Kubernetes: SL1 Dashboards PowerPack Release Notes

Version 102

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Overview

Version 102 of the *Kubernetes: SL1 Dashboards* PowerPack includes autoselect for context-driving widgets and the addition of forecast widgets.

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**: 8.12.1
- **Minimum Required AP2 Version**: 5.125.44
- **Minimum Required Widget Components Version**: 2.175.0
- **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 102*
- *The enhancements and issues addressed in version 102*

Before You Install

Before installing the *Kubernetes: SL1 Dashboards* PowerPack version 102, you must first ensure that you are running version 8.12.1 or later of SL1, AP2 version 5.125.44 or later, and Widget Components version 2.175.0 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 102.

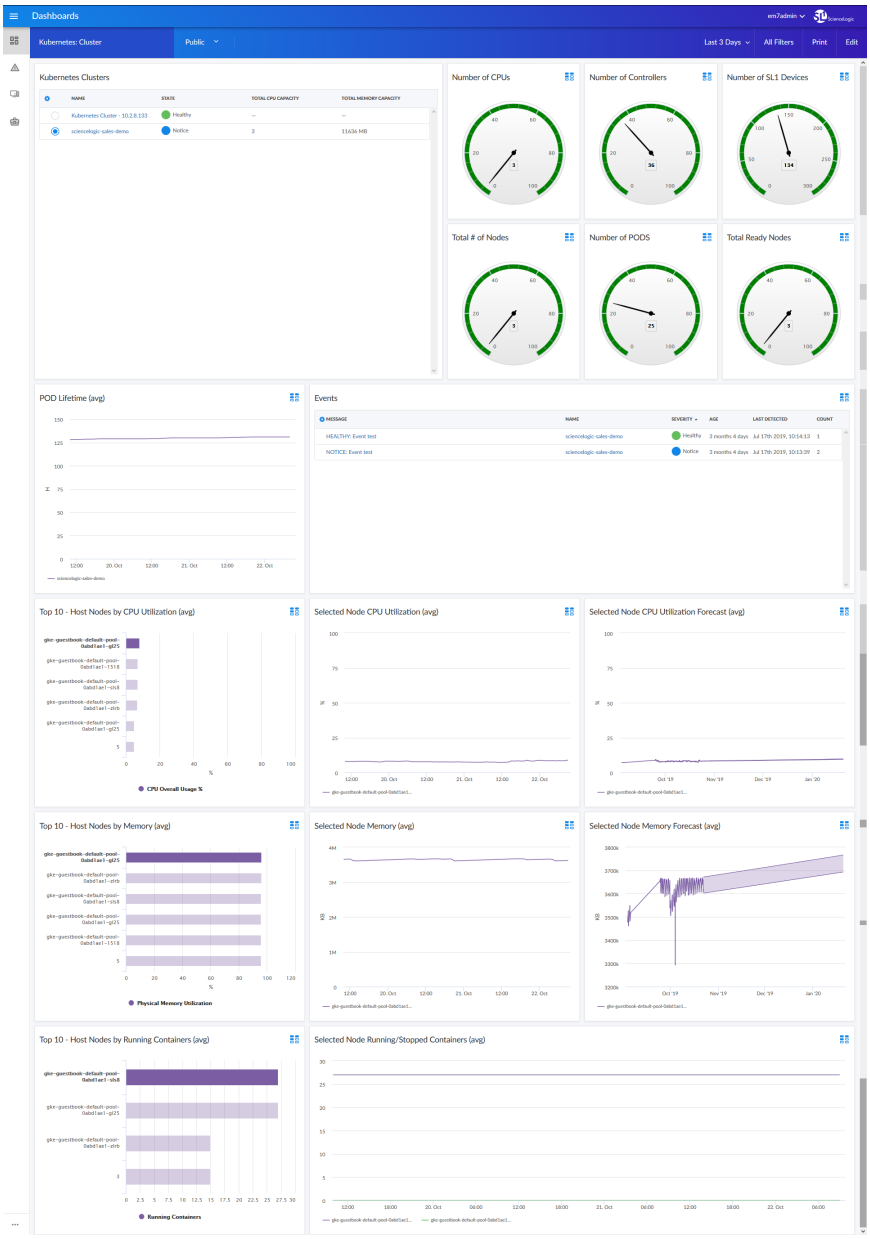
Installation Process

To install version 102 of the *Kubernetes: SL1 Dashboards* PowerPack, perform the following steps:

1. If you have not done so already, upgrade your SL1 system to the 8.12.1 or later release.
2. If you have not done so already, install the *Kubernetes* PowerPack version 100 or greater.
3. Download version 102 of the *Kubernetes: SL1 Dashboards* PowerPack from the Customer Portal 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 version 102 of the *Kubernetes: SL1 Dashboards* PowerPack.
5. After importing the PowerPack, you will be prompted to install the PowerPack. Click the **[Install]** button to install the PowerPack.

