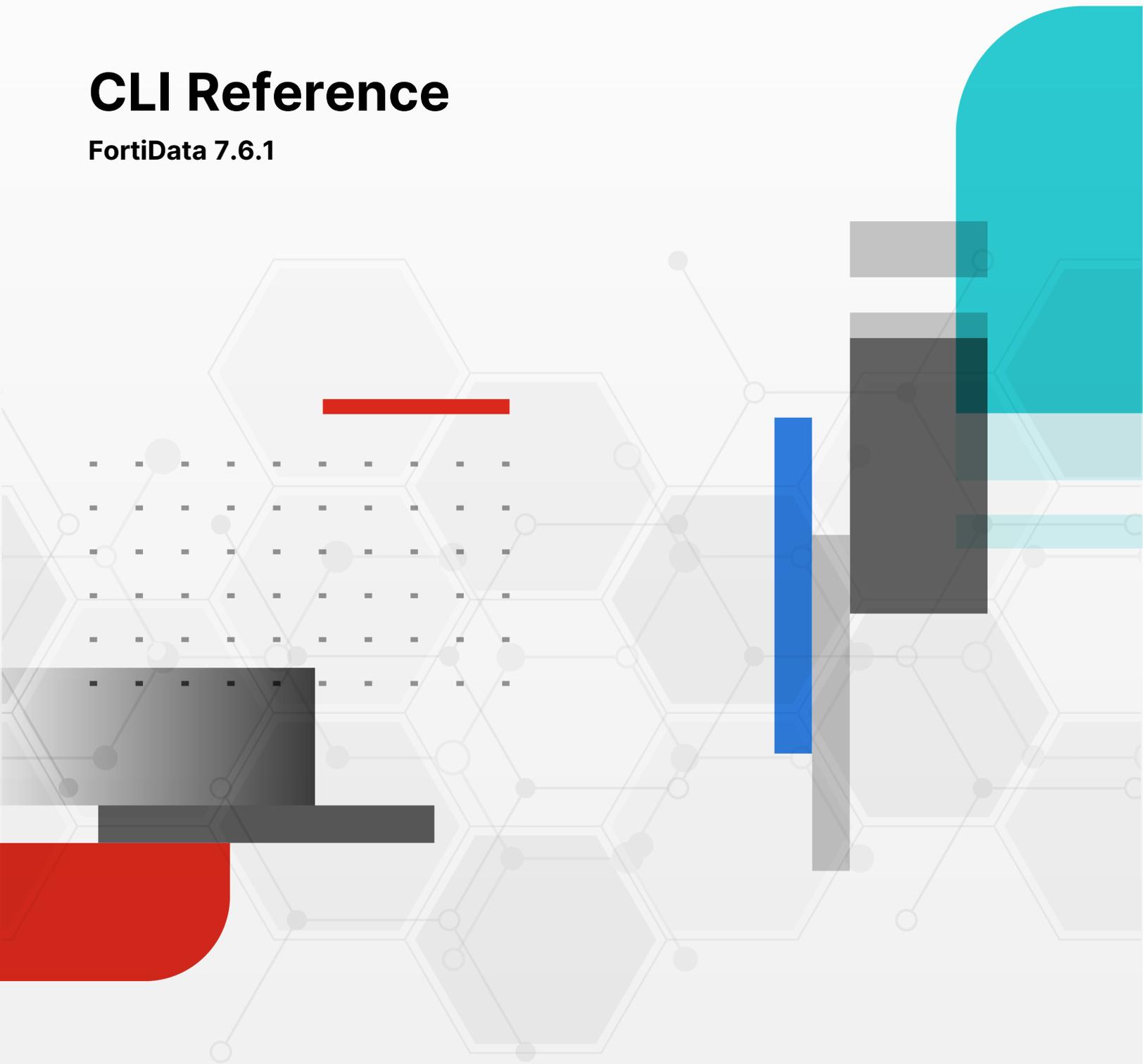


CLI Reference

FortiData 7.6.1



FORTINET DOCUMENT LIBRARY

<https://docs.fortinet.com>

FORTINET VIDEO LIBRARY

<https://video.fortinet.com>

FORTINET BLOG

<https://blog.fortinet.com>

CUSTOMER SERVICE & SUPPORT

<https://support.fortinet.com>

FORTINET TRAINING & CERTIFICATION PROGRAM

<https://www.fortinet.com/training-certification>

FORTINET TRAINING INSTITUTE

<https://training.fortinet.com>

FORTIGUARD LABS

<https://www.fortiguard.com>

END USER LICENSE AGREEMENT

<https://www.fortinet.com/doc/legal/EULA.pdf>

FEEDBACK

Email: techdoc@fortinet.com



July 3, 2025

FortiData 7.6.1 CLI Reference

96-761-1113251-20250703

TABLE OF CONTENTS

Change log	4
Overview	5
Getting CLI help	6
Abbreviating commands	7
Completing commands automatically	7
CLI commands	9

Change log

Date	Change description
2025-07-03	Initial release.

Overview

You can configure some settings through a connection to the command-line interface (CLI). This requires a terminal emulator such as PuTTY, TeraTerm, or a terminal server.



After you configure the management port, you can connect to the management port and use the CLI remotely by SSH.

Getting CLI help

Enter a question mark (?) at the command prompt to display a list of CLI commands and their description.

```
FortiData #  
config      Configure object.  
diagnose    Diagnose facility.  
execute     Execute static commands.  
exit        Exit the CLI.  
show        Show configuration.
```

Enter `config system ?` to display all configuration system related commands and their descriptions.

```
FortiData # config system  
csf          Config security fabric.  
hostname     Configure hostname.  
interface    Configure interfaces.  
route        Configure route.  
tunneling    Config license update proxy
```

Enter `diagnose ?` to display all diagnose related commands and their descriptions.

```
FortiData # diagnose  
hardware     Hardware information.  
logs         logs
```

Enter `execute ?` to display all execute related commands and their descriptions.

```
FortiData # execute  
ping         PING command.  
reboot       Reboot FortiData.  
restore      Restore FortiData.  
shutdown     Shutdown FortiData.
