

# FORTINET FORTIGATE – CLI CHEATSHEET

COMMAND	DESCRIPTION
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## MAIN COMMAND STRUCTURE

show	Display changes to the default configuration
edit	Create or edit a table in the current object. edit 0 will use the next ID available in a sequence number
get	List the configuration of the current object or table
next	Save current entry (edit X) and return to table
set/unset	Set a field / Reset a field to the default value
end	Save the current changes and exit menu
delete	Remove a table from the current object
abort	Exit commands without saving the fields (ctrl+C)
tree	Display the command tree for the current config section

## INTERFACE COMMANDS

show/get system interface	Show interfaces status. Use get to retrieve dynamic information (such as PPPoE IP)
config sys interface edit <port> set ip x.x.x.x/y set allow ssh ping https end	Basic interface ip configuration
diag hard dev nic <port>	Show interfaces statistics
diag netlink device list	Show interfaces statistics (errors)

## VPN COMMANDS

diag vpn ike gateway list	Show phase 1
diag vpn tunnel list	Show phase 2 (shows npu flag)
diag vpn ike gateway flush name <phase1>	Flush a phase 1
diag vpn tunnel up <phase2>	Bring up a phase 2
diag debug en diag vpn ike log-filter daddr x.x.x.x diag debug app ike 1	Troubleshoot VPN issue

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## BASIC COMMANDS

get sys status	Show status summary
get sys perf stat	Show Fortigate resources summary
exec shutdown/reboot	Shutdown the device/reboot
execute ping(-options)	Ping something (can add options)
execute ssh <user>@<ip>	SSH to another server
get sys arp (   grep x.x)	Show the arp table (filtered by x.x)
show   grep -f something	Find where "something" is used (cases-sensitive, can use -i to be case insensitive)


## CONFIG MANAGEMENT COMMANDS

diag hard deviceinfo disk	Show disks and partitions usage
exec setnextreboot ?	Select partition for the next reboot
diag sys flash list	Show partitions status
exec factoryreset [keepvmlicense]	Reset to factory default (2 to keep network) (if VM, use keepvmlicense)
exec restore config	Restore configuration (reboots)
exec backup conf	Backup configuration
exec formatlogdisk	Format log disk
diag debug config-error-log read	Show config parsing errors (after upgrade) > should be empty


## FORTIGUARD COMMANDS

execute update-now	Forces a download of the whole AV/IPS database, with license check
diag autoupd status/version	Show FGD engine and database
diag debug rating	Show current connectivity with URL rating servers
diag deb en diag deb app update -1	Troubleshoot AV/IPS download

# FORTINET FORTIGATE – CLI CHEATSHEET (contd.)

COMMAND	DESCRIPTION
	
<b>DEBUG COMMANDS</b>	
diag debug enable diag debug flow sh c en diag debug flow sh f en diag debug flow filter saddr x.x.x.x diag debug flow filter daddr y.y.y.y diag debug flow trace start 10 diag debug reset	Debug flow
diag debug crashlog read	Show crashlog
diag sys session <b>filter</b> src x.x.x.x diag sys session <b>filter</b> dst x.x.x.x diag sys session <b>list</b> diag sys session <b>clear</b>	<b>Filter</b> session table <b>List</b> session <b>Clear</b> these sessions
diag deb en diag deb app fnbamd -1	Debug authentication
diag debug report	Collect lots of info
diag sys top <seconds> <nb_lines> <i>shift+P for CPU ordering, shift+M for Mem ordering</i>	Processes usage (CPU usage)
diag sys top-summary '-s mem' <i>'-h' to show options</i>	Processes usage (Mem usage)
abort	Exit commands without saving the fields (ctrl+C)
tree	Display the command tree for the current config section

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<b>HIGH AVAILABILITY COMMANDS</b>	
get sys ha status diag sys ha status	Display HA conf summary
diag sys ha history read	Display HA history events
diag sys ha check cluster diag sys ha check sh root	Dispaly the config checksum for any members of the cluster and show details of the config for a vdom (here root)
exec ha synchronize all	Synchronize all parts of the config
diag deb en diag deb cons timestamp en diag deb app hataalk 1 diag deb app hasync 1	Troubleshoot HA synchronization issue
diag sys ha resetuptime	Reset ha uptime criteria (to trigger failover unless override is enabled => default is disabled)
diag sniffer packet haint 'ether[12:2]=0x8890' 6	Sniffer on heartbeat ports (here haint)
exec ha manage <id> <admin>	Connect on a subordinate device
<b>STATIC ROUTING COMMANDS</b>	
config router static edit 0 set device internal set dst x.x.x.x/y set gateway z.z.z.z end	Add a static route
get ro info ro details x.x.x.x	Display the route used to reach the IP x.x.x.x
diag firewall proute list	Display the Policy Routes
get router info routingtable all get router info routingtable database	Display the current routing table active/configured
diag ip route list	Display the kernel routing table