

# Installing vRealize Network Insight

VMware vRealize Network Insight 3.3

**vmware**<sup>®</sup>

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

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

The VMware Web site also provides the latest product updates.

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

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

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

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

# Contents

About vRealize Network Insight Installation Guide	5
<b>1</b> Preparing for Installation	7
System Requirements	7
Supported Products and Versions	8
Prerequisites	9
<b>2</b> Installing vRealize Network Insight	11
Installation Workflow	11
Deploying vRealize Network Insight Platform OVA	12
Activating the License	14
Generating Shared Secret	14
Setting up vRealize Network Insight Proxy Virtual Appliance (OVA)	14
Deploy Additional Proxy to an Existing Setup	16
Default Login Credentials	17
NSX Assessment Mode for Evaluation License	17
Add vCenter Server	17
Analyze Traffic Flows	17
Generate a Report	18
Adding Data Sources	18
Index	19



# About vRealize Network Insight Installation Guide

---

The *vRealize Network Insight Installation Guide* is intended for administrators or specialists responsible for installing vRealize Network Insight.

## Intended Audience

This information is intended for administrators or specialists responsible for installing vRealize Network Insight. 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>.



# Preparing for Installation

---

Before you install vRealize Network Insight, prepare the deployment environment to meet the system requirements.

This chapter includes the following topics:

- [“System Requirements,”](#) on page 7
- [“Supported Products and Versions,”](#) on page 8
- [“Prerequisites,”](#) on page 9

## System Requirements

Ensure that the system meets the minimum hardware configurations to install vRealize Network Insight.

### Minimum resource requirements

- vRealize Network Insight Platform OVA
  - 8 cores - Reservation 4096 Mhz
  - 32 GB RAM - Reservation - 16GB
  - 750 GB - HDD, Thin provisioned
- vRealize Network Insight Proxy OVA
  - 4 cores - Reservation 2048 Mhz
  - 10 GB RAM - Reservation - 5GB
  - 150 GB - HDD, Thin provisioned

### To configure and use IPFIX

- vCenter Server Credentials with privileges:
  - Distributed Switch: Modify
  - dvPort group: Modify
- The predefined roles in the vCenter server must have the following privileges:
  - System.Anonymous
  - System.Read
  - System.View

## Software Requirements

- Google Chrome or Mozilla Firefox Web browser

## Supported Products and Versions

vRealize Network Insight support several products and versions.

Environment	Version/Model	Description
VMware vSphere	<ul style="list-style-type: none"> <li>■ vSphere 5.5 (up to U3)</li> <li>■ vSphere 6.0 (up to U2)</li> <li>■ vSphere 6.5</li> </ul> For IPFIX, VMware ESXi version needed: <ul style="list-style-type: none"> <li>■ 5.5 Update 2 (Build 2068190) and above</li> <li>■ 6.0 Update 1b (Build 3380124) and above</li> <li>■ VMware VDS 5.5 and above</li> </ul> <b>NOTE</b> vmttools should be installed on all the Virtual Machines in the data center to identify the VM to VM path.	Data provider connects to VMware vCenter over HTTPS to fetch virtual environment information.
VMware NSX	<ul style="list-style-type: none"> <li>■ 6.3 (up to 6.3.1)</li> <li>■ 6.2 (up to 6.2.6)</li> <li>■ 6.1 (up to 6.1.7)</li> <li>■ 6.0</li> </ul>	The data provider connects: <ul style="list-style-type: none"> <li>■ VMware NSX Manager over HTTPS</li> <li>■ VMware NSX Controller over SSH</li> <li>■ VMware NSX Edge over SSH or Central CLI depending on customer preference</li> </ul>
Cisco Nexus	5000, 7000, 9000, VSM N1000	The data provider connects Cisco Nexus switches over SSH v2 and SNMP.
Cisco UCS (Unified Computing System)	Series B blade servers, Series C rack servers, Chassis, Fabric interconnect	The data provider connects to UCS Manager over HTTPS and UCS Fabric Interconnect over SSH to fetch information. It also connects to the SNMP service on UCS.
Cisco Catalyst switches	3000, 3750, 4500, 6000, 6500	The data provider Cisco Catalyst switches connects to device over SSH and SNMP.
Dell switches	S4048, Z9100, S4810	The data provider connects to Dell switches over SSH v2 and SNMP.
Arista switches	7050TX, 7250QX	The data provider connects to Arista switches over SSH v2 and SNMP.
Brocade Switches	VDX 6740, VDX 6940	The data provider connects to Brocade switches over SSH v2 and SNMP.
Juniper Switches	EX3300	The data provider connects to Juniper switches over SSH v2 and SNMP.



