

Kubernetes: SL1 Dashboards PowerPack Release Notes

Version 102

Table of Contents

Overview	3
Before You Install	. 3
Installation Process	. 4
Included Features	
Enhancements and Issues Addressed	

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.

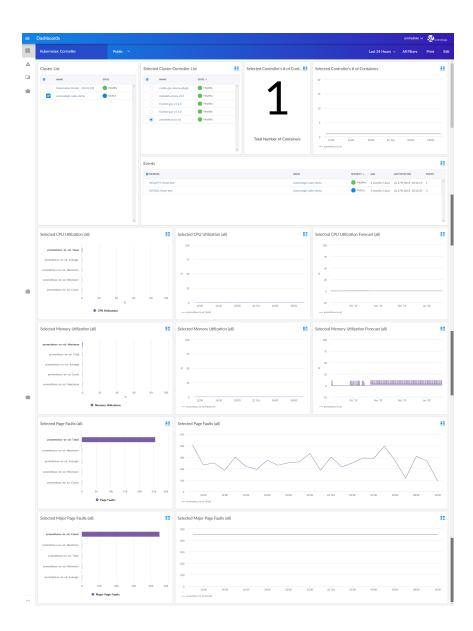
Included Features

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

	Dashboards Kubernetes: Cluster Public ~	antibilitie 🗸 🔁 analoga Last 3 Days 🗸 Alf Filters - Print - Edit
	Kubernetes Clusters	Number of CPUs 🚦 Number of Controllers 🚦 Number of SL1 Devices
) (0)	Adverse Australia P Ann Konservatori Adverse Australia P Ann Adverse Australia P Ann	Total # of Nodes ES Number of PODS ES Total Ready Nodes ES
	POD Lifetime (wg)	
	150	MISSAGE NAME SVERTY - AGE LASTETICTED COUNT
	125	HEALTIN' Event test sciencedagic-sales-deno 🔴 Healthy 3 months 4 days. Jul 17th 2019; 5014-13 1
	100	NOTICE Event test sciencedagio-sales demo 🕒 Notice 3 months 4 days .M 17th 2019, 10:12:39 2
	I 75	
	50	
	25	
	0 1200 20.0ct 1200 21.0ct 1200 22.0ct	
	- ušeninkajo-uševdeno	
	Top 10 - Hot Node by CPU URlitation log()	Selected Node CPU Utilization forecast long) El 10 10 7 10 7 7 8 10 9 7 9 7 9 7 9 7 9 7 9 10 10 10
	Top 10 - Host Nodes by Memory (avg)	Selected Node Memory (avg)
	de candra de	M 200 M <t< th=""></t<>
	Top 10 - Host Nodes by Running Containers (avg)	Selected Node Running/Stopped Containers (wg)
	rop 10 - most wodes by Kunning Containers (avg)	Selected Node Running/Stopped Containers (avg) #8
	gke-guesthouk-default-pool- Oubd1ac1-s58	
	şke-gərətbəsk-detaufi-pool- Qabdi ari -q25	20
	-	8
	gke-gaestbook-default-pool- GabdTaeT-strb	10
	3	s
	0 2.5 5 7.5 10 12.5 15 17.5 20 22.5 25 27.5 30	0 1200 1800 20.0x1 0400 1200 1800 21.0x1 0400 1200 1800 22.0x1 0400
	Renning Containers	

- 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)
 - \circ 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)

≡ Dashb	poards							em7admin 🗸	Decementaria
	rmetes: Namespace Public 👻						Last 30 Days	 All Filters 	Print Edit
	Name gate Name Maximum Gate Maximum Gate 2 stendard state from Sate Marka 2 gatedationers Marka		55 Nore No	Selected CPU Utilization 10 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25		29. M	sidected Memory USIIIs 30 31 32 33 34 30 35 35 35 36 36 36 36 36 36 36 36 36 36	15.14 22	M 23.M
in the second se	10 - Page Faults (max) where the resters Arrays a cycless Macana a cycless Macana a cycless Macana a cycless Macana a cycles Macanaa a cycles Macana a cycles Macana a	5 Selected Page 1 5 5 5 5 5 5 5 5 5 5 5 5 6 5 5 5 5 5 5	Faults (avg) 2.34 4.34 4.3 14	M E.M HÉM	12°M 14°M 1	alan salan	21.M 22.M	34. ¹ .M 24. ¹ .M	21.14
ku kube- kub		a a	Page Faults (avg)	w allw toldw	2).M 34,M 1	6 Jul 38 Jul	20 4 22 4	34.5M 29.5M	28.04
ku kube- kub	With Propertures In - Memory Utilization (main) Inter-system Reading registers Re	- Anal Not 55 Selected Mens 7 - 7 - 8 50 - 10 - 30 - 30 - 30 -	ny Utilization (wg)	6.M 6.M 10.M	ијм ијм	16 M IEM	· 21 M 22 M	Dim Dim	55
_	% Memory Utilization	30. Jun — detait (Court)	2.34 4.34	6.M 8.M 20.M	32.3M 54.3M	16 A/ 18 A/	20. Jul 22. Jul	26.M 26.M	

