

Monitoring Nutanix

Nutanix: Base Pack PowerPack version 100

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Chapter

Introduction

Overview

This manual describes how to monitor Nutanix systems and their components in the ScienceLogic platform using the *Nutanix Base Pack* PowerPack.

The following sections provide an overview of Nutanix and the Nutanix Base Pack PowerPack:

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What is Nutanix?

The Nutanix Virtual Computing Platform converges server and storage resources into an easy-to-deploy integrated appliance. Data center capacity can be easily expanded one node at a time, delivering linear and predictable scale-out with pay-as-you-grow flexibility.

Nutanix delivers "invisible" infrastructure for next generation enterprise computing by natively converging compute, storage, and virtualization into a turnkey hyper-converged solution.

What Does the Nutanix Base Pack PowerPack Monitor?

The Nutanix Base Pack PowerPack includes Dynamic Applications that can monitor performance metrics and collect configuration data for all Nutanix devices.

In addition to Dynamic Applications, the PowerPack includes the following features:

- Event Policies and corresponding alerts that are triggered when Nutanix component devices meet certain status criteria
- Device Classes for each of the Nutanix devices monitored
- A sample Credential for discovering Nutanix devices
- Dashboards that display information about Nutanix instances and component devices
- A Run Book Action and an Automation policy to assign the proper device class to the Nutanix root device

Installing the Nutanix PowerPack

Before completing the steps in this manual, you must import and install the latest version of the *Nutanix* Base Pack PowerPack.

NOTE: If you are upgrading from an earlier version of the PowerPack, see the <u>Release Notes</u> for the version you are installing for upgrade instructions.

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.)

To download and install a PowerPack:

- 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:

Import Powe	rPack™	×
Brow	wse for file Erowse Import	

- 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*.

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Chapter

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Configuring Nutanix Monitoring

Overview

The following sections describe how to configure and discover your Nutanix system for monitoring by the ScienceLogic platform using the *Nutanix Base Pack* PowerPack:

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Configuring the Nutanix Credentials

To use the Dynamic Applications in the *Nutanix Base Pack* PowerPack, you must first configure the credential in the ScienceLogic platform. This credential allows the platform to communicate with the Nutanix API. The PowerPack includes the "Nutanix API | Example" credential that you can use as a template.

To configure the Nutanix credential:

1. Go to the **Credential Management** page (System > Manage > Credentials).

2. Locate the Nutanix API | Example credential and click its wrench icon (²). The Credential Editor modal page appears:

Credential Editor [86]				×
Edit Basic/Snippet Credential #86			New	Reset
	Credential Name			
Nutanix API Example				
Basic Settings Nutanix API Example Hostname/IP 192.168.2.25 Use admin	Port		Timeout(ms)	
192.168.2.25	9440	20000		
Use	rname		Password	
admin]		
	Save Save As			

- 3. Enter values in the following fields:
 - Credential Name. Type a new name for your Nutanix credential.
 - Hostname/IP. Type the IP address of the Nutanix system.
 - Username. Type the username that the platform will use to connect to the Nutanix system.
 - Password. Type the password for the username you entered.

NOTE: You can use the default values for the remaining fields.

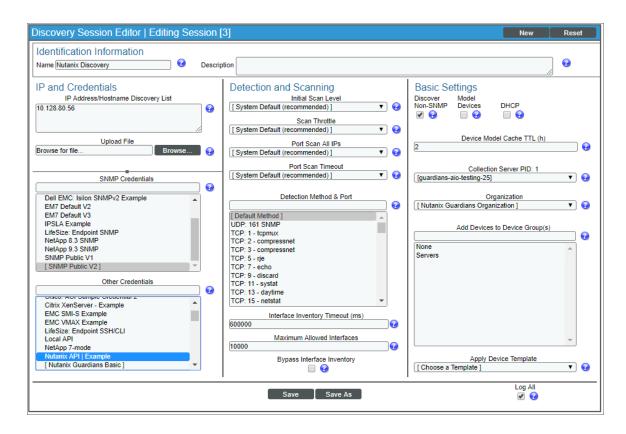
4. Click the [Save As] button, and then click [OK].

