

# Migration Guide for the New User Interface

SL1 version 10.2.0

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# Chapter

## New Features in the SL1 User Interface

#### Overview

This guide is intended for SL1 users who are migrating from the "classic " user interface for SL1 to the new user interface for SL1.

This chapter provides an overview of the features that are only available in the new SL1 user interface, and how those new features compare to features in the previous version of the user interface, where relevant. The topics in this chapter also contain links to the chapters of this guide that provide more information and procedures to help you make the transition from the "classic" user interface to the "new" user interface for SL1.

Use the following menu options to navigate the SL1 user interface:

- To view a pop-out list of menu options, click the menu icon (=).
- To view a page containing all the menu options, click the Advanced menu icon ( … ).

This chapter includes the following topics:

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## About This Guide

This guide assumes that the initial installation and configuration (deployment) of SL1 version 8.12.0 or later has been completed. SL1 8.12.0 was the first version of the that included content from both the "new" user interface and the "classic" user interface. For details on the initial configuration of SL1, see the *Installation* manual.

For the purpose of this guide and the SL1 product documentation in general, the new user interface for SL1 is called the *SL1 user interface*. The new user interface is also sometimes called *ap2*, which is short for "Admin Portal version 2". The previous version of the user interface is called the *classic user interface* in the SL1 product documentation.

## New Features in the SL1 User Interface

The following sub-topics provide a very brief overview of each of the new features available in the SL1 user interface. Follow the links for detailed information and procedures for each new feature.

#### Login Process

In a browser, type the URL or IP address for your SL1 system and type **/ap2** at the end of the URL or IP address. For example: https://sl1.sciencelogic.com/ap2 or https://10.1.1.99/ap2.

**TIP**: If you can still see the horizontal NavBar or other features of the classic user interface in the SL1 user interface, click **[Refresh]** in your browser.

For more information, see Logging In and Out of the SL1 User Interface.

## Navigation Menus

Starting with the 8.12.0 release of SL1, the SL1 user interface was upgraded to include content from both the "new" user interface (also called "ap2") and the "classic" user interface. This "unified" user interface provides a more streamlined method of navigation that uses two menus: a **basic menu** and an **Advanced menu**.

Use the following menu options to navigate the SL1 user interface:

- To view a pop-out list of menu options, click the menu icon (=) at the top left of any SL1 page. Use the up and down arrow buttons ( <>>) to expand and contract the menu options.
- To view the **Advanced Menu** page, which contains links to all of the menu options, click the Advanced menu icon ( ... ) at the bottom left of any SL1 page. Use **[Ctrl]**+**[F]** in your browser to quickly find a page.

TIP: If you are familiar with the classic user interface, the **Advanced Menu** page will help you get used to the structure of the SL1 user interface.

## Icons on the Left Navigation Bar

By default, the SL1 user interface displays the following icons, in the following order, on the left navigation bar:

- **Dashboards** (III). Clicking this icon displays the **Dashboards** page, where you can view and define custom dashboard views. A dashboard view is a page that displays one or more graphical reports, called widgets. Each widget is displayed in its own customizable pane.
- **Events** (**A**). Clicking this icon displays the **Events** page, which displays a list of all active events. An **event** is a message that is triggered when a specified condition is met. Among other things, an event can signal that a server has gone down, that a device is exceeding CPU or disk-space thresholds, that communication with a device has failed, or simply display the status of a managed entity.
- **Devices** (I). Clicking this icon displays the **Devices** page, which allows you to view all of your managed devices in SL1 and also run a discovery to find more devices to monitor. You can select a device from the list on the **Devices** page to view detailed data on the **Device Investigator** page for that device.
- Business Services (@). Clicking this icon displays the Business Services page, where you can create and manage business services for your company. Business services let you gauge the availability, health, and risk of your services and the devices that provide those services.
- Machine Learning (\*). Clicking this icon displays the Machine Learning page, which lets you enable anomaly detection. You can use machine learning-based anomaly detection to trigger events and automations in SL1. Machine learning-based anomaly detection is available only in SL1 Premium solutions; to upgrade, contact ScienceLogic Customer Support.
- Maps (\*). Clicking this icon displays the Maps page, where you can view, create, and manage relationship maps for the various elements in your SL1 environment.

**TIP**: To view a pop-out list of *additional* menu items on the left navigation bar, click the menu icon ( $\equiv$ ). Click the left arrow icon ( $\leq$ ) to close the list of menu items.

#### lcons

The user interface includes many icons, for quick and easy access to information. The SL1 user interface uses some of the same icons from the classic user interface along with a set of new icons.

The most common icons in the SL1 user interface include the following:

New Use	r Interface Icons	Classic L	lser Interface Icons
	Expand the menu of options in the left navigation bar	ð	Edit an object or policy
•••	Open the <b>Advanced Menu</b> page, which contains links to all pages	4	Delete an object
>	Expand an item in a list or a menu, such as the Event Drawer or the <b>More</b> menu for the <b>Device Investigator</b> page	1	Access the Device Reports tools
^	Close or collapse an item in a list or a menu	1	Access the Device Administration tools
	Open a context-sensitive menu or set of options	4	View information about an event
٥	Open a context-sensitive set of options for a specific item or widget	1	View information about an object
۵	When found on the top left of a list page, open the Select Column menu, where you can add or remove columns from the view	ŝ	View the Notification Log
	When found at the end of a row, open a context-sensitive menu or set of options	<b>1</b>	Access Ticketing tools (often called the "life ring")
	Select one or more items in a list	1	Execute (usually Discovery)
Q	View masked events on the <b>Event</b> Investigator page	2	View a report
Ð	Create an event note	1	Print a report
65	Refresh the contents of a list		View log entries
$\otimes$	Close an item or a widget		View the calendar and define or edit a schedule
	Shows that a command or search is incorrectly formatted or incomplete		Export an object or policy
<b>~</b>	Shows that a command or search is complete and formatted correctly		View raw logs

#### **Basic Search**

At the top of most lists in the SL1 user interface, the **Search** field lets you look for specific elements in that list. The **Search** field contains a magnifying glass icon ( $\bigcirc$ ) next to the words "Type to search" or "Search". As you type text in the **Search** field, SL1 provides potential matching values in a drop-down menu and starts filtering the list with your search text, much like the Filter-while-you-type search worked in the classic user interface.

