

Kubernetes PowerPack Release Notes

Version 106

Overview

Version 106 of the "Kubernetes" PowerPack adds clearing events for the "Kubernetes: Node Ready" and "Kubernetes: Node Not Ready" event policies and changes 14 Dynamic Applications to bulk snippets to improve performance.

- **Minimum Required Skylar One (SL1) Version**: 12.3.0

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Before You Install or Upgrade

Before you install the "Kubernetes" PowerPack, ensure that you are running version 12.3.0 or later of Skylar One.

NOTE: For details on upgrading Skylar One, see the relevant *Skylar One Platform Release Notes*.

In addition, before installing or upgrading the PowerPack, you must first import and install the *Linux Base Pack* PowerPack version 103 or later. The PowerPack leverages the *Linux Base Pack* PowerPack and will not work properly if it is not also installed.

If you are upgrading from version 101 to version 102 or later of the PowerPack, you must delete the version 101 dashboards on Skylar One. To do so, perform the following steps:

1. Go to the **Device Dashboards** page (System > Customize > Device Dashboards).
2. Search for "Kubernetes" in the *Device Dashboard Name* column.
3. Select the checkbox for each Kubernetes dashboard.
4. In the ***Select Actions*** drop-down field, select *Delete Dashboards*.
5. Click the **[Go]** button.
6. Click the **[OK]** button to confirm.

Installation and Upgrade Process

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 when installing 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.

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 while you install a new version. To prevent these errors, disable collection for the monitored devices before you complete the following steps. You can then re-enable collection after the installation completes.

To install this PowerPack:

1. Search for and download the PowerPack from the **PowerPacks** page at the ScienceLogic Support Center (Skylar One > PowerPacks).
2. In Skylar One, go to the **PowerPack Manager** page (System > Manage > PowerPacks).
3. Click the **Actions** menu and select *Import PowerPack*. The **Import PowerPack** modal appears.
4. Click **[Browse]** and go to the PowerPack file from step 1.
5. Select the PowerPack file and click **[Import]**. The **PowerPack Installer** modal appears and displays a list of the PowerPack contents.
6. Click **[Install]**. The PowerPack appears on the **PowerPack Manager** page.

NOTE: If you are upgrading from version 100 or greater of the Kubernetes PowerPack, install the DockerPowerPack version 102 or greater before upgrading, if you have not done so already.

For more information about using the PowerPack, see the *Monitoring Kubernetes* manual.

Included Features

This release includes the following features:

- Dynamic Applications to discover and monitor Kubernetes devices
- Device classes for each of the Kubernetes devices the PowerPack can monitor
- Event policies and corresponding alerts that are triggered when Kubernetes devices meet certain status criteria
- A universal credential type and guided discovery workflow for discovering Kubernetes devices

- Device dashboards that display information about Kubernetes devices
- Run book action and automation policies that do the following:
    - Align Dynamic Applications from the "Linux Base Pack" PowerPack to Kubernetes nodes and report if a successful alignment has occurred to the ScienceLogic Data Collector or All-In-One Appliance
    - Ensure that Namespaces (and their children) have a 1-hour vanishing timer, to properly reflect topology changes

Enhancements and Issues Addressed

This release includes the following enhancements and addressed issues:

- Added clearing events for the "Kubernetes: Node Ready" and "Kubernetes: Node Not Ready" event policies. (Case: 00548222)
- Changed the following Dynamic Applications from Snippet Configuration or Snippet Performance to Bulk Snippet Configuration or Bulk Snippet Performance, to improve performance:
    - "Kubernetes: Controller Discovery"
    - "Kubernetes: Controller Performance"
    - "Kubernetes: Controller Pod Configuration"
    - "Kubernetes: Controller Pod Performance"
    - "Kubernetes: Horizontal Pod Autoscaler Configuration"
    - "Kubernetes: Ingress Controller Configuration"
    - "Kubernetes: Ingress Controller Discovery"
    - "Kubernetes: Label Topology Cache"
    - "Kubernetes: Label Topology Discovery"
    - "Kubernetes: Namespace Discovery"
    - "Kubernetes: Node Configuration"
    - "Kubernetes: Node Performance"
    - "Kubernetes: Pod Performance (Node)"
    - "Kubernetes: Service Configuration"

    (Case: 00710688)

Known Issues

The following known issues affect version 106 of the "Kubernetes" PowerPack:

- In systems in which a Kubernetes cluster is deleted or shut down, errors and exceptions may continue to appear in system and device logs. If your cluster has been deleted, you can disable data collection to stop the creation of more system log exceptions.

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