

Fortigate CLI Reference - v 1.0.5 by André Otta - andreotta@gmail.com

System			Network	Network			
get system status	basic infos about system SN included		get system arp		show fortigate arp table		
exec date	show system date		exec ping-options <source/>		source = fortigate interface ip		
exec time	show system time		exec ping <host></host>		execute a ping		
diag autoupdate versions	show versions of engines		exec traceroute <destination></destination>				
exec reboot	reboot the fortigate		exec traceroute-options <srcip> or <device></device></srcip>				
exec shutdown	shutdown the fortigate		show system interface <port x=""></port>		show fortigate specific interface		
diag debug config-error-log read	show errors who are happened when load the config file		show syst	em interface	show all fortigate interfaces		
Performance			diag hard	diag hardware nic device info <port x=""> show detailed infos about interface like e</port>		drops/packets	
get system performance status	show performance usage and fw uptime		diag sys session list		list active sessions Filter options:		
diag sys top 2 50	show top from 50 processes updating every 2 secs.			diag sys session filter src <ip></ip>	filter active sessions of na specific IP	sintf Source interface.	
diag sys top-sum	show top grouped processes			diag sys session list	list active sessions from the filtered IP	dintf Destination interface.	
diag hardware sysinfo shm	show shared memory information			diag sys session clear	clear active session from the filtered IP	src Source IP address.	
High Availability						nsrc NAT'd source ip address	
get sys ha status	show HA status					dst Destination IP address.	
get sys checksum status	show HA checksum					proto Protocol number.	
exec ha manage <ha_unit_index></ha_unit_index>	manage other cluster member/ type ? instead of index to show all Ids					sport Source port.	
diag sys ha hadiff status	show HA diff		get router info routing table all		show the (active) routing table		
diag sys ha reset uptime	change the cluster active member		get route	r info routing-table database	show the routing table with the worst routes too		
diag sys ha cluster-csum	<5.2	Show sync checksum		er packet <interface> <filter> 3</filter></interface>	verbose level 3: print header and data from Eth		
diag sys ha checksum cluster	5.4 >	Show sync checksum	diag sniffe	er packet <interface> <filter> 4</filter></interface>	verbose level 4: print header of packets with int	erface name	
diag sys ha checksum cached (vdom or root)	5.4 >	Tshoot sync problems		<filter> can be src host, dst host, host, arp, tcp ports, p</filter>			
	a force a checksum recalculation (sometimes this can solve sync proble			More infos: http://kb.fortinet.com/kb/viewContent.do?externalld=11186			
diag sniffer packet any "ether proto 0x8890" 4	Sniffer HA heartbeat packets			get router info vrrp show vrrp state, vrip, priority, vmac, etc.			
diag debug app hatalk -1				vall fqdn list	show the resolved FQDNS objects		
diag debug app hastalk -1			diag sys li	ys link-monitor status show status of links with link-monitor configured		d	
diag debug app hasync -1				Network - Internet service database			
diag debug em	bug em			Fortigate has a collection of IP Addresses and ports realted to applications over internet, working in a granularity of application control.			
VPN Ipsec				internet-service id grep <application></application>	show the id of an specific application		
get vpn ipsec tunnel summary	list all ipsec tunnels				show details (ip addresses and ports) related to this app		
get vpn ipsec tunnel details	list details of ipsec tunnels			c - Debug FLOW			
diag vpn ipsec tunnel list	list details of ipsec tunnels			0 0		, next apply a new one.	
diag vpn tunnel flush <p1 name=""></p1>	flush tunnel Sas			debug flow trace stop	It's possible to use only saddr or daddr instead of both.		
diag vpn tunnel reset <p1 name=""></p1>	flush tunnel Sas and reset NAT-T and DPD confs			debug flow filter clear	ar Formula filters dispused about flow filter 2		
diagnose vpn ike restart	Be careful! This command restart all tunnels.		diagnose	debug reset	For more filters: diagnose debug flow filter ?		
					proto Protocol number.		
diag debug reset We need to run this 2 commands before all debug commands			diagnose debug flow filter saddr x.x.x.x addr IP address.				
diag debug enable (after finish always run disable)			diagnose debug flow filter daddr x.x.x.x saddr Source IP address.				
diag debug app ike -1				diagnose debug flow show console enable daddr Destination IP address.			
diag debug app ike 255 Output VPN handshaking.			diagnose debug flow show function-name enable port port				
User authentication			diagnose debug flow show ipprobe enable sport Source port.				
diag debug reset	We need to run this 2 commands before all debug commands		diagnose debug console timestamp enable		dport Destination port.		
diag debug enable (after finish always run disable)	Debug LDAP or Radius			debug flow trace start 999	negate Inverse filter.		
diag debug application fnbamd -1	Option -1 enables all debug output			diagnose debug enable			
diag debug authd fsso list Show FSSO authenticated users			Network - BGP				
Failure Troubleshooting			get router info bgp summary		Show summary info like AD, UP/Down info.		
exec tac report	generate a TAC report with a lot of info		get router info bgp neighbors		Show neighbors information		
diag debug crashlog read shows the crashlog in a readable format			Webfilte		lette a la serie de	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Resseting a lost admin password				diag debug urlfilter src-addr <host_ip_address> Filtering by an specific IP, you can see details of the websites in realtime.</host_ip_address>			
1. Connect a console cable to Fortigate				diag debug app urlfilter -1 Debug level (-1 shows all infos) It's very important to disable the debug, because consumes			
2. Run putty.exe with default settings				diag debug enable fortigate resources.			
3. When the firewall respond with its hostname			IPS		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Reboot the firewall You have 30 seconds after shows the login again to use the recovery credencials					show details about DoS Policy		
	use the recovery credenc	ials	diag test application ipsmonitor <xx></xx>				
6. Back in login screen, type username: maintainer 7. The password is bcpb+ serial no. of the firewall (ex: bcpbFGT60C3G10016011)				1: Display IPS engine information	To tshoot you can run the commands with 1, 10		
	: bcpbFGT60C3G1001601	1)		10: IPS queue length	These diags collect some valuable information.		
8. Now you should be connected to the firewall				13: IPS session list	-		
9. Change the admin password				97: Start all IPS Engines	-		
config sys admin edit admin				98 : Stop all IPS Engines	-		
				99: Restart all IPS engines and monitor			
set password XXXXXXXXX							
end 10 December 1 and 1			IMPORT	IMPORTANT			
10. Password changed			Do not forget to disable the debugs, because consumes fortigate resources.				
				In HA clusters the primary has the better priority.			
				High CPU can cause HA problems.			