The new Basic Search lets you refine the current search and add multiple search criteria as needed. You can also save searches that you use regularly.

For more information, see Using Basic Search.

#### Advanced Search

The SL1 user interface includes an Advanced Search option that lets you use customized search commands to search for data. The syntax for these Advanced Searches can be much more complex than a Basic Search, enabling you to find exactly what you need from a list of items.

Also, because the Basic Search only uses "AND" for multiple search criteria, you need to use an Advanced Search for an "OR" search using multiple search criteria, or if you want to create more complicated searches using Boolean Algebra.

At a minimum, an Advanced Search requires the following components, in the following order:

- A *field*. The general type of data for which you are searching, such as a device name or an event message.
- An **operator**. A word or symbol that specifies the relationship between the field and the value, such as equals or less than.
- A value. A specific aspect or version of the field, such as a name or an amount. If a value is a string, it should be surrounded by "quotation marks" or 'apostrophes'.

**TIP**: As you type your Advanced Search, a red icon (**1**) or a green icon (**2**) appears at the end of the text field to show that your search is incorrectly or correctly formatted.

TIP: To view a list of all possible search commands in an Advanced Search, press [Ctrl] + [Space].

Below are simple examples of Advanced Search syntax:

```
message contains 'risk is high'
organization has (company contains 'system')
attribute has (id = year and value = 2021)
name contains 'web_tier' and deviceClass has (description contains 'AppDynamics')
deviceClass has (description contains 'em7 admin portal')
```

TIP: You can type search commands in the **Basic Search** field and then click the gear icon (\*) and select Advanced to "translate" your basic search into an Advanced Search. You cannot go from an Advanced Search back to a Basic Search, however, without losing your search criteria.

For more information, see Performing an Advanced Search.

## Bulk Actions in a List View

If a page in SL1 displays a list of items, and that page contains a checkbox ( $\Box$ ) to the left of each item in the list, you can select two or more items to perform bulk actions on all of the selected items at the same time.

To select all of the items on a page, click the checkbox at the top of the list. To clear all of the selected items, click the checkbox at the top again.

**TIP**: To select a group of items on a page, hold down the **[Shift]** button while selecting the first and last item from the list that you want to use. All items between the first and last item are selected.

**TIP**: Pages that contain lists use "infinite scrolling", where the list continues to populate as you scroll toward the bottom of the list. The scrolling stops when you reach the end of the list.

For more information, see Performing Bulk Actions.

#### Custom Themes for the SL1 User Interface

You can customize the look and feel of your SL1 system by creating new themes. For example, you could create a theme that replaces the SL1 logo with your company's logo and updates the colors used in the user interface to match those used in your company's branding. You can also choose between a light theme or a dark theme.

For more information, see Customizing the SL1 User Interface.

#### New About and Help Pages

For more information about the components used by SL1, click your user name in the navigation bar at the top of any SL1 page and select *About*. The **About ScienceLogic** page appears, displaying the latest version numbers of the components used by SL1.

For product documentation about any page in SL1, click your user name in the navigation bar at the top of any SL1 page and select *Help*. An online help topic specific to the current page appears in a new browser window.

**NOTE:** As of version 8.12.2 of SL1, ScienceLogic no longer updates the help content that appears when you click the **[Guide]** button in the classic the user interface. All help content is maintained in the online help, which is located at https://docs.sciencelogic.com.

For more information, see Getting Help and More Information.

## **Events**

The **Events** page in the SL1 user interface displays a list of currently active events, from critical to healthy. From this page you can acknowledge, clear, and view more information about an event. You can also view events by organization to focus on only the events that are relevant to you.

To navigate to the **Events** page, click the Events icon ( $^{(\Delta)}$ ) on the navigation bar:

=	E Events Chivity Em72dmin ~ Deciverations																
88	17 Critical	170 Major	87 Minor	0 Notice	8 Healthy	282 Events View All										v	View
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ت)	* 🗆	ORGANIZA	SEVERITY	NAME -	MESSA	GE		AGE .	TICKET ID	COUNT	EVENT NOTE	MASKED EVENTS	,	AUTO	ACKNOWLEDGE	CLEAR	c
÷		System	Major	SL1 Data Collect	tor Device	Service Risk is Hig	h: 75	2 hours 11 minut		9	÷				✓ Acknowledge	× Clear	^
۲		System	Minor	SL1 Data Collect	tor Device	Service Health is M	linor:	6 hours 41 minut		27	÷				<ul> <li>Acknowledge</li> </ul>	× Clear	
69		System	Major	SL1 Classic	IT Serv	vice Health is Major.		1 hour 26 minute		6	÷				✓ Acknowledge	× Clear	
<b>*</b>		System	<ul> <li>Critical</li> </ul>	SL1 Classic	IT Serv	vice Risk is Very Hig	h: 100	1 month 15 days		4497	÷				✓ Acknowledge	× Clear	
		System	Major	SL1 CDB	Device	Service Health is M	fajor:	1 hour 26 minute		6	Ð				✓ Acknowledge	× Clear	
		System	Critical	SL1 CDB	Device	Service Risk is Ver	y High: 100	1 month 15 days		4497	Ð				✓ Acknowledge	× Clear	
	^ 🗆	System	Major	Cisco-HSBC-CU	-28 Anoma	aly Detected: Predic	tion:5328934.5691118175	1 month 11 days		2784	÷	Q Masked			✓ Acknowledge	× Clear	
	Vitals						Tools					Logs					
	150						Type to run an	action on this	device			🌣 AGE 🕶	SEVERITY	MESSA			
	100											11 minutes 1	2s 😑 Major	Predic	ary Detected: tion:62.66999999999999	95	^
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	~ 🗆	System	Major	Cisco-HSBC-CU	-28 Anom	aly Detected: Predic	tion:3.501740257352951	1 month 12 days		1070	Ð				✓ Acknowledge	× Clear	
	~ D	System	Major	Cisco-HSBC-CU	-28 Anoma	aly Detected: Predic	tion:32.911644896193444	1 month 28 days		8154	÷				✓ Acknowledge	× Clear	
	~ 🗆	System	<ul> <li>Major</li> </ul>	Cisco-HSBC-CU-	-28 Anoma	aly Detected: Predic	tion:41.62827079349821	2 months 9 days		7624	÷				✓ Acknowledge	× Clear	
	~ D	System	Major	Cisco-HSBC-CU	-27 Anoma	aly Detected: Predic	tion:0.0	19 hours 51 minu		1	+				✓ Acknowledge	× Clear	
											•						~

Each event includes a description of the problem, where the problem occurred (device, network hardware, software, policy violation), a pre-defined severity, the time of first occurrence, the time of most recent occurrence, and the age of the event.

