set ip <ip_addr> on page 261
    set port <port_num> on page 261
    set retries <integer> on page 261
    set status {enable | disable} on page 261
edit <remote-http> on page 261
    set check-interval <integer> on page 261
    set check-timeout <integer> on page 261
    set ip <ip_addr> on page 261
    set port <port_num> on page 261
    set retries <integer> on page 261
    set status {enable | disable} on page 261
edit <local-ports> on page 261
    set check-interval <integer> on page 261
    set retries <integer> on page 261
    set status {enable | disable} on page 261
edit <local-hd> on page 261
    set check-interval <integer> on page 261
    set retries <integer> on page 261
    set status {enable | disable} on page 261
set config-peer-ip <ip_addr> on page 262
set failover <interface_str> {add | bridge | ignore | set}<address_ipv4mask> on
page 262
set hard-drives-check {enable | disable} on page 264
set hb-base-port <interface_int> on page 264
set hb-lost-threshold on page 264
set heartbeat-1-interface <interface_int> on page 264
set heartbeat-1-ip <local_ipv4mask> on page 264
set heartbeat-1-peer <primary-peer_ipv4> on page 265
set heartbeat-2-interface <interface_str> on page 265
set heartbeat-2-ip <secondary-local_ipv4mask> on page 265
set heartbeat-2-peer <secondary-peer_ipv4> on page 265
set mail-data-sync {enable | disable} on page 266
set mailqueue-data-sync {enable | disable} on page 267
set mode {config-master | config-slave | master | off | slave} on page 267
set on-failure {off | restore-role | become-slave} on page 267
set password <password_str> on page 268
set remote-services-as-heartbeat {enable | disable} on page 269
end

```

Variable	Description	Default
<interface_name>	Enter the interface name of which you want to configure the virtual IP.	
action-on-master {ignore-vip use-vip}	Select whether and how to configure the IP addresses and netmasks of the FortiMail unit whose effective HA mode of operation is currently master: <ul style="list-style-type: none"> ignore-vip: Do not change the network interface configuration on failover, and do not monitor. use-vip: Add the specified virtual IP address and netmask to 	ignore-vip

Variable	Description	Default
	<p>the network interface on failover. Normally, you will configure your network (MX records, firewall policies, routing and so on) so that clients and mail services use the virtual IP address. Both originating and reply traffic uses the virtual IP address. This option results in the network interface having two IP Addresses: the actual and the virtual.</p>	
heartbeat-status <disable primary secondary>	<p>Specify if this interface will be used for HA heartbeat and synchronization.</p> <ul style="list-style-type: none"> disable: Do not use this interface for HA heartbeat and synchronization. primary: Select the primary network interface for heartbeat and synchronization traffic. This network interface must be connected directly or through a switch to the Primary heartbeat network interface of other members in the HA group. secondary: Select the secondary network interface for heartbeat and synchronization traffic. <p>The secondary heartbeat interface is the backup heartbeat link between the units in the HA group. If the primary heartbeat link is functioning, the secondary heartbeat link is used for the HA heartbeat. If the primary heartbeat link fails, the secondary link is used for the HA heartbeat and for HA synchronization.</p> <p>This network interface must be connected directly or through a switch to the Secondary heartbeat network interfaces of other members in the HA group.</p> <p>Caution: Using the same network interface for both HA synchronization/heartbeat traffic and other network traffic could result in issues with heartbeat and synchronization during times of high traffic load, and is not recommended.</p> <p>Note: In general, you should isolate the network interfaces that are used for heartbeat traffic from your overall network. Heartbeat and synchronization packets contain sensitive configuration information, are latency-sensitive, and can consume considerable network bandwidth.</p>	

Variable	Description	Default
peer-ip <ipv4_netmask>	<p>Enter the IP address of the matching heartbeat network interface of the other member of the HA group.</p> <p>For example, if you are configuring the primary unit's primary heartbeat network interface, enter the IP address of the secondary unit's primary heartbeat network interface.</p> <p>Similarly, for the secondary heartbeat network interface, enter the IP address of the other unit's secondary heartbeat network interface.</p> <p>This option appears only for active-passive HA.</p>	
peer-ip6 <ipv6_netmask>	Enter the peer IPv6 address in the active-passive HA group.	
port-monitor {enable disable}	<p>Enable to monitor a network interface for failure. If the port fails, the primary unit will trigger a failover.</p> <p>This option applies only if local network interface monitoring is enabled.</p>	
virtual-ip <ipv4_netmask>	<p>Enter the virtual IP address and netmask for this interface.</p> <p>This option is available only if <code>status {enable disable}</code> on page 109 is set.</p>	0.0.0.0/0
virtual-ip6 <ipv6_netmask>	<p>Enter the virtual IPv6 address and netmask for this interface.</p> <p>This option is available only if <code>status {enable disable}</code> on page 109 is set.</p>	0.0.0.0/0
<remote-smtp>	Enter to configure the remote SMTP service monitoring.	
check-interval <integer>	Enter the time interval between service checks in seconds.	120
check-timeout <integer>	Enter the timeout for remote service check in seconds.	30
ip <ip_addr>	Enter the SMTP server IP address for service check.	0.0.0.0
port <port_num>	Enter the SMTP server port number for service check.	25
retries <integer>	Enter the number of attempts to try before considering the SMTP server a failure.	3
status {enable disable}	Enable to start the remote SMTP service monitoring.	disable
<remote-imap>	Enter to configure the remote IMAP service monitoring.	
check-interval <integer>	Enter the time interval between service checks in seconds.	120
check-timeout <integer>	Enter the timeout for remote service check in seconds.	30
ip <ip_addr>	Enter the IMAP server IP address for service check.	0.0.0.0
port <port_num>	Enter the IMAP server port number for service check.	143

Variable	Description	Default
retries <integer>	Enter the number of attempts to try before considering the IMAP server a failure.	3
status {enable disable}	Enable to start the remote IMAP service monitoring.	disable
<remote-pop>	Enter to configure the remote POP service monitoring.	
check-interval <integer>	Enter the time interval between service checks in seconds.	120
check-timeout <integer>	Enter the timeout for remote service check in seconds.	30
ip <ip_addr>	Enter the POP server IP address for service check.	0.0.0.0
port <port_num>	Enter the POP server port number for service check.	110
retries <integer>	Enter the number of attempts to try before considering the POP server a failure.	3
status {enable disable}	Enable to start the remote POP service monitoring.	disable
<remote-http>	Enter to configure the remote HTTP service monitoring.	
check-interval <integer>	Enter the time interval between service checks in seconds.	120
check-timeout <integer>	Enter the timeout for remote service check in seconds.	30
ip <ip_addr>	Enter the HTTP server IP address for service check.	0.0.0.0
port <port_num>	Enter the HTTP server port number for service check.	80
retries <integer>	Enter the number of attempts to try before considering the HTTP server a failure.	3
status {enable disable}	Enable to start the remote HTTP service monitoring.	disable
<local-ports>	Enter to configure the local network interfaces service monitoring.	
check-interval <integer>	Enter the time interval between service checks in seconds.	120
retries <integer>	Enter the number of attempts to try before considering the local network interface a failure.	3
status {enable disable}	Enable to start the local network interface service monitoring.	disable
<local-hd>	Enter to configure the local hard drives service monitoring.	
check-interval <integer>	Enter the time interval between service checks in seconds.	120
retries <integer>	Enter the number of attempts to try before considering the hard drive a failure.	3
status {enable disable}	Enable to start the local hard drive service monitoring.	disable

Variable	Description	Default
config-peer-ip <ip_addr>	Enter the IP address of the slave FortiMail unit.	0.0.0.0
failover <interface_str> {add bridge ignore set}<address_ipv4mask>	<p>Use this option to configure whether and how to configure the IP addresses and netmasks of the FortiMail unit whose effective operating mode is currently MASTER.</p> <p>For example, a primary unit might be configured to receive email traffic through port1 and receive heartbeat and synchronization traffic through port5 and port6. In that case, you would configure the primary unit to set the IP addresses or add virtual IP addresses for port1 of the backup unit upon failover in order to mimic that of the primary unit.</p> <p>This option applies only for FortiMail units operating in the active-passive HA mode, as a primary unit (The configuration of this command is synchronized to the backup unit for use when it assumes the role of the primary unit).</p> <p>Enter the name of a network interface, such as <code>port6</code>, or enter <code>mgmt</code> to configure the management IP address (transparent mode only), then enter one of the following behaviors of the network interface when this FortiMail unit is acting as the primary unit:</p> <p><code>ignore</code>: Do not change the network interface configuration upon failover, and do not monitor. For details on service monitoring for network interfaces, see local-service {ports hd} <interval_int> <retries_int> on page 265. Primary and secondary heartbeat network interfaces must use this option.</p> <p><code>set</code>: Change the network interface to use the specified IP address and netmask upon failover.</p> <p><code>add</code>: Add the specified virtual IP address and netmask to the network interface upon failover. Normally, you will configure your network (MX records, firewall policies, routing and so on) so that clients and mail services use the virtual IP address. Both originating and reply traffic uses the virtual IP address. All replies to sessions with the virtual IP address include the virtual IP address as the source address. Originating traffic, however, will use the network interface's actual IP address as the source address.</p> <p><code>bridge</code>: Include the network interface in the Layer 2 bridge. While the effective operating mode is SLAVE, the interface is deactivated and cannot process traffic, preventing Layer 2 loops. Then, when the effective operating mode becomes MASTER, the interface is activated again and can process traffic. This option applies only if the FortiMail unit is operating in transparent mode, and for mail interfaces that are already members of the bridge. For information on configuring bridging network interfaces, see system interface on page 270.</p>	

Variable	Description	Default
	<p>Network interface(s) configured as the primary heartbeat and secondary heartbeat network interface are required to maintain their IP addresses for heartbeat and synchronization purposes, and cannot be configured with the type <code>set</code> or <code>bridge</code>.</p> <p>After entering a network interface behavior, enter the IP address and netmask.</p> <p>If you have entered <code>bridge</code> or <code>ignore</code> for the previous keyword, because those behaviors do not use IP addresses, you may enter <code>0.0.0.0 0.0.0.0</code>.</p>	

Variable	Description	Default
hard-drives-check {enable disable}	Enable to test the responsiveness of the hard drives.	disable
hb-base-port <interface_ int>	<p>Enter the first of four total TCP port numbers that will be used for:</p> <ul style="list-style-type: none"> the heartbeat signal synchronization control data synchronization configuration synchronization <p>Note: For active-passive groups, in addition or alternatively to configuring the heartbeat, you can configure service monitoring.</p>	20000
hb-lost-threshold	<p>Enter the total span of time, in seconds, for which the primary unit can be unresponsive before it triggers a failover and the backup unit assumes the role of the primary unit.</p> <p>The heartbeat will continue to check for availability once per second. To prevent premature failover when the primary unit is simply experiencing very heavy load, configure a total threshold of three (3) seconds or more to allow the backup unit enough time to confirm unresponsiveness by sending additional heartbeat signals.</p> <p>This option appears only for active-passive groups.</p> <p>Note: If the failure detection time is too short, the backup unit may falsely detect a failure when during periods of high load.</p> <p>Caution: If the failure detection time is too long the primary unit could fail and a delay in detecting the failure could mean that email is delayed or lost. Decrease the failure detection time if email is delayed or lost because of an HA failover.</p>	15
heartbeat-1-interface <interface_int>	Enter the name of the network interface that will be used for the primary heartbeat, and that is connected directly or through a switch to the primary heartbeat interface of the other FortiMail unit(s) in the HA group.	Varies by model (the network interface with the highest number).
heartbeat-1-ip <local_ ipv4mask>	<p>Enter the IP address and netmask of the primary network interface, separated by a space.</p> <p>Use this IP address as the value of the peer IP address when configuring heartbeat-1-peer <primary-peer_ipv4> on page 265 for the other FortiMail units in the HA group.</p>	10.0.0.1 255.255.255.0

Variable	Description	Default
heartbeat-1-peer <primary-peer_ipv4>	Enter the IP address of the primary heartbeat network interface on the other FortiMail unit in the HA group. For example, if the primary heartbeat network interface on the other FortiMail unit has an IP address of 10.0.0.1, enter 10.0.0.1.	10.0.0.2
heartbeat-2-interface <interface_str>	Enter the name of a network interface: Use this network interface as the secondary heartbeat network interface. It must be connected to the secondary heartbeat network interface on the other FortiMail unit in the HA group. Also configure heartbeat-2-ip <secondary-local_ipv4mask> on page 265.	Varies by model. (The network interface with the highest number.)
heartbeat-2-ip <secondary-local_ipv4mask>	Enter the IP address and netmask of the secondary network interface, separated by a space. Use this IP address as the value of the peer IP address when configuring heartbeat-2-peer <secondary-peer_ipv4> on page 265 for the other FortiMail units in the HA group.	0.0.0.0 0.0.0.0
heartbeat-2-peer <secondary-peer_ipv4>	Enter the IP address of the secondary heartbeat network interface on the other FortiMail unit in the HA group. For example, if the secondary heartbeat network interface on the other FortiMail unit has an IP address of 10.0.0.3, enter 10.0.0.3.	0.0.0.0
local-service {ports hd} <interval_int> <retries_int>	Enter a local service to monitor. If you enter <code>ports</code> , continue entering: <interval_int>: Enter the amount of time in seconds between each network interface check. The valid range is between 1 and 60 seconds, or 0 to disable checking. The default value is 0. <retries_int>: Enter the number of times a network interface must consecutively fail to respond in order to trigger a failover. The valid range is 1 to a very high number. The default value is 0. If you enter <code>hd</code> , continue entering: <interval_int>: Enter the amount of time in seconds between each hard drive check. The valid range is between 1 and 60 seconds, or 0 to disable checking. The default value is 0. <retries_int>: Enter the number of times a hard drive must consecutively fail to respond in order to trigger a failover. The valid range is 1 to a very high number. The default value is 0.	PORTS 10 3 HD 10 3

Variable	Description	Default
	<p>During local service monitoring, the primary unit in an active-passive HA group monitors its own network interfaces and hard drives. If either of these local services fails, the primary unit triggers a failover by switching its effective operating mode to "off," and no longer responding to the heartbeat of the backup unit. The backup unit then becomes the new primary unit.</p> <p>If service monitoring detects a failure, the effective operating mode of the primary unit switches to OFF or FAILED (depending on the "On failure" setting) and, if configured, the FortiMail units send HA event alert email, record HA event log messages, and send HA event SNMP traps. A failover then occurs, and the effective operating mode of the backup unit switches to MASTER.</p> <p>This command applies only if the FortiMail unit is operating in an active-passive HA group, as the primary unit.</p>	
mail-data-sync {enable disable}	<p>Enable to synchronize system quarantine, email archives, email users' mailboxes (server mode only), preferences, and per-recipient quarantines.</p> <p>Unless the HA cluster stores its mail data on a NAS server, you should configure the HA cluster to synchronize mail directories.</p> <p>This option applies only for active-passive groups.</p>	enable

Variable	Description	Default
mailqueue-data-sync {enable disable}	<p>Enable to synchronize the mail queue of the FortiMail unit.</p> <p>This option applies only for active-passive groups.</p> <p>Caution: If the primary unit experiences a hardware failure and you cannot restart it, if this option is disabled, MTA spool directory data could be lost.</p> <p>Note: Enabling this option is not recommended. Periodic synchronization can be processor and bandwidth-intensive. Additionally, because the content of the MTA spool directories is very dynamic, periodically synchronizing MTA spool directories between FortiMail units may not guarantee against loss of all email in those directories. Even if MTA spool directory synchronization is disabled, after a failover, a separate synchronization mechanism may successfully prevent loss of MTA spool data.</p>	disable
mode {config-master config-slave master off slave}	<p>Enter one of the following HA operating modes:</p> <p><code>config-master</code>: Enable HA and operate as the primary unit in a config-only HA group.</p> <p><code>config-slave</code>: Enable HA and operate as the backup unit in a config-only HA group.</p> <p><code>master</code>: Enable HA and operate as the primary unit in an active-passive HA group.</p> <p><code>off</code>: Disable HA. Each FortiMail unit operates independently.</p> <p><code>slave</code>: Enable HA and operate as the backup unit in an active-passive HA group.</p> <p>Caution: For config-only HA, if the FortiMail unit is operating in server mode, you must store mail data externally, on a NAS server. Failure to store mail data externally could result in mailboxes and other data scattered over multiple FortiMail units. For details on configuring NAS, see the FortiMail Administration Guide.</p>	off
network-intf-check {enable disable}	<p>Enable to test the responsiveness of network interfaces.</p> <p>Network interface monitoring tests all active network interfaces whose:</p> <p><code>failover <interface_str> {add bridge ignore set} <address_ipv4mask></code> on page 262 setting is not ignore</p> <p><code>port-monitor {enable disable}</code> on page 260 setting is enable.</p>	enable
on-failure {off restore-role become-slave}	<p>Enter one of the following behaviors of the primary unit when it detects a failure.</p> <p><code>off</code>: Do not process email or join the HA group until you manually select the effective operating mode.</p>	

Variable	Description	Default
	<p>restore-role: On recovery, the failed primary unit's effective operating mode resumes its configured operating mode. This behavior may be useful if the cause of failure is temporary and rare, but may cause problems if the cause of failure is permanent or persistent.</p> <p>become-slave: On recovery, the failed primary unit's effective operating mode becomes SLAVE (backup), and it then synchronizes the content of its MTA spool directories with the current primary unit. The new primary unit can then deliver email that existed in the former primary unit's MTA spool at the time of the failover.</p> <p>In most cases, you should enter <code>become-slave</code>.</p> <p>For details on the effects of this option on the effective operating mode, see the FortiMail Administration Guide. This option applies only if the FortiMail unit is operating in an active-passive HA group, as a primary unit.</p>	
password <password_str>	Enter a password for the HA group. The password must be the same on the primary and backup FortiMail unit(s). The password must be at least 1 character.	change_me
remote-service {smtp pop imap http} <interface_ip> <port_int> <interval_int> <wait_int> <retries_int>	<p>Enter a remote service to monitor. Then enter the subsequent values in order:</p> <p><interface_ip>: Enter the IP address to contact when testing the availability of the service. The default value is 0.0.0.0.</p> <p><port_int>: Enter the TCP port number on which the remote FortiMail unit listens for connections of that service type. The default value is 0.</p> <p>For example, if you have configured the primary FortiMail unit to listen for SMTP connections on TCP port 25, you would enter 25.</p> <p><interval_int>: Enter the interval in minutes between each remote service availability test.</p> <p>The valid range is 1 to 60 minutes, or 0 to disable remote service monitoring. The default value is 0.</p> <p><wait_int>: Enter the amount of time in seconds to wait for the primary unit to respond to the remote service availability test.</p> <p>The valid range is 1 to a very high number of seconds, or 0 to disable remote service monitoring. The default value is 0.</p>	

Variable	Description	Default
	<p><retries_int>: Enter the number of consecutive availability test failures after which the primary unit is deemed unresponsive and a failover occurs.</p> <p>The valid range is 1 to a very high number, or 0 to disable remote service monitoring. The default value is 0.</p> <p>This option applies only if the FortiMail unit is operating in an active-passive HA group, as a backup unit.</p>	
remote-services-as-heartbeat {enable disable}	<p>Enable to use remote service monitoring as a tertiary heartbeat signal.</p> <p>This option applies only for FortiMail units operating in the active-passive HA mode, and requires that you also configure remote service monitoring using.</p>	
<wait_int>	<p>Enter the amount of time in seconds to wait for the primary unit to respond to the remote service availability test.</p> <p>The valid range is 1 to a very high number of seconds, or 0 to disable remote service monitoring.</p>	0
<retries_int>	<p>Enter the number of consecutive availability test failures after which the primary unit is deemed unresponsive and a failover occurs.</p> <p>The valid range is 1 to a very high number, or 0 to disable remote service monitoring.</p>	0
smtp-check {enable disable}	Enable to test the connection responsiveness of SMTP.	disable

Related topics

[system geoip-override on page 253](#)

[system ha on page 257](#)

system interface

Use this command to configure allowed and denied administrative access protocols, maximum transportation unit (MTU) size, SMTP proxy, and up or down administrative status for the network interfaces of a FortiMail unit.

Proxy and built-in MTA behaviors are configured separately based upon whether the SMTP connection is considered to be incoming or outgoing. Because a network connection considers the network layer rather than the application layer when deciding whether to intercept a connection, the concept of incoming and outgoing connections is based upon slightly different things than that of incoming and outgoing email messages: directionality is determined by IP addresses of connecting clients and servers, rather than the email addresses of recipients.

Incoming connections consist of those destined for the SMTP servers that are protected domains of the FortiMail unit. For example, if the FortiMail unit is configured to protect the SMTP server whose IP address is 10.1.1.1, the FortiMail unit treats all SMTP connections destined for 10.1.1.1 as incoming. For information about configuring protected domains, see [config domain-setting on page 90](#).

Outgoing connections consist of those destined for SMTP servers that the FortiMail unit has not been configured to protect. For example, if the FortiMail unit is **not** configured to protect the SMTP server whose IP address is 192.168.1.1, all SMTP connections destined for 192.168.1.1 will be treated as outgoing, regardless of their origin.

Syntax