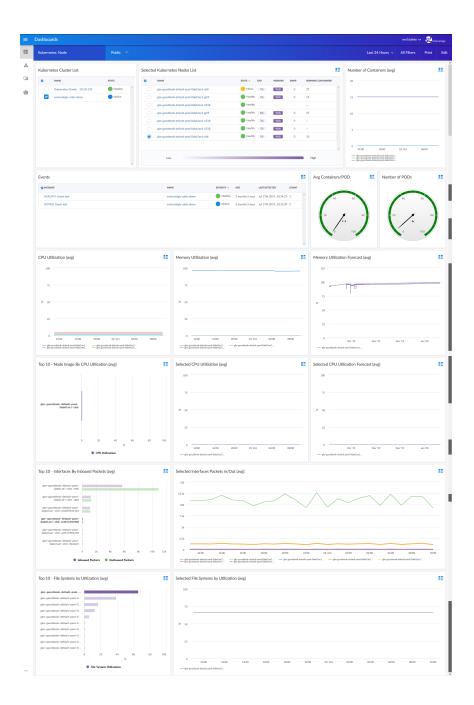
- A "Kubernetes: Namespace" dashboard, which includes the following widgets that display data about your Kubernetes namespaces:
 - Kubernetes Namespace Folders
 - Selected Folder Namespace List
 - Selected CPU Utilization Analysis (avg)
 - Selected Memory Utilization Analysis (avg)
 - Events
 - Top 10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