## New Features for Events in the SL1 User Interface

The SL1 user interface includes the following new features for Events:

- The list of Events appears on the new **Events** page, which replaces the **Event Console** in the classic user interface.
- The **Event Console** page is only available in the classic user interface, but all of the features from that page are available on the **Events** page.
- On the **Events** page, you can use the **View** menu to view events from all organizations or services, or you can filter down to just the organizations or services you want to monitor for events.
- On the **Events** page, you can filter the list of events by severity by clicking one or more of the five colored tiles at the top of the list of events:

To clear the filter or filters, click View All.

**NOTE:** The **Tools** pane for an event provides access to the **Activity Center**, where you can run a set of diagnostic tools or user-initiated actions. The diagnostic tools found in the **Activity Center** can also be found in the Device Toolbox in the classic user interface.

- On the **Events** page, any event that contains masked events includes a magnifying glass icon (a) and the word "Masked" in the **Masked Events** column. Click the magnifying glass icon (a) to view more information about that event.
- Clicking the new **Actions** menu ( ••• ) next to an event gives you the following options, based on the event and your permissions:
  - View Event. Navigates to the Event Investigator page for that event. You can also get to this page by clicking the Message or the Event ID for an Event. On this page you can view more information about the event, including a description, its probable cause, and possible resolutions. This option replaces the Event Information icon (()) in the classic user interface.
  - Edit Event Note. Lets you update the Note associated with this event.
  - Edit Ticket. Opens the Ticket Editor in SL1 if you are using SL1 for your ticketing.
  - Create External Ticket. Creates a new ticket for the event if you are using an external ticketing system instead of SL1. This option replaces the Create or View a Ticket icon (12) in the classic user interface.
  - Align External Ticket. Aligns this event with an existing ticket if you are using an external ticketing system instead of SL1.
  - View Automation Actions. Displays a log of automations that have occurred for that event. This option is hidden if the event does not have any automation actions aligned to it. This option replaces the View Notification Log icon (a) in the classic user interface.

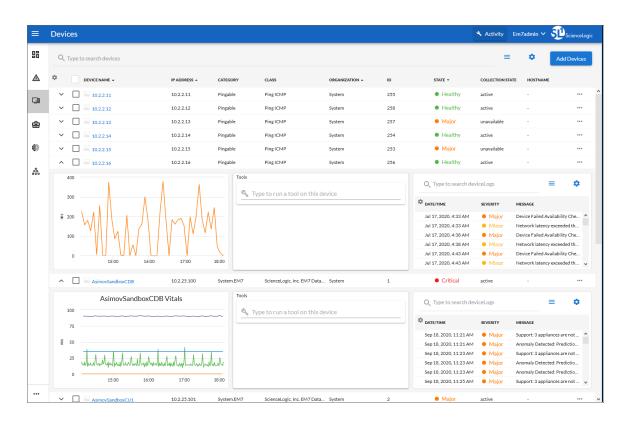
- View Event Policy. Opens the Event Policy page for the policy aligned with this event.
- Suppress Event for this Device. Suppresses the current event on the current device. When you suppress an event, you are specifying that in the future, if this event occurs again on the same device, the event will not appear in
- You can rearrange the columns and change the width of the columns on the **Events** page. You can click the **Select Columns** icon (\*) to add or remove columns, or to reset columns to their default settings.
- When you click the Message or the Event ID for an event on the **Events** page, the **Event Investigator** page appears.
- From the **Event Investigator** page, you can Acknowledge and Clear an event. You can also perform the same functions that are available on the **Events** page with the **[Actions]** button (---) on this page.
- The new **Event Policies** page (Events > Event Policies) lets you edit existing event policies and create new event policies. This page replaces the **Event Policy Manager** page in the classic SL1 user interface. For more information about Event Policies, see the "Defining and Editing Event Policies" chapter of the **Events** manual.

For more information, see the *Events* chapter.

## Devices

As part of monitoring your network, SL1 collects data using common networking protocols. Most collected data is associated with a *device* in SL1. A device in SL1 is a record that can represent physical network hardware, a component of a larger system, or any other entity about which you want to collect data. For example, you might configure a device record that represents a web site or a cloud service.

To navigate to the **Devices** page, click the Devices icon (💷) on the navigation bar:



SL1 allows you to monitor and manage hardware and applications within your network. SL1 provides a networkwide view through a "single pane of glass." This means that you can monitor status, create policies, define thresholds, and receive notifications, all through a single, browser-based application.

## New Features for Devices in the SL1 User Interface

In the SL1 user interface, you can perform the following actions on the **Events** page:

- The list of Devices appears on the new **Devices** page, which contains most of the functionality of the **Device Manager** page in the classic user interface.
- You can also access the Device Manager page in the SL1 user interface by clicking the menu icon (=) and navigating to Devices > Device Manager.
- On the **Devices** page, you can click the down-arrow icon (♥) next to the name of a device to open a dropdown panel called the **Device Drawer**. The Device Drawer contains additional data about that device, including a **Vitals** pane, a **Tools** pane, and a **Logs** pane.

**NOTE:** The **Tools** pane for a device provides access to the **Activity Center**, where you can run a set of diagnostic tools or user-initiated actions. The diagnostic tools found in the **Activity Center** can also be found in the Device Toolbox in the classic user interface.

- On the **Devices** page, you can click the new **[Add Devices]** button to run a guided or unguided Discovery session to add more devices to SL1 for monitoring.
- Clicking the new **Actions** menu ( ••• ) for a device gives you the following options, based on the device and your permissions:
  - Align Organization. Aligns this device with a different organization in SL1.
  - Assign Icon. Upload a new icon or specify an existing icon that will display for this device.
- You can rearrange the columns and change the width of the columns on the **Events** page. You can click the **Select Columns** icon (\*) to add or remove columns, or to reset columns to their default settings.
- If your SL1 system contains SL1 agents, you can manage the agents on the new **Agents** page (Devices > Agents).
- When you click the Device Name for a device on the **Devices** page, the **Device Investigator** page appears. The tabs on the **Device Investigator** page provides access to all the data associated with a device.