```
config system interface
  edit <physical_interface_str> on page 271, <logical_interface_str> on page 271, or
    loopback on page 271
    set allowaccess {ping http https snmp ssh telnet} on page 271
    set ip <ipv4mask> on page 272
    set ip6 <ipv6mask> on page 272
    set mac-addr <xx.xx.xx.xx.xx.xx> on page 272
    set mailaccess on page 272
    set mode {static | dhcp} on page 272
    set mtu <mtu_int> on page 272
    set proxy-smtp-in-mode {pass-through | drop | proxy} on page 272
    set proxy-smtp-local status {enable | disable} on page 273
    set proxy-smtp-out-mode {pass-through | drop | proxy} on page 273
    set speed {auto | 10full | 10half | 100full | 100half | 1000full} on page 275
    set status {down | up} on page 275
    set type {vlan | redundant} on page 274
    set vlanid <int> on page 275
    set webaccess on page 275
    set redundant-link-monitor {mii-link | arp-link} on page 274
    set redundant-arp-ip <ip_addr> on page 274
    set redundant-member <member_interface_str> on page 275
end
```

Variable	Description	Default
<physical_interface_str>	Enter the name of the physical network interface, such as port1.	
<logical_interface_str>	Enter a name for the VLAN or redundant interface. Then set the interface type.	
loopback	<p>A loopback interface is a logical interface that is always up (no physical link dependency) and the attached subnet is always present in the routing table.</p> <p>The FortiMail's loopback IP address does not depend on one specific external port, and is therefore possible to access it through several physical or VLAN interfaces. In the current release, you can only add one loopback interface on the FortiMail unit.</p> <p>The loopback interface is useful when you use a layer 2 load balancer in front of several FortiMail units. In this case, you can set the FortiMail loopback interface's IP address the same as the load balancer's IP address and thus the FortiMail unit can pick up the traffic forwarded to it from the load balancer.</p>	
allowaccess {ping http https snmp ssh telnet}	<p>Enter one or more of the following protocols to add them to the list of protocols permitted to administratively access the FortiMail unit through this network interface:</p> <p>ping: Allow ICMP ping responses from this network interface.</p> <p>http: Allow HTTP access to the web-based manager, webmail, and per-recipient quarantines.</p> <p>Caution: HTTP connections are not secure and can be intercepted by a third party. To reduce risk to the security of your FortiMail unit, enable this option only on network interfaces connected directly to your management computer.</p> <p>https: Allow secure HTTP (HTTPS) access to the web-based manager, webmail, and per-recipient quarantines.</p> <p>snmp: Allow SNMP v2 access. For more information, see system snmp community on page 287, system snmp sysinfo on page 288, and system snmp threshold on page 288.</p> <p>ssh: Allow SSH access to the CLI.</p> <p>telnet: Allow Telnet access to the CLI.</p> <p>To control SMTP access, configure access control rules and session profiles. For details, see o365 profile antivirus on page 131 and profile session on page 209.</p> <p>Caution: Telnet connections are not secure and can be intercepted by a third party. To reduce risk to the security of your FortiMail unit, enable this option only on network interfaces connected directly to your management computer.</p>	Varies by the network interface.

Variable	Description	Default
ip <ipv4mask>	<p>Enter the IP address and netmask of the network interface.</p> <p>If the FortiMail unit is in transparent mode, IP/Netmask may alternatively display bridging. This means that the network interface is acting as a Layer 2 bridge. If high availability (HA) is also enabled, IP and Netmask may alternatively display bridged (isolated) while the effective operating mode is slave and therefore the network interface is currently disconnected from the network, or bridging (waiting for recovery) while the effective operating mode is failed and the network interface is currently disconnected from the network but a failover may soon occur, beginning connectivity.</p>	
ip6 <ipv6mask>	<p>Enter the IPv6 address and netmask of the network interface.</p> <p>If the FortiMail unit is in transparent mode, IP/Netmask may alternatively display bridging. This means that the network interface is acting as a Layer 2 bridge. If high availability (HA) is also enabled, IP and Netmask may alternatively display bridged (isolated) while the effective operating mode is slave and therefore the network interface is currently disconnected from the network, or bridging (waiting for recovery) while the effective operating mode is failed and the network interface is currently disconnected from the network but a failover may soon occur, beginning connectivity.</p>	
mac-addr <xx.xx.xx.xx.xx.xx>	Override the factory set MAC address of this interface by specifying a new MAC address. Use the form xx:xx:xx:xx:xx:xx.	Factory set
mailaccess	Allow mail access with the interface.	
mode {static dhcp}	<p>Enter the interface mode.</p> <p>DHCP mode applies only if the FortiMail unit is operating in gateway mode or server mode.</p>	static
mtu <mtu_int>	<p>Enter the maximum packet or Ethernet frame size in bytes.</p> <p>If network devices between the FortiMail unit and its traffic destinations require smaller or larger units of traffic, packets may require additional processing at each node in the network to fragment or defragment the units, resulting in reduced network performance. Adjusting the MTU to match your network can improve network performance.</p> <p>The valid range is from 576 to 1500 bytes.</p>	1500
proxy-smtp-in-mode {pass-through drop proxy}	Enter how the proxy or built-in MTA will handle SMTP connections on each network interface that are incoming to the IP addresses of email servers belonging to a protected domain:	proxy

Variable	Description	Default
	<ul style="list-style-type: none"> <code>pass-through</code>: Permit but do not proxy or relay. Because traffic is not proxied or relayed, no policies will be applied. <code>drop</code>: Drop the connection. <code>proxy</code>: Proxy or relay the connection. Once intercepted, policies determine any further scanning or logging actions. For more information, see config policy delivery-control on page 139, policy recipient on page 142, and config policy recipient on page 102. <p>Note: Depending on your network topology, you may want to verify that email is not being scanned twice. This could result if, due to mail routing, an email would travel through the FortiMail unit multiple times in order to reach its final destination, and you have entered <code>proxy</code> more than once for each interface and/or directionality. For an example, see the FortiMail Administration Guide.</p> <p>This option is only available in transparent mode.</p>	
proxy-smtp-local status {enable disable}	<p>Enable to allow connections destined for the FortiMail unit itself.</p> <p>This option is only available in transparent mode.</p>	disable
proxy-smtp-out-mode {pass-through drop proxy}	<p>Enter how the proxy or built-in MTA will handle SMTP connections on each network interface that are incoming to the IP addresses of email servers belonging to a protected domain:</p> <ul style="list-style-type: none"> <code>pass-through</code>: Permit but do not proxy or relay. Because traffic is not proxied or relayed, no policies will be applied. <code>drop</code>: Drop connections. <code>proxy</code>: Proxy or relay connections. Once intercepted, policies determine any further scanning or logging actions. For more information, see config policy delivery-control on page 139. <p>Note: Depending on your network topology, you may want to verify that email is not being scanned twice. This could result if, due to mail routing, an email would travel through the FortiMail unit multiple times in order to reach its final destination, and you have entered <code>proxy</code> more than once for each interface and/or directionality. For an example, see the FortiMail Administration Guide.</p> <p>This option is only available in transparent mode.</p>	pass-through

Variable	Description	Default
redundant-arp-ip <ip_addr>	<p>Enter the redundant interface ARP monitoring IP target.</p> <p>This option is only available when you choose the <code>arp-link</code> monitoring parameter. See redundant-link-monitor {mii-link arp-link} on page 274.</p>	
type {vlan redundant}	<p>vlan: A Virtual LAN (VLAN) subinterface, also called a VLAN, is a virtual interface on a physical interface. The subinterface allows routing of VLAN tagged packets using that physical interface, but it is separate from any other traffic on the physical interface.</p> <p>Virtual LANs (VLANs) use ID tags to logically separate devices on a network into smaller broadcast domains. These smaller domains forward packets only to devices that are part of that VLAN domain. This reduces traffic and increases network security.</p> <p>One example of an application of VLANs is a company's accounting department. Accounting computers may be located at both main and branch offices. However, accounting computers need to communicate with each other frequently and require increased security. VLANs allow the accounting network traffic to be sent only to accounting computers and to connect accounting computers in different locations as if they were on the same physical subnet.</p> <p>Also configure redundant-link-monitor {mii-link arp-link} on page 274 and redundant-member <member_interface_str> on page 275.</p> <p>redundant: On the FortiMail unit, you can combine two or more physical interfaces to provide link redundancy. This feature allows you to connect to two or more switches to ensure connectivity in the event one physical interface or the equipment on that interface fails.</p> <p>In a redundant interface, traffic is only going over one interface at any time. This differs from an aggregated interface where traffic is going over all interfaces for increased bandwidth. This difference means redundant interfaces can have more robust configurations with fewer possible points of failure. This is important in a fully-meshed HA configuration.</p> <p>Also configure vlanid <int> on page 275.</p>	
redundant-link-monitor {mii-link arp-link}	<p>Configure the parameters to monitor the connections of the redundant interfaces. This option is only available when you choose the <code>redundant</code> interface type.</p> <p>mii-link: Media Independent Interface is an abstract layer between the operating system and the NIC which detects whether the failover link is running.</p> <p>arp-link: Address Resolution Protocol periodically checks whether the remote interface is reachable. Also configure redundant-arp-ip <ip_addr> on page 274.</p>	mii-link

Variable	Description	Default
redundant-member <member_interface_str>	Enter the redundant member for the failover configuration. This option is only available when you choose the <code>redundant</code> interface type.	
vlanid <int>	Enter the Vlan ID for logically separating devices on a network into smaller broadcast domains. This option is only available when you choose the <code>vlan</code> interface type.	
webaccess	Allow web access with the interface.	
speed {auto 10full 10half 100full 100half 1000full}	Enter the speed of the network interface. Note: Some network interfaces may not support all speeds.	auto
status {down up}	Enter either <code>up</code> to enable the network interface to send and receive traffic, or <code>down</code> to disable the network interface.	up

Related topics

[sensitive data on page 226](#)

[system admin on page 229](#)

system link-monitor

Use this command to propagate status of a sort to other ports.

Syntax

```
config system link-monitor
    set link-monitor-delay on page 275
    set link-monitor-interval on page 275
    set link-monitor-status {enable | disable} on page 275
end
```

Variable	Description	Default
link-monitor-delay	Enter in seconds the amount of time to delay after link state changes.	
link-monitor-interval	Enter in seconds the time the link monitor will perform an interval check.	
link-monitor-status {enable disable}	Enable the link monitor.	8

system mailserver

Use this command to configure the system-wide mail settings.

Syntax