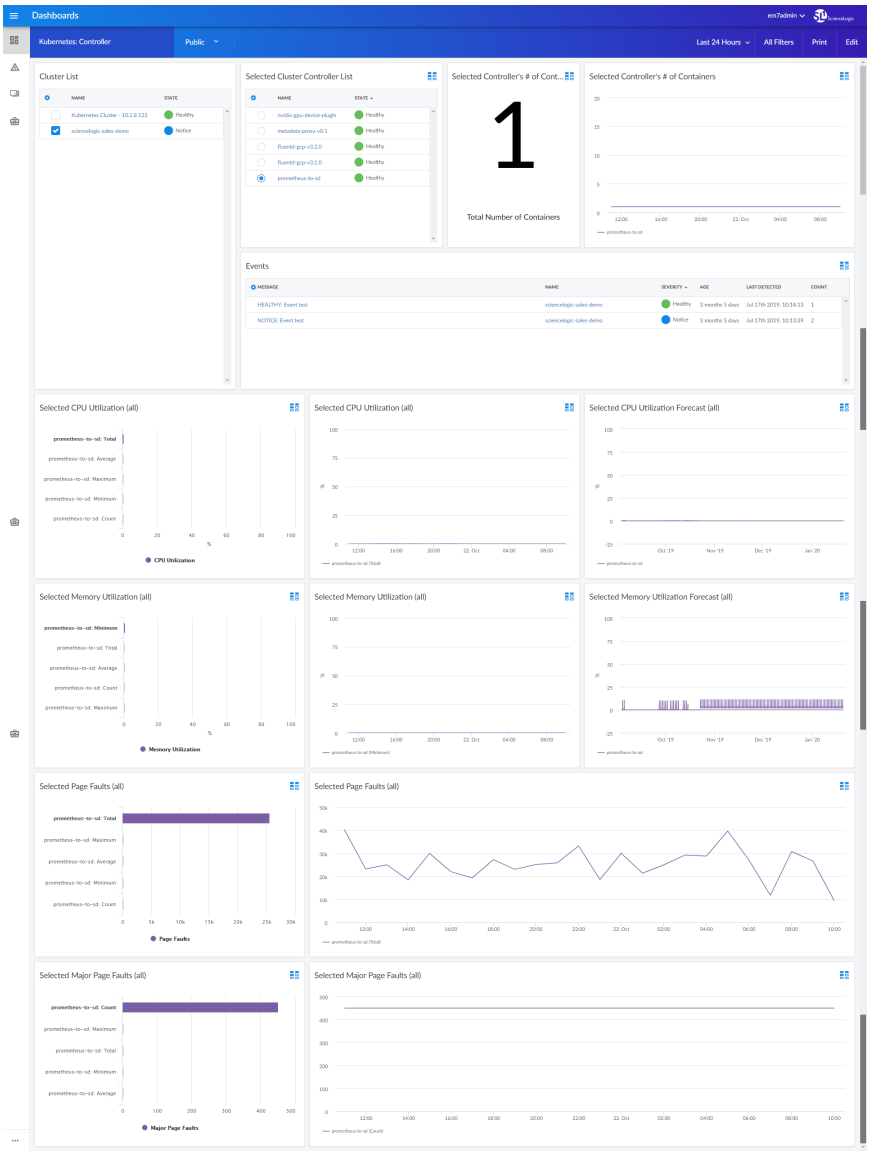
Included Features

The following dashboards are included in version 102 of the *Kubernetes: SL1 Dashboards* PowerPack:



