



Monitoring VMware NSX

Beta Version

VMware: NSX PowerPack version 100

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Introduction

Overview

This manual describes how to configure VMware NSX virtual network devices for monitoring with the ScienceLogic platform.

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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 the ScienceLogic platform, 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 the ScienceLogic platform 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

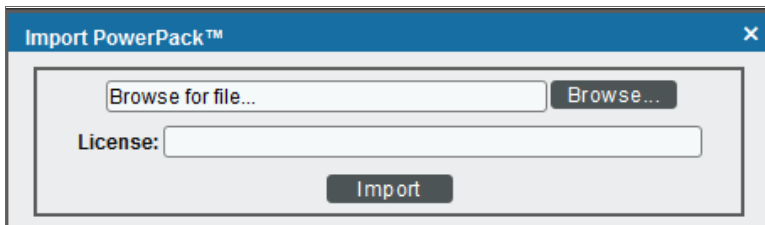
Before completing the steps in this manual, you must import and install version 100 of the VMware: NSX PowerPack.

NOTE: To install version 100 of the VMware: NSX PowerPack, your ScienceLogic system must be upgraded to the 8.1.0 or later release.

To download and install a PowerPack:

TIP: By default, installing a new version of a PowerPack overwrites all content in 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.)

1. Download the PowerPack from the [ScienceLogic Customer Portal](#).
2. Go to the **PowerPack Manager** page (System > Manage > PowerPacks).
3. In the **PowerPack Manager** page, click the **[Actions]** button, then select *Import PowerPack*.
4. The **Import PowerPack** dialog box appears:



5. Click the **[Browse]** button and navigate to the PowerPack file.
6. When the **PowerPack Installer** modal page appears, click the **[Install]** button to install the PowerPack.

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

Configuring VMware NSX for Monitoring

Overview

This chapter describes how to configure VMware NSX for monitoring by the ScienceLogic platform.

Prerequisites

To configure the ScienceLogic platform 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.

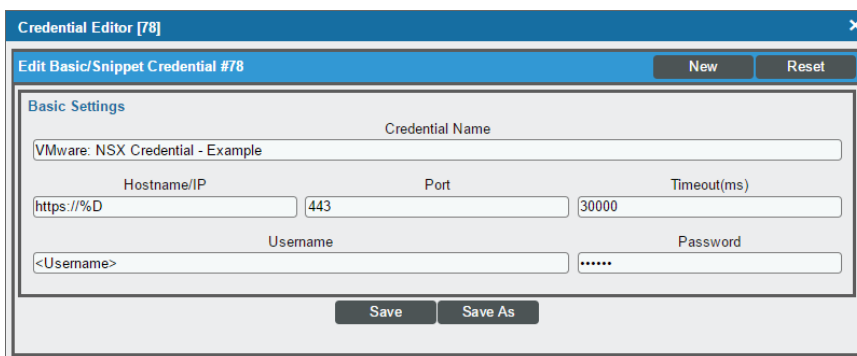
Creating a Basic/Snippet Credential

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:



The screenshot shows a 'Credential Editor' window with the following fields and values:

Field	Value
Credential Name	VMware: NSX Credential - Example
Hostname/IP	https://%D
Port	443
Timeout(ms)	30000
Username	<Username>
Password

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 > Discovery).

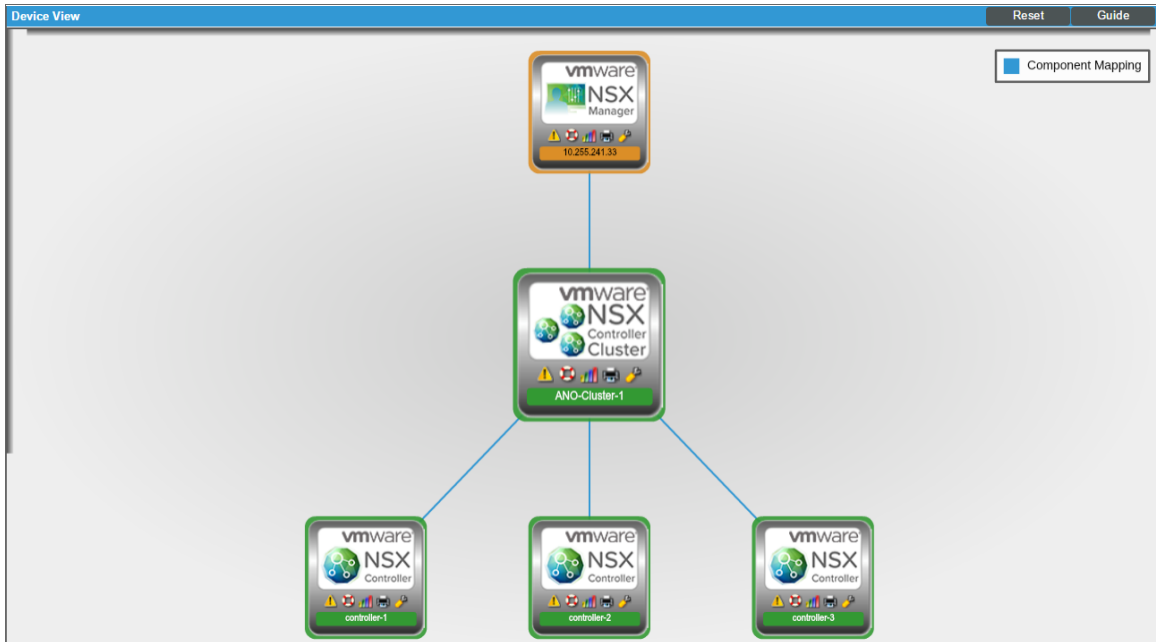
- Click the **[Create]** button to create a new discovery session. The **Discovery Session Editor** modal page appears:

- 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.
- 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.
- Click the **[Save]** button and then close the **Discovery Session Editor** modal page.
- 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.
- The **Discovery Session** window appears. After the ScienceLogic platform 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:

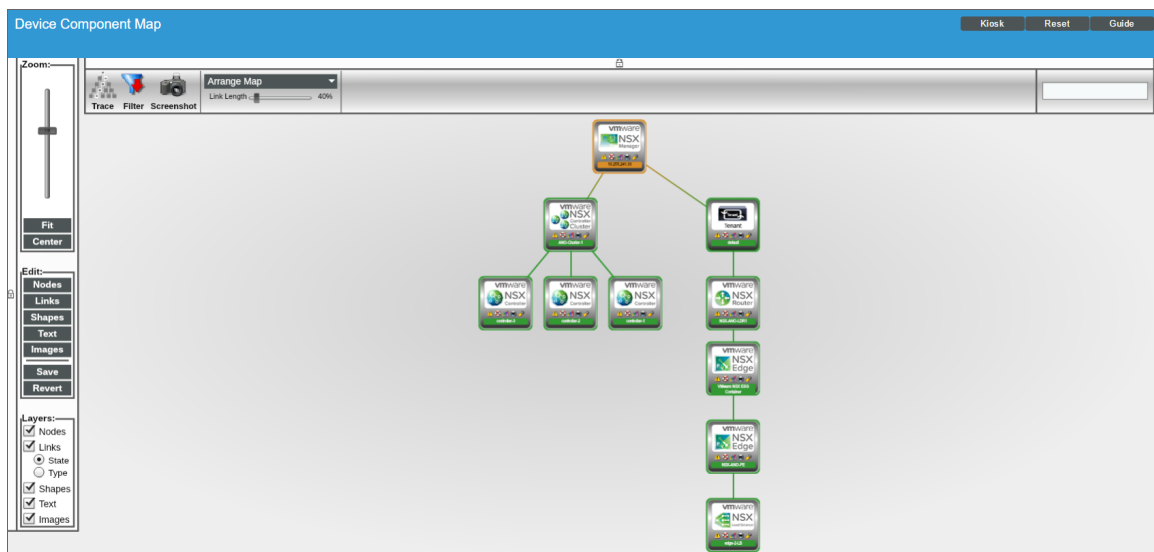
- The **Device View** modal page (click the bar-graph icon  for a device, then click the **Topology** tab) displays a map of a particular device and all of the devices with which it has parent-child relationships. Double-clicking any of the devices listed reloads the page to make the selected device the primary device:



- The **Device Components** page (Registry > Devices > Device Components) displays a list of all root devices and component devices discovered by the ScienceLogic platform 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 (+):

Device Components Devices Found [1]										Actions	Reset	Guide
Device Name	IP Address	Device Category	Device Class Sub-class	DID	Organization	Current State	Collection Group	Collection State				
1 - 10.255.241.33	10.255.241.33	Network	VMware NSX Manager	2003	VMwareNSX_Org	Major	CUG1	Active				
1 - ANO-Cluster-1	--	Network	VMware NSX Controller Cluster	2004	VMwareNSX_Org	Healthy	CUG1	Active				
1 - controller-1	--	Network	VMware NSX Controller	2008	VMwareNSX_Org	Healthy	CUG1	Active				
2 - controller-2	--	Network	VMware NSX Controller	2007	VMwareNSX_Org	Healthy	CUG1	Active				
3 - controller-3	--	Network	VMware NSX Controller	2006	VMwareNSX_Org	Healthy	CUG1	Active				
2 - default	--	Router	VMware Tenant	2005	VMwareNSX_Org	Healthy	CUG1	Active				
1 - NSX-ANO-LDR1	--	Network	VMware NSX Distributed Logical Router	2010	VMwareNSX_Org	Healthy	CUG1	Active				
2 - VMware NSX ESG Container	--	Network	VMware NSX ESG Container	2009	VMwareNSX_Org	Healthy	CUG1	Active				

- The **Component Map** page (Views > 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. The ScienceLogic platform automatically updates the **Component Map** as new component devices are discovered. The platform 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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