```
config system mailserver
config mail-queue
    edit {default | incoming | outgoing} on page 277
        set queue-dsn-timeout <timeout_int> on page 279
        set queue-retry <interval_int> on page 279
        set queue-timeout <timeout_int> on page 279
        set queue-warning <first-dsn_int> on page 279
    end
set deadmail-expiry <time_int> on page 277
set default-auth-domain <domain_name> on page 277
set defer-delivery-starttime <time_str> on page 277
set defer-delivery-stoptime <time_str> on page 277
set delivery-esmtp {no | yes} on page 277
set delivery-failure-conditions {dns-failure | mta-failure-permanent | mta-failure-temporary | network-failure-connection | network-failure-other} on page 277
set delivery-failure-handling-option {normal | relay-to-host} on page 277
set delivery-failure-host <host_name> on page 278
set delivery-failure-min-age <minute_int> on page 278
set dsn-sender-address <email_str> on page 278
set dsn-sender-displayname <name_str> on page 278
set dsn-status {enable | disable} on page 278
set imap-service {enable | disable} on page 278
set ldap-domaincheck {enable | disable} on page 278
set ldap-domaincheck-auto-associate {enable | disable} on page 278
set ldap-domaincheck-internal-domain <domain_str> on page 279
set ldap-domaincheck-profile <profile_str> on page 279
set local-domain-name <local-domain_str> on page 279
set pop3-port <port_int> on page 279
set pop3-service {enable | disable} on page 279
set queue-dsn-timeout <timeout_int> on page 279
set queue-retry <interval_int> on page 279
set queue-timeout <timeout_int> on page 279
set queue-warning <first-dsn_int> on page 279
set relay-server-name <relay_name> on page 280
set relay-server-status {enable | disable} on page 280
set show-accept-cert-ca {enable | disable} on page 280
set smtp-auth {enable | disable} on page 280
set smtp-auth-over-tls {enable | disable} on page 280
set smtp-auth-smtps {enable | disable} on page 280
set smtp-delivery-addr-pref {ipv4-ipv6 | ipv6-ipv4 | ipv4 | ipv6} on page 280
set smtp-delivery-session-preference {domain | host}
set smtp-max-connections <connection_int> on page 281
set smtp-max-hop-count <number> on page 281
set smtp-msa {enable | disable} on page 281
set smtp-msa-port <port_int> on page 281
set smtp-port <port_int> on page 281
set smtp-service {enable | disable} on page 281
```

```

set smtps-port <port_int on page 281
set smtps-tls-status {enable | disable} on page 281
set timeout-connect <seconds_int> on page 281
set timeout-greeting <seconds_int> on page 282
end

```

Variable	Description	Default
deadmail-expiry <time_int>	Enter the number of days to keep permanently undeliverable email in the dead mail folder. Dead mail has both incorrect recipient and sender email addresses, and can neither be delivered nor the sender notified. The valid range is from 1 to 365 days.	1
default-auth-domain <domain_name>	Enter the domain to use for default authentication.	
{default incoming outgoing}	Select the queue you want to configure.	default
defer-delivery-starttime <time_str>	Enter the time that the FortiMail unit will begin to process deferred oversized email, using the format <code>hh:mm</code> , where <code>hh</code> is the hour according to a 24-hour clock, and <code>mm</code> is the minutes.	00:00
defer-delivery-stoptime <time_str>	Enter the time that the FortiMail unit will stop processing deferred oversized email, using the format <code>hh:mm</code> , where <code>hh</code> is the hour according to a 24-hour clock, and <code>mm</code> is the minutes.	00:00
delivery-esmtp {no yes}	Enter either: <code>yes</code> : Disable the FortiMail unit from delivering email using ESMTP, and use standard SMTP instead. <code>no</code> : Enable the FortiMail unit to deliver email using ESMTP if the SMTP server to which it is connecting supports the protocol.	no
delivery-failure-conditions {dns-failure mta-failure-permanent mta-failure-temporary network-failure-connection network-failure-other}	Specify the type of failed network connections the backup relay should take over and retry.	
delivery-failure-handling-option {normal relay-to-host}	When email delivery fails, you can choose to use the mail queue settings to handle the temporary or permanent failures. You can also try another relay that you know might work. <code>normal</code> : Enter this option if you want to queue the email and use the mail queue settings. <code>relay-to-host</code> : Enter another relay (backup relay) that you want to use for failed deliveries.	normal

Variable	Description	Default
delivery-failure-host <host_name>	Enter a host to relay email when access to original mail host fails.	
delivery-failure-min-age <minute_int>	Enter the time in minutes the undelivered email should wait in the normal queue before trying the backup relay.	30
dsn-sender-address <email_str>	<p>Enter the sender email address in delivery status notification (DSN) email messages sent by the FortiMail unit to notify email users of delivery failure.</p> <p>If this string is empty, the FortiMail unit sends DSN from the default sender email address of "postmaster@example.com", where "example.com" is the domain name of the FortiMail unit.</p>	
dsn-sender-displayname <name_str>	<p>Enter the display name of the sender email address for DSN.</p> <p>If this string is empty, the FortiMail unit uses the display name "postmaster".</p>	
dsn-status {enable disable}	Enable to allow DSN email generation.	disable
imap-service {enable disable}	Enable to allow IMAP service.	enable
ldap-domaincheck {enable disable}	<p>Enable to verify the existence of domains that have not been configured as protected domains. Also configure <code>ldap-domaincheck-profile <profile_str></code> on page 279 and <code>ldap-domaincheck-auto-associate {enable disable}</code> on page 278.</p> <p>To verify the existence of unknown domains, the FortiMail unit queries an LDAP server for a user object that contains the email address. If the user object exists, the verification is successful, the action varies by configuration of <code>ldap-domaincheck-auto-associate {enable disable}</code> on page 278.</p>	disable
ldap-domaincheck-auto-associate {enable disable}	<p>If <code>ldap-domaincheck</code> is <code>enable</code>, select whether to enable or disable automatic creation of domain associations.</p> <p><code>enable</code>: The FortiMail unit automatically adds the unknown domain as a domain associated of the protected domain selected in <code>ldap-domaincheck-internal-domain <domain_str></code> on page 279.</p> <p><code>disable</code>: If the DNS lookup of the unknown domain name is successful, the FortiMail unit routes the email to the IP address resolved for the domain name during the DNS lookup. Because the domain is not formally defined as a protected domain, the email is considered to be outgoing, and outgoing recipient-based policies are used to scan the email. For more information, see policy recipient on page 142.</p>	disable

Variable	Description	Default
ldap-domaincheck-internal-domain <domain_str>	If <code>ldap-domaincheck</code> is enable, and <code>ldap-domaincheck-auto-associate</code> is enable, enter name of the protected domain with which successfully verified domains will become associated.	
ldap-domaincheck-profile <profile_str>	If <code>ldap-domaincheck</code> is enable, enter the name of the LDAP profile to use when verifying unknown domains.	
local-domain-name <local-domain_str>	Enter the name of the domain to which the FortiMail unit belongs, such as <code>example.com</code> . This option applies only if the FortiMail unit is operating in server mode.	
pop3-port <port_int>	Enter the port number on which the FortiMail unit's POP3 server will listen for POP3 connections. The default port number is 110. This option applies only if the FortiMail unit is operating in server mode.	110
pop3-service {enable disable}	Enable to allow POP3 service.	enable
queue-dsn-timeout <timeout_int>	Enter the maximum number of days a delivery status notification (DSN) message can remain in the mail queues. If the maximum time is set to zero (0) days, the FortiMail unit attempts to deliver the DSN only once. After the maximum time has been reached, the DSN email is moved to the dead mail folder. The valid range is from zero to ten days.	5
queue-retry <interval_int>	Enter the number of minutes between delivery retries for email messages in the deferred and spam mail queues. The valid range is from 10 to 120 minutes.	27
queue-timeout <timeout_int>	Enter the maximum number of hours that deferred email messages can remain in the deferred or spam mail queue, during which the FortiMail unit periodically retries to send the message. After the maximum time has been reached, the FortiMail unit will send a final delivery status notification (DSN) email message to notify the sender that the email message was undeliverable. The valid range is from 1 to 240 hours.	120
queue-warning <first-dsn_int>	Enter the number of hours after an initial failure to deliver an email message before the FortiMail unit sends the first delivery status notification (DSN) email message to notify the sender that the email message has been deferred.	4

Variable	Description	Default
	After sending this initial DSN, the FortiMail unit will continue to retry sending the email until reaching the limit configured in <code>timeout</code> . The valid range is from 1 to 24 hours.	
<code>relay-server-name <relay_name></code>	Specify the relay server to deliver outgoing email.	
<code>relay-server-status {enable disable}</code>	If enabled, the relay server will be used to deliver outgoing email. If disabled, the FortiMail built-in MTA will be used.	disable
<code>show-accept-cert-ca {enable disable}</code>	Enable to show acceptable client certificate ca.	enable
<code>smtp-auth {enable disable}</code>	Enable to accept the <code>AUTH</code> command to authenticate email users for connections using SMTP.	enable
<code>smtp-auth-over-tls {enable disable}</code>	Enable to accept the <code>AUTH</code> command to authenticate email users for connections using SMTP over TLS.	enable
<code>smtp-auth-smtps {enable disable}</code>	Enable to accept the <code>AUTH</code> command to authenticate email users for connections using SMTPS (SMTP with SSL).	enable
<code>smtp-delivery-addr-pref {ipv4-ipv6 ipv6-ipv4 ipv4 ipv6}</code>	When FortiMail delivers email to a host name, it does DNS AAAA and A record lookup. Use this command to specify the IPv4/IPv6 delivery preferences: <ul style="list-style-type: none"> <code>ipv4-ipv6</code>: Try to deliver to the IPv4 address first. If the IPv4 address is not accessible, try the IPv6 address. Because most MTAs support IPv4, this is the default setting. <code>ipv6-ipv4</code>: Try IPv6 first, then IPv4. However, if the AAAA record does not exist, the extra AAAA DNS lookup for IPv6 addresses will potentially cause email delivery delay. <code>ipv4</code>: Try IPv4 only. This setting is not recommended. <code>ipv6</code>: Try IPv6 only. This setting is not recommended. 	ipv4-ipv6
<code>smtp-delivery-session-preference {domain host}</code>	Google business email service does not accept multiple destination domains per SMTP transaction, resulting in repeated delivery attempts and delayed email. To work around this Google limitation, this command is added in 5.4.6 and 6.0.1 releases.	domain

Variable	Description	Default
	<p>Before 5.4.6 and 6.0. releases, the default setting is host. Multiple recipient domains that resolve to the same MTA are sent to the server in the same session.</p> <p>After 5.4.6 and 6.0.1 release, the default setting is changed to domain. Multiple recipient domains that resolve to the same MTA are sent to the server in separate sessions.</p>	
smtp-max-connections <connection_int>	Enter the maximum number of concurrent SMTP connections that FortiMail can accept from the SMTP clients.	Platform dependent
smtp-max-hop-count <number>	Enter the maximum number of hops that FortiMail can accept from the SMTP connections. Valid range is 1 to 200.	30
smtp-msa {enable disable}	<p>Enable to allow your email clients to use SMTP for message submission on a separate TCP port number from deliveries or mail relay by MTAs.</p> <p>For details on message submission by email clients as distinct from SMTP used by MTAs, see RFC 2476.</p>	disable
smtp-msa-port <port_int>	Enter the TCP port number on which the FortiMail unit listens for email clients to submit email for delivery.	587
smtp-port <port_int>	Enter the port number on which the FortiMail unit's SMTP server will listen for SMTP connections.	25
smtp-service {enable disable}	Enable to allow SMTP service.	disable
smtps-port <port_int>	Enter the port number on which the FortiMail unit's built-in MTA listens for secure SMTP connections.	465
smtps-tls-status {enable disable}	<p>Enable to allow SSL- and TLS-secured connections from SMTP clients that request SSL/TLS.</p> <p>When disabled, SMTP connections with the FortiMail unit's built-in MTA must occur as clear text, unencrypted.</p>	disable
timeout-connect <seconds_int>	<p>Enter the maximum amount of time to wait, after the FortiMail unit initiates it, for the receiving SMTP server to establish the network connection.</p> <p>The valid range is 10 to 120.</p> <p>Note: This timeout applies to all SMTP connections, regardless of whether it is the first connection to that SMTP server or not.</p>	30

Variable	Description	Default
timeout-greeting <seconds_int>	<p>Enter the maximum amount of time to wait for an SMTP server to send SMTP reply code 220 to the FortiMail unit.</p> <p>The valid range is 10 to 360.</p> <p>Note: RFC 2821 recommends a timeout value of 5 minutes (300 seconds). For performance reasons, you may prefer to have a smaller timeout value, which reduces the amount of time spent waiting for sluggish SMTP servers. However, if this causes your FortiMail unit to be unable to successfully initiate an SMTP session with some SMTP servers, consider increasing the timeout.</p>	30

Related topics

[system route on page 284](#)

system password-policy

Use this command to configure password policy for administrators, FortiMail Webmail users, and IBE encrypted email users.

Syntax

```
config system password-policy
    set status {enable | disable} on page 282
    set apply-to {admin-user | ibe-user | local-mail-user} on page 282
    set minimum-length <minimum_int> on page 283
    set must-contain {upper-case-letter | lower-case-letter | number | non-
        alphanumeric} on page 283
    set allow-admin-empty-password {enable | disable} on page 283
end
```

Variable	Description	Default
status {enable disable}	Select to enable the password policy.	
apply-to {admin-user ibe-user local-mail-user}	<p>Select where to apply the password policy:</p> <ul style="list-style-type: none"> <code>admin_user</code>: Apply to administrator passwords. If any password does not conform to the policy, require that administrator to change the password at the next login. <code>local-mail-user</code>: Apply to FortiMail webmail users' passwords. If any password does not conform to the policy, require that user to change the password at the next login. <code>ibe-user</code>: Apply to the passwords of the users who access the 	

Variable	Description	Default
	FortiMail unit to view IBE encrypted email. If any password does not conform to the policy, require that user to change the password at the next login.	
minimum-length <minimum_int>	Set the minimum acceptable length for passwords.	8
must-contain {upper-case-letter lower-case-letter number non-alphanumeric}	<p>Select any of the following special character types to require in a password. Each selected type must occur at least once in the password.</p> <p>upper-case-letter — A, B, C, ... Z</p> <p>lower-case-letter — a, b, c, ... z</p> <p>number — 0, 1, 2, 3, 4, 5, 6, 7 8, 9</p> <p>non-alphanumeric — punctuation marks, @, #, ... %</p>	
allow-admin-empty-password {enable disable}	Enable to allow the admin password to be empty.	disable

Related topics

[system link-monitor on page 275](#)

system port-forwarding

FortiMail port forwarding allows remote computers, for example, computers on the Internet, to connect to a specific computer or service within a private local area network (LAN). Port Forwarding is useful when FortiMail is deployed as a gateway and you want external users to access an internal server via FortiMail.

For example, FortiMail port1 is connected to the Internet and its IP address 192.168.37.4, port 7000, is mapped to 10.10.10.42, port 8000, on a private network. Attempts to communicate with 192.168.37.4, port 7000, from the Internet are translated and sent to 10.10.10.42, port 8000, by the FortiMail unit. The computers on the Internet are unaware of this translation and see a single computer at 192.168.37.4, port 7000, rather than the 10.10.10.42 network behind the FortiMail unit.

Before you do the mapping, make sure both ports are open.

Syntax

```
config system port-forwarding
  edit <route_int> on page 284
    set destination <destination_ipv4mask> on page 284
    set gateway <gateway_ipv4> on page 284
  end
```

Variable	Description	Default
<number>	Enter the index number of the entry.	
dst-host <calss_ip>	Enter the IP address of the host where the packets will be forwarded.	0.0.0.0
dst-port <port_number>	Enter the port number of the destination host.	0
host <class_ip>	Enter the IP address of the FortiMail interface where the packets are received.	0.0.0.0
port <port_number>	Enter the port number on the FortiMail interface where the packets are received.	0
protocol {tcp udp both}	Specify the protocol of the traffic.	tcp

system route

Use this command to configure static routes.

Syntax

```
config system route
  edit <route_int> on page 284
    set destination <destination_ipv4mask> on page 284
    set gateway <gateway_ipv4> on page 284
    set interface <interface_name> on page 284
  end
```

Variable	Description	Default
<route_int>	Enter the index number of the route in the routing table.	
destination <destination_ipv4mask>	Enter the destination IP address and netmask of traffic that will be subject to this route, separated with a space. To indicate all traffic regardless of IP address and netmask, enter 0.0.0.0 0.0.0.0.	0.0.0.0 0.0.0.0
gateway <gateway_ipv4>	Enter the IP address of the gateway router.	0.0.0.0
interface <interface_name>	Enter the interface name that you want to add the static route to.	

Related topics

[system link-monitor on page 275](#)

system saml

Use this command to enable and configure SAML SSO.

Syntax

```
config system saml
  set status {enable | disable} on page 285
  set idp-metadata-url <url> on page 285
end
```

Variable	Description	Default
status {enable disable}	Enable or disable the feature.	disable
idp-metadata-url <url>	Specify the URL to retrieve the IDP metadata.	

system scheduled-backup

Use this command to configure system backup.

Syntax

```
config system scheduled-backup
  set destination...
end
```

Variable	Description	Default
destination...	Configure the destination server and schedule.	

system security crypto

Use this command to modify protocol specific crypto configuration.

Syntax

