vRealize Network Insight Command Line Interface Guide

VMware vRealize Network Insight 3.5

vmware®

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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 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.

VMware Technical Publications Glossary

VMware Technical Publications provides a glossary of terms that might be unfamiliar to you. For definitions of terms as they are used in VMware technical documentation, go to http://www.vmware.com/support/pubs.

Log in to the vRealize Network Insight CLI

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

Log into the command line interface.

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

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

vRealize Network Insight CLI Commands

<div style="text-align:right; font-size:3em; font-weight:bold; color:gray;">3</div>

This reference includes examples for syntax information for each command.

This chapter includes the following topics:

appliance-reboot

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

Table 3-1. appliance-reboot

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 accidental invocation.

custom-cert

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

Table 3-2. custom-cert

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:
	`(cli) custom-cert copy --host "10.1.1.1" --user "adminxyz" --port 22 --path "/tmp/file.crt"` `cli) custom-cert copy --host "10.1.1.1" --user "adminxyz" --port 22 --path "/tmp/file.key"`
	apply – recertifies 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 `disk-usage` command.

Table 3-3. disk-usage

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 `help` command.

Table 3-4. help

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 `logout` command.

Table 3-5. logout

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

log-trace

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

Table 3-6. log-trace

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

The `modify-password` command is used to reset the password of the UI or the system user.

Table 3-7. modify-password

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 3-8. Syntax

Flag	Description

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

nslookup

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

Table 3-9. nslookup

Command	Description	Usage	Examples
`nslookup`	Queries 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.

offline-registration

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

Table 3-10. offline-registration

Command	Description	Usage	Examples
`offline-registration`	Generates offline registration request and applies provided response	`offline-registration -h`	`offline-registration`
`offline-registration apply-response -h`	To apply response, you have to pass the response	`offline-registration apply-response [-h] response`	

Syntax

Flag	Description
`positional arguments:` `{generate-request,apply-response}` sub-`command help` `response`	generate-request: output data needed to give to vmware support apply-response: apply response from vmware support response: Response string provided by VMware support
`optional arguments: -h, --help`	show this help message and exit

package-installer

This reference includes examples for syntax information for `package-installer` command.

Table 3-11. package-installer

Command	Description
`package-installer`	Manage upgrade (offline) .

Table 3-12. Usage

Command	Description
`package-installer copy --host <IP> --user <username> --path <bundle file absolute path>`	Copy the bundle to vRNI Platform/Proxy .
`package-installer upgrade -h --name`	Run the upgrade

Table 3-13. Example

Command
`package-installer copy --host 192.168.21.22 --user ubuntu --path /home/ubuntu/VMWare-vRNI.3.1.0.1473143945.upgrade.bundle`
`package-installer upgrade [-h] --name NAME`

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.

ping

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

Table 3-14. ping

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 syntax information for `telnet` command.

Table 3-15. ping

Command	Description	Usage	Examples
telnet	Test whether a specific TCP port is open. This command is for 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 syntax information for services command.

Table 3-16. services

Command	Description	Usage	Examples
services	Starts, stops, or restarts vRealize Network Insight services.	services {start,stop,restart}	services start services stop services restart

Syntax

Flag	Description
start | stop | restart	Starts, stops, or restarts the appliance service based on the parameter that you pass.

set-banner

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

Table 3-17. set-banner

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 syntax information for `set-proxy-shared-secret` command.

Table 3-18. set-proxy-shared-secret

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 syntax information for `setup` command.