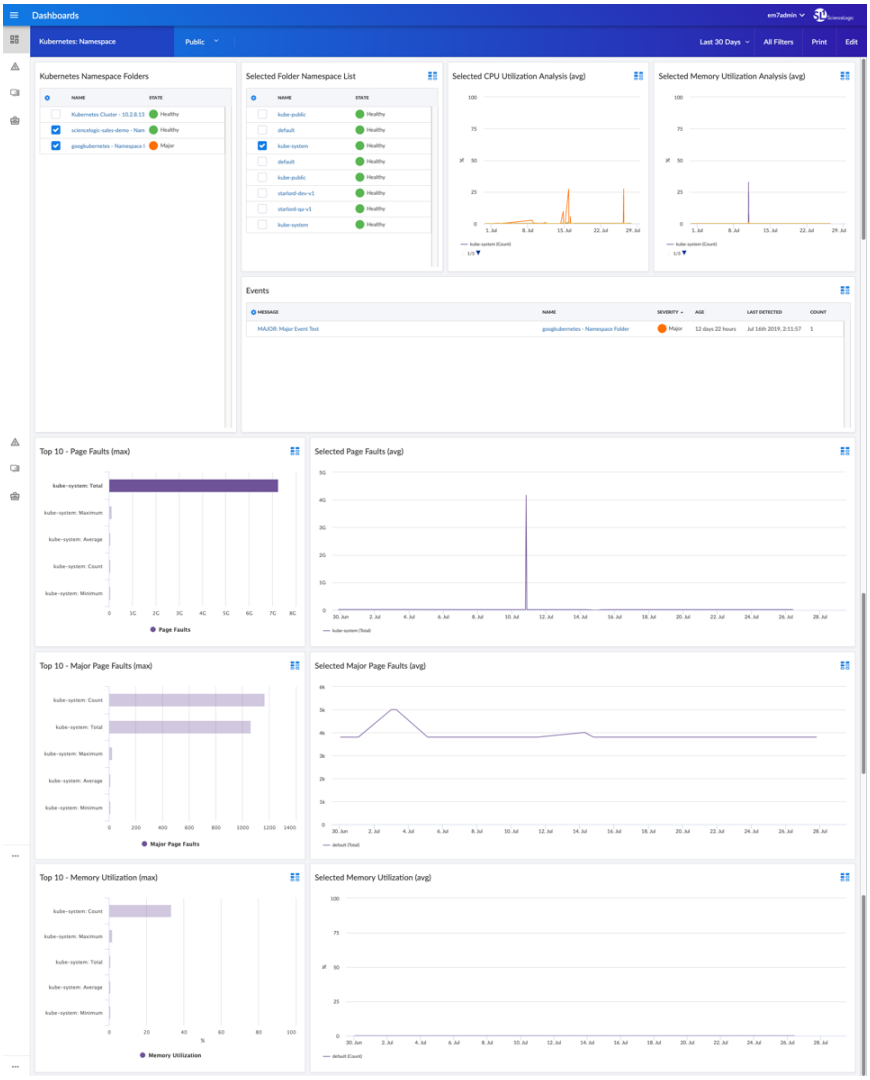
- A "Kubernetes: Cluster" dashboard, which includes the following widgets that display overview data about your Kubernetes clusters:
    - Kubernetes Clusters
    - Number of CPUs
    - Number of Controllers
    - Total Number of SL1 Devices
    - Total Number of Nodes
    - Number of PODS

- Total Ready Nodes
- POD Lifetime (avg)
- Events
- Top 10 - Host Nodes by CPU Utilization (avg)
- Selected Node CPU Utilization (avg)
- Selected Node CPU Utilization Forecast (avg)
- Top 10 - Host Nodes by Memory (avg)
- Selected Node Memory (avg)
- Selected Node Memory Forecast (avg)
- Top 10 - Host Nodes by Running Containers (avg)
- Selected Node Running/Stopped Containers (avg)