```
config system security crypto
edit http
    set custom-ciphers <ciphers> on page 286
    set dh-params {1024 | 2048 | 3072 | 4096} on page 286
    set ssl-versions {tls1_0 | tls1_1 | tls1_2 | tls1_3} on page 286
    set status {enable | disable} on page 286
    set strong-crypto {enable | disable} on page 286
edit mail
    set custom-ciphers <ciphers> on page 286
    set dh-params {1024 | 2048 | 3072 | 4096} on page 286
    set ssl-versions {tls1_0 | tls1_1 | tls1_2 | tls1_3} on page 286
    set status {enable | disable} on page 286
    set strong-crypto {enable | disable} on page 286
end
```

Variable	Description	Default
custom-ciphers <ciphers>	Add ciphers by typing +cipher_names separated by spaces, such as +RC4-SHA +CAMELLIA256-SHA. Delete ciphers by typing -cipher_names separated by spaces, such as -RC4-SHA -CAMELLIA256-SHA. Type ? to see all the supported regular and strong ciphers. The available ciphers for addition are listed under <i>Available ciphers</i> ; the <i>Selected ciphers</i> list the ones that have already been added. You can remove ciphers from the <i>Selected ciphers</i> list.	
dh-params {1024 2048 3072 4096}	Enter the minimum size in bits of the Diffie-Hellman prime.	1024
ssl-versions {tls1_0 tls1_1 tls1_2 tls1_3}	Enter the SSL protocol version enabled.	tls1_1, tls1_2, tls1_3
status {enable disable}	Enable the protocol specific crypto.	disable
strong-crypto {enable disable}	Use strong ciphers and digests.	enable

system security authserver

Use this command to modify the tracking functions used to prevent password guessing attempts. The sender IP addresses in the exempt list will bypass the security checking.

Syntax

```
config system security authserver
config exempt-list
    edit auth_exempt_id on page 287
        set sender-ip-mask on page 287
```

```

    end
    set access-group on page 287
    set block-period on page 287
    set status on page 287 (disable | enable | monitor-only)
end

```

Variable	Description	Default
auth_exempt_id	Enter the ID for the list.	
sender-ip-mask	Enter the sender's IP address.	
access-group	Enter the groups of access tracked by authserver.	
block-period	Enter the block period in minutes.	
status	Enable or disable this list.	

system snmp community

Use this command to configure simple network management protocol (SNMP) v1/2 settings.

These commands apply only if the SNMP agent is enabled. For details, see [status {enable | disable} on page 288](#).

Syntax

```

config system snmp community
  edit <index_int>
    config host
      edit <index_int>
        set ip <address_ipv4>
      set name <name_str>
      set queryportv1 <port_int>
      set queryportv2c <port_int>
      set queryv1-status {enable | disable}
      set queryv2c-status {enable | disable}
      set status {enable | disable}
      set trapevent {cpu | deferred-queue | ha | ip-change | logdisk | maildisk | mem |
        raid | remote-storage | spam | system | virus}
      set trapportv1_local <port_int>
      set trapportv1_remote <port_int>
      set trapportv2c_local <port_int>
      set trapportv2c_remote <port_int>
      set trapv1_status {enable | disable}
      set trapv2c_status {enable | disable}
    end
  end
end

```

Related topics

[system snmp sysinfo on page 288](#)

[system snmp threshold on page 288](#)

system snmp sysinfo

Use this command to enable or disable the SNMP agent on the FortiMail unit, and to configure the location, description, engine ID, and contact information.

Syntax

```
config system snmp sysinfo
  set contact <contact_str> on page 288
  set description <description_str> on page 288
  set port-https <port_int> on page 256
  set location <location_str> on page 288
  set status {enable | disable} on page 288
end
```

Variable	Description	Default
contact <contact_str>	Enter the contact information for the administrator of this FortiMail unit, such as 'admin@example.com'.	
description <description_str>	Enter a description for the FortiMail unit that will uniquely identify it to the SNMP monitor, such as 'FortiMail-400 Rack 1'.	
engine-id <id_str>	Enter the SNMP engine ID on the FortiMail unit.	
location <location_str>	Enter the location of this FortiMail unit, such as 'NOC_Floor2'.	
status {enable disable}	Enable to activate the SNMP agent.	enable

Related topics

[system snmp community on page 287](#)

[system snmp threshold on page 288](#)

system snmp threshold

Use this command to configure the event types that trigger an SNMP trap.

Syntax

```
config system snmp threshold
  set {cpu | deferred-queue | logdisk | maildisk | mem | spam | virus} <trigger_int>
  <threshold_int> <sample_period_int> <sample_frequency_int> on page 289
end
```


Variable	Description	Default
{cpu deferred-queue logdisk maildisk mem spam virus} <trigger_int> <threshold_int> <sample_period_int> <sample_frequency_int>	Specify the trap event, such as cpu or spam, then specify the following threshold values:	cpu: 80 3 600 30
	<code>trigger_int</code> : You can enter either the percent of the resource in use or the number of times the trigger level must be reached before it is triggered. For example, using the default value, if the mailbox disk is 90% or more full, it will trigger.	mem: 80 3 600 30
	<code>threshold_int</code> : Sets the number of triggers that will result in an SNMP trap. For example, if the CPU level exceeds the set trigger percentage once before returning to a lower level, and the threshold is set to more than one an SNMP trap will not be generated until that minimum number of triggers occurs during the sample period.	logdisk: 90 1 7200 3600
	<code>sample_period_int</code> : Sets the time period in seconds during which the FortiMail unit SNMP agent counts the number of triggers that occurred. This value should not be less than the Sample Frequency value.	maildisk: 90 1 7200 3600
	<code>sample_frequency_int</code> : Sets the interval in seconds between measurements of the trap condition. You will not receive traps faster than this rate, depending on the selected sample period. This value should be less than the Sample Period value.	virus: 10 600 spam: 60 600

Related topics

[system snmp community on page 287](#)

[system snmp sysinfo on page 288](#)

system snmp user

Use this command to configure SNMP v3 user settings.

SNMP v3 adds more security by using authentication and privacy encryption. You can specify an SNMP v3 user on FortiMail so that SNMP managers can connect to the FortiMail unit to view system information and receive SNMP traps.

Syntax

```
config system snmp user
  edit <user_name> on page 290
    set query-status {enable | disable} on page 290
    set query-port <port_number> on page 290
    set security-level {authnopriv | authpriv | noauthnopriv} on page 290
    set auth-proto {sha1 | md5} on page 290
    set aut-pwd <password> on page 290
```

```

set status {enable | disable} on page 290
set trap-status {enable | disable} on page 290
set trapevent {cpu | deferred-queue | ha | ip-change | logdisk | mem | raid |
  remote-storage | spam | system | virus} on page 290
set trapport-local <port_number> on page 291
set trapport-remote <port_number> on page 291
config host
  edit <host_no> on page 291
    set ip <class_ip> on page 291
  end
end

```

Variable	Description	Default
<user_name>	Enter a name to identify the SNMP user on FortiMail.	
query-status {enable disable}	Enable to allow SNMP v3 query from the SNMP managers. Also configure the query port as described below.	disable
query-port <port_number>	Specify the port number used to listen to queries from the SNMP manager.	161
security-level {authnopriv authpriv noauthnopriv}	<p>Choose one of the three security levels for the communication between FortiMail and the SNMP manager.</p> <ul style="list-style-type: none"> noauthnopriv (no authentication, no privacy): This option is similar to SNMP v1 and v2. authnopriv (authentication, no privacy): This option enables authentication only. The SNMP manager needs to supply a password that matches the password you specify on FortiMail. You must also specify the authentication protocol (either SHA1 or MD5). authpriv (authentication, privacy): This option enables both authentication and encryption. You must specify the protocols and passwords. Both the protocols and passwords on the SNMP manager and FortiMail must match. 	
auth-proto {sha1 md5}	Specify the authentication protocol if you choose authentication for the security level. Otherwise, this option is not displayed.	
aut-pwd <password>	Specify the authentication password if you choose authentication for the security level. Otherwise, this option is not displayed.	
status {enable disable}	Enable or disable the SNMP v3 user on FortiMail.	disable
trap-status {enable disable}	Enable to activate traps on FortiMail.	disable
trapevent {cpu deferred-queue ha ip-change logdisk mem raid remote-storage spam system virus}	<p>Enter one or more of the following events that will generate a trap when the event occurs or when its threshold is reached:</p> <ul style="list-style-type: none"> cpu: CPU usage threshold deferred-queue: Deferred queue threshold ha: High availability (HA) event 	cpu deferred-queue ha

Variable	Description	Default
	<ul style="list-style-type: none"> <code>ip-change</code>: Interface IP address change <code>logdisk</code>: Log disk space low threshold <code>maildisk</code>: Mail disk space low threshold <code>mem</code>: Memory low threshold <code>raid</code>: RAID event <code>remote-storage</code>: NAS storage related events <code>spam</code>: Spam threshold <code>system</code>: System events, such as a change in the state of hardware, power failure and so on. <code>virus</code>: Virus threshold <p>Note: Since FortiMail checks its status in a scheduled interval, not all the events will trigger traps. For example, FortiMail checks its hardware status every 60 seconds. This means that if the power is off for a few seconds but is back on before the next status check, no system event trap will be sent.</p> <p>To set SNMP trap thresholds for the event types that use them, see system snmp threshold on page 288.</p> <p>Events apply only when traps are enabled in .</p>	logdisk maildisk mem raid remote-storage system
<code>trapport-local <port_number></code>	Enter the local port number for sending traps.	162
<code>trapport-remote <port_number></code>	Enter the remote port number that listens to SNMP traps on the SNMP manager.	162
<code><host_no></code>	Enter an index number for the SNMP manager.	
<code>ip <class_ip></code>	Enter the IP address of the SNMP manager.	

Related topics

[system snmp community on page 287](#)

[system snmp sysinfo on page 288](#)

system time manual

Use this command to manually configure the system time of the FortiMail unit.

Accurate system time is required by many features of the FortiMail unit, including but not limited to log messages and SSL-secured connections.

This command applies only if NTP is disabled. Alternatively, you can configure the FortiMail unit to synchronize its system time with an NTP server. For details, see [system time ntp on page 292](#).

Syntax

```
config system time manual
  set daylight-saving-time {disable | enable} on page 292
  set zone <zone_int> on page 292
end
```

Variable	Description	Default
daylight-saving-time {disable enable}	Enable to automatically adjust the system time for daylight savings time (DST).	enable
zone <zone_int>	Enter the number that indicates the time zone in which the FortiMail unit is located.	12

Related topics

[system time ntp on page 292](#)

system time ntp

Use this command to configure the FortiMail unit to synchronize its system time with a network time protocol (NTP) server.

Accurate system time is required by many features of the FortiMail unit, including but not limited to log messages and SSL-secured connections.

Alternatively, you can manually configure the system time of the FortiMail unit. For details, see [system time manual on page 291](#).

Syntax

```
config system time ntp
  set ntpserver {<address_ipv4> | <fqdn_str>} on page 293
  set ntpsync {enable | disable} on page 293
  set syncinterval <interval_int> on page 293
end
```

Variable	Description	Default
ntpserver {<address_ipv4> <fqdn_str>}	Enter either the IP address or fully qualified domain name (FQDN) of an NTP server. You can add a maximum of 10 NTP servers. The FortiMail unit uses the first NTP server based on the selection mechanism of the NTP protocol. To locate a public NTP server, visit http://www.ntp.org/ .	pool.ntp.org
ntpsync {enable disable}	Enable to synchronize the FortiMail unit with an NTP server, instead of manually configuring the system time.	enable
syncinterval <interval_int>	Enter the interval in minutes between synchronizations of the system time with the NTP server. The valid range is from 1 to 1440 minutes.	60

Related topics

[system time manual on page 291](#)

system wccp settings

FortiMail and FortiGate support Web Cache Communication Protocol (WCCP) to redirect SMTP traffic from FortiGate to FortiMail. If the FortiGate unit is configured to redirect SMTP traffic to FortiMail for antispam scanning (for details, see the FortiGate documentation), on the FortiMail side, you must do corresponding configurations to accept the SMTP traffic from FortiGate.

Syntax

```
config system wccp settings
  set authentication on page 293
  set id on page 293
  set local-ip on page 293
  set password on page 293
  set remote-ip on page 293
  set status on page 294
end
```

Variable	Description	Default
authentication	Enable or disable authentication.	No default.
id	Enter the ID of the tunnel.	No default.
local-ip	Enter the ip address of the local interface.	No default.
password	Enter the authentication password.	No default.
remote-ip	Enter the ip address of the remote server.	No default.

Variable	Description	Default
status	Enable or disable WCCP mode.	
file_name <file_str>	Enter the name of the language resource file, such as 'custom_french1'.	No default.

system webmail-language

Use this command to create or rename a webmail language.

When you create a webmail language, it is initialized using by copying the English language file. For example, the location in webmail whose resource ID is `mail_box` contains the value `Mail Box`. To finish creation of your webmail language, you must replace the English values with your translation or customized term by either:

- editing the resource values for each resource ID in the web-based manager
- downloading, editing, then uploading the language resource file

For information on how to edit a webmail language, see the [FortiMail Administration Guide](#).

Syntax

```
config system webmail-language
    edit en_name <language-name-en_str> on page 294
        set name <language-name_str> on page 294
    end
```

Variable	Description	Default
en_name <language-name-en_str>	Enter the name of the language in English, such as 'French'. Available languages vary by whether or not you have installed additional language resource files.	No default.
name <language-name_str>	Enter the name of the language, such as 'Français'.	No default.
file_name <file_str>	Enter the name of the language resource file, such as 'custom_french1'.	No default.

Related topics

[config user mail on page 106](#)

user alias

Use this command to configure email address aliases.

Aliases are sometimes also called distribution lists, and may translate one email address to the email addresses of several recipients, also called members, or may be simply a literal alias — that is, an alternative email address that resolves to the real email address of a single email user.

For example, `groupa@example.com` might be an alias that the FortiMail unit will expand to `user1@example.com` and `user2@example.com`, having the effect of distributing an email message to all email addresses that are members of that alias, while `john.smith@example.com` might be an alias that the FortiMail unit translates to `j.smith@example.com`. In both cases, the FortiMail unit converts the alias in the recipient fields of incoming email messages into the member email addresses of the alias, each of which are the email address of an email user that is locally deliverable on the SMTP server or FortiMail unit.

Resolving aliases to real email addresses enables the FortiMail unit to send a single spam report and maintain a single quarantine mailbox at each user's primary email account, rather than sending separate spam reports and maintaining separate quarantine mailboxes for each alias email address. For FortiMail units operating in server mode, this means that users need only log in to their primary account in order to manage their spam quarantine, rather than logging in to each alias account individually.

Alternatively, you can configure an LDAP profile in which the alias query is enabled. For details, see [profile ldap on page 190](#).

Syntax

