

Cheat Sheet

How to Connect

Use Putty to connect to NetScaler's SSH www.putty.org. Login with your NetScaler username and password.

Shell -

You will see some commands starting with '#' – these are shell commands. To enter NetScaler's shell mode (FreeBSD) type "shell", to exit the shell mode type "exit".

CLI Commands

CLI Command	Description
set cli mode -color ON	Adds color to CLI
set cli prompt %u@%h-%T	Adds username, hostname and current time
NetScaler Information	
show version	NetScaler firmware version
show hostname	NetScaler hostname
show hardware	Hardware details including serial number
show interface -summary	NetScaler network interfaces
stat ssl	SSL summary
show node	High Availability (HA) node configuration
# sysctl -a netscaler more	Detailed NetScaler info: description, model, platform, CPUs, etc.
NetScaler Configuration	
show ip	NetScaler IPs: NSIP, SNIP, VIP, MIP
show feature	NetScaler features: available and configured
show ns mode	NetScaler modes: available and configured
show info	NetScaler firmware, NSIP, config data, features and modes
show license	License and licensed features
show run more	Running NetScaler configuration
NetScaler Status	
shell top	NetScaler "Task Manager"
# uptime	Appliance uptime
Networking	
show route	Configured routing table
show ip	Configured IPs: NSIP, SNIP, MIP, VIP
show arp	ARP table
show vlan	Configured VLANs
Networking Tools	
# ping	Ping
# traceroute	Traceroute
# telnet	Telnet

NetScaler CLI - Troubleshooting

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CLI Command	Description
Load Balancing	
show lb vserver more	Load balancing virtual servers list and configuration
show lb vserver <vserver_name>	Load balancing virtual server configuration
show service more	Load balancing services list and configuration
show service <service_name>	Load balancing service configuration
show servicegroup more	Load balancing service groups list and configuration
show servicegroup <servicegroup_name>	Load balancing service group configuration
show monitor more	Load balancing monitors list and configuration
show monitor <monitor_name>	Load balancing monitor configuration
show persistentsessions	Displays current persistent sessions
Authentication	
show vpn vserver more	VPN (including NetScaler Gateway) vservers
show vpn vserver <vpnvserver_name>	Detailed VPN vserver configuration including bound policies, portal theme, bookmarks, STAs, etc.
show aaa session	Displays current authentication sessions
show aaa stats	Authentication statistics
Statistic Data	
stat ns	System overview
stat cpu	CPU usage
stat interface	Network interface state and traffic
stat lb vserver	Load balancing vservers statistic data
stat cs vserver	Content switching vservers statistic data
stat service	Load balancing services statistic data
stat ssl	SSL summary
stat dns	DNS statistics
stat http	HTTP statistics summary

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Troubleshooting Tools

Authentication Troubleshooting - Monitor Authentication Attempts in Real-Time

Switch to the shell prompt:

```
shell
```

Start the debugging process:

```
cat /tmp/aaad.debug
```

Perform the authentication process that requires troubleshooting, such as a user logon attempt.

Monitor the output of the cat **aaad.debug** command to interpret and troubleshoot the authentication process.

Stop the debugging process with **Ctrl + Z**.

You can run the following command to record the output of **aaad.debug** to a log file:

```
cat aaad.debug | tee /var/tmp/<debuglogname.log>
```

Check Policy Hits

Run the following command from the shell prompt of the appliance to view the real-time hits on:

Authentication policies and session policies applied on the NetScaler Gateway virtual server:

```
nsconmsg -d current -g pol_hits
```

Rewrite policy bound at a global level or to a load balancing, content switching, or NetScaler Gateway virtual server:

```
nsconmsg -d current | egrep -i rewrite
```

Responder policy bound at a global level or to a load balancing, content switching, or NetScaler Gateway virtual server:

```
nsconmsg -d current | egrep -i responder
```

If you have any comments or suggestions, please feel free to contact me via [LinkedIn](#), [email](#) or follow me on [Twitter](#).