

CLI Basics

show s full-configuration	show configuration
config vdom	enter the correct vdom or global configuration
edit <vdom-name>	select vdom
show grep -f ipv6	To find a CLI command within the configuration, you can use the pipe sign " "
execute backup config flash	save your config
config system global set revision-backup-on-logout enable end	aves a backup of your configuration after each logout automatically
get system interface physical	overview of hardware interfaces
get hardware nic <nic-name>	Details of a single network interface, same as: diagnose hardware deviceinfo nic <nic-name>
fnsysctl ifconfig	kind of hidden command to see more interface stats such as errors
get system status	==show version
get system performance status	CPU and network usage
diagnose sys top	top with all forked processed
diagnose sys top-summary	top easier, incl. CPU and mem bars.
diagnose test application dnsproxy 6	shows the IP addresses of FQDN objects
diagnose debug crashlog read	shows crashlog, a status of 0 indicates a normal close of a process!
execute reboot	reboot your device
config system interface edit mgmt set ip 192.168.1.1 255.255.255.0 set allowaccess ping https ssh next end	To change the IP address of the mgmt interface



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General Network Troubleshooting

execute ping-options ?	Ping from another source address
execute ping-options source <source-interface-IP>	
execute ping <hostname ip>	
execute traceroute <hostname ip>	traceroute
execute traceroute-options ?	
execute ping-options view-settings	view settings
execute ping6-options view-settings	view settings
execute traceroute-options view-settings	view settings

Remote Server Authentication Test

diagnose test authserver ldap <server_name> <username> <password>	
diagnose test authserver radius <server_name> <chap pap mschap mschap2> <username> <password> diagnose test authserver local <group_name> <username> <password>	
diagnose test authserver local <group_name> <username> <password>	

Session Table

get system session list	rough view with NAT, only IPv4
diagnose sys session filter clear	show the session table with the filter just set
diagnose sys session filter ?	
diagnose sys session filter dst 8.8.8.8	
diagnose sys session filter dport 53	
diagnose sys session list	

Routing

get router info routing-table all	IPv4 needs an "all" at the end
get router info6 kernel	Forwarding Information Base
diagnose firewall proute6 list	#Policy Routes + WAN Load Balancing
2 3 4 diagnose sys ha status	verify the checksum of all synchronized peers
execute ha manage ?	
execute ha manage <device-index>	
diagnose sys ha showcsum	



Flow

display the next 10 packets, after that, disable the flow: diagnose debug disable

```
diagnose debug reset
diagnose debug flow filter ?
diagnose debug flow filter saddr 172.16.27.148
diagnose debug flow filter daddr 8.8.8.8
diagnose debug flow show console enable
diagnose debug enable
diagnose debug flow trace start
diagnose debug disable
```

VPN

To show details about IKE/IPsec connections, use these commands:

```
get vpn ike gateway <name>
get vpn ipsec tunnel name <name>
get vpn ipsec tunnel details
diagnose vpn tunnel list
diagnose vpn ipsec status #shows all crypto devices with counters that are used by the VPN
get router info routing-table all
```

To debug IKE/IPsec sessions, use the VPN debug:

```
diagnose debug reset
diagnose vpn ike log-filter clear
diagnose vpn ike log-filter ?
diagnose vpn ike log-filter dst-addr4 1.2.3.4
diagnose debug app ike 255 #shows phase 1 and phase 2 output
diagnose debug enable #after enough output, disable the debug:
diagnose debug disable
```

To reset a certain VPN connection

```
diag vpn tunnel reset <phase1 name>
```

Defaults

Just a reminder for myself:

```
IP: 192.168.1.99
Login: admin
Password: <blank>
```

Backup and Restore

```
execute backup full-config tftp <full-config-filename> <tftp server ip> Backup command with tftp server
```

```
execute restore config tftp <full-config-filename> <tftp server ip> Restore command with tftp server
```