Discovering Nutanix Systems

To create and run a discovery session that will discover your Nutanix system, perform the following steps:

1. Go to the **Discovery Control Panel** page (System > Manage > Discovery).

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



- 3. Enter values in the following fields:
 - IP Address Discovery List. Type the IP addresses for the Nutanix systems you want to discover.
 - SNMP Credentials. Select SNMP Public V2 if applicable.
 - Other Credentials. Select the credential that you configured in the previous section.
 - Discover Non-SNMP. If you are not using an SNMP credential, ensure that this checkbox is selected.
 - Organization. Select your organization.
- 4. You can enter values in the other fields on this page, but are not required to and can simply accept the default values. 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 window.
- 6. The discovery session you created will appear at the top of the **Discovery Control Panel** page. Click its lightning-bolt icon (*F*) to run the discovery session.
- 7. The Discovery Session window will be displayed.
- 8. When the Nutanix system is discovered, click its device icon () to view the **Device Properties** page for the Nutanix system.

9. After the Nutanix system is discovered, the child components and devices associated with that system will also appear in the **Device Manager** page.

NOTE: It can take up to 30 minutes for the Dynamic Applications and device class to align.

Verifying Discovery and Dynamic Application Alignment

To verify that the ScienceLogic platform has automatically aligned the correct Dynamic Applications during discovery:

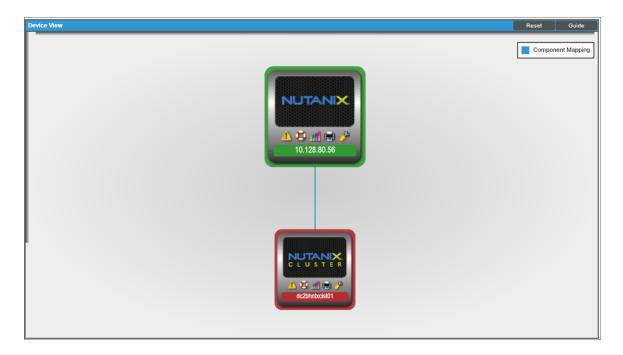
- 1. From the **Device Properties** page for the Nutanix system, click the **[Collections]** tab. The **Dynamic Application Collections** page appears.
- 2. The "Nutanix: *Discovery" Dynamic Application should be displayed in the list of Dynamic Applications aligned to the Nutanix system:

Close Logs	<u>P</u> roperties T <u>o</u> olbox	T <u>h</u> resholds Interfaces	<u>C</u> ollections <u>R</u> elationships	<u>M</u> onitors <u>T</u> ickets	<u>S</u> chedule Redirects	Notes	<u>A</u> ttributes	
Class	10.128.80.56 528 Nutanix System			Category Sub-Class Uptime Collection Time	Physical Device Pingable Management Devic 0 days, 00:00:00 2018-07-26 13:16:0 CUG guardians-39	00		
Dynamic Applicati + Nutanix: *Discore		Dynamic Application		<u>ID</u> 1525 2	Poll Frequency mins	Expand <u>Ixpe</u> Snippet Configuration	Actions Nutanix API G	Reset Guide Credential Guardians
						[Select Action]		▼ Go
				Save				

Viewing Nutanix Component Devices

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

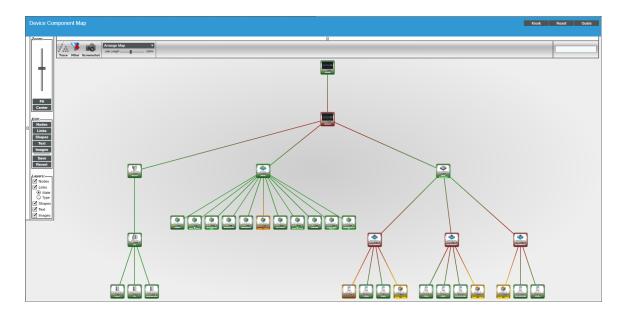
• The **Device View** modal page (click the bar-graph icon [**1**] for a device, then click the **Topology** tab) displays a map of a particular device and all of the devices with which it has parent-child relationships. Double-clicking any of the devices listed reloads the page to make the selected 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 a Nutanix system, find the Nutanix device and click its plus icon (+):