```
config user alias
    edit name <email-alias_str> on page 295
        set member <recipient_str> on page 295
    end
```

Variable	Description	Default
name <email-alias_str>	Enter the email address that is the alias, such as <code>alias1@example.com</code> .	No default.
member <recipient_str>	Enter a recipient email addresses to which the alias will translate or expand. The email addresses may be members of either mail domains that are protected by the FortiMail unit, members of mail domains that are unprotected, or a mixture of the two. Separate each email address with a space, and enclose the list in single quotes (').	No default.
add_member '<recipient_str>'	Enter one or more recipient email addresses to add them to the existing list of alias members. Separate each email address with a space, and enclose the list in single quotes (').	No default.

Related topics

[user map on page 296](#)

[user pki on page 299](#)

user map

Use this command to configure email address mappings.

Address mappings are bidirectional, one-to-one or many-to-many mappings. They can be useful when:

- you want to hide a protected domain's true email addresses from recipients
- a mail domain's domain name is not globally DNS-resolvable, and you want to replace the domain name with one that is
- you want to rewrite email addresses

Like aliases, address mappings translate email addresses. They do not translate many email addresses into a single email address.

Mappings cannot translate one email address into many.

Mappings cannot translate an email address into one that belongs to an unprotected domain. (This restriction applies to locally defined address mappings only. This is not enforced for mappings defined on an LDAP server.)

Mappings are applied bidirectionally, when an email is outgoing as well as when it is incoming to the protected domain.

Mappings may affect both sender and recipient email addresses, and may affect those email addresses in both the message envelope and the message header, depending on the match condition.

The following table illustrates the sequence in which parts of each email are compared with address mappings for a match, and which locations' email addresses are translated if a match is found.



Both `RCPT TO:` and `MAIL FROM:` email addresses are always evaluated for a match with an address mapping. If both `RCPT TO:` and `MAIL FROM:` contain email addresses that match the mapping, both mapping translations will be performed.

Match evaluation and rewrite behavior for email address mappings:

Order of evaluation	Match condition	If yes...	Rewrite to...
1	Does <code>RCPT TO:</code> match an external email address?	Replace <code>RCPT TO:</code> .	Internal email address
2	Does <code>MAIL FROM:</code> match an internal email address?	For each of the following, if it matches an internal email address, replace it: <code>MAIL FROM:</code> <code>RCPT TO:</code> <code>From:</code> <code>To:</code> <code>Return-Path:</code> <code>Cc:</code> <code>Reply-To:</code> <code>Return-Receipt-To:</code> <code>Resent-From:</code>	External email address

Order of evaluation	Match condition	If yes...	Rewrite to...
		Resent-Sender:	
		Delivery-Receipt-To:	
		Disposition-Notification-To:	

For example, you could create an address mapping between the internal email address `user1@marketing.example.net` and the external email address `sales@example.com`. The following effects would be observable on the simplest case of an outgoing email and an incoming reply:

For email from `user1@marketing.example.net` to others: `user1@marketing.example.net` in both the message envelope (`MAIL FROM:`) and many message headers (`From:`, etc.) would then be replaced with `sales@example.com`. Recipients would only be aware of the email address `sales@example.com`.

For email to `sales@example.com` from others: The recipient address in the message envelope (`RCPT TO:`), but **not** the message header (`To:`), would be replaced with `user1@marketing.example.net`. `user1@marketing.example.net` would be aware that the sender had originally sent the email to the mapped address, `sales@example.com`.

Alternatively, you can configure an LDAP profile to query for email address mappings. For details, see [profile ldap on page 190](#).

Syntax

```
config user map
    edit encryption-profile <profile_str> on page 138
        set external-name <pattern_str> on page 298
    end
```

Variable	Description	Default
internal-name <pattern_str>	Enter either an email address, such as <code>user1@example.com</code> , or an email address pattern, such as <code>*@example.com</code> , that exists in a protected domain.	No default.

Variable	Description	Default
	<p>This email address will be rewritten into <code>external-name <pattern_str></code> on page 298 according to the match conditions and effects described in Match evaluation and rewrite behavior for email address mappings: on page 296.</p> <p>Note: If you enter a pattern with a wild card (* or ?):</p> <p>You must enter a pattern using the same wild card in <code>external-name <pattern_str></code> on page 298. The wild card indicates that the mapping could match many email addresses, but also indicates, during the rewrite, which substring of the original email address will be substituted into the position of the wild card in the external address. If there is no wild card in the other half of the mapping, or the wild card is not the same (that is, * mapped to ? or vice versa), this substitution will fail.</p> <p><code>external-name <pattern_str></code> on page 298 must not be within the same protected domain. This could cause situations where an email address is rewritten twice, by matching both the sender and recipient rewrite conditions, and the result is therefore the same as the original email address and possibly not deliverable.</p>	
<code>external-name <pattern_str></code>	<p>Enter either an email address, such as <code>user2@example.com</code>, or an email address pattern, such as <code>*@example.net</code>, that exists in a protected domain.</p> <p>This email address will be rewritten into <code>encryption-profile <profile_str></code> on page 138 according to the match conditions and effects described in Match evaluation and rewrite behavior for email address mappings: on page 296.</p> <p>Note: If you enter a pattern with a wild card (* or ?):</p> <p>You must enter a pattern using the same wild card in <code>encryption-profile <profile_str></code> on page 138. The wild card indicates that the mapping could match many email addresses, but also indicates, during the rewrite, which substring of the original email address will be substituted into the position of the wild card in the internal address. If there is no wild card in the other half of the mapping, or the wild card is not the same (that is, * mapped to ? or vice versa), this substitution will fail.</p> <p><code>encryption-profile <profile_str></code> on page 138 must not be within the same protected domain. This could cause situations where an email address is rewritten twice, by matching both the sender and recipient rewrite conditions, and the result is therefore the same as the original email address and possibly not deliverable.</p>	No default.

Related topics

[system wccp settings on page 293](#)

user pki

Use this command to configure public key infrastructure (PKI) users.

A PKI user can be either an email user or a FortiMail administrator. PKI users can authenticate by presenting a valid client certificate, rather than by entering a user name and password.

When the PKI user connects to the FortiMail unit with his or her web browser, the web browser presents the PKI user's certificate to the FortiMail unit. If the certificate is valid, the FortiMail unit then authenticates the PKI user. To be valid, a client certificate must:

- Not be expired
- Not be revoked by either certificate revocation list (CRL) or, if enabled, online certificate status protocol (OCSP)
- Be signed by a certificate authority (CA), whose certificate you have imported into the FortiMail unit
- Contain a "ca" field whose value matches the CA certificate
- Contain a "issuer" field whose value matches the "subject" field in the CA certificate
- Contain a "subject" field whose value contains the subject, or is empty
- If `ldap-query` is `enable`, contain a common name (CN) or Subject Alternative field whose value matches the email address of a user object retrieved using the user query of the LDAP profile

If the client certificate is **not** valid, depending on whether you have configured the FortiMail unit to require valid certificates (see [certificate-required {yes | no} on page 103](#) in [config policy recipient on page 102](#) for email users, and [pki-certificate-req {yes | no} on page 255](#) in [system geoip-override on page 253](#) for FortiMail administrators), authentication will either fail absolutely, or fail over to a user name and password mode of authentication.

If the certificate is valid and authentication succeeds, the PKI user's web browser is redirected to either the web-based manager (for PKI users that are FortiMail administrators) or the mailbox folder that contains quarantined spam (for PKI users that are email users).

After using this command to configure a PKI user, you must also configure the following aspects of the FortiMail unit and the PKI user's computer:

- Import each PKI user's client certificate into the web browser of each computer from which the PKI user will access the FortiMail unit. For details on installing certificates, see the documentation for your web browser.



Control access to each PKI user's computer. Certificate-based PKI authentication controls access to the FortiMail unit based upon PKI certificates, which are installed on each email user or administrator's computer. If anyone can access the computers where those PKI certificates are installed, they can gain access to the FortiMail unit, which can compromise the security of your FortiMail unit.

-
- Import the CA certificate into the FortiMail unit. For information on uploading a CA certificate, see the [FortiMail Administration Guide](#). For more information, see "CA certificate".
 - For PKI users that are FortiMail administrators, select the PKI authentication type and select a PKI user to which the administrator account corresponds. For more information, see [system admin on page 229](#).

- For PKI users that are email users, enable PKI user authentication for the recipient-based policies which match those email users.

This command takes effect only if PKI authentication is enabled by `pki-mode {enable | disable}` on page 255 in the command `system geoip-override` on page 253.

Syntax

```
config user pki
edit name <name_str> on page 300
    set ca <certificate_str> on page 300
    set domain <protected-domain_str> on page 300
    set ldap-field {cn | subjectalternative} on page 300
    set ldap-profile <profile_str> on page 301
    set ldap-query {enable | disable} on page 301
    set ocsp-ca <remote-certificate_str> on page 301
    set ocsp-check {enable | disable} on page 301
    set ocsp-unavailable-action {revoke | ignore} on page 301
    set ocsp-url <url_str> on page 301
    set subject <subject_str> on page 302
end
```

Variable	Description	Default
name <name_str>	Enter the name of the PKI user.	
ca <certificate_str>	Enter the name of the CA certificate used when verifying the CA's signature of the client certificate. For information on uploading a CA certificate, see the FortiMail Administration Guide . For more information, see "CA certificate". If you configure an empty string for this variable, you must configure <code>subject <subject_str></code> on page 302.	
domain <protected-domain_str>	Enter the name of the protected domain to which the PKI user is assigned, or enter <code>system</code> if the PKI user is a FortiMail administrator and belongs to all domains configured on the FortiMail unit. For more information on protected domains, see dlp scan-rules on page 87.	
ldap-field {cn subjectalternative}	Enter the name of the field in the client certificate (either CN or Subject Alternative) which contains the email address of the PKI user, either <code>subjectalternative</code> (if the field is a Subject Alternative) or <code>cn</code> (if the field is a common name). This email address will be compared with the value of the email address attribute for each user object queried from the LDAP directory to determine if the PKI user exists in the LDAP directory. This variable is used only if <code>ldap-query</code> is <code>enable</code> .	subject

Variable	Description	Default
ldap-profile <profile_str>	Enter the LDAP profile to use when querying the LDAP server for the PKI user's existence. For more information on LDAP profiles, see profile ldap on page 190 . This variable is used only if <code>ldap-query</code> is enable.	
ldap-query {enable disable}	Enable to query an LDAP directory, such as Microsoft Active Directory, to determine the existence of the PKI user who is attempting to authenticate. Also configure <code>ldap-profile <profile_str></code> on page 301 and <code>ldap-field {cn subjectalternative}</code> on page 300.	disable
ocsp-ca <remote-certificate_str>	Enter the name of the remote certificate that is used to verify the identity of the OCSP server. For information on uploading a remote (OCSP) certificate, see the FortiMail Administration Guide . For more information, see "Remote". This option applies only if <code>ocspverify</code> is enable.	
ocsp-check {enable disable}	Enable to use an Online Certificate Status Protocol (OCSP) server to query whether the client certificate has been revoked. Also configure <code>ocsp-url <url_str></code> on page 301, <code>[ocsp-ca <remote-certificate_str></code> on page 301, and <code>ocsp-unavailable-action {revoke ignore}</code> on page 301.	disable
ocsp-unavailable-action {revoke ignore}	Enter the action to take if the OCSP server is unavailable. If set to ignore, the FortiMail unit allows the user to authenticate. If set to revoke, the FortiMail unit behaves as if the certificate is currently revoked, and authentication fails. This option applies only if <code>ocsp-check</code> is enable.	ignore
ocsp-url <url_str>	Enter the URL of the OCSP server. This option applies only if <code>ocsp-check</code> is enable.	

Variable	Description	Default
subject <subject_str>	<p>Enter the value which must match the "subject" field of the client certificate. If empty, matching values are not considered when validating the client certificate presented by the PKI user's web browser.</p> <p>The FortiMail unit will use a CA certificate to authenticate a PKI user only if the subject string you enter here also appears in the CA certificate subject. If no subject is entered here, the subject not considered when the FortiMail unit selects the certificate to use.</p> <p>To disable Subject verification, enter an empty string surrounded by single quotes (' ').</p> <p>If you configure an empty string for this variable, you must configure <code>ca <certificate_str></code> on page 300.</p>	

Related topics

[system wccp settings on page 293](#)

[user map on page 296](#)

execute

`execute` commands perform immediate operations on the FortiMail unit.

This chapter describes the following `execute` commands:

backup on page 303	maintain on page 322
backup-restore on page 305	nslookup on page 323
certificate on page 306	partitionlogdisk on page 325
checklogdisk on page 308	ping on page 326
checkmaildisk on page 308	ping-option on page 327
cleanqueue on page 309	ping6 on page 329
create on page 309	ping6-option on page 329
date on page 311	raid on page 330
db on page 312	reboot on page 331
dlp on page 313	reload on page 332
endpoint on page 313	restore as on page 333
erase filesystem on page 313	restore av on page 333
factoryreset	restore config on page 334
factoryreset config	restore image on page 335
factoryreset disk on page 315	restore mail-queues on page 336
factoryreset keeplicense	sched-backup on page 337
factoryreset shutdown	shutdown on page 337
fips on page 316	smtpstest on page 338
formatlogdisk on page 317	ssh on page 339
formatmaildisk on page 318	storage on page 339
formatmaildisk_backup on page 319	telnettest on page 340
forticloud on page 319	traceroute on page 340
ha commands on page 320	update on page 342
ibe data on page 321	user-config on page 342
ibe user on page 321	7vm on page 343
license on page 320	
lvm on page 322	

backup

Use this command to back up the configuration file to either a TFTP server or FortiManager (management-station).



This command does **not** produce a complete backup. For information on how to back up other configuration files such as Bayesian databases, see the [FortiMail Administration Guide](#).

Syntax

```
execute backup {config | full-config | ibe-data | mail-queue | user-config} on page
304
{tftp <filename_str> on page 304 <tftp_ipv4> on page 304 [<password_str>] on page
304 | management-station [<comments_str>] on page 304}
```

Variable	Description	Default
{config full-config ibe-data mail-queue user-config}	Type either: <ul style="list-style-type: none"> config: Back up configuration changes only. The default settings will not be backed up. full-config: Back up the entire configuration file (no default settings either), including the IBE data and user config. ibe-data: Back up the IBE data. mail-queue: Back up the mail queues. user-config: Back up the user-specific configurations, such as user preferences, personal black/white lists, and secondary addresses. Before backing up, you should update the user configuration file. To update the configurations, see user-config on page 342. 	No default.
<filename_str>	Type the file name that will be used for the backup file, such as FortiMail_backup.txt.	No default.
<tftp_ipv4>	Type the IP address of the TFTP server.	No default.
[<password_str>]	Type a password that will be used to encrypt the backup file, and which must be provided when restoring the backup file. If you do not provide a password, the backup file is stored as clear text.	No default.
[<comments_str>]	If you are adding a comment, do not add spaces, underscore characters (_), or quotation marks (") or any other punctuation marks.	No default.

Example

This example uploads a password-encrypted partial configuration backup to a TFTP server.

```
execute backup full-config tftp fortimail_backup.cfg 172.16.1. 1 P@ssword1
No user configuration available!
Do you want to continue? (y/n)y
No IBE data available!
Do you want to continue? (y/n)y
```



```

System time: Tue Sep 27 13:07:43 2011
Backup with current user defined configuration and ibe data. Do you want to continue? (y/n)y
Connect to tftp server 172.16.1.1 ...
Please wait...

```

Related topics

[restore config on page 334](#)

[user-config on page 342](#)

backup-restore

Use this command to back up or restore email users' mailboxes. Before using this command, you must specify the backup destination or the restore location first. For details, see [system backup-restore-mail on page 232](#).

Syntax

```

execute backup-restore all-restore on page 305
execute backup-restore check-device on page 305
execute backup-restore format-device on page 305
execute backup-restore old-restore <full\_int> <increments\_int> domain <domain\_str>
    user <user\_str> on page 305
execute backup-restore restore {domain <domain> user <user> | host <host>} on page 306
execute backup-restore start on page 306
execute backup-restore stop on page 306

```

Variable	Description	Default
all-restore	Use this command to restore mail data without deleting previous full restore while restoring incremental backup.	
check-device	Performs file system check on the backup device.	
format-device	Format the backup device as a preparation step before backup.	
old-restore <full_int> <increments_int> domain <domain_str> user <user_str>	<p><full_int> is the full backup version you specify when you configure the backup settings.</p> <p><increments_int> is the number of incremental backups to make between each full backup.</p> <p><domain_str>: optionally specify which domain's mailbox will be restored.</p> <p><user_str>: optionally specify which user's mailbox will be restored.</p> <p>For details, see system backup-restore-mail on page 232.</p>	

Variable	Description	Default
restore {domain <domain> user <user> host <host>}	<p>Restores mailboxes, or optionally, for the specified domain or user.</p> <p>If you want to restore mailboxes from backups identified by another FQDN, such as a previous FQDN or the FQDN of another FortiMail unit, specify the <host>, which is the FQDN.</p> <p>Usually, you should enter an FQDN of this FortiMail unit, but you may enter only the host name if the local domain name is not configured, or enter the FQDN of another FortiMail unit if you want to import that FortiMail unit's mailbox backup.</p> <p>For example, you may be upgrading to a FortiMail-2000 from a FortiMail-400. Previously, you have used a USB disk to store a backup of the mailboxes of the FortiMail-400, whose fully qualified domain name (FQDN) was fortimail.example.com. You have then configured the FortiMail-2000 to also use the USB disk as its backup media. You could then import the FortiMail-400's mailbox backup to the FortiMail-2000 by entering <code>fortimail.example.com</code> in this field on the FortiMail-2000's web UI.</p>	
start	Initiate an immediate backup. Note that all data on the backup device will be erased.	
stop	Stops any currently running backups.	

Related topics

[restore config on page 334](#)

[backup on page 303](#)

certificate

Use this command to upload and download certificates, and to generate certificate signing requests (CSR).

Syntax