Table 3-19. setup

Command	Description	Usage	Examples
`setup`	Sets up the network configuration. This command works in two modes: no arguments (default interactive) and with-ova-params. In the default interactive mode, no parameters are specified and multiple questions appear. In the with-ova-params mode, the command runs with parameters specified during OVA deployment. You can only change the IP address before the pairing of the Platform and Proxy. If the gateway IP subnet changes, you might need to reboot the VM.	`setup [{with-ova-params}]`	`setup` `setup with-ova-params`

Syntax

Flag	Description
–	No parameters
	Running setup: Interactive Mode.
	Running setup: Interactive Mode.
	Warning!!!: Only selective configuration can be changed (y/n):y
	ovaops: configure deployed state
	Currently IP_Address = 192.168.21.56 , keep this (y/n)? [y]: n
	Enter new IP_Address (e.g. 192.168.0.10): 192.168.21.50
	Currently Netmask = 255.255.255.0 , keep this (y/n)? [y]: y
	Currently Default_Gateway = 192.168.21.1 , keep this (y/n)? [y]: y
	Currently DNS = 4.2.2.4 8.8.8.8 , keep this (y/n)? [y]: y
	Currently Domain_Search = [None] , keep this (y/n)? [y]: y
	Currently NTP = 0.pool.ntp.org 1.pool.ntp.org 2.pool.ntp.org 3.pool.ntp.org , keep this (y/n)? [y]: y
	Currently Rsyslog_IP = [None] , keep this (y/n)? [y]: y
	Currently Web_Proxy_IP = [None] , keep this (y/n)? [y]: y
	Currently Web_Proxy_Port = [None] , keep this (y/n)? [y]: y
	Currently Log_Push = True , keep this (y/n)? [y]: y
	y
	--
	Received below values:
	--
	IP_Address = 192.168.21.50
	Netmask = 255.255.255.0
	Default_Gateway = 192.168.21.1
	DNS = 4.2.2.4 8.8.8.8
	Domain_Search = [None]
	NTP = 0.pool.ntp.org 1.pool.ntp.org 2.pool.ntp.org 3.pool.ntp.org
	Rsyslog_IP = [None]
	Web_Proxy_IP = [None]
	Web_Proxy_Port = [None]
	Log_Push = True
	Configure and save configuration (y/n) [y]: n
with–ova–params	Uses parameters passed during OVA deployment

set-web-proxy

This reference includes examples for syntax information for set–web–proxy command .

Table 3-20. set-web-proxy

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

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.

show-service-status

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

show-service-status

Command	Description	Usage	Examples
show–service–status	Shows the status of all vRealize Network Insight services running on the PLATFORM or PROXY VMs.		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.

show-version

This reference includes examples for syntax information for show–version command.

Table 3-21. tool-manager

Command	Description
tool–manager	Displays current version .

Table 3-22. Usage

Command	Description
show-version	Show current vRealize Network Insight version .

support-tunnel

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

Table 3-23. nslookup

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 syntax information for show-config command.

Table 3-24. show-config

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 syntax information for `show-connectivity-status` command.

Table 3-25. show-connectivity-status

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

Enables or disables the service.

Table 3-26. ssh-service

Command	Description	Usage	Examples
ssh-service	Enable or disable SSH service	ssh-service [-h] {status,enable,disable}	ssh-service status ssh-service enable ssh-service disable

Table 3-27. 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 support-bundle command.

Table 3-28. support-bundle

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 telemetry command.

Table 3-29. telemetry

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 3-30. 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 `tool-manager` command.

Table 3-31. tool-manager

Command	Description
tool-manager	Helps to run tool

Table 3-32. Usage

Command	Description
tool-manager copy --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 tool
tool-manager run [-h] --name <tool name>	
tool-manager copy url	

Table 3-33. Example

Command
tool-manager copy --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 `traceroute` command.

Table 3-34. traceroute

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 update-IP-change command.

Table 3-35. update IP change

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

vrni-proxy

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

Table 3-36. vrni-proxy

Command	Description
vrni-proxy	vRealize Network Insight proxy managing utility .

Table 3-37. Example

Command
ONSAAS: vrni-proxy set-platform --ip-or-fqdn 192.168.10.12
ONPREM: vrni-proxy set-platform --ip-or-fqdn platform.exampledomain.com
vrni-proxy platform-pair-status

Table 3-38. Syntax

Flag	Description
--ip-or-fqdn	Provide IP Address if Platform is onprem Provide FQDN if Platform is onsaas

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