		Device Name *		IP Address	Device Category	Device Class Sub-class	DID		Organization	Current State >=Health ¥	Collection Group	Collection State	_
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		Device Name *		IP Address	Device Category	Device Class Sub-class		2	Organization	Current State	Collection Group	Collection State	
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	2.	🤌 🚮 BD-AIO-113 Demo-Dev System		•	Workloads	Nutanix Workload VM	53	38	System	🛕 Health	y CUG	Active	10 X & 25
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	4.	2 10.128.82.192 BD-Win2k8R2_10.128.82		•	Workloads	Nutanix Workload VM	54	43	System	🛦 Health	y CUG	Active	🖶 🕻 🗞 🦝
	5.	🔑 🚮 BDAGENTILSAP 6.42		•	Workloads	Nutanix Workload VM	53	39	System	🛕 Health	y CUG	Active	🖶 🔁 🗞 😹
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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 a Nutanix system, 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.



Chapter

Nutanix Dashboards

Overview

The following sections describe the two built-in dashboards and the device dashboards that are included in the *Nutanix*: Base Pack PowerPack:

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Nutanix Workload VM Dashboard	

Nutanix: Cluster Summary

ashboards Nutarii:: Cluster Summary] v New xage Usage (%) [Sclect Cluster]	[Original Context] Context				Node Health	Actions Reset Guide Pause Refrest
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		🚯 System 🕢 Nutanix Host Alert [Critic	cal): Main memor MNTNX-15SM6526(Critic	- 2		
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- Disk Re	ad/Write Latency	- Dis	Read Rate ···· Disk Write Rate		- Disk Read Bandwidth ···· D	isk Write Bandwidth

The "Nutanix: Cluster Summary" dashboard displays the following information:

- A widget that displays the available storage capacity and storage capacity utilization. You must select one of the clusters (bars) in this widget to display information about that cluster in the remaining widgets.
- Informational widgets that include:
 - NOS Version and Cluster Name
 - Model Type and Number of Blocks
 - Hypervisor Type and Number of Nodes
 - Storage Capacity and Storage Usage
- Gauges for Node Health and VM Health, and a bar representing Disk Health
- Total storage capacity usage over a period of time
- A list of events associated with the cluster
- Hypervisor CPU and memory used over a period of time
- Average I/O latency over a period of time
- I/O per second over a period of time
- I/O bandwidth over a period of time

Nutanix: Container Performance

The "Nutanix: Container Performance" dashboard displays the following information:

_			
Das			Quick Add Actions Reset Guide
[Nu	tanis: Container Performance] v New [Original Context] V Context		Pause Refresh
Stora	ge Pool Capacity Free % [Select Pools] .	Storage Pool Capacity Use	ed % •
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	Acte	Cluster Events .	
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50%		Message Groanization Name Seventy Admonifeded Texter Date Admonifeded Date Last Detected	
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25%	276	🚯 Nutanix: Cluster Health Status is: 🙀 System 🚽 dc2bhntxclst01 🔽	
	276	🚯 Nutanix: Overall Node/Hypervisor 🍓 System 🚽 dc2bhntxcist01 🛛 Mager 🖂 2018-07-25 17:40	
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	- default: - No Matching Data	default: No Matching Data	efault: No Matching Data
Copyrig	ght © 2003 - 2018 ScienceLogic, Inc. All rights reserved.		

