vRealize Network Insight Command Line Interface Guide

VMware vRealize Network Insight 5.0

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About vRealize Network Insight Command Line Interface User Guide

The vRealize Network Insight Command Line Interface User Guide provides information on Command Line Interface (CLI) to manage the Proxy and Platform configuration. The CLI includes an auto-complete feature that recognizes a command by its initial characters and completes the command when you press the Tab key. Each command has a –h option parameter that provides information on that command.

Intended Audience

This information is intended for administrators or specialists responsible for using the vRealize Network Insight command-line interface. The information is written for experienced virtual machine administrators who are familiar with enterprise management applications and datacenter operations.

Log In to the vRealize Network Insight Command-Line Interface

vRealize Network Insight provides the Command-Line Interface (CLI) login credentials using Secure Socket Shell (SSH) client or the console.

Log into the CLI.

Procedure

1   Type *consoleuser* as the user name.

2   Type *ark1nc0ns0l3* as the password.

Useful Keyboard Shortcuts

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Table 2-1.

Keyboard Shortcut	Function	Example

`ctrl+u`	To undo a complete line (to provide the same effect as `ctrl+c` which has some other specific interpretation in CLI)	`(cli) modify-password system --user foo`
		Using `ctrl+w` in the preceding example results in:
		`(cli)`

`ctrl+w`	To undo words	`(cli) modify-password system --user foo`
		Using `ctrl+u` in the preceding example results in:
		`(cli)modify-password system --user`

vRealize Network Insight CLI Commands

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This reference includes examples for syntax information for each command.

This chapter includes the following topics:

- appliance-reboot

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- custom-cert

- disk-usage

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- update-IP-change

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appliance-reboot

This reference includes examples for syntax information for the `appliance-reboot` command.

Command	Description	Usage	Examples
appliance-reboot	Reboots the appliance	appliance-reboot [-h] {now}	appliance-reboot now

Syntax

Flag	Description
positional arguments: {now}	Used to avoid the accidental invocation.

change-network-settings

Command	Description	Usage	Examples
change-network-settings	Change network configuration of the appliance. It is recommended to use the VM console through vCenter UI for this operation. Note: The appliance is rebooted in the end.	change-network-settings	change-network-settings

Syntax

Flag	Description
none	NA

custom-cert

This reference includes examples for syntax information for the `custom-cert` command.

Command	Description	Usage	Examples
custom-cert	Applies custom certificate for UI access	custom-cert [-h] {copy,apply,list,remove, display}	custom-cert list custom-cert apply custom-cert display custom-cert remove

Syntax

Flag	Description
positional arguments: {copy,apply,list,remove,display}	copy – copies file locally using scp Example of copy: ```\n(cli) custom-cert copy --host "10.1.1.1" --user "adminxyz" --port 22 --path "/tmp/file.crt"\ncli) custom-cert copy --host "10.1.1.1" --user "adminxyz" --port 22 --path "/tmp/file.key"\n``` apply – recertifies the setup with new certificate list – lists custom certificate remove – removes custom certificate display – displays custom certificate details

disk-usage

This reference includes examples for syntax information for the `disk-usage` command.

Command	Description	Usage	Examples
disk-usage	Displays current disk partition disk usage statistics.	disk-usage	disk-usage

help

This reference includes examples for syntax information for the `help` command.

Command	Description	Usage	Examples
help	Displays a list of commands with a short description about their use.	To view the list of commands without short description, use the -a flag.	help help -a

logout

This reference includes examples for syntax information for the `logout` command.

Command	Description	Usage	Examples
logout	Exits from the interactive shell of the CLI.		

log-trace

This reference includes examples for syntax information for the `log-trace` command.