**NOTE:** The tabs are similar to the tabs on the **Device Administration** and **Device Properties** panels in the classic user interface. You can customize the tabs that display on the **Device Investigator** page. For more information, see **Using the Device Investigator**.

- In addition to the various device tabs, the **Device Investigator** page includes the following menus and buttons:
  - Info. This drop-down list on the [Investigator] tab displays additional information about the device, along with the most recently updated values for uptime and collection time.
  - **Time span filter**. This drop-down list on the **[Investigator]** tab allows you to adjust the time span that appears in all the metrics on the **[Investigator]** tab. The default filter is *Last 24 Hours*.
  - *Report*. This button lets you generate a detailed report on the device.
  - **Tools**. This button opens the **Activity Center**, where you can run a set of diagnostic tools or userinitiated actions.

For more information, see the **Devices** chapter.

## **Discovery and Credentials**

**Discovery** is the tool that automatically finds all the hardware-based devices, hardware components, and software applications in your network.

You can use the Universal Discovery Framework process in SL1 that guides you through a variety of existing discovery types in additional to traditional SNMP discovery. This process, which is also called "guided discovery", lets you pick a discovery type based on the type of devices you want to monitor. The Universal Discovery workflow includes buttons for the following discovery types: Alibaba Cloud, Amazon Web Services, Microsoft Azure, Citrix, and IBM Cloud. The SNMP Discovery used in the classic user interface is also available, and is sometimes called "unguided" Discovery.

To run a Universal Discovery or an "unguided" Discovery, go to the **Devices** page (<sup>[]]</sup>) and click the **[Add Devices]** button to start the Discovery wizard.

**Credentials** are access profiles (usually username, password, and any additional information required for access) that allow SL1 to retrieve information from devices and from software applications on devices. Discovery uses SNMP credentials to retrieve SNMP information during initial discovery and nightly auto-discovery. If SL1 can connect to a device with an SNMP credential, SL1 deems that device "manageable" in SL1.

≡	Credentials			Em7admin 🗸 Ş	ScienceLogic
88	Q Type to search credentials			= 🌣 - Create New	Test Credentials
▲	¢ <sub>NAME</sub>	ТҮРЕ	TIMEOUT (MS)	LAST EDIT	
G	AppDynamics Example - Proxy	SOAP/XML	2000	Apr 28, 2020, 1:39 PM	
	AppDynamics Example1	SOAP/XML	2000	Apr 28, 2020, 1:40 PM	
÷	AWS Credential	SOAP/XML	2000	Apr 28, 2020, 12:23 PM	
	AWS Credential - Proxy	SOAP/XML	2000	Apr 28, 2020, 12:23 PM	
	AWS Credential - Specific Region	SOAP/XML	2000	Apr 28, 2020, 12:23 PM	
	Azure Classic Credential SOAP	SOAP/XML	60000	Apr 28, 2020, 12:23 PM	
	Azure Credential - China	SOAP/XML	120000	Apr 28, 2020, 12:24 PM	
	Azure Credential - Germany	SOAP/XML	120000	Apr 28, 2020, 12:24 PM	
	Azure Credential - Government	SOAP/XML	120000	Apr 28, 2020, 12:24 PM	
	Azure Credential - Proxy	SOAP/XML	120000	Apr 28, 2020, 12:24 PM	
	Azure Credential - SOAP/XML	SOAP/XML	120000	Apr 28, 2020, 12:24 PM	
	Cisco CE Series Configuration	SOAP/XML	15000	Apr 28, 2020, 12:27 PM	
	Cisco CE Series History	SOAP/XML	15000	Apr 28, 2020, 12:27 PM	
	Cisco CE Series Status	SOAP/XML	15000	Apr 28, 2020, 12:27 PM	
	Cisco CUCM Example	Basic/Snippet	30000	Apr 28, 2020, 12:23 PM	
	Cisco Meeting Server Example	Basic/Snippet	15000	Apr 28, 2020, 12:23 PM	

To navigate to the **Credentials** page, go to System > Manage > Credentials:

For each device, hardware component, or software application the discovery tool "discovers", the discovery tool can collect a list of open ports, DNS information, SSL certificates, list of network interfaces, device classes to align with the device, topology information, and basic SNMP information about the device.

## New Features for Discovery and Credentials in the SL1 User Interface

In the SL1 user interface, you can perform the following actions related to Discovery and Credentials:

- You can now run a Discovery for new devices by clicking the [Add Devices] button on the Devices page.
- The new Universal Discovery Framework process in SL1 guides you through a variety of existing discovery types in additional to traditional SNMP discovery.
- You can view previous Discovery Sessions on the new **Discovery Sessions** page (Devices > Discovery Sessions).

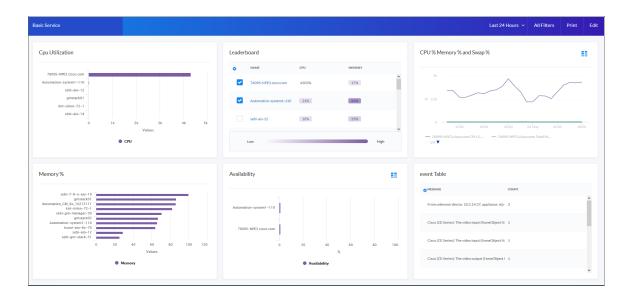
- The **Credentials** page (Manage > Credentials) allows you to view a list of all ScienceLogic credentials. From this page, you can also create new credentials and edit, test, or delete existing credentials.
- You can test a credential using a predefined credential test on the **Credential Tests** page (System > Customize > Credential Tests).

For more information, see the **Discovery and Credentials** manual (PDF, HTML).

## Dashboards

A **dashboard** is a page that displays one or more graphical reports, called **widgets**. These widgets appear in their own pane, and display charts, tables, and text. To define a widget, you first select from a list of pre-defined widget definitions, and then customize what will be displayed by the selected widget by supplying values in the option fields provided by that widget.