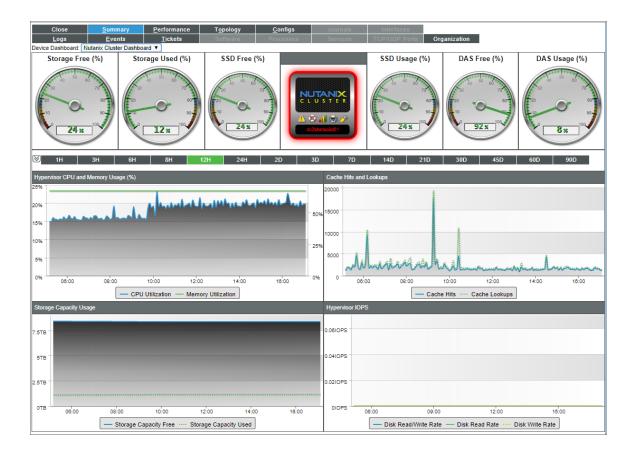
- A widget that displays the available storage pool capacity. You must select one of the pools (bars) in this widget to display information about that pool in the remaining widgets.
- A list of events associated with the storage pool
- A bar graph depicting storage pool capacity used
- Total storage capacity usage over a period of time
- DAS disk capacity usage over a period of time
- SSD disk capacity usage over a period of time
- Total I/O per second over a period of time
- Total I/O bandwidth over a period of time
- Average I/O bandwidth over a period of time

Device Dashboards

The Nutanix: Base Pack PowerPack includes device dashboards that provide summary information for Nutanix devices.

Nutanix Cluster Dashboard

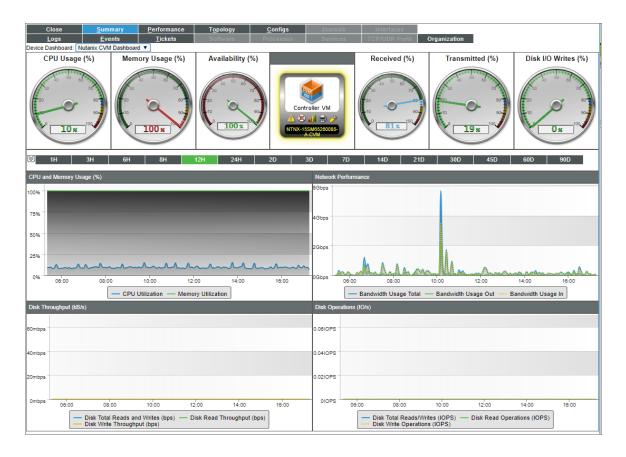
The "Nutanix Cluster" device dashboard displays the following information:



- Hypervisor CPU and memory usage over a specified period of time
- Storage capacity usage over a specified period of time
- Cache hit ratio over a specified period of time
- Hypervisor IOPs over a period of time
- Percentage of free and used storage, SSD, and DAS

Nutanix CVM Dashboard

The "Nutanix CVM" device dashboard displays the following information:



- A number of gauges that display the following:
 - CPU Usage
 - Memory Usage
 - Availability
 - Received and Transmitted data
 - Disk I/O Wires
- CPU and Memory usage over a period of time
- Network performance over a period of time
- Disk throughput over a period of time
- Disk operations over a period of time

Nutanix Hard Disk Dashboard

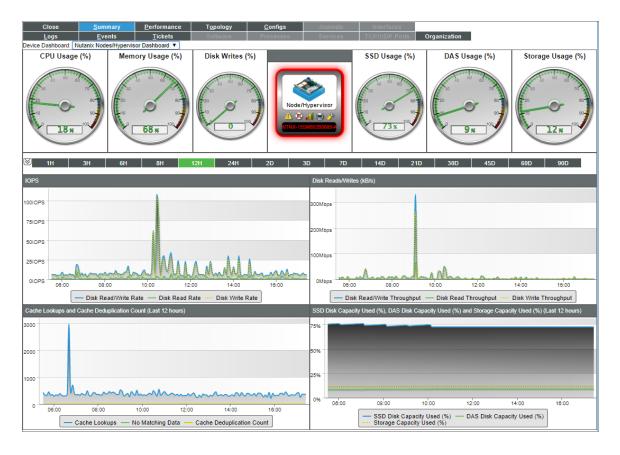
The "Nutanix Hard Disk" device dashboard displays the following information:



- A number of gauges that display the following:
 - Disk Capacity Usage
 - Disk I/O Writes
 - Disk Reads
 - Disk Writes
- Disk bandwidth over a period of time
- Disk IO/s over a period of time
- Disk percent I/O over a period of time
- Disk I/O latency over a period of time

Nutanix Nodes/Hypervisor Dashboard

The "Nutanix Nodes/Hypervisor" device dashboard displays the following information:



- A number of gauges that display the following:
 - CPU Usage
 - Memory Usage
 - Disk Writes
 - SSD Usage
 - DAS Usage
 - Storage Usage
- IOPS over a period of time
- Disk reads and writes over a period of time
- Cache lookups and deduplication counts over a period of time
- SSD disk capacity used and storage capacity used over a period of time

Nutanix Storage Container Dashboard

The "Nutanix Storage Container" device dashboard displays the following information:



- A number of gauges that display the following:
 - Storage Usage and Storage Free
 - Disk Reads and Disk Writes
 - Disk I/O Writes and Disk I/O Reads
- Storage container IO/s over a period of time
- Storage container throughput over a period of time
- Storage capacity usage over a period of time
- Storage capacity and unreserved capacity over time

Nutanix Storage Pool Dashboard

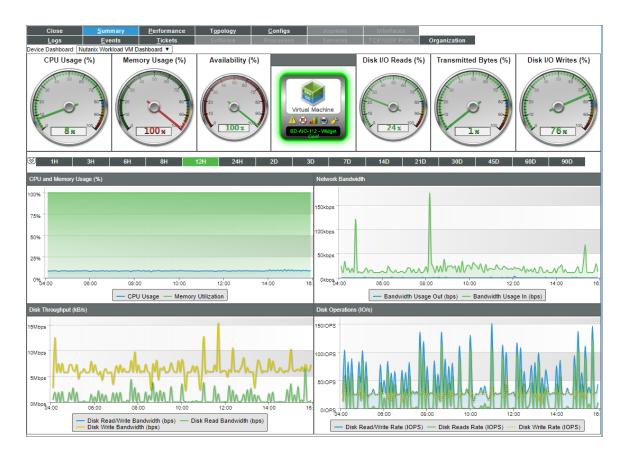
The "Nutanix Storage Pool" device dashboard displays the following information:

Close	<u>S</u> ummary	Performance	T <u>o</u> pology	<u>C</u> onfigs	Journals	Interfaces		
<u>L</u> ogs	<u>E</u> vents	<u>T</u> ickets	Software	Processes	Services	TCP/UDP Ports	Organization	
Device Dashboard:	Nutanix Storage Pool Da	ashboard 🔻						
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🗵 1Н	2H 3	3Н 6Н	12H	24H 2D	31	D 7D	14D 3	0D 60D 90D
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250010PS 200010PS 150010PS 50010PS 50010PS 010PS 06:00	08:00 — Disk Read Rate		200 14:00 Disk Read/Write	10:00 Rate	1Gbps 0.75Gbps 0.5Gbps 0.25Gbps 0Gbps	06:00 00 Disk Read Bandwidth -	00	12.00 15:00 Iwidth Disk Read/Write Bandwidth
Title		_		isk Capacity Used (Last	42 h			
	ge Capacity Used	800GB - 400GB - 200GB - 0GB -	08:00 Disk Capacity Used		18:00	SSD Storage Capa	60 70 90 90	DAS Storage Capacity Used

- A number of gauges that display the following:
 - Total Storage Capacity Used
 - SSD Capacity Used
 - DAS Storage Capacity Used
- Disk read rate and write rate over a period of time
- Disk read and write bandwidth over a period of time
- SSD disk capacity used over a period of time
- Storage capacity and unreserved capacity over time

Nutanix Workload VM Dashboard

The "Nutanix Workload VM" device dashboard displays the following information:



- A number of gauges that display the following:
 - CPU Usage, Memory Usage, and Availability
 - Disk I/O Reads and Disk I/O Writes
 - Transmitted Bytes
- CPU and memory usage over a period of time
- Network bandwidth over a period of time
- Disk throughput over a period of time
- Disk operations over a period of time

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