```

Enter `show system ?` to display all show system related commands and their descriptions.

```
FortiData # show system  
csf          Show security fabric configurations.  
hostname     Show hostname configuration.  
interface    Show network interfaces and configurations.  
route        Show default route.
```

Abbreviating commands

You can abbreviate words in the command line to their smallest number of non-ambiguous characters.

For example, the `show system route` command can be abbreviated to `s s r`.

```
FortiData # s s r
Default gateway: 10.255.255.2
Default gateway6: ::
```

Completing commands automatically

Enter a word or part of a word and then press `?`. No space is required before the command.

For example, enter `e` and then `?`. You can see the following information:

```
FortiData # e
execute      Execute static commands.
exit        Exit the CLI.
```

The table below lists the shortcuts and descriptions:

Action	Shortcut	Description
List	<code>?</code>	List CLI commands and their descriptions.
	Tab	Display the key command word. Press Tab multiple times to switch among different words, such as <code>get</code> , <code>show</code> , and <code>config</code> , etc.
Recall	<code>↑</code> or <code>Ctrl + P</code>	Recall the previous command. Command memory is limited to the current session.
	<code>↓</code> or <code>Ctrl + N</code>	Recall the next command.
Cursor move	<code>←</code> or <code>→</code>	Move the cursor within the command line.
	<code>Ctrl + A</code>	Move the cursor to the beginning of the command line.
	<code>Ctrl + E</code>	Move the cursor to the end of the command line.
	<code>Ctrl + B</code>	Move the cursor after one word.
	<code>Ctrl + F</code>	Move the cursor before one word.
Delete	<code>Ctrl + D</code>	Delete the current character.
Abort commands	<code>Ctrl + C</code>	Abort current interactive commands, such as when entering multiple lines. If you are not currently within an interactive

Action	Shortcut	Description
		command such as config or edit, this closes the CLI connection.
Continue to next line	\ then Enter	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.

CLI commands

The following table describes commonly used CLI commands.