Environment	Version/Model	Description
Palo Alto Networks	Panorama 7.1	The data provider connects to Palo Alto Panorama appliance HTTPS.
HP	HP Virtual Connect Manager 4.41	The data provider connects to HP Virtual Connect Manager over SSH v2.

## Prerequisites

Certain prerequisites for installing vRealize Network Insight are as follows:

- If the vRealize Network Insight platform is behind an Internet proxy, ensure that you whitelist the following domain names and ports:
  - support2.arkin.net:443
  - logserver.vnera.com:443
  - upgrade.vnera.com:443



# Installing vRealize Network Insight

---

You can deploy vRealize Network Insight using vSphere Web client or vSphere Windows native client.

---

**NOTE** After you successfully deploy vRealize Network Insight Platform OVA, verify whether the given static IP is set on vCenter Server.

---

This chapter includes the following topics:

- [“Installation Workflow,”](#) on page 11
- [“Deploying vRealize Network Insight Platform OVA,”](#) on page 12
- [“Activating the License,”](#) on page 14
- [“Generating Shared Secret,”](#) on page 14
- [“Setting up vRealize Network Insight Proxy Virtual Appliance \(OVA\),”](#) on page 14
- [“Deploy Additional Proxy to an Existing Setup,”](#) on page 16
- [“Default Login Credentials,”](#) on page 17
- [“NSX Assessment Mode for Evaluation License,”](#) on page 17
- [“Add vCenter Server,”](#) on page 17
- [“Analyze Traffic Flows,”](#) on page 17
- [“Generate a Report,”](#) on page 18
- [“Adding Data Sources,”](#) on page 18

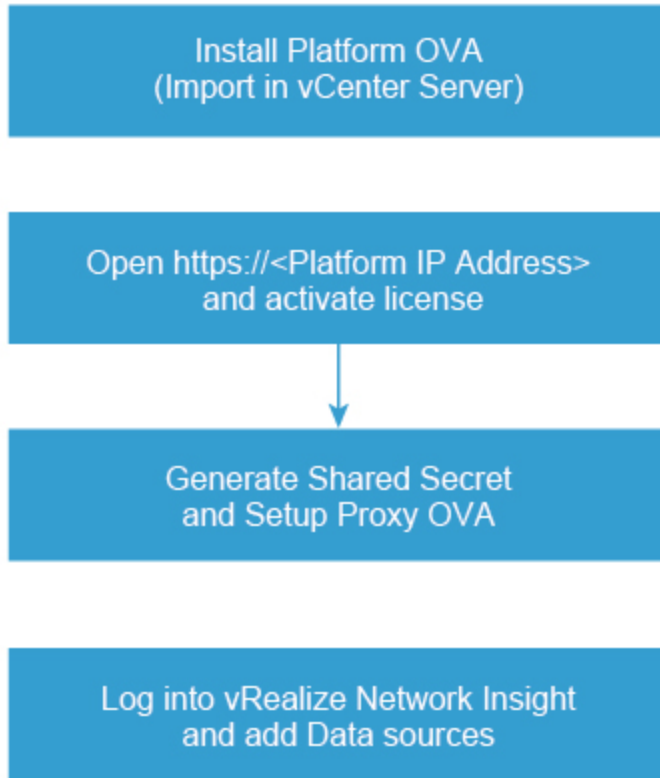
## Installation Workflow

To install vRealize Network Insight, you install the platform OVA, activate the license, generate shared secret, and setup proxy OVA.

---

**NOTE** The terms **Proxy** and **Collector** are used interchangeably in the documentation.

---



## Deploying vRealize Network Insight Platform OVA

You can import the vRealize Network Insight Platform OVA to your vCenter Server.

### Deployment using vSphere Web Client

You can deploy vRealize Network Insight using vSphere Web Client.