lashboards								SD som
							Last 24 Hours v All Filters	
Namespace Folder List	Selected Names	pace List	Selec	ed Namespace CPU (all)		88	Selected Namespace Memory (all)	
O NAME STATE -	O NAME	STATE		•				
googluberretes - Namespace Folder OMajor	n epenshik		~					
Kubernetes Cluster - 10.2.8.133 - Namespac 🔵 Healthy	kibepubl			5				
sciencelogic-sales-demo - Namespace Tolde 🔴 Healthy	openabite							
	starfordpr	sject Healthy		0			ж. о. –	
	openshift	node 🔴 Healthy						
	starlordop			5				
	detsuit	Healthy						
	kube-syst	em 🔴 Healthy		0 18:00 18:0xt	06:00	12:00	18:00 18:0:1 06:00	12:00
	lettest	Healthy		clash			- etat	
	🗹 kube-publ	ie 🔴 Healthy	- 1 - 1	7 V			1/9 🔻	
	Events							
	© MESSAGE			NAME			SEVERITY - AGE LAST DETICTED	COUNT
	MAJOR: Major Ev	net Test		and the second se	hereetes - No	wespace Folder	Major 3 months 2 days Ad 16th 2019, 3:11	
Top 10 - Selected Controller CPU (all)	- IL	Selected Controller CPU (avg)				Selected Contro	oller CPU Forecast (avg)	
		Jon				100		
fluentd-gcp-v1.2.0: Maximum		100				100		
fluentd-gcp-v8.2.0: Average fluentd-gcp-v5.2.0: Total								
fiventd-gcp-v3.1.0: Maximum		75				75		
Reentd-gcp-v3.1.0: Total								
flaentd-gcp-v3.3.0: Average flaentd-gcp-v3.3.0: Minimum		¥ 50				3 ⁴ 50		
prometheus-to-sd: Maximum								
Ruento-pcp-v3.1.0: Minimum		25				z		
Ruentd-gcp-v3.1.0. Minimum prometheus-to-sd. Minimum	80 70 80 90 I	25				25		
Ruentd-gcp-v3.1.0. Minimum prometheus-to-sd. Minimum	60 70 80 90 l	25 0	Qc1 0400	0800 1200 54	56:00	25 0 Aug 19 — Ruenti pp-1220	500 ¹¹⁰ Doc ¹¹⁰ Nov ¹¹⁰ Doc ¹¹⁰	Jan 20
Buento-gqu-v3.1.0. Minimum prometheus-to-od: Minimum 0 10 20 50 40 50 %	60 70 80 90 I	— fuotid grp-v12.0 Meximum)				Aug 19 — fuotid grp-v120		
hand gard 1.1 Minnen printing of 1.0 Minnen 0 10 22 30 40 30 • CPU bitantian Top 10 - Selected Controller Memory (al)		— fuotid grp-v12.0 Meximum)				Aug 19 — fuotid grp-v120	,	
heref gard 1.0 Minnen parathere to 4 Minnen 0 10 20 30 40 50 5 CPU biblication Top 10 - Selected Controller Memory (all)		- fuenti go-v120 Hasinuri Selected Controller Memory (a				Aug 19 — fuend-gap-v12.0 Gelected Contro	,	
hand gard 1.1 Minnen printing of 1.0 Minnen 0 10 22 30 40 30 • CPU bitantian Top 10 - Selected Controller Memory (al)		fundigp-v32.0 Medmari Selected Controller Memory (2 100				Aug 19 — fuend-gap-v12.0 Gelected Contro	,	
exercise 1.5 minute methods in the second se		- fuenti gop-v2.20 Havinum) Selected Controller Memory (a				Aug 19 — fuent/gp-v125 Selected Contro 100	,	
Inter approx 1.8 mmm in the second se		fundigp-v32.0 Medmari Selected Controller Memory (2 100				Aug 19 — fuent/gp-v125 Selected Contro 100) iller Memory Forecast (avg)	
hear goal 1.8 minute provintion to 4.8 minute provintion to 4.8 minute PC 93 biological manufactoria of Manusci PC 94 b		fundigp-v32.0 Medmari Selected Controller Memory (2 100				Aug 19 — fuenti gp-v122 Selected Contro 100 75 50	,	
terreproduction for the former of the f		fundigp-v32.0 Medmari Selected Controller Memory (2 100				Aug 19 — Romté gp-v225 Selected Contro 100 75 50 25 25	Jier Memory Forecast (svg)	
Learning of LS INNERS Provided Stress of LS INNERS 0 10 20 40 00 40 00 00 C C V Debauers Top 10 - S-Sected Controller Memory (all There go - LS IONERS Rearring of LS IONERS Rea		fundigp-v32.0 Medmari Selected Controller Memory (2 100				Aug 19 — fuents gp-v122 Selected Contro 100 75 50 26) iller Memory Forecast (avg)	
territory (1, 2 minute) vice (1, 2		- fund gr-425 humes				Aug 19 — Round pp-v222 Selected Contro 100 75 50 25 25 0	Jier Memory Forecast (svg)	
territory (1, 2 minute) vice (1, 2	55	fundigp-v32.0 Medmari Selected Controller Memory (2 100	ivg)			Aug 19 — Romté gp-v225 Selected Contro 100 75 50 25 25	ster Memory Forecast (org)	
e d'al termina e d'al termina	55	fund gr-425 human Selected Controller Memory (s 100 22 37 37 30 0 200 18)	1 vg) Da sico	000 1100 5	5500	Aq: 19 - front gp-v122 Selected Contro 100 75 60 25 25 25 25 25 50 25 25 50 25 25 25 25 25 25 25 25 25 25	ster Memory Forecast (org)	Jan 20
هدارها المعالية	55	fund gr-425 human Selected Controller Memory (s 100 22 37 37 30 0 200 18)	1 vg) Da sico		5500	Aq: 19 - front gp-v122 Selected Contro 100 75 60 25 25 25 25 25 50 25 25 50 25 25 25 25 25 25 25 25 25 25	ster Memory Forecast (org)	Jan 20
e order of the sector of the s	55	fund gr-425 human Selected Controller Memory (s 100 22 37 37 30 0 200 18)	ou eico	000 1100 5	5500	Aq: 19 - front gp-v122 Selected Contro 100 75 60 25 25 25 25 25 50 25 25 50 25 25 25 25 25 25 25 25 25 25	ster Memory Forecast (org)	Jan 20
e order of the sector of the s	55	fund gr-425 human Selected Controller Memory (s 100 22 37 37 30 0 200 18)	₩g) Dr. 0400 885 Setec 254 204	000 1100 5	5500	Aq: 19 - front gp-v122 Selected Contro 100 75 60 25 25 25 25 25 50 25 25 50 25 25 25 25 25 25 25 25 25 25	ster Memory Forecast (org)	Jan 20
e order of the sector of the s	55	fund gr-425 human Selected Controller Memory (s 100 22 37 37 30 0 200 18)	ou eico	000 1100 5	5500	Aq: 19 - front gp-v122 Selected Contro 100 75 60 25 25 25 25 25 50 25 25 50 25 25 25 25 25 25 25 25 25 25	ster Memory Forecast (org)	Jan 20
e order of the sector of the s	55	fund gr-425 human Selected Controller Memory (s 100 22 37 37 30 0 200 18)	₩g) Dr. 0400 885 Setec 254 204	000 1100 5	5500	Aq: 19 - front gp-v122 Selected Contro 100 75 60 25 25 25 25 25 50 25 25 50 25 25 25 25 25 25 25 25 25 25	ster Memory Forecast (org)	Jan 20
e order of the sector of the s	55	fund gr-425 human Selected Controller Memory (s 100 22 37 37 30 0 200 18)	PVg)	000 1100 5	5500	Aq: 19 - front gp-v122 Selected Contro 100 75 60 25 25 25 25 25 50 25 25 50 25 25 25 25 25 25 25 25 25 25	ster Memory Forecast (org)	Jan 20
e order of the sector of the s	55	fund gr-425 human Selected Controller Memory (s 100 22 37 37 30 0 200 18)	tvg) αα σίοο ΞΞΞ Selec 25M 25M	000 1100 5	5500	Aq: 19 - front gp-v122 Selected Contro 100 75 60 25 25 25 25 25 50 25 25 50 25 25 25 25 25 25 25 25 25 25	ster Memory Forecast (org)	Jan 20
territory or 10, 20	85 0 70 90 90 L	- heat gr-423 Honore J	20g)	eine sine s ed Namespace Page Fault	5000 tks (all)	A at 23 A at 23 Selected Control 100 50 50 50 50 50 50 50 50 50	3 But and the second bogs JHer Memory Forecast bogs But and the second bogs But and the second bogs But and the second bogs But and the second bogs But and the second bogs But and the second bogs But and the second bogs But and the second bogs But and the second bogs But and the second bogs But and the second bogs But and the second bogs But and the second bogs But and the second bogs But and the second bogs	Jun 20
territory or 10, 20	55	fund gr-425 human Selected Controller Memory (s 100 22 37 37 30 0 200 18)	27KB)	000 1100 5	5000 tks (all)	- Aug 19 - Reading up vil 22 Selected Control 100 	3 But and the second bogs JHer Memory Forecast bogs But and the second bogs But and the second bogs But and the second bogs But and the second bogs But and the second bogs But and the second bogs But and the second bogs But and the second bogs But and the second bogs But and the second bogs But and the second bogs But and the second bogs But and the second bogs But and the second bogs But and the second bogs	