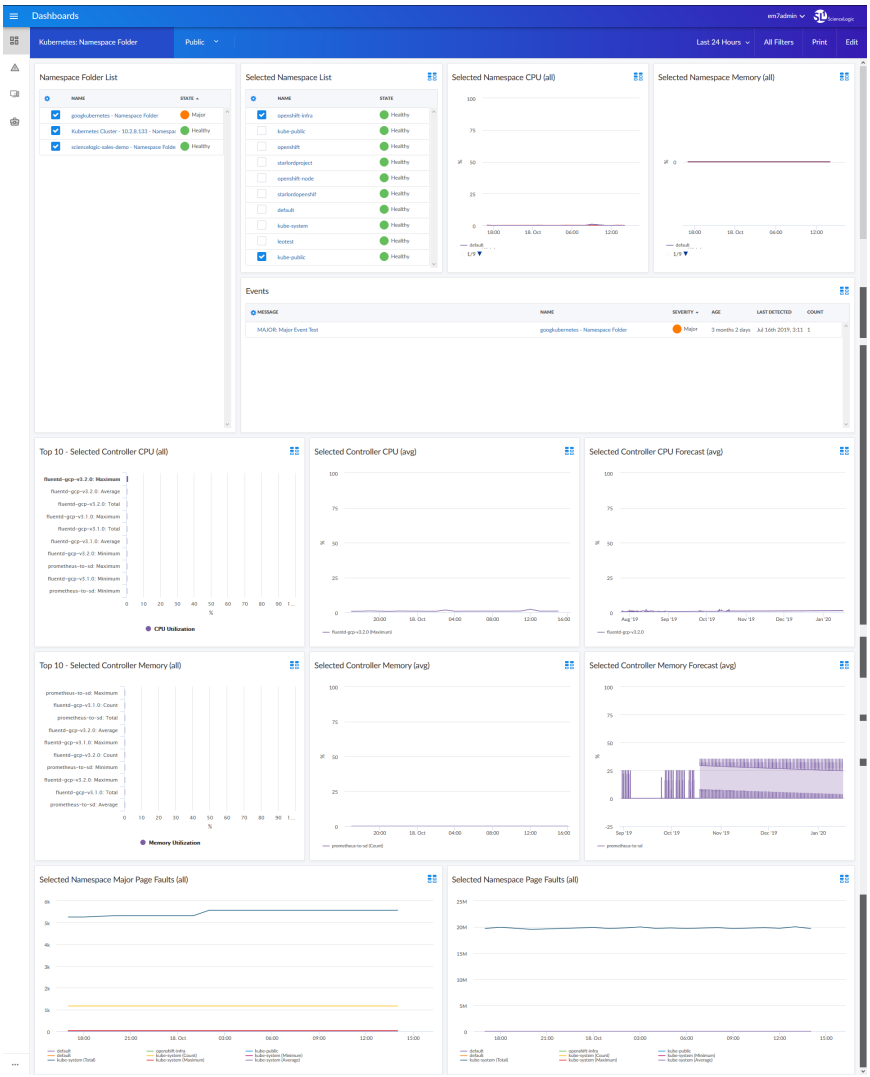
- A "Kubernetes: Controller" dashboard, which includes the following widgets that display data about your Kubernetes controllers:
    - Cluster List
    - Selected Cluster Controller List
    - Selected Controller's Number of Containers (Big Number)
    - Selected Controller's Number of Containers (Line Chart)
    - Events
    - Selected CPU Utilization (all)
    - Selected CPU Utilization Forecast (all)
    - Selected Memory Utilization (all)

- Selected Memory Utilization Forecast (all)
- Selected Page Faults (all)
- Selected Major Page Faults (all)



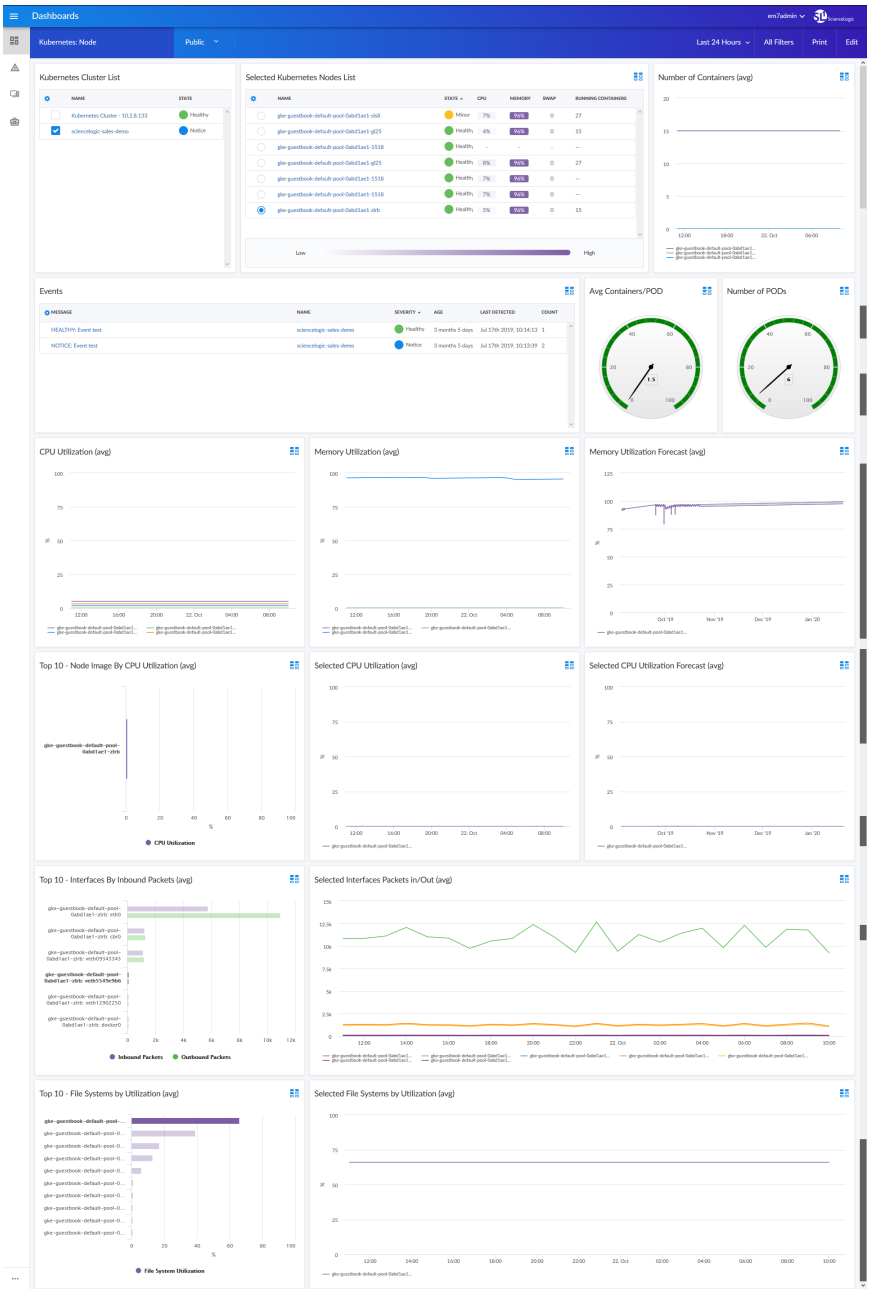
- A "Kubernetes: Namespace" dashboard, which includes the following widgets that display data about your Kubernetes namespaces:
  - Kubernetes Namespace Folders
  - Selected Folder Namespace List
  - Selected CPU Utilization Analysis (avg)
  - Selected Memory Utilization Analysis (avg)
  - Events
  -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