#### Procedure

- 1 Right-click on the **Datacenter** where you want to install the appliance and select **Deploy OVF Template**.
- 2 Browse to select the source location of the appliance OVA.
- 3 Verify the OVF template details.
- 4 Read the End User License Agreement and click **Accept**.
- 5 Select the destination folder in which you want to create the VM and give a desired name to the VM.
- 6 Select the **Deployment Configuration**.
- 7 Select a **Host/Cluster** where you want to run the deployed template.
- 8 Select the **Resource Pool** in which you want to deploy this template.
- 9 Select the **Datastore** where you want to store the files.
- 10 Select **Thin Provision** as the Virtual Disk format.

- 11 Select the **Network** that the deployed VM will use.  
Selected network should allow the appliance to reach out to the Internet for support and upgrade.
- 12 Customize the template as mentioned below:
  - a **IPv4 Address**: First reserved static IP address
  - b **Netmask**: Subnet mask for the above static IP
  - c **Gateway**: Default gateway of your network
  - d **DNS Server List**: DNS servers of your environment
  - e (Optional) **DNS Server List**: DNS servers of your environment
  - f **Domain Search List**: Determines which domain to be appended for dns lookups.
  - g (Optional) **NTP Server List**: You can either enter your own list of NTP servers or you can also use the defaults already provided
  - h (Optional) **Web Proxy IP/FQDN and Web Proxy Port**: For accessing the Internet using a proxy
  - i (Optional) **Syslog server IP** : Syslog server IP [Optional]: IP address of the syslog server where you want to send the syslog messages
  - j Uncheck the **Log Push Enable** checkbox if you do not want to send diagnostic and troubleshooting data to VMware.
- 13 Review the details and select the **Power on after deployment checkbox**, then click **Finish**.

## Deployment using vSphere Windows Native Client

You can deploy vRealize Network Insight using vSphere Windows native client.

### Procedure

- 1 Click **File > Deploy OVF Template**.
- 2 Browse to select the source location of the OVA.
- 3 Click **Next** and Verify OVF template details.
- 4 Ensure that the desired folder is selected and give a name to the VM.
- 5 Select the **Deployment Configuration**.
- 6 Select a **Host/Cluster** where you want to run the deployed template.
- 7 Select the **Resource Pool** in which you want to deploy this template.
- 8 Select the **Datastore** where you want to store the files.
- 9 Select **Thin Provision** as the Virtual Disk format.
- 10 Map the **Network** from OVA to your inventory
- 11 Customize the template as mentioned below:
  - a **IPv4 Address**: First reserved static IP address
  - b **Netmask**: Subnet mask for the above static IP
  - c **Gateway**: Default gateway of your network
  - d **DNS Server List**: DNS servers of your environment
  - e (Optional) **DNS Server List**: DNS servers of your environment
  - f **Domain Search List**: Determines which domain to be appended for dns lookups.

- g (Optional) **NTP Server List**: You can either enter your own list of NTP servers or you can also use the defaults already provided.
  - h (Optional) **HTTP Proxy IP/FQDN** and **HTTP Proxy Port**: For accessing the Internet using a proxy
  - i (Optional) **Syslog server IP** : IP address of the syslog server where you want to send the syslog messages
  - j Uncheck the **Log Push Enable** checkbox if you do not want to send diagnostic and troubleshooting data to VMware.
  - k Select the **Health Telemetry Enable** checkbox to improve the product by sending anonymous data about product performance.
- 12 Review the details and select the **Power on after deployment checkbox**, then click **Finish**.

## Generating the Support Tunnel Certificate

Perform this step only if you are offline or have restricted access to Internet.

To generate the support tunnel certificate:

- 1 Log on to the console user CLI and run the `offline-registration` command.
- 2 The CLI generates a token. After you supply this token to VMware Support, an entry is created in the registration server and a certificate is given to you.
- 3 Install this certificate by using the `offline-registration` command.

## Activating the License

Before the deployment, activate and install the vRealize Network Insight virtual appliance.

After installing the vRealize Network Insight Platform OVA, open `https://<vRealize Network Insight Platform IP address>` in the Chrome Web browser.

### Procedure

- 1 Enter the license key received in the welcome email, and click **Validate**.
- 2 Start installing the vRealize Network Insight Proxy virtual appliance after activating the license.