Command	Description	Usage	Examples
log-trace	Displays a list of all log files and also component-specific logs that help during debugging.	log-trace [-h] {list,grep,follow,display}	log-trace list log-trace follow /var/log/arkin/arkin_cli_install.log log-trace grep "ERROR" /var/log/arkin/arkin_cli_install.log log-trace display /var/log/arkin/arkin_cli_install.log 20 (to display last 20 lines)

Syntax

Flag	Description
list	Lists all log files that can be displayed and also lists the component-specific logs. Example: log-trace list
follow	Usage: log-trace [-h] follow <file name> Example: log-trace follow /var/log/arkin/arkin_cli_install.log
grep	Usage: usage: log-trace grep [-h] pattern filename Example: log-trace grep "ERROR" /var/log/arkin/arkin_cli_install.log
display	Usage: usage: log-trace display [-h] filename numlines Example: log-trace display /var/log/arkin/arkin_cli_install.log 20 (to display last 20 lines)

modify-password

You can use the `modify-password` command to reset the password of the UI or the system user.

Command	Description	Usage	Examples
modify-password	Reset the password of the UI or the system user `(cli) modify-password [-h]`	`modify-password [-h]` `{system, ui}`	`modify-password system` `modify-password ui`

Table 3-1. Syntax

Flag	Description
`positional arguments: {system, ui}`	Example invocations: `modify-password ui [-h] --user USER`
`optional arguments: -h, --help`	`modify-password system [-h] --user {support,consoleuser}`

nslookup

This reference includes examples for syntax information for the `nslookup` command.

Command	Description	Usage	Examples
nslookup	Queries the Internet name servers interactively.	`nslookup FQDN`	`nslookup example.com`

Syntax

Flag	Description
`fqdn`	Server name to query such as `example.com`.

Related Commands

Command	Description
`ping`	Pings a machine.
`telnet`	Tests whether a specific TCP port is open.
`traceroute`	Prints route IP packets sent to a remote host.

ntp

This reference includes examples for syntax information for the `ntp` command.

Command	Description	Usage	Examples
ntp show	To show the current configuration and status		`ntp set --ip-fqdn` `"a.b.me,x.y.z.local"`
ntp sync	To force the sync		

Command	Description	Usage	Examples
`ntp set`	To reset the servers		
`ntp diagnose`	To print debug data		

Syntax

Flag	Description
`positional arguments: ip-fqdn`	IP/FQDN of the NTP server

offline-registration

This reference includes examples for syntax information for the `offline-registration` command.

Command	Description	Usage	Examples
`offline-registration`	It is used in the following conditions: 1 VMware support asks for remote secure support tunnel to this environment or the online upgrade is requested. 2 There is no internet connection from the appliance or the selective endpoints are open in an external firewall. It generates the offline registration request which is required for `svc.ni.vmware.com:443` and `support.ni.vmware.com:443` connectivity. For more details on these endpoints and services, refer to "Which services of vRealize Network Insight need Internet access and why?" in *vRealize Network Insight FAQs*.		`offline-registration apply-response "response-text-from-support"`

Syntax

Flag	Description
`positional arguments: {generate-request,apply-response}` sub-command help `response`	`generate-request`: Generates an encrypted request to be sent to VMware support. `apply-response`: Apply the encrypted response from the VMware support. `response`: Response string provided by the VMware support.
`optional arguments: -h, --help`	Show this `help` message and exit.

ping

This reference includes examples for syntax information for the `ping` command.

Command	Description	Usage	Examples
ping	Pings a host.	ping host	ping example.com

Syntax

Flag	Description
host	IP address or FQDN of the host to ping.

Related Commands

Command	Description
nslookup	Queries Internet name servers interactively.
telnet	Tests whether a specific TCP port is open.
traceroute	Prints route IP packets sent to a remote host.

telnet

This reference includes examples for the syntax information for the `telnet` command.

Command	Description	Usage	Examples
telnet	Test whether a specific TCP port is open. This command is for the interactive communication with the host on a particular port number. PORT is an optional parameter. You must provide a host other than localhost or 127.0.0.1.	telnet host port	telnet 192.168.0.59 80 telnet example.com 80

Syntax

Flag	Description
host	IP address or FQDN of the host to ping.
port	Port number of the host.

Related Commands

Command	Description
nslookup	Queries Internet name servers interactively.
telnet	Tests whether a specific TCP port is open.
traceroute	Prints route IP packets sent to a remote host.

services

This reference includes examples for the syntax information for the `services` command.