```
execute certificate ca import tftp <file_name> <tftp_ip> on page 307
execute certificate ca export tftp <cert_name> <file_name> <tftp_ip> on page 307
execute certificate config verify on page 307
execute certificate crl import tftp <file_name> <tftp_ip> on page 307
execute certificate local export tftp <cert_name> <file_name> <tftp_ip> on page 307
execute certificate local generate <cert_name> <key_size> <subject> <country> <state>
    <organization> <unit> <email> on page 307
```

```

execute certificate local import tftp <file_name> <tftp_ip> on page 307
execute certificate remote import tftp <file_name> <tftp_ip> on page 308
execute certificate remote export tftp <cert_name> <file_name> <tftp_ip> on page 308

```

Variable	Description	Default
ca import tftp <file_name> <tftp_ip>	Imports the certificate authority (CA) certificate from a TFTP server. Certificate authorities validate and sign other certificates in order to indicate to third parties that those other certificates may be trusted to be authentic.	
ca export tftp <cert_name> <file_name> <tftp_ip>	Exports the CA certificate to a TFTP server.	
config verify	Since FortiMail stores configuration information of CA certificates and local certificates in the configuration file and stores the certificates themselves in the file system, in some circumstances (such as a firmware upgrade or an abnormal system shutdown), the certificate configuration and the certificate may be out of sync. Use this command to synchronize the certificate configuration in the configuration file with the certificate in the file system.	
crl import tftp <file_name> <tftp_ip>	Imports the Certificate Revocation List . To ensure that your FortiMail unit validates only certificates that have not been revoked, you should periodically upload a current certificate revocation list, which may be provided by certificate authorities (CA). Alternatively, you can use online certificate status protocol (OCSP) to query for certificate statuses.	
local export tftp <cert_name> <file_name> <tftp_ip>	Exports a certificate signing request or a local certificate to a TFTP server. Note that this command does not support exporting a certificate in PKCS#12 format. To do this, you must go to the web UI.	
local generate <cert_name> <key_size> <subject> <country> <state> <organization> <unit> <email>	Enter the information required to generate a certificate signing request. Certificate signing request files can then be submitted for verification and signing by a certificate authority (CA).	
local import tftp <file_name> <tftp_ip>	Imports a local certificate from a TFTP server. Note that this command does not support importing a certificate that is in PKCS#12 format. To do this, you must go to the web UI. FortiMail units require a local server certificate that it can present when clients request secure connections, including: <ul style="list-style-type: none"> the web UI (HTTPS connections only) webmail (HTTPS connections only) secure email, such as SMTPS, IMAPS, and POP3S 	

Variable	Description	Default
remote import tftp <file_name> <tftp_ip>	Imports the certificate of the online certificate status protocol (OCSP) servers of your certificate authority (CA). OCSP enables you to revoke or validate certificates by query, rather than by importing certificate revocation lists (CRL).	
remote export tftp <cert_name> <file_name> <tftp_ip>	Exports the OCSP certificate to a TFTP server.	

Related topics

[profile certificate-binding on page 170](#)

checklogdisk

Use this command to find and correct errors on the log disk.



Use this command only when recommended by Fortinet Technical Support. Logging is suspended while this command is executing.

Syntax

```
execute checklogdisk
```

Related topics

[checkmaildisk on page 308](#)

checkmaildisk

Use this command to find and correct errors on the mail disk. Actions are displayed at the command prompt. If the command cannot fix an error automatically, it displays a list of manual correction options from which you must select.



Use this command only when recommended by Fortinet Technical Support. Email-related functions are suspended while this command is executing.

Syntax

```
execute checkmaildisk
```

Related topics

[checklogdisk on page 308](#)

cleanqueue

Select to remove all messages from the deferred queue.

Syntax

```
execute cleanqueue
```

Related topics

[maintain on page 322](#)

create

This is a hidden command. Use this command to create various system-wide, domain-wide, and user-wide antis spam settings, such as black/white lists and custom messages.

Syntax

```
execute create blacklist <domain> <blacklist_content> on page 310
execute create custom-message <domain> <message_content> on page 310
execute create dkim-signing-key on page 310
execute create ibe-system-key <content> on page 310
execute create resource-share on page 310
execute create system-blacklist <content> on page 310
execute create system-custom-message <contents> on page 310
execute create system-whitelist <content> on page 310
execute create system-favicon on page 310
execute create user-auto-forward <email_addr> <content> on page 310
execute create user-auto-reply <email_addr> <content> on page 310
execute create user-blacklist <email_addr> <content> on page 310
execute create user-calendar-tag <email_addr> <content> on page 310
execute create user-calendar-b64 on page 310
execute create user-email-tag <email_addr> <content> on page 310
execute create user-filter-custom on page 310
```

```

execute create user-filter-master on page 310
execute create user-filter-sieve on page 311
execute create user-preference <user_name> <content> on page 311
execute create user-primaryaddr <user_name> <content> on page 311
execute create user-secondaryaddr <user_name> <content> on page 311
execute create user-signature <user_name> <content> on page 311
execute create user-whitelist <user_name> <content> on page 311
execute create whitelist <domain> <content> on page 311

```

Variable	Description	Default
blacklist <domain> <blacklist_content>	Creates domain-wide blacklists. For information about valid formats of the black and white lists, see the FortiMail Administration Guide .	
custom-message <domain> <message_content>	Creates domain-wide custom messages.	
dkim-signing-key	Creates DomainKeys Identified Mail (DKIM) signing key.	
resource-share	Creates a resource share.	
ibe-system-key <content>	Creates IBE system key.	
system-blacklist <content>	Creates system-wide blacklists.	
system-custom-message <contents>	Creates system-wide custom messages.	
system-whitelist <content>	Creates system-wide white lists.	
system-favicon	Creates a system use icon file.	
user-auto-forward <email_addr> <content>	Creates an auto forward message for a user.	
user-auto-reply <email_addr> <content>	Creates an auto reply message for a user.	
user-blacklist <email_addr> <content>	Creates blacklists for a specific user.	
user-calendar-tag <email_addr> <content>	Creates a user calendar tag.	
user-calendar-b64	Creates a calendar base64 encoded.	
user-email-tag <email_addr> <content>	Creates a user email tag.	
user-filter-custom	Creates a user message filter custom file.	
user-filter-master	Creates a user message filter master file.	

Variable	Description	Default
user-filter-sieve	Creates a user message filter sieve file.	
user-preference <user_name> <content>	Configures the user preference settings. For details, see the User chapter in the FortiMail Administration Guide .	
user-primaryaddr <user_name> <content>	Configures the primary email account for the user.	
user-secondaryaddr <user_name> <content>	Configures the secondary email account for the user.	
user-signature <user_name> <content>	Configures the email signature for the user.	
user-whitelist <user_name> <content>	Creates personal whitelists.	
whitelist <domain> <content>	Creates domain-wide whitelists.	

Related topics

[backup on page 303](#)

date

Use this command to set the system date.

Syntax

```
execute date <date_str> on page 311
```

Variable	Description	Default
<date_str>	Enter the system date in the format of mm/dd/yyyy.	

Related topics

[system time manual on page 291](#)

[system time ntp on page 292](#)

db

Use this command to repair, rebuild, or reset the following FortiMail databases:

- Address book
- Bayesian database
- Certificate database
- Customized messages
- Dictionaries
- DKIM key database
- Email migration database
- End point database
- End point sender reputation database
- Greylist database
- Greylist exempt database
- IBE database
- Sender reputation database
- User alias database
- User address mapping database

Syntax

```
execute db dump on page 312
execute db force-recover on page 312
execute db info on page 312
execute db rebuild on page 312
execute db reset <database> on page 312
execute db restore on page 312
execute db transfer
```

Variable	Description	Default
dump	Dumps one database file for troubleshooting.	
force-recover	Try to repair all of the databases using force recovery.	
info	Provides database information.	
rebuild	Clean and rebuild all of the databases.	
reset <database>	Clean and rebuild one of the FortiMail databases. <database> is one of the above-listed databases.	
restore	Restores one database.	
transfer	Transfer last dumped db file to a remote server via FTP, SCP, or TFTP. Use the following format: execute db transfer {ftp-dump scp-dump tftp-dump} <file-name> <server-ip> <username> <password>	

Related topics

[maintain on page 322](#)

dlp

Use this command to refresh the DLP fingerprints from the fingerprint server.

Syntax

```
execute dlp refresh <source_name> on page 313
```

Variable	Description	Default
<source_name>	Enter the source server address or host name.	

endpoint

Use this command to configure carrier endpoint devices. A carrier end point is any device on the periphery of a carrier's or internet service provider's (ISP) network. It could be, for example, a subscriber's GSM cellular phone, wireless PDA, or computer using DSL service.

Syntax

```
execute endpoint count on page 313
execute endpoint data backup tftp <ip_address> on page 313
execute endpoint delete <ip_address> on page 313
```

Variable	Description	Default
count	Count the total number of endpoint devices in the end point database.	
data backup tftp <ip_address>	Back up the end point database to the specified TFTP server.	
delete <ip_address>	Remove the IP address of an endpoint device from the end point database.	

erase filesystem

Securely erases a file system by filling with random data three times.

Syntax

```
execute erase-filesystem
```

Variable	Description	Default
erase-filesystem		

factoryreset

Use this command to reset the FortiMail unit to its default settings for the currently installed firmware version. If you have not upgraded or downgraded the firmware, this restores factory default settings

This command also erases all the log files and mail data on the hard drive.



Back up your configuration and mail data before entering this command. This procedure resets all changes that you have made to the FortiMail unit's configuration file and reverts the system to the default values for the firmware version, including factory default settings for the IP addresses of network interfaces. For information on creating a backup, see the [FortiMail Administration Guide](#).

Syntax

```
execute factoryreset
```

Example

The following example resets the FortiMail unit to default settings for the currently installed firmware version.

```
execute factoryreset
```

The CLI displays the following:

```
This operation will change all settings to  
factory default! Do you want to continue? (y/n)
```

After you enter `y` (yes), the CLI displays the following and logs you out of the CLI:

```
System is resetting to factory default...
```

Related topics

[restore config on page 334](#)

[backup on page 303](#)

factoryreset config

Use this command to reset the system configuration to default settings.

Syntax

```
execute factoryreset config
```

Related topics

[backup](#)

factoryreset disk

Use this command to reset the RAID level and partition disk to default settings.

Syntax

```
execute factoryreset disk
```

Related topics

[backup on page 303](#)

factoryreset keeplicense

Use this command to reset the FortiMail VM configuration to its factory default settings, but keep the VM license file.

Syntax

```
execute factoryreset keeplicense
```

Related topics

[backup](#)

factoryreset shutdown

Use this command to reset the FortiMail unit's configuration and disk partition to its factory default settings and then shutdown the system.

Syntax

```
execute factoryreset shutdown
```

Related topics

[backup](#)

fips

Use this command to enable Federal Information Processing Standards-Common Criteria (FIPS-CC) mode.

This enhanced security mode is required by some organizations, but may not be appropriate for others. It is valid only if you have installed a FIPS-certified firmware build. For more information on FIPS, or to obtain a certified build, contact [Fortinet Technical Support](#).

When switching to FIPS mode, you will be prompted to confirm, and must log in again.

To disable FIPS mode, restore the firmware default configuration using [factoryreset on page 314](#).



Back up the configuration before enabling FIPS mode. When you enable or disable FIPS-CC mode, all of the existing configuration is lost. For more information on making a complete backup, see the [FortiMail Administration Guide](#).

Syntax

```
execute fips kat {3des | aes | configuration-test | integrity-test | rng | rsa |  
sha1-hmac | all} on page 316
```

Variable	Description	Default
{3des aes configuration-test integrity-test rng rsa sha1-hmac all}	3des: Triple-DES known answer test. aes: AES known answer test configuration-test: Configuration bypass test. integrity-test: Firmware integrity test. rng: RNG known answer test. rsa: RSA known answer test. sha1-hmac: SHA1-HMAC known answer test.	

Variable	Description	Default
	all: All known answer tests.	

Related topics

[restore image on page 335](#)

formatlogdisk

Use this command to reformat the local hard disk that contains log data.



Regularly format the hard disk to improve performance.



Back up all data on the disk before entering this command. Formatting hard disks deletes all files on that disk.

Syntax

```
execute formatlogdisk
```

Example

The following example formats the log disk.

```
execute formatlogdisk
```

The CLI displays the following:

```
This operation will erase all data on the log disk!  
Do you want to continue? (y/n)
```

After you enter `y` (yes), the CLI displays the following and logs you out of the CLI:

```
formatting disk, Please wait a few seconds!
```

Related topics

[partitionlogdisk on page 325](#)

[formatmaildisk on page 318](#)

[formatmaildisk_backup on page 319](#)

formatmaildisk

Use this command to reformat the local hard disk that contains email data, **without** first performing a backup.

You can alternatively perform a backup before formatting the mail disk. For details, see [formatmaildisk_backup on page 319](#).



Regularly format the hard disk to improve performance.



Back up all data on the disk before entering this command. Formatting hard disks deletes all files on that disk.

Syntax

```
execute formatmaildisk
```

Example

The following example formats the log disk.

```
execute formatmaildisk
```

The CLI displays the following:

```
This operation will erase all data on the mail disk!  
Do you want to continue? (y/n)
```

After you enter `y` (yes), the CLI displays the following and logs you out of the CLI:

```
formatting disk, Please wait a few seconds!
```

Related topics

[formatmaildisk_backup](#) on page 319

[formatlogdisk](#) on page 317

formatmaildisk_backup

Use this command to back up data contained on the mail disk to the log disk, and then format the local mail disk.

You can alternatively format the mail disk without performing a backup. For details, see [formatmaildisk](#) on page 318.



Regularly format the hard disk to improve performance.

Syntax

```
execute formatmaildisk_backup
```

Related topics

[formatmaildisk](#) on page 318

[formatlogdisk](#) on page 317

forticloud

Use this command to manage the FortiCloud account.

Syntax

```
execute forticloud create on page 319
execute forticloud info on page 319
execute forticloud join on page 319
execute forticloud login on page 320
```

Variable	Description	Default
create	Creates a FortiCloud account.	
info	Shows the FortiCloud account info if login in.	
join	Joins an existing FortiCloud account. The device must be added to the account to work.	

Variable	Description	Default
login	Logs the user into the FortiCloud account.	

ha commands

Use this command to help debugging FortiMail HA issues.



Type the full command names (such as `ha commands ...`), instead of the abbreviated names (such as `ha com ...`).

Syntax

```
execute ha commands config-sync-start on page 320  
execute ha commands config-sync-stop on page 320  
execute ha commands failover-start on page 320  
execute ha commands failover-stop on page 320
```

Variable	Description	Default
config-sync-start	Start synchronizing the HA cluster configuration.	
config-sync-stop	Stop the cluster from completing synchronizing its configuration.	
failover-start	Allow HA failover to happen.	
failover-stop	Prevent HA failover from happening.	

Related topics

[cleanqueue on page 309](#)

license

Use this command to manage the central management license.

Syntax

```
execute license central-mgmt import tftp <ip> <file\_name> on page 321  
execute license central-mgmt show on page 321
```


Variable	Description	Default
import tftp <ip> <file_name>		
show	Display the license information.	

ibe data

Use this command to generate and view an IBE data file.

Syntax

```
execute ibe data export-to-file on page 321
execute ibe data get-file-info on page 321
```

Variable	Description	Default
export-to-file	Generate an IBE data file.	
get-file-info	Get current IBE data file information.	

Related topics

[db on page 312](#)

ibe user

Use this command to maintain the expired users.

Syntax

```
execute ibe user purge-mail <user_name> <level> on page 321
execute ibe user clean-expired-user <user_name> <level> on page 321
```

Variable	Description	Default
purge-mail <user_name> <level>	Specify whose mail you want to purge/delete and also specify the verbose level.	
clean-expired-user <user_name> <level>	Specify which user you want to delete and also specify the verbose level.	

Related topics

[db on page 312](#)

lvm

Use this command to control the logical volume manager (LVM) support on the FortiMail-VM platforms.

Since this feature is added in 5.2.0 release, if you're upgrading from older FortiMail-VM releases to 5.2.0 release, LVM is not enabled by default. If you want to enable it, you must be aware that all the mail data and log data will be erased.

Syntax

```
execute lvm disable on page 322
execute lvm enable <percentage> on page 322
execute lvm extend <percentage> on page 322
execute lvm summary on page 322
```

Variable	Description	Default
disable	Stop LVM on the system.	
enable <percentage>	Start LVM on the system. Also specify how much percent of the hard disk space will be allocated to the log disk. The remaining will be assigned to the mail disk. If not specified, the default percentage is 20.	enable (for new install) 20
extend <percentage>	Use this command to add new drives to the system. See above for the usage of percentage.	20
summary	Displays the LVM status and details.	

maintain

Use this command to perform maintenance on mail queues by deleting out-of-date messages.

Syntax

```
execute maintain mailqueue clear age <time_str> on page 322
```

Variable	Description	Default
age <time_str>	Enter an age between 1 hour and 10 years. The FortiMail unit deletes mail messages in the mail queues greater than this age. The age consists of an integer appended to a letter that indicates the unit of time: h (hours), d (days), m (months), or y (years).	24h

Example

This example will clear messages that are 23 days old and older.