To navigate to the **Dashboards** page, click the Dashboards icon (<sup>B</sup>) on the navigation bar. The following is an example of a dashboard:



Access to dashboards is based on your login credentials, so you can view only dashboard data for which you have access. Also, some dashboards might be private instead of public.

**TIP**: If an item name displays as a hyperlink in a dashboard, you can click that link to go to the relevant detail or **Investigator** page for that item. You can click dashboard links to the **Investigator** pages for devices, events, and services.

## New Features for Dashboards in the SL1 User Interface

In the SL1 user interface, you can perform the following actions on the **Discovery** page:

- You can create new widgets for devices, interfaces, file systems, services, events, device components, and more. This process is new for the SL1 user interface.
- The types of visualizations available for dashboards include: Bar Chart, Configuration Table, Forecast, Gauge, Leaderboard, Leaderboard Bar Chart, Leaderboard Tile, Line Chart, Map, Number, Pie Chart, Service View, Sunburst, Table, and Tile.
- The "NOC Overview" dashboard is a default dashboard that displays a high-level overview of your Business Services and their current health statuses in a single-pane view.
- You can filter dashboards by time span as well as organization, device, and service.
- You can share and print dashboards.

**NOTE:** You cannot use dashboards and widgets that were created in the classic user interface in the SL1 user interface.

For more information, see the **Dashboards** manual (PDF, HTML).

## **Business Services**

A **business service** includes one or more technical services that provide value to internal or external customers. Some examples of business services include verifying Internet access or website hosting, online banking, remote backups, and remote storage. Usually a business service includes an associated Service Level Agreement (SLA) that specifies the terms of the service.

NOTE: Business Services are only available in the SL1 user interface.

To navigate to the **Business Services** page, click the **Business Services** icon (🖻) on the navigation bar:

≡	Business Services							Em7a	dmin 🗸 孢s	icienceLogic
88	Q Type to search service	ype to search services								e 👻
▲	I NAME .	DESCRIPTION	TYPE .	ORGANIZATION	AVAILABILITY	HEALTH	RISK	POLICY		
	Business Devices	All the devices in my system	Device Service	System	<ul> <li>Available</li> </ul>	<ul> <li>Critical</li> </ul>	100%	Device Servi	ce Poli DEFAULT	
C)	Business IT Services	Contains "Devices"	IT Service	System	<ul> <li>Available</li> </ul>	Critical	100%	IT Service Po	licy DEFAULT	
ė	ு Business Services	Contains the "IT Service" and	. Business Service	System	✓ Available	Minor	100%	Business Ser	vice P DEFAULT	
2		All Device/IT Services for Do	Business Service	System	✓ Available	Healthy	30%	Business Sen	vice P DEFAULT	
<b>*</b>	Doc IT	Contains Doc Team Devices	IT Service	System	-	Healthy	0%	IT Service Po	licy DEFAULT	
	. Doc IT Others	Contains Other Devices use	IT Service	System	✓ Available	<ul> <li>Notice</li> </ul>	30%	IT Service Po	licy DEFAULT	
	. Doc Others	Other devices used by Docs	Device Service	System	✓ Available	<ul> <li>Notice</li> </ul>	25%	Device Service	ce Poli DEFAULT	
	Doc Team 10.64.68.16	SL1 for Docs	Device Service	System	-	Healthy	0%	Device Service	ce Poli DEFAULT	
	Doc team isdocs01	Doc server for IS	Device Service	System	-	Healthy	0%	Device Service	ce Poli DEFAULT	
	IS Biz Service	Monitor all IS-related devices	Business Service	IS_System	<ul> <li>Available</li> </ul>	<ul> <li>Major</li> </ul>	80%	Business Ser	vice P DEFAULT	
	IS Devices	Devices using IS	Device Service	IS_System	<ul> <li>Available</li> </ul>	<ul> <li>Major</li> </ul>	75%	Device Service	ce Poli DEFAULT	
	IS IT Services	IT Services for IS	IT Service	IS_System	<ul> <li>Available</li> </ul>	<ul> <li>Major</li> </ul>	80%	IT Service Po	licy DEFAULT	

You create the following types of services on the **Business Services** page, in the following order:

- 1. Device Service. Monitors a set of related devices, such as all devices from a specific region.
- 2. *IT Service*. Monitors a service that IT provides to your organization. An IT service is made up of one or more device services.
- 3. **Business Service**. Monitors a service your organization provides to your customers. A business service is made up of one or more IT services.

**NOTE**: Business Services and IT Services created in the classic SL1 user interface are *not* included in the new Business Services, and "classic" Business Services and IT Services are not related in any way to the new business services, IT services, and device services. For more information about the classic versions, see the **Service Provider Utilities (formerly Business Services)** and **IT Services (Classic)** manuals.

For more information, see the **Business Services** manual (PDF, HTML).

## Machine Learning-based Anomaly Detection

**Anomaly detection** is a technique that uses machine learning to identify unusual patterns that do not conform to expected behavior.

SL1 does this by collecting data for a particular metric over a period of time, learning the patterns of that particular device metric, and then choosing the best possible algorithm to analyze that data.

SL1 uses the resulting combination of collected data and the auto-selected algorithm to build a model that is unique to that specific device and metric. That model is then used to anticipate the expected behavior for that device metric. Anomalies are detected when the actual collected data value falls outside the boundaries of the expected value range.

SL1 then continuously refines the model as it collects more data.

**TIP**: Anomalies do not necessarily represent problems or events to be concerned about; rather, they represent unexpected behavior that you might want to investigate.