Command	Description	Usage	Examples
services	Starts, stops, or restarts vRealize Network Insight services.	services {start,stop,restart} {all,launcher-service,nginx,ntp}	services start all services start nginx services stop nginx services restart ntp

Syntax

Flag	Description
start | stop | restart	Starts, stops, or restarts the appliance service based on the parameter that you pass.
all | launcher-service | nginx | ntp	Initiates the action for a particular service or for all services.

set-banner

This reference includes examples for the syntax information for the `set-banner` command.

Command	Description	Usage	Examples
set-banner	Sets the ssh banner. Sets the post-login banner for consoleuser.	set-banner [-h] {support,consoleuser} banner	set-banner support "Text" set-banner consoleuser "Text"

Syntax

Flag	Description

`positional arguments:`
`{support,consoleuser}`
`  banner`
 	
`Quoted text with \n for new line`
	Example invocations:
	
	`(cli) set-banner support "This is a ssh banner.\nRestricted access only!!"`
	`Successfully set banner!`
	`(cli) set-banner consoleuser "This is a post-login banner for consoleuser"`
	`Successfully set banner!`
	`(cli) logout`
	
	`# ssh support@10.126.55.193`
	`This is a ssh banner.`
	`Restricted access only!!`
	`support@10.126.55.193's password:`
	
	`# ssh consoleuser@10.126.55.193`
	`This is a ssh banner.`
	`Restricted access only!!`
	`consoleuser@10.126.55.193's password:`
	`This is a post-login banner for consoleuser`
	`(cli)`

set-proxy-shared-secret

This reference includes examples for the syntax information for the `set-proxy-shared-secret` command.

Command	Description	Examples
`set-proxy-shared-secret`	Configures the platform IP only on the Proxy VM. .	`set-proxy-shared-secret {secret}`

Syntax

Flag	Description
`secret`	Secret key that the platform interface generates.

setup

This reference includes examples for the syntax information for the `setup` command.

Command	Description	Usage	Examples
`setup`	Used for first time appliance configuration. After deployment when VM is powered on for first time user must use this command to initialize the appliance through VM console.	`setup`	`setup`

Syntax

Flag	Description
–	No parameters

set-web-proxy

This reference includes examples for the syntax information for the `set-web-proxy` command.

Command	Description	Usage	Examples
set-web-proxy	Enables or disables the Web proxy or shows the status of the Web proxy.	set-web-proxy [--ip IP] [--port PORT] {enable,disable,show}	set-web-proxy enable --ip-fqdn "x.y.local" --port 8080 --authtype AUTHTYPE

Syntax

Flag	Description
--ip	IP address to enable the Web proxy.
--port	Port number to enable the Web proxy.
enable | disable | show	Enables or disables or displays the configuration settings.
--authtype	This is optional parameter. Supported authentication types are NTLM or basic. **Note** HTTPS web proxy is not supported yet.

show-service-status

This reference includes examples for the syntax information for the `show-service-status` command.

Command	Description	Usage	Examples
show-service-status	Shows the status of all vRealize Network Insight services running on the platform or proxy VMs.	show-service-status {debug, cluster}	PLATFORM- (cli) show-service-status ElasticSearch is running. HMaster is running. HRegionServer is running. Kafka is running. QuorumPeerMain is running. QuorumPeerMain is running. ResourceManager is running. NodeManager is running. restapilayer is running. SaasListener is running. SamzaAppMaster is running. SamzaContainer is running. Launcher is running. postgresql is running. nginx is running. patroni is running. QuorumPeerMain is running. All required services are running. QuorumPeerMain is running. QuorumPeerMain is running. QuorumPeerMain is running. QuorumPeerMain is running. PROXY- (cli) show-service-status CollectorMain is running. IpfixProcessor is running. postgresql is running. nginx is running. nfcapd is running.

Syntax

Flag	Description
debug | cluster	debug - displays the health of the services cluster - displays the service status of each node in the cluster

show-version

This reference includes examples for the syntax information for the show-version command.

Command	Description
Show-version	Displays the current version.

Table 3-2. Usage

Command	Description
show-version	Shows the current vRealize Network Insight version.
show-version history	Shows upgrade and patch history.

support-tunnel

This reference includes examples for the syntax information for the support-tunnel command.