## Generating Shared Secret

You can generate and import the vRealize Network Insight proxy virtual appliance.

Generate a shared secret and import the vRealize Network Insight proxy virtual appliance:

### Procedure

- 1 Generate a shared secret after activating the license on the **Setup Proxy Virtual Appliance** page.
- 2 Copy the shared secret.

You will require this during the deployment of vRealize Network Insight Proxy OVA.

## Setting up vRealize Network Insight Proxy Virtual Appliance (OVA)

You can set up vRealize Network Insight proxy virtual appliance by importing OVA to your vCenter server.

Follow the steps below to import the vRealize Network InsightProxy OVA to your vCenter Server

## Deployment using vSphere Web Client

You can import the vRealize Network Insight Proxy OVA using vSphere Web Client.

### Procedure

- 1 Right-click on the **Datacenter** where you want to install the appliance and select **Deploy OVF Template**.
- 2 Browse to select the source location of the appliance OVA.
- 3 Verify the OVF template details.
- 4 Read the End User License Agreement and click **Accept**.
- 5 Select the destination folder in which you want to create the VM and give a desired name to the VM.
- 6 Select the **Deployment Configuration**.
- 7 Select a **Host/Cluster** where you want to run the deployed template.
- 8 Select the **Resource Pool** in which you want to deploy this template.
- 9 Select the Datastore where you want to store the files.
- 10 Select **Thin Provision** as the Virtual Disk format.
- 11 Select the **Network** that the deployed VM will use.
- 12 Customize the template as mentioned below:
  - a **Shared Secret for vRealize Network Insight Proxy:** The shared secret generated on the onboarding page
  - b **IPv4 Address:** Second reserved static IP address
  - c **Netmask:** Subnet mask for the above static IP
  - d **Gateway:** Default gateway of your network
  - e **DNS Server List:** DNS servers of your environment
  - f (Optional) **Domain Search List :** Determines which domain to be appended for dns lookups
  - g **NTP Server List:** You can either enter your own list of NTP servers or you can also use the defaults already provided
  - h (Optional) **Web Proxy IP/FQDN and Web Proxy Port:** For accessing the Internet using a proxy
  - i (Optional) **Syslog server IP :** IP address of the syslog server where you want to send the syslog messages
  - j Uncheck the **Log Push Enable** checkbox if you do not want to send diagnostic and troubleshooting data to VMware.
  - k Select the **Health Telemetry Enable** checkbox, to improve the product by sending anonymous data about product performance.
- 13 Review the details and select the **Power on after deployment** checkbox then click **Finish**.

## Deployment using vSphere Windows Native Client

You can import the vRealize Network Insight Proxy OVA using vSphere Windows native client.

### Procedure

- 1 Click **File > Deploy OVF Template**.
- 2 Browse to select the source location of OVA.

- 3 Verify the OVF template details.
- 4 Read the End-User License Agreement and click **Accept**.
- 5 Ensure the desired folder is selected and give a name to the VM.
- 6 Select the **Deployment Configuration**.
- 7 Select a **Host/Cluster** where you want to run the deployed template.
- 8 Select the **Resource Pool** in which you want to deploy this template.
- 9 Select the **Datastore** where you want to store the files.
- 10 Select **Thin Provision** as the Virtual Disk format.
- 11 Select the **Network** that the deployed VM will use.
- 12 Map the network from OVA to your inventory.
- 13 Customize the template as mentioned below:
  - a **Shared Secret for vRealize Network Insight Proxy**: The shared secret generated on the onboarding page
  - b **IPv4 Address**: Second reserved static IP address
  - c **Netmask**: Subnet mask for the above static IP
  - d **Gateway**: Default gateway of your network
  - e **DNS Server List**: DNS servers of your environment
  - f (Optional) **Domain Search List** : Determines which domain to be appended for dns lookups
  - g **NTP Server List**: You can either enter your own list of NTP servers or you can also use the defaults already provided
  - h (Optional) **HTTP Proxy IP/FQDN** and **HTTP Proxy Port**: For accessing the Internet using a proxy
  - i (Optional) **Syslog server IP** : IP address of the syslog server where you want to send the syslog messages
  - j Uncheck the **Log Push Enable** checkbox if you do not want to send diagnostic and troubleshooting data to VMware.
  - k Select the **Health Telemetry Enable** checkbox, to improve the product by sending anonymous data about product performance.
- 14 Review the details and select the **Power on after deployment** checkbox then click **Finish**.