```
execute maintain mailqueue clear age 23d
```

The CLI would display the following message:

Clearing messages in mail queues at least 23 days old.

Related topics

[cleanqueue on page 309](#)

nslookup

Use this command to query the DNS server for domain name or IP address mapping or for any other specific DNS record.

Syntax

```
execute nslookup name <fqdn | ip> type <type> class <class> server <dns_server> port
<port_number> on page 323
```

Variable	Description	Default
name <fqdn ip> type <type> class <class> server <dns_server> port <port_number>	<fqdn ip>: enter either an IP address or a fully qualified domain name (FQDN) of a host. <type>: optionally specify the DNS query type: A -- host address AAAA -- IPv6 address ANY -- all cached records CNAME -- canonical name DLV -- DNSSEC lookaside validation DNSKEY -- DNS key DS -- delegation signer MX -- mail exchanger NS -- authoritative name server NSEC -- next SECure NSEC3 -- NSEC3 parameters PTR -- domain name pointer RRSIG -- DNSSEC signature SOS -- start of authority zone SPF -- sender policy framework	A

Variable	Description	Default
	TA -- DNSSEC trust authorities	
	TXT -- text string	
	The default type is A.	
	<class>: optionally specify the DNS class type: either IN or ANY.	ANY
	<dns_server>: optionally specify the DNS server's host name or IP address. If you do not specify the server here, FortiMail will use its local host DNS settings.	53
	<port_number>: optionally specify the port number of the DNS server.	

Example

You could use this command to determine the DNS resolution for the fully qualified domain name mail.example.com

```
execute nslookup name mail.example.com
```

The CLI would display the following:

```
Name: example.com
```

```
Address: 192.168.1.15
```

Similarly, you could use this command to determine the domain name hosted on the IP address 192.168.1.15:

```
execute nslookup name 192.168.1.15 type ptr
```

The CLI would display the following:

```
Address: 192.168.1.15  
Name: mail.example.com
```

You could also use this command to determine the host that is mail exchanger (MX) for the domain example.com:

```
execute nslookup name example.com type mx
```

The CLI would display the following:

```
example.com mail exchanger = 10 mail.example.com.
```

Related topics

[ping on page 326](#)

[traceroute on page 340](#)

[system dns on page 242](#)

partitionlogdisk

Use this command to adjust the size ratio of the hard disk partitions for log and mail data.



Back up all data on the disks before beginning this procedure. Partitioning the hard disks deletes all files on those disks.

Syntax

```
execute partitionlogdisk <logpercentage_str> on page 325
```

Variable	Description	Default
partitionlogdisk <logpercentage_str>	Enter an integer between 10 and 90 to create a partition for log files using that percentage of the total hard disk space. The remaining partition (by default, 75% of the hard disk space) will be used for mail data.	20

Related topics

[formatlogdisk on page 317](#)

ping

Use this command to perform an ICMP ECHO request (also called a ping) to a host by specifying its fully qualified domain name (FQDN) or IP address, using the options configured by [ping-option on page 327](#).

Pings are often used to test connectivity.

Syntax

```
execute ping {<fqdn_str> | <host_ipv4>} on page 326
```

Variable	Description	Default
ping {<fqdn_str> <host_ipv4>}	Enter either the IP address or fully qualified domain name (FQDN) of the host.	

Example

This example pings a host with the IP address 172.16.1.10.

```
execute ping 172.16.1.10
```

The CLI displays the following:

```
PING 172.16.1.10 (172.16.1.10): 56 data bytes
 64 bytes from 172.16.1.10: icmp_seq=0 ttl=128 time=0.5 ms
 64 bytes from 172.16.1.10: icmp_seq=1 ttl=128 time=0.2 ms
 64 bytes from 172.16.1.10: icmp_seq=2 ttl=128 time=0.2 ms
 64 bytes from 172.16.1.10: icmp_seq=3 ttl=128 time=0.2 ms
 64 bytes from 172.16.1.10: icmp_seq=4 ttl=128 time=0.2 ms
--- 172.16.1.10 ping statistics ---
 5 packets transmitted, 5 packets received, 0% packet loss
 round-trip min/avg/max = 0.2/0.2/0.5 ms
```

The results of the ping indicate that a route exists between the FortiWeb unit and 172.16.1.10. It also indicates that during the sample period, there was no packet loss, and the average response time was 0.2 milliseconds (ms).

Example

This example pings a host with the IP address 10.0.0.1.

```
execute ping 10.0.0.1
```

The CLI displays the following:

```
PING 10.0.0.1 (10.0.0.1): 56 data bytes
```

After several seconds, no output has been displayed. The administrator halts the ping by pressing Ctrl + C. The CLI displays the following:

```
--- 10.0.0.1 ping statistics ---
 5 packets transmitted, 0 packets received, 100% packet loss
```

The results of the ping indicate that the host may be down, or that there is no route between the FortiMail unit and 10.0.0.1. To determine the cause, further diagnostic tests are required, such as [traceroute on page 340](#).

Related topics

[ping-option on page 327](#)

[smtpstest on page 338](#)

[telnettest on page 340](#)

[traceroute on page 340](#)

[system dns on page 242](#)

ping-option

Use this command to configure behavior of [ping on page 326](#).

Syntax

```
execute ping-option data-size <bytes_int> on page 327
execute ping-option df-bit {yes | no} on page 327
execute ping-option pattern <bufferpattern_hex> on page 327
execute ping-option repeat-count <repeat_int> on page 328
execute ping-option source {auto | <interface_ipv4>} on page 328
execute ping-option timeout <seconds_int> on page 328
execute ping-option tos {default | lowcost | lowdelay | reliability | throughput} on
    page 328
execute ping-option ttl <hops_int> on page 328
execute ping-option validate-reply {yes | no} on page 328
execute ping-option view-settings on page 328
```

Variable	Description	Default
data-size <bytes_int>	Enter datagram size in bytes. This allows you to send out packets of different sizes for testing the effect of packet size on the connection. If you want to configure the pattern that will be used to buffer small datagrams to reach this size, also configure pattern <bufferpattern_hex> on page 327 .	56
df-bit {yes no}	Enter either <code>yes</code> to set the DF bit in the IP header to prevent the ICMP packet from being fragmented, or enter <code>no</code> to allow the ICMP packet to be fragmented.	no
pattern <bufferpattern_hex>	Enter a hexadecimal pattern, such as <code>00ffaabb</code> , to fill the optional data buffer at the end of the ICMP packet. The size of the buffer is determined by data-size <bytes_int> on page 327 .	

Variable	Description	Default
repeat-count <repeat_int>	Enter the number of times to repeat the ping.	5
source {auto <interface_ip>}	Select the network interface from which the ping is sent. Enter either <code>auto</code> or a mail network interface's IP address.	auto
timeout <seconds_int>	Enter the ping response timeout in seconds.	2
tos {default lowcost lowdelay reliability throughput}	Enter the IP type-of-service option value, either: <ul style="list-style-type: none"> <code>default</code>: Do not indicate. (That is, set the TOS byte to 0.) <code>lowcost</code>: Minimize cost. <code>lowdelay</code>: Minimize delay. <code>reliability</code>: Maximize reliability. <code>throughput</code>: Maximize throughput. 	default
ttl <hops_int>	Enter the time-to-live (TTL) value.	64
validate-reply {yes no}	Select whether or not to validate ping replies.	no
view-settings	Display the current ping option settings.	

Example

This example sets the number of pings to three and the source IP address to that of the port2 network interface, 10.10.10.1, then views the ping options to verify their configuration.

```
execute ping-option repeat-count 3
execute ping-option source 10.10.10.1
execute ping-option view-settings
```

The CLI would display the following:

```
Ping Options:
Repeat Count: 3
Data Size: 56
Timeout: 2
TTL: 64
TOS: 0
DF bit: unset
Source Address: 10.10.10.1
Pattern:
Pattern Size in Bytes: 0
Validate Reply: no
```

Related topics

[ping on page 326](#)

[traceroute on page 340](#)

ping6

Use this command to perform a ping6 request to an IPv6 host by specifying its fully qualified domain name (FQDN) or IP address, using the options configured by [ping6-option on page 329](#).

Pings are often used to test connectivity.

Syntax

```
execute ping6 {<fqdn_str> | <host_ipv4>} on page 329
```

Variable	Description	Default
ping6 {<fqdn_str> <host_ipv4>}	Enter either the IP address or fully qualified domain name (FQDN) of the host.	

Related topics

[ping on page 326](#)

[ping6-option on page 329](#)

ping6-option

Use this command to configure behavior of [ping6 on page 329](#).

Syntax

```
execute ping6-option data-size <bytes_int> on page 330
execute ping6-option pattern <bufferpattern_hex> on page 330
execute ping6-option repeat-count <repeat_int> on page 330
execute ping6-option source {auto | <interface_ipv4>} on page 330
execute ping6-option timeout <seconds_int> on page 330
execute ping6-option tos {default | lowcost | lowdelay | reliability | throughput} on
page 330
execute ping6-option ttl <hops_int> on page 330
execute ping6-option validate-reply {yes | no} on page 330
execute ping6-option view-settings on page 330
```

Variable	Description	Default
data-size <bytes_int>	Enter datagram size in bytes. This allows you to send out packets of different sizes for testing the effect of packet size on the connection. If you want to configure the pattern that will be used to buffer small datagrams to reach this size, also configure <code>pattern <bufferpattern_hex></code> on page 330.	56
pattern <bufferpattern_hex>	Enter a hexadecimal pattern, such as 00ffaabb, to fill the optional data buffer at the end of the ICMP packet. The size of the buffer is determined by <code>data-size <bytes_int></code> on page 330.	
repeat-count <repeat_int>	Enter the number of times to repeat the ping.	5
source {auto <interface_ipv4>}	Select the network interface from which the ping is sent. Enter either <code>auto</code> or a mail network interface's IP address.	auto
timeout <seconds_int>	Enter the ping response timeout in seconds.	2
tos {default lowcost lowdelay reliability throughput}	Enter the IP type-of-service option value, either: <ul style="list-style-type: none"> <code>default</code>: Do not indicate (that is, set the TOS byte to 0). <code>lowcost</code>: Minimize cost. <code>lowdelay</code>: Minimize delay. <code>reliability</code>: Maximize reliability. <code>throughput</code>: Maximize throughput. 	default
ttl <hops_int>	Enter the time-to-live (TTL) value.	64
validate-reply {yes no}	Select whether or not to validate ping replies.	no
view-settings	Display the current ping option settings.	

Related topics

[ping on page 326](#)

[ping6 on page 329](#)

[db on page 312](#)

raid

Use this command to find and add a hard disk to the array unit after you insert a second hard disk into the drive bay.



This command is only available for some FortiMail platforms which support RAID.

Syntax

```
execute raid add-disk
```

Example

You could notify the RAID controller to add the hard disk to the array unit after inserting a new hard disk.

```
execute raid
```

The CLI displays the following:

```
This operation will scan for new hard drives and add them into the RAID array  
Do you want to continue? (y/n)
```

After you enter **y** (yes), if all hard disks have already been added to an array, the CLI displays the following:

```
existing raid disk at 12 is 120034123776  
existing raid disk at 13 is 120034123776  
no NEW disks in the system
```

Related topics

[system status on page 346](#)

reboot

Use this command to restart the FortiMail unit.

Syntax

```
execute reboot
```

Example

The following example reboots the FortiMail unit.

```
execute reboot
```

The CLI displays the following:

```
This operation will reboot the system !  
Do you want to continue? (y/n)
```

After you enter **y** (yes), the CLI displays the following:

```
System is rebooting...
```

If you are connected to the CLI through a local console, the CLI displays messages while the reboot is occurring.

If you are connected to the CLI through the network, the CLI will not display any notification while the reboot is occurring, as this occurs after the network interfaces have been shut down. Instead, you may notice that the connection is terminated. Time required by the reboot varies by many factors, such as whether or not hard disk verification is required, but may be several minutes.

Related topics

[shutdown on page 337](#)

reload

If you set your console to batch mode, use this command to flush the current configuration from system memory (RAM) and reload the configuration from a previously saved configuration file. Could use an example. Sounds like this is for sending a config text stream from a terminal, but not sure.

In addition, you can also use this command to reload individual daemons that have crashed. In this case, the command is as following:

```
execute reload [{httpd | ...}]
```

where [{httpd | ...}] indicates the name of a specific daemon that you want to restart, if you want to limit the reload to a specific daemon.

For example, if HTTP and HTTPS access are enabled, but you cannot get a connection response on webmail or the GUI, although you can still connect via SSH and ping. Thus you know that the FortiMail unit has not crashed entirely. If you do not want to reboot because this would interrupt SMTP, you can choose to restart the HTTP daemon only.

```
FortiMail-400 # execute reload httpd
Restart httpd?
Do you want to continue? (y/n)y
```

```
Reloading httpd....done
```

Note that the command does not check whether your indicated daemon actually exists. It simply indicates whether the command is executed. If the command does not take a few seconds to execute, it is possible that the daemon does not really exist.

Syntax

```
execute reload [<daemon_name>]
```

Related topics

[reboot on page 331](#)

[restore config on page 334](#)

[restore image on page 335](#)

restore as

Use this command to restore an antispam configuration file from a TFTP server.

Syntax

```
execute restore as tftp <filename_str> on page 333 <server_ipv4> on page 333
```

Variable	Description	Default
<filename_str>	Enter the name of the configuration file stored on a TFTP server.	
<server_ipv4>	Enter the IP address of the TFTP server where the configuration file is stored.	

Related topics

[restore av on page 333](#)

restore av

use this command to restore an antivirus configuration file from a TFTP server.

Syntax

```
execute restore av tftp <filename_str> on page 333 <server_ipv4> on page 333
```

Variable	Description	Default
<filename_str>	Enter the name of the configuration file stored on a TFTP server.	
<server_ipv4>	Enter the IP address of the TFTP server where the configuration file is stored.	

Related topics

[restore as on page 333](#)

restore config

Use this command to restore a primary configuration file from a TFTP server.



Back up your configuration before entering this command. This procedure can perform large changes to your configuration, including, if you are downgrading the firmware, resetting all changes that you have made to the FortiMail unit's configuration file and reverting the system to the default values for the firmware version, including factory default settings for the IP addresses of network interfaces. For information on creating a backup, see the [FortiMail Administration Guide](#).



Unlike installing firmware via TFTP during a boot interrupt, installing firmware using this command will attempt to preserve settings and files, and not necessarily restore the FortiMail unit to its firmware/factory default configuration. For information on installing firmware via TFTP boot interrupt, see the [FortiMail Administration Guide](#).

Syntax

```
execute restore config {tftp <filename_str> on page 334 <server_ipv4> on page 334 |
management-station {normal | template} on page 334 <revision_int> on page 334}
```

Variable	Description	Default
<filename_str>	If you want to restore a configuration file stored on a TFTP server, enter the name of the configuration file.	
<server_ipv4>	If you want to restore a configuration file stored on a TFTP server, enter the IP address of the TFTP server.	
management-station {normal template}	If you want to restore a configuration file or apply a template stored on a FortiManager unit, enter the management-station keyword then enter either: <ul style="list-style-type: none"> normal: Restore a configuration revision number. template: Apply a template revision number. 	
<revision_int>	If you want to restore a configuration file or apply a template stored on a FortiManager unit, enter the revision number of the configuration file or template.	

Example

This example restores configuration file revision 2, which is stored on the FortiManager unit.

```
execute restore config management-station normal 2
```

The CLI displays the following:

```
This operation will overwrite the current settings!
```

Do you want to continue? (y/n)

After you enter **y** (yes), the CLI displays the following:

```
Connect to FortiManager ...  
Please wait...
```

Example

This example restores a configuration file from a TFTP server at 172.16.1.5.