Command	Description												
?	Show help information.												
get system status	<p>Retrieve the current status and basic system information.</p> <p>Output Example: Version: FortiData-KVM 7.6.1 build0081 20250610 Hostname: My_FortiData System time: Tue Jun 10 12:04:09 PDT 2025 System uptime: 6 minutes Data Disk: Available</p> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Version</td> <td>Current firmware version and build date.</td> </tr> <tr> <td>Hostname</td> <td>Device hostname.</td> </tr> <tr> <td>System time</td> <td>Current system date and time.</td> </tr> <tr> <td>System uptime</td> <td>Duration since last reboot.</td> </tr> <tr> <td>Data Disk</td> <td>Status of the data storage disk.</td> </tr> </tbody> </table>	Parameter	Description	Version	Current firmware version and build date.	Hostname	Device hostname.	System time	Current system date and time.	System uptime	Duration since last reboot.	Data Disk	Status of the data storage disk.
Parameter	Description												
Version	Current firmware version and build date.												
Hostname	Device hostname.												
System time	Current system date and time.												
System uptime	Duration since last reboot.												
Data Disk	Status of the data storage disk.												
show full-configuration	Displays the complete configuration of the system, including all modules and settings.												
show system hostname	Show hostname configuration.												
show system interface	Show network interfaces and configurations.												
show system route	Show all system routes.												
show system config route	Show configured static routes.												
show system setting	Show system-level settings.												
show system tunneling	Show tunneling (e.g., proxy) configurations.												
show user	Show current user.												
show timezone help	Show the timezone identifier and its corresponding GMT offset.												
config system hostname	Set the host name for this appliance.												
config system interface	Configure network interfaces.												

Command	Description										
	<pre>config system interface edit mgmt set ip 172.173.1.200 255.255.255.0 set mode <manual dhcp> end end</pre>										
config system route	<p>Configure the gateway address for the management port.</p> <pre>config system route set gateway 172.173.1.248 end</pre>										
config system tunneling	<p>Configure license update proxy settings.</p> <pre>config system tunneling set address <proxy-address> set port <proxy-port> set status <enable disable> set username <proxy-username> set password <proxy-password> end</pre>										
diagnose hardware info	Show hardware information.										
diagnose hardware deviceinfo	Show device information.										
diagnose daemon	<p>Control and inspect the status of internal system services (daemons).</p> <table border="1"> <thead> <tr> <th>Sub-command</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>start</td> <td>Start a specific daemon.</td> </tr> <tr> <td>stop</td> <td>Stop a specific daemon.</td> </tr> <tr> <td>restart</td> <td>Restart a specific daemon.</td> </tr> <tr> <td>status</td> <td>Show the status of a daemon.</td> </tr> </tbody> </table> <p>The following daemons are supported:</p> <ul style="list-style-type: none"> scan_analyzer 	Sub-command	Description	start	Start a specific daemon.	stop	Stop a specific daemon.	restart	Restart a specific daemon.	status	Show the status of a daemon.
Sub-command	Description										
start	Start a specific daemon.										
stop	Stop a specific daemon.										
restart	Restart a specific daemon.										
status	Show the status of a daemon.										

Command	Description
	<ul style="list-style-type: none"> • scheduler • db_refresh • scan_dispatcher • scan_downloader • scan_event_handler • api_http • api_https • api_local • http2 • log_daemon • scan_protection_engine • report_generator • system • all (to target all services) <p>Examples:</p> <ul style="list-style-type: none"> • diagnose daemon restart api_https • diagnose daemon status scheduler • diagnose daemon start all
diagnose db	<p>Upgrade the system database to a specific release version or the latest available.</p> <p>Examples:</p> <ul style="list-style-type: none"> • diagnose db latest • diagnose db 7.6.1
diagnose fds connect	<p>Manually trigger a connection to the Fortinet Distribution Server (FDS) to check for updates or validate connectivity.</p>
diagnose logs	<p>Display, delete, or get statistics on logs for individual system modules.</p> <p>The following modules are supported:</p> <p>api, analyzer, global_cache, http2, log_daemon, recycle, scan, system, daemon, db, report,d_scan_analyzer, d_scan_download, d_scan_elistener, d_scan_action, d_scan_dispatch,d_app_https, d_app_local, d_app_http, d_logd, d_system, d_apscheduler, d_http2, d_report</p> <p>Examples:</p> <ul style="list-style-type: none"> • diagnose logs show scan 50 • diagnose logs show api all grep 'error' • diagnose logs delete scan • diagnose logs delete all • diagnose logs stats report • diagnose logs stats all

