



Nutanix: Base Pack PowerPack Release Notes

Version 105

Overview

Version 105 of the *Nutanix: Base Pack* PowerPack contains new Dynamic Applications that support Nutanix Lifecycle Manager (LCM) and addresses an issue with a Dynamic Application.

- **Minimum Required SL1 Version:** 10.2.0
- **Support Status:** GA

<i>Before You Install or Upgrade</i>	2
<i>Installing or Upgrading the PowerPack to Monitor Prism Element</i>	2
<i>Installing or Upgrading the PowerPack to Monitor Prism Central</i>	3
<i>Installing or Upgrading the PowerPack to switch from Monitoring Prism Element to Monitoring Prism Central</i>	4
<i>Features</i>	5
<i>Enhancements and Issues Addressed</i>	6
<i>Known Issues</i>	6

Before You Install or Upgrade

Ensure that you are running version 10.2.0 or later of SL1 before installing *Nutanix: Base Pack* version 105.

NOTE: For details on upgrading SL1, see the appropriate [Release Notes](#).

WARNING: You can monitor Prism Elements **or** Prism Central. You must choose between monitoring Prism Elements or Prism Central as the root device, and then run discovery accordingly. It is recommended that you monitor Prism Central in all cases, unless you have only Prism Elements instances with **no** Prism Central instances.

Installing or Upgrading the PowerPack to Monitor Prism Element

TIP: By default, installing a new version of a PowerPack will overwrite 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 the new version of the PowerPack from overwriting local changes for some commonly customized fields.

NOTE: If you are currently using the Dynamic Applications in this PowerPack to monitor devices, collection errors might occur for one or two polling cycles during the installation of a new version. To prevent collection errors during an upgrade, you can optionally disable collection for monitored devices before performing the following steps and re-enable collection after the upgrade.

To install this PowerPack:

1. Familiarize yourself with the [Known Issues](#) for this release.
2. See the [Before You Install or Upgrade](#) section. If you have not done so already, upgrade your system to the 10.2.0 or later release.
3. Download the *Nutanix: Base Pack* version 105 PowerPack from the Support Site to a local computer.
4. Go to the **PowerPack Manager** page (System > Manage > PowerPacks). Click the **[Actions]** menu and choose *Import PowerPack*. When prompted, import *Nutanix: Base Pack* version 105.
5. Click the **[Install]** button. For details on installing PowerPacks, see the chapter on *Installing a PowerPack* in the **PowerPacks** manual.

For more information about using the PowerPack, see the **Monitoring Nutanix: Base Pack** manual.

Installing or Upgrading the PowerPack to Monitor Prism Central

TIP: By default, installing a new version of a PowerPack will overwrite 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 the new version of the PowerPack from overwriting local changes for some commonly customized fields.

NOTE: If you are currently using the Dynamic Applications in this PowerPack to monitor devices, collection errors might occur for one or two polling cycles during the installation of a new version. To prevent collection errors during an upgrade, you can optionally disable collection for monitored devices before performing the following steps and re-enable collection after the upgrade.

To install this PowerPack:

1. Familiarize yourself with the [Known Issues](#) for this release.
2. See the [Before You Install or Upgrade](#) section. If you have not done so already, upgrade your system to the 10.2.0 or later release.
3. Download the *Nutanix: Base Pack* version 105 PowerPack from the Support Site to a local computer.
4. Go to the **PowerPack Manager** page (System > Manage > PowerPacks). Click the **[Actions]** menu and choose *Import PowerPack*. When prompted, import *Nutanix: Base Pack* version 105.
5. Click the **[Install]** button. For details on installing PowerPacks, see the chapter on *Installing a PowerPack* in the **PowerPacks** manual.

Installing or Upgrading the PowerPack to switch from Monitoring Prism Element to Monitoring Prism Central

If you monitor Prism Element and want to monitor Prism Central, upgrading to version 103 or greater of the PowerPack might require further steps, depending on if you need to keep historical data.

TIP: By default, installing a new version of a PowerPack will overwrite 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 the new version of the PowerPack from overwriting local changes for some commonly customized fields.

NOTE: If you are currently using the Dynamic Applications in this PowerPack to monitor devices, collection errors might occur for one or two polling cycles during the installation of a new version. To prevent collection errors during an upgrade, you can optionally disable collection for monitored devices before performing the following steps and re-enable collection after the upgrade.

If you need to preserve historical data, perform the following steps:

1. See the [Before You Install or Upgrade](#) section. If you have not done so already, upgrade your system to the 10.2.0 or later release.
2. Familiarize yourself with the [Known Issues](#) for this release.
3. Download *Nutanix: Base Pack* version 105 from the Support Site to a local computer.
4. Go to the **PowerPack Manager** page (System > Manage > PowerPacks). Click the **[Actions]** menu and choose *Import PowerPack*. Import *Nutanix: Base Pack* version 105. For details on importing PowerPacks, see the chapter on *Installing a PowerPack* in the **PowerPacks** manual.
5. Click the **[Install]** button. For details on installing PowerPacks, see the chapter on *Installing a PowerPack* in the **PowerPacks** manual.
6. Go to the **Device Components** page (Registry > Devices > Device Components). Find the Prism Element Component and select its checkbox.