Command	Description	Usage	Examples
support-tunnel	Enables, disables, or shows the status of the support tunnel.	support-tunnel {enable,disable,status}	support-tunnel enable support-tunnel disable support-tunnel status

Syntax

Flag	Description
enable | disable | status	Provides the status or enables or disables the support tunnel.

show-config

This reference includes examples for the syntax information for the show-config command.

Command	Description	Usage	Examples
show-config	Shows the CLI configurations. Displays the CLI console banner, network configurations, and OVA parameters.	show-config	(cli) show-config network configurations: IP Address: 192.168.21.55 Netmask: 255.255.255.0 Gateway: 192.168.21.1 DNS nameservers: 4.2.2.4 8.8.8.8 Domain Search list: arkin.net NTP servers: 0.pool.ntp.org 1.pool.ntp.org 2.pool.ntp.org 3.pool.ntp.org

show-connectivity-status

This reference includes examples for the syntax information for the show-connectivity-status command.

Command	Description	Examples

`show-connectivity-status`	Displays the connectivity status with all systems.	`(cli) show-connectivity-status`
		
		`Platform VM`
		`Deployment UUID: U12xx08ba-d62e-4745-b73c-9eef6ca9f0b1`
		`Deployment ID: DXX11XX`
		`Instance ID: IXXX11X`
		`Created On: Fri May 19 11:47:23 UTC 2017 (1495194443)`
		
		`IP Address: 10.126.102.231`
		`Netmask: 255.255.252.0`
		`Gateway: 10.126.103.253`
		`DNS nameservers: 10.148.20.5 10.148.20.6`
		`NTP servers: time.vmware.com`
		`NTP status: InSync [10.113.60.176/2/377]`
		
		`Gateway ping status: Success`
		`Upgrade connectivity status (svc.ni.vmware.com:443): Passed`
		`Support connectivity status (support2.ni.vmware.com:443): Enabled`
		`Logserver connectivity status (log.ni.vmware.com:443): Passed`
		`Registration connectivity status (reg.ni.vmware.com:443): Passed`
		`Registration status: Registered`

ssh-service

This command enables or disables the SSH service.

Command	Description	Usage	Examples

`ssh-service`	Enables or disables the SSH service	`ssh-service [-h] {status,enable,disable}`	`ssh-service status`
			`ssh-service enable`
			`ssh-service disable`

Table 3-3. Syntax

Flag	Description
`enable	disable	status`	Enables or disables the service or provides the status of the service.

support-bundle

This reference includes examples for syntax information for the `support-bundle` command.

Command	Description	Usage	Examples
`support-bundle`	Provides support related logs for debugging.	`support-bundle [-h] {list,create,delete,copy }`	

Syntax

Flag	Description
`list`	Lists all support bundles created so far. Example: `support-bundle list`
`create`	Creates a support bundle to be shared for debugging. Example: `support-bundle create`

`delete`	Deletes specific or all bundle files.
	Example:
	`To delete a specific bundle file:`
	`support-bundle delete --bundle DOAUAAO-IOAUACW-07252016-162328`
	`To delete all bundle files:`
	`support-bundle delete`

`copy`	SCP to any host for sharing with the support team.
	Example:
	`support-bundle copy --user support --ip 192.168.1.1 --port 22 --bundle`
	`DOAUAAO-IOAUACW-07252016-162328 --targetpath /tmp`

`telemetry`

This reference includes examples for syntax information for the `telemetry` command.

Command	Description	Usage	Examples

`telemetry`	Enables, disables, or shows the status of the system health data collection
	.
		`telemetry {enable,disable,show}`	`telemetry enable`
			`telemetry disable`
			`telemetry show`

Table 3-4. Syntax

Flag	Description
`enable | disable | show`	Provides the status or enables or disables the system health data collection.

`tool-manager`

This reference includes examples for syntax information for the `tool-manager` command.