- 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.

© 2003 - 2019, ScienceLogic, Inc.

All rights reserved.

LIMITATION OF LIABILITY AND GENERAL DISCLAIMER

ALL INFORMATION AVAILABLE IN THIS GUIDE IS PROVIDED "AS IS," WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED. SCIENCELOGIC [™] AND ITS SUPPLIERS DISCLAIM ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT.

Although ScienceLogic[™] has attempted to provide accurate information on this Site, information on this Site may contain inadvertent technical inaccuracies or typographical errors, and ScienceLogic[™] assumes no responsibility for the accuracy of the information. Information may be changed or updated without notice. ScienceLogic[™] may also make improvements and / or changes in the products or services described in this Site at any time without notice.

Copyrights and Trademarks

ScienceLogic, the ScienceLogic logo, and EM7 are trademarks of ScienceLogic, Inc. in the United States, other countries, or both.

Below is a list of trademarks and service marks that should be credited to ScienceLogic, Inc. The ® and ™ symbols reflect the trademark registration status in the U.S. Patent and Trademark Office and may not be appropriate for materials to be distributed outside the United States.

- ScienceLogic[™]
- EM7[™] and em7[™]
- Simplify IT™
- Dynamic Application™
- Relational Infrastructure Management[™]

The absence of a product or service name, slogan or logo from this list does not constitute a waiver of ScienceLogic's trademark or other intellectual property rights concerning that name, slogan, or logo.

Please note that laws concerning use of trademarks or product names vary by country. Always consult a local attorney for additional guidance.

Other

If any provision of this agreement shall be unlawful, void, or for any reason unenforceable, then that provision shall be deemed severable from this agreement and shall not affect the validity and enforceability of any remaining provisions. This is the entire agreement between the parties relating to the matters contained herein.

In the U.S. and other jurisdictions, trademark owners have a duty to police the use of their marks. Therefore, if you become aware of any improper use of ScienceLogic Trademarks, including infringement or counterfeiting by third parties, report them to Science Logic's legal department immediately. Report as much detail as possible about the misuse, including the name of the party, contact information, and copies or photographs of the potential misuse to: legal@sciencelogic.com



800-SCI-LOGIC (1-800-724-5644)

International: +1-703-354-1010