

# vRealize Network Insight Command Line Interface Guide

VMware vRealize Network Insight 3.6



vmware®

You can find the most up-to-date technical documentation on the VMware website at:

<https://docs.vmware.com/>

If you have comments about this documentation, submit your feedback to

[docfeedback@vmware.com](mailto:docfeedback@vmware.com)

**VMware, Inc.**  
3401 Hillview Ave.  
Palo Alto, CA 94304  
[www.vmware.com](http://www.vmware.com)

Copyright © 2017 VMware, Inc. All rights reserved. [Copyright and trademark information.](#)

# Contents

About vRealize Network Insight Command Line Interface User Guide	4
<b>1</b> Log In to the vRealize Network Insight Command-Line Interface	5
<b>2</b> Useful Keyboard Shortcuts	6
<b>3</b> vRealize Network Insight CLI Commands	7
appliance-reboot	8
cluster expand	8
custom-cert	9
disk-usage	10
help	10
logout	10
log-trace	10
modify-password	11
nslookup	11
ntp	12
offline-registration	12
package-installer	13
ping	13
telnet	14
services	14
set-banner	15
set-proxy-shared-secret	16
setup	16
set-web-proxy	17
show-service-status	17
show-version	18
support-tunnel	19
show-config	19
show-connectivity-status	19
ssh-service	20
support-bundle	20
telemetry	21
tool-manager	21
traceroute	22
update-IP-change	23
vrni-proxy	23

# 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.

## 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 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

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

# vRealize Network Insight CLI Commands

# 3

This reference includes examples for syntax information for each command.

This chapter includes the following topics:

- [appliance-reboot](#)
- [cluster expand](#)
- [custom-cert](#)
- [disk-usage](#)
- [help](#)
- [logout](#)
- [log-trace](#)
- [modify-password](#)
- [nslookup](#)
- [ntp](#)
- [offline-registration](#)
- [package-installer](#)
- [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
<code>appliance-reboot</code>	Reboots the appliance	<code>appliance-reboot [-h] {now}</code>	<code>appliance-reboot now</code>

### Syntax

Flag	Description
<code>positional arguments:</code>	Used to avoid the accidental invocation. <code>{now}</code>

## cluster expand

This reference includes examples for the syntax information for the `cluster expand` command.



Command	Description	Usage	Examples
cluster expand	Expand the cluster up to 10 nodes	cluster [-h] {expand}	<p>cluster expand</p> <p>Enter number of new nodes to be added to cluster (between 1 and 7): 3</p> <p>Enter IP Address of node-1: &lt;Node1-IP Address&gt;</p> <p>Enter support user password of node-1:</p> <p>Enter IP Address of node-2: &lt;Node2-IP Address&gt;</p> <p>Enter support user password of node-2:</p> <p>Enter IP Address of node-3: &lt;Node3-IP Address&gt;</p> <p>Enter support user password of node-3:</p>

## 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}	<p>custom-cert list</p> <p>custom-cert apply</p> <p>custom-cert display</p> <p>custom-cert remove</p>

### Syntax

Flag	Description
positional arguments:	copy – copies file locally using scp
{copy,apply,list,remove,display}	<p>Example of copy:</p> <pre>(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"</pre> <p>apply – recertifies the setup with new certificate</p> <p>list – lists custom certificate</p> <p>remove – removes custom certificate</p> <p>display – displays custom certificate details</p>

## disk-usage

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

Command	Description	Usage	Examples
<code>disk-usage</code>	Displays current disk partition disk usage statistics.	<code>disk-usage</code>	<code>disk-usage</code>

## help

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

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

## logout

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

Command	Description	Usage	Examples
<code>logout</code>	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
<code>log-trace</code>	Displays a list of all log files and also component-specific logs that help during debugging.	<code>log-trace [-h]</code> {list,grep, follow, display}	<code>log-trace list</code> <code>log-trace follow /var/log/arkin/arkin_cli_install.log</code> <code>log-trace grep "ERROR" /var/log/arkin/arkin_cli_install.log</code> <code>log-trace display /var/log/arkin/arkin_cli_install.log 20</code> (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 modify-password system [-h] --user {support,consoleuser}
optional arguments: -h, --help	

## 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.
tracert	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	Generates the offline registration request and applies the provided response. This is used in the environments with no internet connectivity to securely connect to remote services like support when the selective access is provided.	offline-registration -h	offline-registration
offline-registration apply-response -h	Applies the encrypted response from VMware support	offline-registration apply-response [-h] response	

## 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.

## package-installer

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

Command	Description
package-installer	Manage the upgrade (offline)

**Table 3-2. Usage**

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

**Table 3-3. 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 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>	<p>Sets up the network configuration. This command works in two modes: no arguments (default interactive) and <code>with-ova-params</code>. In the default interactive mode, no parameters are specified and multiple questions appear. In the <code>with-ova-params</code> mode, the command runs with parameters specified during the OVA deployment.</p> <p>You can only change the IP address before the pairing of the Platform and the Proxy server. If the gateway IP subnet changes, you have to reboot the VM.</p>	<code>setup [{with-ova-params}]</code>	<code>setup</code> <code>setup with-ova-params</code>

### Syntax



Flag	Description
-	<p>No parameters</p> <p>Running setup: Interactive Mode.</p> <p>Warning!!!: Only selective configuration can be changed (y/n):y</p> <p>ovaops: configure deployed state</p> <p>Currently IP_Address = 192.168.21.56 , keep this (y/n)? [ y ]: n</p> <p>Enter new IP_Address (e.g. 192.168.0.10): 192.168.21.50</p> <p>Currently Netmask = 255.255.255.0 , keep this (y/n)? [ y ]: y</p> <p>Currently Default_Gateway = 192.168.21.1 , keep this (y/n)? [ y ]: y</p> <p>Currently DNS = 4.2.2.4 8.8.8.8 , keep this (y/n)? [ y ]: y</p> <p>Currently Domain_Search = [None] , keep this (y/n)? [ y ]: y</p> <p>Received below values:</p> <p>IP_Address = 192.168.21.50</p> <p>Netmask = 255.255.255.0</p> <p>Default_Gateway = 192.168.21.1</p> <p>DNS = 4.2.2.4 8.8.8.8</p> <p>Domain_Search = [None]</p> <p>Configure and save configuration (y/n) [ y ]: n</p>
with-ova-params	Uses parameters passed during the OVA deployment

## 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

### 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 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}	<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 3-4. 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 3-5. 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 3-6. 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 3-7. 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 3-8. 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.
tracert	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
vrni-proxy	It is the proxy managing utility of vRealize Network Insight.

**Table 3-9. Example**

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

**Table 3-10. Syntax**

Flag	Description
--ip-or-fqdn	Provides IP Address if the platform is on premises. Provide FQDN if the platform is on SAAS.