Command	Description
`tool-manager`	Helps to run the tool

Table 3-5. Usage

Command	Description
`tool-manager copy scp --host <IP> --user <username> --path <tool bundle file absolute path>`	Copy the tool bundle to vRealize Network Insight Platform/Proxy
`tool-manager run --name <tool name>`	Run the tool
`tool-manager run [-h] --name <tool name>`	
`tool-manager copy url`	

Table 3-6. Example

Command
`tool-manager copy scp --host 192.168.21.18 --user ubuntu --path /home/ubuntu/patch-online-upgrade-3.0.0_201609151002.bundle`
`tool-manager run --name patch-online-upgrade-3.0.0_201609151002`
`tool-manager copy url https://bundle-hosting-url.com/patch.bundle`

Syntax

Flag	Description
`--host`	IP address, where upgrade bundle is downloaded from VMware download portal. Upgrade bundle should be downloaded on any Linux machine from where the bundle can be scp to vRealize Network Insight Platform or Proxy.
`--user`	User, who can be used to authenticate the Linux machine.
`--path`	Source path where the bundle is downloaded from VMware portal on Linux Machine.
`--port`	(Optional) - In case ssh port on Linux machine running other than port 22.

traceroute

This reference includes examples for syntax information for the `traceroute` command.

Command	Description	Usage	Example
`traceroute`	Prints route IP packets sent to a remote host for the host that you provide as the parameter.	`traceroute host`	`traceroute examples.com`

Syntax

Flag	Description
`host`	Name of the host such as `example.com`.

Related Commands

Command	Description
nslookup	Queries Internet name servers interactively.
telnet	Tests whether a specific TCP port is open.
traceroute	Prints route IP packets sent to a remote host.

update-IP-change

This reference includes examples for syntax information for the update-IP-change command.

Command	Description	Usage	Examples
update-IP-change	Update Platform configuration after IP Address change on other Platforms in a cluster	update-IP-change [-h] old_ip new_ip	update-IP-change 192.168.1.10 192.168.1.100

Syntax

Flag	Description
old_ip	Old IP of Platform
new_ip	New IP of Platform

log-insight

This reference includes examples for the syntax information for the log-insight command.

Table 3-7. Command

Command	Description
log-insight	Configures and pushes various logs to the Log Insight server.

Table 3-8. Syntax

Flag	Description
show	Shows the configured Log Insight agent and status
set --ip-fqdn <IP> --port <PORT> --tags <"KEY=VALUE">	Configures/resets and enables the Log Insight agent. Mandatory flag: --ip-fqdn Optional flag: --port <PORT> --tags <"KEY=VALUE"> If you do not specify port and tags values, then defaults values are selected. Default port value is 9543.
enable	Starts the Log Insight agent.
disable	Stops the Log Insight agent.
diagnose -n <NUMBERS OF LINES>	Displays Log Insight agent logs.

Table 3-9. Example

Usage	Examples

`log-insight set --ip-fqdn=<IP> --port =<PORT> --tags <"KEY=VALUE">`
 	
or
 	
`log-insight set --ip-fqdn <IP> --port <PORT> --tags <"KEY=VALUE">`
	`log-insight set --ip-fqdn=172.1.1.1 --port=8080 --tags="type=onPrem,domain=us"`
	
	or
	
	`log-insight set --ip-fqdn 172.1.1.1 --port 8080 -tags "type=onPrem,domain=us"`

`log-insight show`	`log-insight show`
`log-insight enable`	`log-insight enable`
`log-insight disable`	`log-insight disable`
`log-insight diagnose -n <NUMBERS OF LINES>`	`log-insight diagnose --n 50`

vrni-proxy

This reference includes examples for the syntax information for the `vrni-proxy` command.

Command	Description
`vrni-proxy`	Checks the current pairing status with Platform or updates Platform's IP/FQDN if it is changed. **Note** You cannot point an existing Collector to a new Platform.

Table 3-10. Syntax

Flag	Description
`set-platform`	Resets updated Platform IP/FQDN.
`platform-pair-status`	Shows Platform and Collector pairing status.

Table 3-11. Example

Command	Sample Query
For ONPREM: `vrni-proxy set-platform --ip-or-fqdn <IP address>`	`vrni-proxy set-platform --ip-or-fqdn 192.168.10.12`
For SaaS: `vrni-proxy set-platform --ip-or-fqdn <FQDN>`	`vrni-proxy set-platform --ip-or-fqdn platform.exampledomain.com`
`vrni-proxy platform-pair-status`	`vrni-proxy platform-pair-status`