To navigate to the **Machine Learning** page, click the **Machine Learning** icon (�) on the navigation bar:

≡	Machine Learning				🔦 Activity	Em7admin 🗸 🧊	ScienceLogic
88	Q Type to search devices						≡ ¢
	DEVICE NAME •	ANOMALY DETECTION	METRIC TYPE	ML ENABLED BY USER	CLASS	CATEGORY	
G	AsimovSandboxCDB	🔮 Enabled	CPU	em7admin	ScienceLogic, Inc. EM7 Database	System.EM7	
- <u></u>	AsimovSandboxCDB	🔐 Enabled	Internal - 0	em7admin	ScienceLogic, Inc. EM7 Database	System.EM7	
卣	AsimovSandboxCDB	🔐 Enabled	Aggregate Behind Medium - 1	em7admin	ScienceLogic, Inc. EM7 Database	System.EM7	
	AsimovSandboxCDB	🄐 Enabled	Average IOPS - sda	em7admin	ScienceLogic, Inc. EM7 Database	System.EM7	
•	AsimovSandboxCDB	📳 Enabled	Average IOPS - sda1	em7admin	ScienceLogic, Inc. EM7 Database	System.EM7	
	AsimovSandboxCDB	🄐 Enabled	Load Avg - Load-1	em7admin	ScienceLogic, Inc. EM7 Database	System.EM7	
000	AsimovSandboxCDB	🔮 Enabled	Load Avg - Load-5	em7admin	ScienceLogic, Inc. EM7 Database	System.EM7	
	AsimovSandboxCDB	🔐 Enabled	Overall CPU - 0	em7admin	ScienceLogic, Inc. EM7 Database	System.EM7	
	AsimovSandboxCDB	Enabled	Free Swap Size - 0	em7admin	ScienceLogic, Inc. EM7 Database	System.EM7	
	AsimovSandboxCDB	🔐 Enabled	Swap Utilization - 0	em7admin	ScienceLogic, Inc. EM7 Database	System.EM7	
	AsimovSandboxCDB	Enabled	Processed - 0	em7admin	ScienceLogic, Inc. EM7 Database	System.EM7	
	AsimovSandboxCDB	🔐 Enabled	Processed - 0	em7admin	ScienceLogic, Inc. EM7 Database	System.EM7	
	AsimovSandboxCDB	🏥 Enabled	Aggregate Megabytes Pulled - 0	em7admin	ScienceLogic, Inc. EM7 Database	System.EM7	
	AsimovSandboxCDB	🏥 Enabled	% Storage Used - /	em7admin	ScienceLogic, Inc. EM7 Database	System.EM7	
	AsimovSandboxCDB	Enabled	Storage Size - /var	em7admin	ScienceLogic, Inc. EM7 Database	System.EM7	
	AsimovSandboxCDB	Enabled	% Total Storage Used - 0	em7admin	ScienceLogic, Inc. EM7 Database	System.EM7	

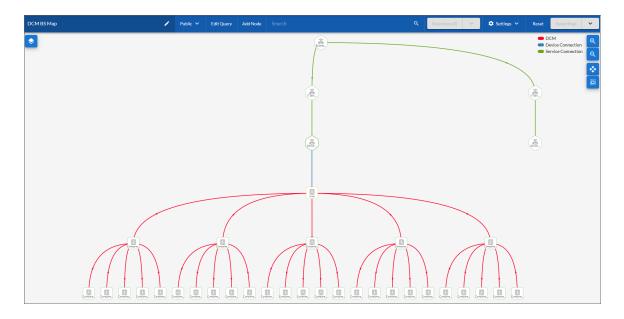
NOTE: Anomaly detection and the Machine Learning page are only available in the SL1 user interface.

For more information, see the Machine Learning-based Anomaly Detection manual (PDF, HTML).

## Maps

A *map* is a visual representation of the various devices and related elements, also called *nodes*, in your environment that have been discovered by SL1. A map displays the important details about the nodes, their hierarchy, and the relationships associated with those nodes.

To view a map, click the **Maps** icon (🏟) on the navigation bar, and then click the name of the map from the **Maps** page. The following is an example of a map that displays device components and business services:



Maps can display business services, component maps (DCM, DCM+R), CDP topology, LLDP topology, Layer-2 topology, Layer-3 topology, and Virtual Infrastructure (VMware and virtual machines). You can also create your own maps with your most important devices, and add images, text, and shapes to customize your maps.

**NOTE**: Maps are only available in the SL1 user interface. They are directly related to "Classic Maps", which were called "Views" in the classic user interface. You can view HTML (non-Flash) versions of these Maps on the **Classic Maps** page (Maps > Classic Maps).

For more information, see the *Maps* manual (<u>PDF</u>, <u>HTML</u>).

## Chapter

# 2

## **Using the SL1 User Interface**

## Overview

This chapter describes the key features of the SL1 user interface, including how to access SL1 and get help, how to perform basic and advanced searches, how to set user preferences, and more.

For more an overview of the SL1 user interface, view the video at https://sciencelogic.com/product/resources/navigate-the-sl1-ui.

Use the following menu options to navigate the SL1 user interface:

- To view a pop-out list of menu options, click the menu icon  $(\equiv)$ .
- To view a page containing all the menu options, click the Advanced menu icon ( … ).

This chapter includes the following topics:

Logging In and Out of the SL1 User Interface	23
Using the Navigation Menus	24
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Performing Bulk Actions	44
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## Logging In and Out of the SL1 User Interface

This topic covers how to access the different user interfaces for SL1: the "new" SL1 user interface and the "classic" user interface.

To log in to the SL1 user interface:

 In a browser, type the URL or IP address for your SL1 system and type /ap2 at the end of the URL or IP address. For example: https://sl1.sciencelogic.com/ap2 or https://10.1.1.99/ap2. The login page for SL1 appears:

호 🗈 🏠 숲 -> 🔘 🔏 10.64.164	1.241/ap2	🤄 ୯ 🏽 🗏
	ScienceLogic   SL1	
	Username em7admin Pasaword	
	Login	

- 2. Type the current user name and password you use with SL1 and click Log In.
- 3. If your company uses Single Sign-On (SSO) for authentication, you will be redirected to your company's SSO page, where you can log in to SL1 with your SSO credentials. When you log out, the logout screen redirects you to an SSO page instead of the typical login screen.
- 4. If you are logging in for the first time, you will be prompted to change your password. Type your username, your old password, and type your new password twice in the New Password and Confirm Password fields. Click [Reset Password].
- 5. For an Administrator user, the End User License Agreement (EULA) appears the first time that user logs in to SL1. The user must agree to the terms before using SL1.

**TIP**: If you can still see the horizontal NavBar or other features of the classic user interface in the SL1 user interface, click **[Refresh]** in your browser.

To log out of SL1:

- 1. Click your user name in the navigation bar at the top of any SL1 page.
- 2. Click Log off. You are logged out, and the login page appears again.

To log in to the classic user interface for SL1:

- 1. In a browser, type the URL or IP address for your SL1 system. The login page for the classic user interface appears.
- 2. Type the current user name and password you use with SL1 and click Log In.