- Selected Page Faults (avg)
- Top 10 - Major Page Faults (max)
- Selected Major Page Faults (avg)
- Top 10 - Memory Utilization (max)
- Selected Memory Utilization (avg)



- A "Kubernetes: Namespace Folder" dashboard, which includes the following widgets that display data about your Kubernetes namespace folders:
    - Namespace Folder List
    - Selected Namespace List
    - Selected Namespace CPU (all)
    - Selected Namespace Memory (all)

- Events
- Top 10 - Selected Controller CPU (all)
- Selected Controller CPU (avg)
- Selected Controller CPU Forecast (avg)
- Top 10 - Selected Controller Memory (all)
- Selected Controller Memory (avg)
- Selected Controller Memory Forecast (avg)
- Selected Namespace Major Page Faults (all)
- Selected Namespace Page Faults (all)



- A "Kubernetes: Node" dashboard, which includes the following widgets that display data about your Kubernetes nodes:
    - Kubernetes Cluster List
    - Selected Kubernetes Nodes List
    - Number of Containers (avg)
    - Events
    - Average Containers per POD

- Number of PODs
- CPU Utilization (avg)
- Memory Utilization (avg)
- Memory Utilization Forecast (avg)
- Top 10 Node Images by CPU Utilization (avg)
- Selected CPU Utilization (avg)
- Selected CPU Utilization Forecast (avg)
- Top 10 Interfaces by Inbound Packets (avg)
- Selected Interfaces Packets In/Out (avg)
- Top 10 File Systems by Utilization (avg)
- Selected File Systems by Utilization (avg)

Enhancements and Issues Addressed

The following enhancements and addressed issues are included in version 102 of the *Kubernetes: SL1 Dashboards* PowerPack:

- Autoselect for context-driving widgets has been enabled in the "Microsoft: Exchange Server Performance" dashboard.
- The following widgets were added to the "Kubernetes: Cluster" dashboard:
  - Events
  - Selected Node CPU Utilization Forecast
  - Top 10 - Host Nodes by Memory
  - Selected Node Memory
  - Selected Node Memory Forecast
  - POD Lifetime
- The Events widget was added to the "Kubernetes: Namespace" dashboard.
- The following widgets were added to the "Kubernetes: Namespace Folder" dashboard:
  - Events
  - Selected Controller CPU
  - Selected Controller CPU Forecast
  - Selected Controller Memory
  - Selected Controller Memory Forecast
- The Events, Memory Utilization Forecast, and Selected CPU Utilization Forecast widgets were added to the "Kubernetes: Node" dashboard.

- The Events, Selected Memory Utilization Forecast, and Selected CPU Utilization Forecast widgets were added to the "Kubernetes: Controller" dashboard.

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