Command	Description												
execute backup	<p>Back up the system configuration to a TFTP server.</p> <p>Syntax: execute backup <type> tftp <file_name> <tftp_server_ip>, where type can be any of the following:</p> <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>all</td> <td>Back up both system and data protection configurations.</td> </tr> <tr> <td>config</td> <td>Back up data protection configuration only.</td> </tr> <tr> <td>system</td> <td>Back up system configuration only.</td> </tr> </tbody> </table> <p>Example: execute backup all tftp full_backup.zip 10.10.10.100</p>	Value	Description	all	Back up both system and data protection configurations.	config	Back up data protection configuration only.	system	Back up system configuration only.				
Value	Description												
all	Back up both system and data protection configurations.												
config	Back up data protection configuration only.												
system	Back up system configuration only.												
execute ping	<p>Send ICMP echo requests to a host to test network connectivity.</p> <p>Example: execute ping 8.8.8.8</p>												
execute reboot	Reboot the system.												
execute shutdown	Shut down the system.												
execute restore	<p>Restore system configuration, upgrade firmware image, or update VM license from a remote server.</p> <p>Syntax: execute restore <type> <protocol> <file_name> <server_ip></p> <table border="1"> <thead> <tr> <th>Type</th> <th>Supported Protocols</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>config</td> <td>tftp</td> <td>Restore system configuration from TFTP server.</td> </tr> <tr> <td>image</td> <td>tftp, ftp</td> <td>Upgrade firmware image from TFTP/FTP server.</td> </tr> <tr> <td>vmlicense</td> <td>tftp</td> <td>Update VM license from TFTP server.</td> </tr> </tbody> </table> <p>Examples:</p>	Type	Supported Protocols	Description	config	tftp	Restore system configuration from TFTP server.	image	tftp, ftp	Upgrade firmware image from TFTP/FTP server.	vmlicense	tftp	Update VM license from TFTP server.
Type	Supported Protocols	Description											
config	tftp	Restore system configuration from TFTP server.											
image	tftp, ftp	Upgrade firmware image from TFTP/FTP server.											
vmlicense	tftp	Update VM license from TFTP server.											

Command	Description
	<ul style="list-style-type: none">• execute restore config tftp full_backup.zip 10.255.255.171• execute restore image tftp image_20250601.out 10.255.255.171• execute restore image ftp image_20250601.out 192.168.1.200• execute restore vmlicense tftp license.lic 10.255.255.171
exit	Exit the current session.



www.fortinet.com

Copyright© 2025 Fortinet, Inc. All rights reserved. Fortinet®, FortiGate®, FortiCare® and FortiGuard®, and certain other marks are registered trademarks of Fortinet, Inc., and other Fortinet names herein may also be registered and/or common law trademarks of Fortinet. All other product or company names may be trademarks of their respective owners. Performance and other metrics contained herein were attained in internal lab tests under ideal conditions, and actual performance and other results may vary. Network variables, different network environments and other conditions may affect performance results. Nothing herein represents any binding commitment by Fortinet, and Fortinet disclaims all warranties, whether express or implied, except to the extent Fortinet enters a binding written contract, signed by Fortinet's Chief Legal Officer, with a purchaser that expressly warrants that the identified product will perform according to certain expressly-identified performance metrics and, in such event, only the specific performance metrics expressly identified in such binding written contract shall be binding on Fortinet. For absolute clarity, any such warranty will be limited to performance in the same ideal conditions as in Fortinet's internal lab tests. Fortinet disclaims in full any covenants, representations, and guarantees pursuant hereto, whether express or implied. Fortinet reserves the right to change, modify, transfer, or otherwise revise this publication without notice, and the most current version of the publication shall be applicable.