TIP: You can log out of the classic user interface by typing /em7/logout.em7 at the end of the URL or IP address.

- To switch to the SL1 user interface while you are using the classic user interface, type /ap2 at the end of the URL or IP address for your SL1 system and press [Enter]. The Events page of the SL1 user interface appears.
- 4. To switch to the classic user interface while you are using the SL1 user interface, type **/em7** at the end of the URL or IP address for your SL1 system and press **[Enter]**.

**NOTE:** A number of "classic" user interface pages exist within a frame in the "new" SL1 user interface, and these pages have the same appearance and functionality in both user interfaces. These pages will eventually be integrated into the SL1 user interface, and the corresponding GraphQL APIs for those feature are not yet available. If you navigate to a classic (framed) page in the SL1 user interface, when you type **/em7** in the URL to go to the classic user interface, the top navigation might be missing from the classic user interface. To address this issue, navigate back to the new user interface, log out, and then log in to the classic user interface.

**TIP**: If you need to run both the classic and SL1 user interfaces simultaneously, you can open the classic and the SL1 version in two different browsers, or you can open private or incognito browser windows and then log in to the two user interfaces.

## Using the Navigation Menus

Starting with the 8.12.0 release of SL1, the SL1 user interface was upgraded to include content from both the "new" user interface (also called "ap2") and the "classic" user interface. This "unified" user interface provides a more streamlined method of navigation that uses two menus: a **basic menu** and an **Advanced menu**.

Use the following menu options to navigate the SL1 user interface:

- To view a pop-out list of menu options, click the menu icon (≡) at the top left of any SL1 page. Use the up and down arrow buttons (∧ ∨) to expand and contract the menu options.
- To view the **Advanced Menu** page, which contains links to all of the menu options, click the Advanced menu icon ( ... ) at the bottom left of any SL1 page. Use **[Ctrl]**+**[F]** in your browser to quickly find a page.

TIP: If you are familiar with the classic user interface, the **Advanced Menu** page will help you get used to the structure of the SL1 user interface.

## Using Basic Search

At the top of most lists in the SL1 user interface, the **Search** field lets you look for specific elements in that list. The **Search** field contains a magnifying glass icon ( $^{\circ}$ ) next to the words "Type to search" or "Search".

As you type text in the **Search** field, SL1 filters the list to include only those elements that include your search terms. When searching, SL1 considers all relevant columns for the search, including those that are not currently displayed on the page.

TIP: After you type search commands in the **Search** field, you can click the gear icon (\*) and select Advanced to "translate" your basic search into an Advanced Search. For more information, see **Performing an Advanced Search**.

To use the **Search** field:

1. Click the **Search** field and start typing search text. As you type, SL1 provides potential matching values in a drop-down menu and starts filtering the list with your search text.

**TIP**: For example, if you start searching for "database" by typing *data*, a drop-down list appears with a list of columns that might contain that word, and the list is filtered by items that have "data" in one of their fields.

2. If you select one of the suggested search criteria from the list, such as message, a **criteria button** displays under the **Search** field. You can click the criteria button and edit the search text under the button, if needed:

<b>Q</b> Type to search events		
Message: data		
contains -		
data		

TIP: If you select the ANY option from the drop-down menu, the search looks through all relevant columns for matches to your search text. SL1 uses different search criteria for an "ANY" search, depending on the page you are currently on in SL1. For more information, see *Fields Used by an* "ANY" *Basic Search*.

**NOTE:** If you are unable to paste a copied string of text in the **Search** field, make sure that your copied text does not contain any hidden special characters.

- 3. To edit the search criteria for your current search even further, click the criteria button and click the contains field. You can choose from additional search operators in the drop-down that appears, such as begins with, is null, equal to, and not equal to.
- 4. You can add another set of search criteria to an existing search by typing additional text in the **Search** field, and then selecting additional fields from the drop-down list. The new search terms are added to a second criteria button:

0	Type to search e	vents		
M	lessage: data 🙁	Severity: major		
¢	ORGANI	major	MESSAGE	AGE 🔺
~	System	Major AsimovSandboxCD	Support: 3 appliances are not on the same pa	4 months 8 day

**TIP**: The search criteria button under the **Search** field also displays the search operator and value for the search as hovertext.

5. Alternately, you can click the menu icon ( ≡ ) to the right of the **Search** field to open a menu containing related search criteria. Select an element from the list of criteria and type additional search information in the criteria button that appears under the **Search** field:

name: sl1 🛞	
contains	-
sl1	

**TIP**: If you select a date-related search criteria from the list of criteria, you can use a drop-down calendar to select a specific date and time.

- 6. To remove a search criteria, click the close icon (🔊) on the criteria button under the **Search** field.
- 7. To switch to an Advanced Search, click the gear icon (\*) to the right of the **Search** field and select Advanced. For more information, see Advanced Search.
- 8. To quickly clear a search, click the gear icon (🔅) to the right of the **Search** field and select Clear.
- 9. To save a search so you can use it again, see Saving a Basic Search.

## Fields Used by an "ANY" Basic Search

If you type search criteria into a **Search** field at the top of a page in SL1 and then select the ANY option from the drop-down menu, the search looks through *all* relevant columns for matches to your search text.

SL1 uses different search criteria for an "ANY" search, depending on the page you are currently on in SL1. For example, an "ANY" search on the **Dashboards** page searches for the search criteria in the Dashboard ID or Dashboard Name fields, while an "ANY" search on the **Devices** page searches for the search criteria in the Device Name, Hostname, Device Class, Collector Group, Organization, and additional fields. See the table below for details.

To see which fields SL1 is using for a search, click the gear icon (\*) to the right of the **Search** field and select *Advanced*. The syntax of the Basic Search is converted into an Advanced Search, which lists the relevant fields being searched by SL1.