```
execute restore config tftp fml.cfg 172.16.1.5
```

The CLI displays the following:

```
This operation will overwrite the current settings!  
(The current admin password will be preserved.)  
Do you want to continue? (y/n)
```

After you enter **y** (yes), the CLI displays the following, then terminates the SSH connection and reboots with the restored configuration:

```
Connect to tftp server 172.16.1.5 ...  
Please wait...
```

```
Get config file from tftp server OK.  
File check OK.
```

Related topics

[backup on page 303](#)

[system central-management on page 235](#)

restore image

Use this command to restore a firmware file from an FTP, SCP, or TFTP server.



Back up your configuration before entering this command. This procedure can perform large changes to your configuration, including, if you are downgrading the firmware, resetting all changes that you have made to the FortiMail unit's configuration file and reverting the system to the default values for the firmware version, including factory default settings for the IP addresses of network interfaces. For information on creating a backup, see the [FortiMail Administration Guide](#).

Syntax

```
execute restore image {ftp|scp|tftp} <filename_str> on page 336 <server_ip> on page  
336 <user><password> on page 336
```

Variable	Description	Default
<filename_str>	Enter the name of the firmware file backup file.	
<server_ipv4>	Enter the IP address of the server.	
<user><password>	You may need to enter the credentials to log on to the server.	

Example

This example restores firmware file FE_2000A-v300-build397-FORTINET.out, which is stored on the TFTP server 192.168.1.20.

```
execute restore image tftp FE_2000A-v300-build397-FORTINET.out 192.168.1.20
```

The CLI displays the following:

```
This operation will replace the current firmware version!
Do you want to continue? (y/n)
```

After you enter **y** (yes), the CLI displays the following:

```
Connect to tftp server 192.168.1.20 ...
Please wait...
#####
Get image from tftp server OK.
Check image OK.
```

Related topics

[restore config on page 334](#)

[system central-management on page 235](#)

restore mail-queues

Use this command to restore a mail queue file from a TFTP server.



Back up your configuration before entering this command. This procedure can perform large changes to your configuration, including, if you are downgrading the firmware, resetting all changes that you have made to the FortiMail unit's configuration file and reverting the system to the default values for the firmware version, including factory default settings for the IP addresses of network interfaces. For information on creating a backup, see the [FortiMail Administration Guide](#).

Syntax

```
execute restore mail-queues {tftp <filename_str> on page 337 <server_ipv4> on page 337}
```


Variable	Description	Default
<filename_str>	If you want to restore a firmware file stored on a TFTP server, enter the name of the firmware file backup file.	
<server_ip4>	If you want to restore a firmware file stored on a TFTP server, enter the IP address of the TFTP server.	

Related topics

[restore config on page 334](#)

sched-backup

Use this command to schedule backup to FortiManager.

Syntax

```
execute sched-backup
```

shutdown

Use this command to prepare the FortiMail unit to be powered down by halting the software, clearing all buffers, and writing all cached data to disk.



Power off the FortiMail unit only after issuing this command. Unplugging or switching off the FortiMail unit without issuing this command could result in data loss.

Syntax

```
execute shutdown
```

Example

The following example halts the FortiMail unit.

```
execute shutdown
```

The CLI displays the following:

```
This operation will halt the system
(power-cycle needed to restart)!Do you want to continue? (y/n)
```

After you enter `y` (yes), the CLI displays the following:

```
System is shutting down...(power-cycle needed to restart)
```

If you are connected to the CLI through a local console, the CLI displays a message when the shutdown is complete.

If you are connected to the CLI through the network, the CLI will not display any notification when the shutdown is complete, as this occurs after the network interfaces have been shut down. Instead, you may notice that the connection times out.

Related topics

[reboot on page 331](#)

smtpstest

Use this command to test SMTP connectivity to a specified host.

Syntax

```
execute smtpstest {<fqdn_str> | <host_ipv4>} on page 338[:<port_int>] on page 338
[domain <domain_str>] on page 338
```

Variable	Description	Default
{<fqdn_str> <host_ipv4>}	Enter the IP address or fully qualified domain name (FQDN) of the SMTP server.	No default.
[:<port_int>]	If the SMTP server listens on a port number other than port 25, enter a colon (:) followed by the port number.	:25
[domain <domain_str>]	If you want to test the connection from an IP address in the protected domain's IP pool, enter the name of the protected domain.	No default.

Example

This example tests the connection to an SMTP server at 192.168.1.10 on port 2525. For the outgoing connection, the FortiMail unit uses the source IP address 192.168.1.20 from the IP pool selected in the protected domain example.com.

```
execute smtpstest 192.168.1.10:2525 domain example.com
```

The CLI displays the following:

```
(using 192.168.1.20 to connect)
Remote Output:
220 fortimail.example.com ESMTP Smtpd; Mon, 19 Jan 2009
13:27:35 -0500
Connection Status:
Connecting to remote host succeeded.
```

Related topics

[telnettest on page 340](#)

[traceroute on page 340](#)

[ping on page 326](#)

[system dns on page 242](#)

ssh

Use this command to connect to another device via SSH.

Syntax

```
execute ssh <username@host> <password> on page 339
```

Variable	Description	Default
<username@host> <password>	Enter the user name and password. The host can be an IP address or the host name of the remote device.	

storage

Use this command to configure remote file storage.

Syntax

```
execute storage format on page 339
execute storage fscheck on page 339
execute storage start on page 339
execute storage test on page 339
```

Variable	Description	Default
format	Remove all data on the remote storage device.	
fscheck	Check the remote file storage system.	
start	Start the remote storage daemon.	
test	Test the remote file storage system.	

telnettest

Use this command to test Telnet connectivity to a specified host.

Syntax

```
execute telnettest {<fqdn_str> | <host_ipv4>} on page 340[:<port_int>] on page 340
```

Variable	Description	Default
{<fqdn_str> <host_ipv4>}	Enter the IP address or fully qualified domain name (FQDN) of the Telnet server.	No default.
[:<port_int>]	If the Telnet server listens on a port number other than port 23, enter a colon (:) followed by the port number.	:23

Example

This example tests the connection to an Telnet server at 192.168.1.10 on port 2323.

```
execute telnettest 192.168.1.10:2323
```

The CLI displays the following:

```
(using 192.168.1.20 to connect)
Remote Output(hex):
FF FD 18 FF FD 20 FF FD
23 FF FD 27
Connection Status:
Connecting to remote host succeeded.
```

Related topics

[smtp test on page 338](#)

[traceroute on page 340](#)

[ping on page 326](#)

[system dns on page 242](#)

traceroute

Use this command to use ICMP to test the connection between the FortiMail unit and another network device, and display information about the time required for network hops between the device and the FortiMail unit.

Syntax

execute `traceroute {<fqdn_str> | <host_ipv4>}` on page 341

Variable	Description	Default
traceroute {<fqdn_str> <host_ipv4>}	Enter the IP address or fully qualified domain name (FQDN) of the host.	No default.

Example

This example tests connectivity between the FortiMail unit and <http://docs.fortinet.com>. In this example, the trace times out after the first hop, indicating a possible connectivity problem at that point in the network.

```
FortiMail# execute traceoute docs.fortinet.com
traceroute to docs.fortinet.com (65.39.139.196), 30 hops max, 38 byte packets
1  172.16.1.200 (172.16.1.200) 0.324 ms 0.427 ms 0.360 ms
2  * * *
```

Example

This example tests the availability of a network route to the server example.com.

```
execute traceroute example.com
```

The CLI displays the following:

```
traceroute to example.com (192.168.1.10), 32 hops max, 72 byte packets
1 172.16.1.2 0 ms 0 ms 0 ms
2 10.10.10.1 <static.isp.example.net> 2 ms 1 ms 2 ms
3 10.20.20.1 1 ms 5 ms 1 ms
4 10.10.10.2 <core.isp.example.net> 171 ms 186 ms 14 ms
5 10.30.30.1 <isp2.example.net> 10 ms 11 ms 10 ms
6 10.40.40.1 73 ms 74 ms 75 ms
7 192.168.1.1 79 ms 77 ms 79 ms
8 192.168.1.2 73 ms 73 ms 79 ms
9 192.168.1.10 73 ms 73 ms 79 ms
10 192.168.1.10 73 ms 73 ms 79 ms
```

Example

This example attempts to test connectivity between the FortiMail unit and example.com. However, the FortiMail unit could not trace the route, because the primary or secondary DNS server that the FortiMail unit is configured to query could not resolve the FQDN example.com into an IP address, and it therefore did not know to which IP address it should connect. As a result, an error message is displayed.

```
FortiMail# execute traceroute example.com
traceroute: unknown host example.com
Command fail. Return code 1
```

To resolve the error message in order to perform connectivity testing, the administrator would first configure the FortiMail unit with the IP addresses of DNS servers that are able to resolve the FQDN example.com. For details, see [system dns on page 242](#).

Related topics

[smtptest on page 338](#)
[telnettest on page 340](#)
[ping on page 326](#)
[ping-option on page 327](#)
[system dns on page 242](#)

update

Use this command to manually request updates to the FortiGuard Antivirus and FortiGuard Antispam engine and definitions from the FortiGuard Distribution Network (FDN).

You can alternatively or additionally configure scheduled updates and push updates. For details, see [system fortiguard antivirus on page 246](#) and [system fortiguard antispam on page 249](#).

Syntax

```
execute update {as | av | now}
```

Related topics

[system fortiguard antivirus on page 246](#)
[system fortiguard antispam on page 249](#)

user-config

Use this command to generate a file with the latest user-specific configurations, such as user preferences, personal black/white lists, and secondary addresses, to the user configuration file, so that you will have the latest configuration when you make a configuration backup using [backup on page 303](#).

Syntax

```
execute user-config generate on page 342  
execute user-config getinfo on page 342
```

Variable	Description	Default
generate	Updates the user configuration file with the latest user-specific configuration.	
getinfo	Displays the time stamp when the last configuration file update was performed.	

Related topics

[backup on page 303](#)

7vm

Use this command to upload a VM license.

Syntax

```
execute vm license tftp <license_file_name> <tftp_server_ip> on page 343
```

Variable	Description	Default
<license_file_name> <tftp_server_ip>	Specify the license file name and the TFTP server IP address.	

get

`get` commands display a part of your FortiMail unit's configuration in the form of a list of settings and their values.

Unlike `show`, `get` displays **all** settings, even if they are still in their default state.

For example, you might get the current DNS settings:

```
FortiMail# get system dns
primary : 172.16.95.19
secondary : 0.0.0.0
private-ip-query : enable
cache : enable
```

Notice that the command displays the setting for the secondary DNS server, even though it has not been configured, or has been reverted to its default value.

Also unlike `show`, unless used from within an object or table, `get` requires that you specify the object or table whose settings you want to display.

For example, at the root prompt, this command would be valid:

```
FortiMail# get system dns
```

and this command would not:

```
FortiMail# get
```

Depending on whether or not you have specified an object, like `show`, `get` may display one of two different outputs: either the configuration that you have just entered but not yet saved, or the configuration as it currently exists on the disk, respectively.

For example, immediately after configuring the secondary DNS server setting but **before** saving it, `get` displays two different outputs (differences highlighted in bold):

```
FortiMail# config system dns
(dns)# set secondary 192.168.1.10
(dns)# get
primary : 172.16.95.19
secondary : 192.168.1.10
private-ip-query : enable
cache : enable
(dns)# get system dns
primary : 172.16.95.19
secondary : 0.0.0.0
private-ip-query : enable
cache : enable
```

The first output from `get` indicates the value that you have configured but not yet saved; the second output from `get` indicates the value that was last saved to disk.

If you were to now enter `end`, saving your setting to disk, `get` output for both syntactical forms would again match. However, if you were to enter `abort` at this point and discard your recently entered secondary DNS setting instead of saving it to disk, the FortiMail unit's configuration would therefore match the second output, not the first.



If you have entered settings but cannot remember how they differ from the existing configuration, the two different forms of `get`, with and without the object name, can be a useful way to remind yourself.

Most `get` commands, such as `get system dns`, are used to display configured settings. You can find relevant information about such commands in the corresponding `config` commands in the `config` chapter.

Other `get` commands, such as [system performance on page 345](#), are used to display system information that is **not** configurable. This chapter describes this type of `get` command.

This chapter describes the following commands:

[system performance on page 345](#)

[system status on page 346](#)



Although not explicitly shown in this section, for all [config on page 39](#) commands, there are related `get` and `show & show full-configuration on page 347` commands which display that part of the configuration. `get` and `show` commands use the same syntax as their related `config` command, unless otherwise mentioned. For syntax examples and descriptions of each configuration object, field, and option, see [config on page 39](#).

system performance

Displays the FortiMail unit's CPU usage, memory usage, system load, and up time.

Syntax

```
get system performance
```

Example

```
FortiMail# get system performance
CPU usage: 0% used, 100% idle
Memory usage: 17% used
System Load: 5
Uptime: 0 days, 8 hours, 24 minutes.
```

Related topics

[system status on page 346](#)

system status

Use this command to display FortiMail system status information including:

- firmware version, build number and date
- antivirus definition version and release date and time
- FortiMail unit serial number and BIOS version
- log hard disk availability
- mailbox disk availability
- host name
- operation mode
- distribution scope
- branching point (same as firmware build number)
- release version
- system time

Syntax

```
get system status
```

Example

```
FortiMail-400 # get system status
Version: FortiMail-400 v4.0.0,build0087,091105
Virus-DB: 11.23(11/05/2009 01:20)
Serial-Number: FE-4002905500226
BIOS version: 04000000
Log disk: Capacity 20 GB, Used 1 GB ( 8.27%), Free 18 GB
Mailbox disk: Capacity 89 GB, Used 278 MB ( 0.31%) , Free 89 GB
Hostname: FortiMail-400
Operation Mode: Transparent
Distribution: International
Branch point: 087
Release Version Information: v4.0.0
System time: Thu Nov 5 16:25:31 2009
```

Related topics

[system performance on page 345](#)

show & show full-configuration

The `show` commands display a part of your FortiMail unit's configuration in the form of commands that are required to achieve that configuration from the firmware's default state.



Although not explicitly shown in this section, for all `config` on page 39 commands, there are related `get` on page 344 and `show` commands which display that part of the configuration. `get` and `show` commands use the same syntax as their related `config` command, unless otherwise mentioned. For syntax examples and descriptions of each configuration object, field, and option, see the `config` chapters.

Unlike `get`, `show` does **not** display settings that are assumed to remain in their default state.

For example, you might show the current DNS settings:

```
FortiMail# show system dns
config system dns
    set primary 172.16.1.10
end
```

Notice that the command does **not** display the setting for the secondary DNS server. This indicates that it has not been configured, or has reverted to its default value.

Exceptions include `show full-configuration` commands. This displays the full configuration, **including** the default settings, similar to `get` commands. However, `show full-configuration` output uses configuration file syntax, while `get` commands do not.

For example, you might show the current DNS settings, **including** settings that remain at their default values (differences highlighted in bold):

```
FortiMail# show full-configuration system dns
config system dns
    set primary 172.16.1.10
    set secondary 172.16.1.11
    set private-ip-query disable
    set cache enable
end
```

Depending on whether or not you have specified an object, like `get`, `show` may display one of two different outputs: either the configuration that you have just entered but not yet saved, or the configuration as it currently exists on the disk, respectively.

For example, immediately after configuring the secondary DNS server setting but **before** saving it, `show` displays two different outputs (differences highlighted in bold):

```
FortiMail# config system dns
FortiMail (dns)# set secondary 192.168.1.10
FortiMail (dns)# show
config system dns
    set primary 172.16.1.10
    set secondary 192.168.1.10
    set private-ip-query enable
    set cache enable
end
```

```
FortiMail (dns)# show system dns
config system dns
    set primary 172.16.1.10
end
```

The first output from `show` indicates the value that you have configured but not yet saved; the second output from `show` indicates the value that was last saved to disk.



If you have entered settings but cannot remember how they differ from the existing configuration, the two different forms of `show`, with and without the object name, can be a useful way to remind yourself.

If you were to now enter `end`, saving your setting to disk, `show` output for both syntactical forms would again match. However, if you were to enter `abort` at this point and discard your recently entered secondary DNS setting instead of saving it to disk, the FortiMail unit's configuration would therefore match the second output, not the first.



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