---

**NOTE** After the vRealize Network Insight Proxy OVA is deployed and running, you must verify whether the given static IP is set on vCenter Server.

---

- 15 Click **Finish**, once **Proxy Detected!** message is displayed on the onboarding page. It will redirect to the Login Page.

## Deploy Additional Proxy to an Existing Setup

You can add additional vRealize Network Insight proxy to an existing setup.

### Procedure

- 1 Log into the vRealize Network Insight UI. Navigate to **Settings > Install and Support**.
- 2 Click **Add Proxy VM**.
- 3 Copy the shared secret from the dialog that is displayed.



- 4 Follow the steps in section “[Setting up vRealize Network Insight Proxy Virtual Appliance \(OVA\)](#),” on page 14 in step 3.

## Default Login Credentials

You can log into vRealize Network Insight with default log in credentials.

---

**NOTE** Use Google Chrome to log in to vRealize Network Insight.

---

### Procedure

- 1 Open `https://<vRealize Network Insight Platform IP address>`.
- 2 Log in to the product UI with `admin@local` as the user name and `admin` as password.

## NSX Assessment Mode for Evaluation License

vRealize Network Insight starts in the NSX assessment mode when you use the evaluation license.

You can add a data source to vRealize Network Insight, analyze traffic flow, and generate reports.

---

**NOTE** To switch to the Full Product mode, click **Switch to Full Product Evaluation** located in the bottom right corner.

---

## Add vCenter Server

You can add vCenter Servers as data source to vRealize Network Insight.

Multiple vCenter Servers can be added to vRealize Network Insight to start monitoring data.

### Procedure

- 1 Click **Add vCenter**.
- 2 Click **Add new source** and customize the options.

Option	Action
<b>Source Type</b>	Select the vCenter Server system from the drop-down menu.
<b>IP Address/FQDN</b>	Enter the IP address or fully qualified domain name of the vCenter Server.
<b>Username</b>	Enter the user name, with the following privileges: <ul style="list-style-type: none"> <li>■ <b>Distributed Switch</b>: Modify</li> <li>■ <b>dvPort group</b>: Modify</li> </ul>
<b>Password</b>	Enter the password for vRealize Network Insight software to access the vCenter Server system.

- 3 Click **Validate**.
- 4 Add advanced data collection sources to your vCenter Server system.
- 5 (Optional) Click **Submit** to add the vCenter Server system. The vCenter Server systems appear on the homepage.

## Analyze Traffic Flows

You can use vRealize Network Insight to analyze flows in your datacenter.

### Prerequisites

At least two hours of data collection must occur before starting the flow analysis.

### Procedure

- 1 Specify the scope of the analysis. For example, if you are interested in flows of all virtual machines in a **Cluster**, select Cluster from the dropdown menu. You can alternately select all virtual machines connected to a VLAN or VXLAN.
- 2 Select the entity name for which you want to analyze the flows.
- 3 Select the duration and click **Analyze**.

## Generate a Report

You can generate a report of the flow assessment.

### Prerequisites

Analyze traffic flows in the datacenter. For comprehensive reports, collect 24 hours of data before the analysis.

### Procedure

- ◆ Click **Generate Report** in the Analyze Flows page.

## Adding Data Sources

After you log in, add the various data sources to vRealize Network Insight for the software to monitor your data center.

The product will start showing the data from your environment after two hours of data collection.

### Procedure

- 1 Select **Profile > Settings**.
- 2 Click the **Add new source** button.
- 3 Select the **Source Type**.
- 4 Enter the required details and click **Submit** to add the Data source.
- 5 Repeat the above steps to add all the required data sources from your environment.

# Index

## A

- activate license **14**
- add data source **18**
- add vCenter Server **17**
- adding proxy **16**
- analyze traffic **17**

## D

- default login **17**
- deployment **12, 15**
- deployment with vSphere Windows native client **15**

## G

- glossary **5**

## I

- install **11–13**
- intended audience **5**

## N

- nsx assessment mode **17**

## O

- OVA setup **14**

## R

- report generation **18**

## S

- support tunnel certificate **14**
- supported products **8**
- system requirements **7**

