



Kubernetes: SL1 Dashboards PowerPack Release Notes

Version 100

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Overview

Version 100 is the initial version of the *Kubernetes: SL1 Dashboards* PowerPack. Version 100 includes Dashboards that present graphical representations of the configuration data and performance metrics that are collected for Kubernetes devices by the *Kubernetes* PowerPack.

NOTE: These dashboards are intended for use only in the new SL1 user interface and will not load in the classic ScienceLogic platform user interface.

- **Minimum Required SL1 Version:** 8.8.0
- **Minimum Required AP2 Version:** 5.114.6
- **Minimum Required Widget Components Version:** 2.168.10
- **Minimum Required *Kubernetes* PowerPack Version:** 100
- **Support Status:** Beta

This document describes:

- [Pre-install information](#)
- [The installation process for the PowerPack](#)
- [The features included in version 100](#)
- [The known issues in Version 100](#)

Before You Install

Before installing the *Kubernetes: SL1 Dashboards* PowerPack version 100, you must first ensure that you are running version 8.8.0 or later of SL1, AP2 version 5.114.6 or later, and Widget Components version 2.168.10 or later.

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

You must also import and install the *Kubernetes* PowerPack version 100 or later before installing the *Kubernetes: SL1 Dashboards* PowerPack version 100.

Installation Process

To install version 100 of the *Kubernetes: SL1 Dashboards* PowerPack, perform the following steps:

1. Familiarize yourself with the [Known Issues](#) for this release.
2. If you have not done so already, upgrade your SL1 system to the 8.8.0 or later release.
3. If you have not done so already, install the *Kubernetes* PowerPack version 100 or greater.
4. Download version 100 of the *Kubernetes: SL1 Dashboards* PowerPack from the Customer Portal to a local computer.
5. Go to the **PowerPack Manager** page (System > Manage > PowerPacks). Click the **[Actions]** menu and choose *Import PowerPack*. When prompted, import version 100 of the *Kubernetes: SL1 Dashboards* PowerPack.
6. After importing the PowerPack, you will be prompted to install the PowerPack. Click the **[Install]** button to install the PowerPack.

Included Features

The following dashboards are included in version 100 of the *Kubernetes: SL1 Dashboards* PowerPack:

- A "Kubernetes: Cluster" dashboard, which includes the following widgets that display overview data about your Kubernetes clusters:
 - Kubernetes Clusters
 - Number of CPUs
 - Number of Controllers
 - Total Number of Nodes
 - Number of Pods
 - Number of SL1 Devices
 - Total Ready Nodes
 - Pod Lifetime
 - Top 10 - Host Nodes by CPU Utilization
 - Selected Node CPU Utilization
 - Host Nodes by Running Containers
 - Selected Node Running/Stopped Containers
 - Container Nodes by TCP Segments
 - Selected TCP Segments Transmitting/Receiving
 - Selected Container Transmitting/Receiving Dropped

- A "Kubernetes: Namespace" dashboard, which includes the following widgets that display data about your Kubernetes namespaces:
 - Kubernetes Namespace Folders
 - Selected Folder Namespace List
 - Selected CPU Utilization Analysis
 - Selected Memory Utilization Analysis
 - Top 10 - Page Faults
 - Selected Page Faults
 - Top 10 - Major Page Faults
 - Selected Major Page Faults
 - Top 10 - Memory Utilization
 - Selected Memory Utilization

- A "Kubernetes: Namespaces Folder" dashboard, which includes the following widgets that display data about your Kubernetes namespace folders:
 - Namespace Folder List
 - Selected Namespace List
 - Selected Namespace CPU
 - Selected Namespace Memory
 - Top 10 - Selected Controller CPU
 - Top 10 - Selected Controller Memory
 - Selected Namespace Page Faults
 - Selected Namespace Major Page Faults

- A "Kubernetes: Node" dashboard, which includes the following widgets that display data about your Kubernetes nodes:
 - Kubernetes Cloud
 - Kubernetes Nodes
 - Number of Pods
 - Average Containers per Pod
 - CPU Utilization
 - Memory Utilization
 - Number of Containers
 - Top 10 Interfaces by Inbound Packets
 - Selected Interfaces Packets In/Out
 - Top 10 Node Images by CPU Utilization
 - Selected CPU Utilization
 - Top 10 File Systems by Utilization
 - Selected File Systems by Utilization

Known Issues

The following known issue affects *Kubernetes: SL1 Dashboards PowerPack* version 100:

- Dashboard widgets might be slow to load or display red bells. If this occurs, you can do the following to address the issue:

1. Start an SSH session into your SL1 appliance.
2. At the shell prompt, enter the following to open the `em7_limits.conf` file for editing:

```
cd /etc/nginx/conf.d
sudo cp em7_limits.conf em7_limits.conf.backup
sudo vi em7_limits.conf
```

3. Locate the line that begins with "`limit_req zone=addr_req`" and update it to the following:

```
limit_req zone=addr_req burst=5000 nodelay;
```

4. Locate the lines that begin with "`limit_conn`" and update them to the following:

```
limit_conn perip 10000;
limit_conn perserver 10000;
```

5. Restart nginx. To do this, enter the following at the shell prompt:

```
sudo systemctl restart nginx
```

- Dashboards might not appear immediately in the SL1 user interface after you import the *Kubernetes: SL1 Dashboards* PowerPack using the PowerPack Importer. If this occurs, you can do the following to address the issue:

1. Type the following URL into your web browser:

```
https://<hostname or  
ip>/gql?query=m%u0026%u0026importContentObjectsFromPowerPackQueue%u0026%u0026%0  
A
```

2. When prompted, enter your user credentials.
3. Click the GraphQL "play" button. If successful, a "true" message appears in the right-hand panel.
4. Verify that the dashboards now appear by returning to the **Dashboards** page and refreshing your web browser.

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