

vRealize Network Insight Command Line Interface Guide

VMware vRealize Network Insight 4.1



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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

1

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

2

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

3

This reference includes examples for syntax information for each command.

This chapter includes the following topics:

- `appliance-reboot`
- `change-network-settings`
- `custom-cert`
- `disk-usage`
- `help`
- `logout`
- `log-trace`
- `modify-password`
- `nslookup`
- `ntp`
- `offline-registration`
- `ping`
- `telnet`
- `services`
- `set-banner`
- `set-proxy-shared-secret`
- `setup`
- `set-web-proxy`
- `show-service-status`
- `show-version`
- `support-tunnel`
- `show-config`

- [show-connectivity-status](#)
- [ssh-service](#)
- [support-bundle](#)
- [telemetry](#)
- [tool-manager](#)
- [traceroute](#)
- [update-IP-change](#)
- [vrni-proxy](#)

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: | Used to avoid the accidental invocation. {now} |

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 – copies file locally using scp |
| {copy,apply,list,remove,display} | 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 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: |
| optional arguments: -h, --help | modify-password ui [-h] --user USER |
| | 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 | | |
| ntp set | To reset the servers | | |
| ntp diagnose | To print debug data | | |

Syntax

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

offline-registration

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

| Command | Description | Usage | Examples |
|----------------------|---|-------|--|
| offline-registration | <p>It is used in the following conditions:</p> <ol style="list-style-type: none"> 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. <p>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 <i>vRealize Network Insight FAQs</i>.</p> | | <p>offline-registration apply-response "response-text-from-support"</p> |

Syntax

| Flag | Description |
|---|---|
| positional arguments: | |
| {generate-request, apply-response} sub-command help | <p>generate-request: Generates an encrypted request to be sent to VMware support.</p> <p>apply-response: Apply the encrypted response from the VMware support.</p> <p>response: Response string provided by the VMware support.</p> |
| 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. |
| tracert | 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. |
| tracert | 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 | <p>Example invocations:</p> <pre>(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)</pre> |

set-proxy-shared-secret

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

| Command | Description | Examples |
|--------------------------------------|--|---|
| <code>set-proxy-shared-secret</code> | Configures the platform IP only on the Proxy VM. | <code>set-proxy-shared-secret {secret}</code> |

Syntax

| Flag | Description |
|---------------------|---|
| <code>secret</code> | Secret key that the platform interface generates. |

setup

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

| Command | Description | Usage | Examples |
|--------------------|---|--------------------|--------------------|
| <code>setup</code> | 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. | <code>setup</code> | <code>setup</code> |

Syntax

| Flag | Description |
|----------------|---------------|
| <code>-</code> | No parameters |

set-web-proxy

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

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

Syntax

| Flag | Description |
|--|---|
| <code>--ip</code> | IP address to enable the Web proxy. |
| <code>--port</code> | Port number to enable the Web proxy. |
| <code>enable</code> <code>disable</code> <code>show</code> | Enables or disables or displays the configuration settings. |

show-service-status

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

| Command | Description | Usage | Examples |
|----------------------------------|---|--|---|
| <code>show-service-status</code> | Shows the status of all vRealize Network Insight services running on the platform or proxy VMs. | <code>show-service-status</code> { <code>debug</code> , <code>cluster</code> } | <p>PLATFORM-</p> <pre>(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.</pre> |

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 |
|--------------|-----------------------------------|
| tool-manager | Displays the current version . |

Table 3-2. Usage

| Command | Description |
|--------------|---|
| show-version | Shows the current vRealize Network Insight version . |

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. | <pre>(cli) show-connectivity-status</pre> <div> 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) </div> <div> 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] </div> <div> 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 </div> |

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 |
|------------------------|---|--|--|
| <code>telemetry</code> | Enables, disables, or shows the status of the system health data collection | <code>telemetry {enable,disable,show}</code> | <code>telemetry enable</code> <code>telemetry disable</code> <code>telemetry show</code> |

Table 3-4. Syntax

| Flag | Description |
|--------------------------------------|---|
| <code>enable disable show</code> | 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 |
|---------------------------|-----------------------|
| <code>tool-manager</code> | Helps to run the tool |

Table 3-5. Usage

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

Table 3-6. Example

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

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 |

vrni-proxy

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

| Command | Description |
|-------------------------|---|
| <code>vrni-proxy</code> | It is the proxy managing utility of vRealize Network Insight. |

Table 3-7. Example

| Command |
|---|
| ONSAAS: <code>vrni-proxy set-platform --ip-or-fqdn 192.168.10.12</code> |
| ONPREM: <code>vrni-proxy set-platform --ip-or-fqdn platform.exempldomain.com</code> |
| <code>vrni-proxy platform-pair-status</code> |

Table 3-8. Syntax

| Flag | Description |
|---------------------------|---|
| <code>--ip-or-fqdn</code> | Provides IP Address if the platform is on premises. Provide FQDN if the platform is on SAAS. |