7. In the **Select Action** drop-down list, under **Change Collection State**, select *Disabled (recursive)*.
8. Discover your Prism Central device. After discovery, all Prism Element devices that are a part of Prism Central will appear as component devices under the root device.
9. If you are discovering a Prism Central that contains Prism Element devices that have been previously discovered and user-disabled, the Prism Element devices will need to be re-enabled in order for normal Dynamic Application alignment and data collection to proceed. Go to the **Device Components** page (Registry > Devices > Device Components). Find the Prism Central device tree and select the checkboxes for the Prism Element devices that have been disabled in that tree. In the **Select Action** drop-down list, under **Change Collection State**, select *Active(recursive)*.
10. See the manual *Monitoring Nutanix* for instructions on using the PowerPack.

If you **do not** need to preserve historical data, perform the following steps:

1. See the [Before You Install or Upgrade](#) section. If you have not done so already, upgrade your system to the 10.2.0 or later release.
2. Familiarize yourself with the [Known Issues](#) for this release.
3. Go to the **Device Components** page (Registry > Devices > Device Components). Find the Prism Element Component and select its checkbox.
4. In the **Select Action** drop-down list, under **Change Collection State**, select *Disabled (recursive)*.
5. Go to the **Device Manager** page (Registry > Devices > Device Manager) and select all of the disabled Prism Element devices. In the **Select Action** drop-down list, under **Administration**, select *DELETE Selected Devices*. This will delete all of the devices except the root device.
6. Once those devices are removed, in the **Device Manager** page (Registry > Devices > Device Manager) select the root Prism Element device. In the **Select Action** drop-down list, under **Administration**, select *DELETE Selected Devices*.
7. Go to the **PowerPack Manager** page (System > Manage > PowerPacks). Find the version of the PowerPack you are currently on and select its checkbox. Click the **[Actions]** menu and choose *Delete PowerPack(s)*.
8. Download *Nutanix: Base Pack* version 105 from the Support Site to a local computer.
9. Go to the **PowerPack Manager** page (System > Manage > PowerPacks). Click the **[Actions]** menu and choose *Import PowerPack*. Import *Nutanix: Base Pack* version 105. For details on importing PowerPacks, see the chapter on *Installing a PowerPack* in the **PowerPacks** manual.
10. Click the **[Install]** button. For details on installing PowerPacks, see the chapter on *Installing a PowerPack* in the **PowerPacks** manual.
11. Discover your Prism Central device. After discovery, all Prism Element devices that are a part of Prism Central will appear as component devices under the root device.
12. See the manual *Monitoring Nutanix* for instructions on using the PowerPack.

Features

Version 105 of the *Nutanix: Base Pack* PowerPack includes the following features:

- Dynamic Applications that discover and collect configuration and performance data for Nutanix devices

- Event Policies and corresponding alerts that are triggered when Nutanix devices meet certain status criteria
- Device Classes for each type of Nutanix device 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 root device

Enhancements and Issues Addressed

The following enhancements and addressed issues are included in version 105 of the *Nutanix: Base Pack PowerPack*:

- An issue was addressed in which an undefined variable in the "Nutanix: Storage Pool Events" Dynamic Application caused a snippet error when the application was aligned to a Nutanix device with NOS 5.15. (Support Case: 00105014)
- The following Dynamic Applications were added to the PowerPack to support LCM data collection:
 - Nutanix: LCM Entities Cache
 - Nutanix: LCM Config
 - Nutanix: Prism Central LCM Config
 - Nutanix: LCM Cluster Config
 - Nutanix: LCM Host Config

Known Issues

The following known issues affect version 105 of the *Nutanix: Base Pack PowerPack*:

- When upgrading from version 102 or earlier of the PowerPack, the following stats—removed from version 103—will display as "No Data Found":
 - Nutanix: VM I/O Stats: CPU Usage
 - Nutanix: CVM I/O and Performance: CPU Utilization
- When discovering a Prism Central that contains Prism Element devices that have been previously discovered and user-disabled, the Prism Element devices will need to be re-enabled after the Prism Element devices have been moved to the new Prism Central device tree so that normal Dynamic Application alignment and data collection can proceed.
- Dynamic Application auto-alignment may take as long as 30 minutes to complete.
- When discovering Prism Element and Prism Central devices, do not include both types of devices in the IP list for discovery, as the DCM tree will not fully build out and will be missing component devices. It is recommended that you either discover individual Prism Element clusters, or discover a Prism Central device with multiple Prism Element clusters.

- When upgrading the PowerPack from a version earlier than version 101, duplicate virtual devices may be created in your Dynamic Component Map (DCM) when upgrading the PowerPack. This is due to the change to the unique ID and SL1 recognizing it as a new device.

To remove the old devices from the DCM, set the **Component Vanish Timeout** field (in either the **Global Threshold Settings** page [System > Settings > Thresholds> System], the **Device Thresholds** page for the component device [Registry > Devices > Device Manager > wrench icon > Thresholds], or the **Device Thresholds** page for a device higher in the component tree) on the DCM tree so that the old virtual devices get moved out of the DCM and only the newly discovered devices remain.

If you do not need to retain the old devices for historical data purposes, then the **Component Purge Timeout** field (in either the **Global Threshold Settings** page [System > Settings > Thresholds], the **Device Thresholds** page for the component device [Registry > Devices > Device Manager > wrench icon > Thresholds], or the **Device Thresholds** page for a device higher in the component tree) can be used to eventually remove those devices completely from the system.

- Discovery and auto-alignment of Dynamic Applications can take up to about 30 minutes to complete.
- If detailed discovery has completed and no Dynamic Applications are aligned, it may be due to a discovery Dynamic Application in the *Microsoft HyperV v2.1* PowerPack. If you are monitoring Hyper-V, delete the *Microsoft HyperV v2.1* PowerPack and install the updated *Microsoft Hyper-V Server v100* PowerPack.

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