



Monitoring VMware NSX

Beta Version

VMware: NSX PowerPack version 100, revision 2

Table of Contents

Introduction	3
What is VMware NSX?	3
What Does the VMware: NSX PowerPack Monitor?	4
Installing the VMware: NSX PowerPack	4
Configuration and Discovery	6
Prerequisites for Monitoring VMware NSX	6
Creating a Basic/Snippet Credential	7
Discovering a VMware NSX Manager	7
Viewing Component Devices	8

Chapter

1

Introduction

Overview

This manual describes how to monitor VMware NSX virtual network devices in SL1 using the Dynamic Applications in the *VMware: NSX PowerPack*.

The following sections provide an overview of VMware NSX and the *VMware: NSX PowerPack*:

This chapter covers the following topics:

<i>What is VMware NSX?</i>	3
<i>What Does the VMware: NSX PowerPack Monitor?</i>	4
<i>Installing the VMware: NSX PowerPack</i>	4

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What is VMware NSX?

NSX is VMware's software-defined network virtualization and security platform. NSX enables users to create virtual networks, including firewalls, switches, routers, ports, and other networking components, which are embedded in a hypervisor rather than a physical environment.

What Does the VMware: NSX PowerPack Monitor?

To monitor NSX virtual networks using SL1, you must install the *VMware: NSX PowerPack*. This PowerPack enables you to discover, model, and collect data about NSX virtual network devices.

The *VMware: NSX PowerPack* includes:

- An example credential you can use as a template to create Basic/Snippet credentials to connect to the NSX devices you want to monitor
- Dynamic Applications to discover, model, and monitor performance metrics and collect configuration data for NSX devices
- Device Classes for each of the NSX devices SL1 monitors
- Event Policies and corresponding alerts that are triggered when NSX devices meet certain status criteria
- A Run Book Action that automatically classifies the Device Classes for NSX devices

Installing the VMware: NSX PowerPack

Before completing the steps in this manual, you must import and install the latest version of the *VMware: NSX PowerPack*.

TIP: By default, installing a new version of a PowerPack overwrites all content from a previous version of that PowerPack that has already been installed on the target system. You can use the **Enable Selective PowerPack Field Protection** setting in the **Behavior Settings** page (System > Settings > Behavior) to prevent new PowerPacks from overwriting local changes for some commonly customized fields. (For more information, see the **System Administration** manual.)

IMPORTANT: The minimum required MySQL version is 5.6.0.

To download and install the PowerPack:

1. Search for and download the PowerPack from the **PowerPacks** page (Product Downloads > PowerPacks & SyncPacks) at the [ScienceLogic Support Site](#).
2. In SL1, go to the **PowerPacks** page (System > Manage > PowerPacks).
3. Click the **[Actions]** button and choose *Import PowerPack*. The **Import PowerPack** dialog box appears.
4. Click **[Browse]** and navigate to the PowerPack file from step 1.
5. Select the PowerPack file and click **[Import]**. The **PowerPack Installer** modal displays a list of the PowerPack contents.
6. Click **[Install]**. The PowerPack is added to the **PowerPacks** page.

NOTE: If you exit the **PowerPack Installer** modal without installing the imported PowerPack, the imported PowerPack will not appear in the **PowerPacks** page. However, the imported PowerPack will appear in the **Imported PowerPacks** modal. This page appears when you click the **[Actions]** menu and select *Install PowerPack*.

Chapter

2

Configuration and Discovery

Overview

The following sections describe how to configure VMware NSX resources for monitoring by SL1 using the VMware: NSX PowerPack:

This chapter covers the following topics:

<i>Prerequisites for Monitoring VMware NSX</i>	6
<i>Creating a Basic/Snippet Credential</i>	7
<i>Discovering a VMware NSX Manager</i>	7
<i>Viewing Component Devices</i>	8

Prerequisites for Monitoring VMware NSX


To configure SL1 to monitor VMware NSX using the VMware: NSX PowerPack, you must first configure an NSX Manager user account to handle RESTful API requests. You will need this account's username and password when [creating the Basic/Snippet credential](#) to communicate with the NSX Manager for monitoring.

This API-only user account must be configured in the NSX Manager configuration terminal and have web interface privileges. After you create the user account, perform an API request to give the user account the appropriate role.

Creating a Basic/Snippet Credential



To use the Dynamic Applications in the VMware: NSX PowerPack, you must create a Basic/Snippet credential for the NSX Manager. The VMware: NSX PowerPack includes an example Basic/Snippet credential that you can edit for use with NSX Manager.

To modify the template credential, perform the following steps:

1. Go to the **Credential Management** page (System > Manage > Credentials).
2. Click the wrench icon () for the "VMware: NSX Credential - Example" credential. The **Credential Editor** modal page appears:
3. Supply values in the following fields:
 - **Credential Name**. Type a new name for the credential.
 - **Hostname/IP**. Type "https://%D".
 - **Port**. Type "443".
 - **Timeout(ms)**. Keep the default value.
 - **Username**. Type the username of the NSX API-only administrative user.
 - **Password**. Type the NSX API-only user's password.
4. Click the **[Save As]** button to save your changes as a new credential.


Discovering a VMware NSX Manager

To create and run a discovery session that will discover an NSX Manager, perform the following steps:

1. Go to the **Discovery Control Panel** page (System > Manage > Classic Discovery).
2. Click the **[Create]** button to create a new discovery session. The **Discovery Session Editor** modal page appears:
3. Enter values in the following fields:
 - **IP Address Discovery List**. Type the IP address for the NSX Manager.
 - **Other Credentials**. Select the **Basic/Snippet credential** you created.
 - **Discover Non-SNMP**. Select this checkbox.
4. Optionally, you can enter values in the other fields on this page. For more information about the other fields on this page, see the **Discovery & Credentials** manual.
5. Click the **[Save]** button and then close the **Discovery Session Editor** modal page.
6. The discovery session you created appears at the top of the **Discovery Control Panel** page. Click its lightning-bolt icon () to run the discovery session.
7. The **Discovery Session** window appears. After SL1 discovers the NSX Manager, click its device icon () to view the **Device Properties** page for the NSX Manager.

Viewing Component Devices

In addition to the **Device Manager** page (Registry > Devices > Device Manager), you can view the VMware NSX Manager and all associated component devices in the following places in the user interface:

- The **Device View** modal page (click the bar-graph icon  for a device, then click the **Topology** tab) displays a map of a particular device and all of the devices with which it has parent-child relationships. Double-clicking any of the devices listed reloads the page to make the selected device the primary device:
- The **Device Components** page (Registry > Devices > Device Components) displays a list of all root devices and component devices discovered by SL1 in an indented view, so you can easily view the hierarchy and relationships between child devices, parent devices, and root devices. To view the component devices associated with the NSX Manager, find the NSX Manager device and click its plus icon (+):
- The **Component Map** page (Classic Maps > Device Maps > Components) allows you to view devices by root node and view the relationships between root nodes, parent components, and child components in a map. This makes it easy to visualize and manage root nodes and their components. SL1 automatically updates the **Component Map** as new component devices are discovered. SL1 also updates each map with the latest status and event information. To view the map for NSX devices, go to the **Component Map** page and select the map from the list in the left NavBar. To learn more about the **Component Map** page, see the **Views** manual.

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