Page in SL1 user interface	Fields searched by SL1 for that page
Main Pages	
Dashboards	Dashboard ID, Dashboard Name
Events	Event Message, Aligned Resource Name, Aligned Organization, Aligned Sub-entity Name, Device Name, Hostname, Device Class Logical Name, Device Class Description, Device Collector Group, Device Class, Device Group ID, Device Group Name, Device Class Category

The following table lists the fields that are used by an "ANY" search, based on the page you are on in SL1:

Page in SL1 user interface	Fields searched by SL1 for that page	
Devices, Machine Learning, Device Services	Device Name, Hostname, Device Class Logical Name, Device Class Description, Device Class, Device Group, Device Class Category Name, Collector Group ID, Collector Group Name, Aligned Organization, Machine Learning Policy	
Business Services and IT Services	Service Type, Service ID, Service Name, Service Label, Service Policy Name, Aligned Organization	
Maps	Map Name, Map Description	
Secondary Pages		
Agents	Agent Nickname, Agent Operating System, Hostname	
Business Service Templates	Business Service Template Name, Business Service Template Descriptions	
Credentials	Credential Name	
Custom Attributes	Custom Attribute Label, Custom Attribute Name	
Device Categories	Device Category Name	
Device Classes	Device Class Name, Device Class Description, Virtual Type, Logical Name, Device Category Name	
Discovery Sessions	Discovery Session Name, Aligned Collector Name, Aligned Organization	
Event Policies	Event Policy Name	
Subscription Usage (Current License Usage)	License Type, Device Name, Aligned Organization, Device Class Category Name	

If a page from the SL1 user interface is not listed in the above table, then SL1 only uses the relevant Name field on that page for an "ANY" search.

## Saving a Search

If you are creating a complicated search using Basic Search or Advanced Search, or if you have a search that you use on a regular basis, you can save that search criteria so you can quickly use it again later.

To save a search:

- 1. After you have created a Basic or Advanced Search, click the gear icon (\*) to the right of the **Search** field and select Save. A **Save Search** window appears.
- 2. In the **Search Name** field, type the name of your search and click **[Save]**. The search is added to the list of saved searches.

To use a saved search:

- 1. Click the gear icon (\*) to the right of the **Search** field and select Saved Searches. An **Apply Search** window appears.
- 2. From the **Select a search** drop-down, select the search you want to use and click **[Apply]**. That search is applied to the current list.

NOTE: By default, saved searches apply only to your user profile, and they are not shared with other users.

To share a saved search:

- 1. Create a Basic Search and change it to an Advanced Search by clicking the gear icon (\*) to the right of the **Search** field and selecting Advanced.
- 2. Copy the Advanced Search code from the **Search** field and paste it into the relevant documentation so you can share the search with other users.

## Performing an Advanced Search

The SL1 user interface includes an Advanced Search option that lets you use customized search commands to search for data. The syntax for these Advanced Searches can be much more complex than a Basic Search, enabling you to find exactly what you need from a list of items.

Also, because the Basic Search only uses "AND" for multiple search criteria, you need to use an Advanced Search for an "OR" search using multiple search criteria, or if you want to create more complicated searches using Boolean Algebra.

At a minimum, an Advanced Search requires the following components, in the following order:

- A *field*. The general type of data for which you are searching, such as a device name or an event message.
- An **operator**. A word or symbol that specifies the relationship between the field and the value, such as equals or less than.
- A value. A specific aspect or version of the field, such as a name or an amount. If a value is a string, it should be surrounded by "quotation marks" or 'apostrophes'.

**TIP**: As you type your Advanced Search, a red icon (**1**) or a green icon (**2**) appears at the end of the text field to show that your search is incorrectly or correctly formatted.

TIP: To view a list of all possible search commands in an Advanced Search, press [Ctrl] + [Space].

The Advanced Search fields and values vary based on the page you are on in the SL1 user interface. For more information about fields, operators, and values, see *Components of an Advanced Search*.

Below are simple examples of Advanced Search syntax:

```
message contains 'risk is high'
organization has (company contains 'system')
attribute has (id = year and value = 2021)
```

name contains 'web\_tier' and deviceClass has (description contains 'AppDynamics')
deviceClass has (description contains 'em7 admin portal')
For additional examples, including examples with more complex syntax, see Examples of Advanced Searches.

TIP: You can type search commands in the **Search** field for a Basic Search, and then click the gear icon (\*) and select *Advanced* to "translate" your basic search into an Advanced Search. You cannot go from an Advanced Search back to a Basic Search, however, without losing your search criteria.

To create an Advanced Search:

- Click the gear icon (\*) to the right of the Search field and select Advanced. The search type changes from Basic to Advanced (note the change in font style).
- 2. Start typing a field name for your search. As you type, SL1 displays a list of available fields in a drop-down menu:

Q	me	
	message	field
	alignedEntityNa <b>me</b>	field
	alignedResourceNa <b>me</b>	field .
	alignedSubEntityNa <b>me</b>	field

- 3. Select or type a field name.
- To view a list of all possible search commands at any point in an Advanced Search, press [Ctrl+Space]. For example, the following operator options appear if you press [Ctrl+Space] after typing "message" and inserting a space:

Q message			
	contains	operat	^
	beginsWith	operat	
	endsWith	operat	E
	doesNotContain	operat	
	doesNotBeginWith	operat	
	doesNotEndWith	operat	1
	==	operat	
	=	operat	¥ 1

5. Select or type an operator name. If you are typing, SL1 provides a list of available options.

 Contains
 operator

 doesNotContain
 operator

**TIP**: As you type your search command, a red icon (**1**) appears at the end of the text field if your command is incorrectly formatted or incomplete. Click the red icon to view additional details.

6. Type a value to complete your search, and type additional search commands as needed. When your search is complete and formatted correctly, a green icon () appears at the end of the text field:



7. Click the [Search] button. The results of your search appear.

**NOTE**: Even if you have correct search syntax, SL1 will save your search query only after you click **[Search]**. For example, some pages, such as a Device Service search, might not show all of the search results until you click **[Search]**.

- 8. To clear a search, click the gear icon (🔅) to the right of the **Search** field and select Clear.
- 9. You can save an Advanced Search to use later. By default, saved searches apply only to your user profile, and they are not shared with other users. For more information, see Saving a Search.

#### Components of an Advanced Search

At the minimum, an Advanced Search requires the following components, in the following order:

- A field. The general type of data for which you are searching, such as a device name or event message.
- An **operator**. A word or symbol that specifies the relationship between the field and the value, such as equals or less than.
- A value. A specific aspect or version of the field, such as a name or an amount. You must use either "quotation marks" or 'apostrophes' for your search strings, and strings are not case-sensitive.

You can also include the operators "and" or "or" to your search command. Basic Search in SL1 uses only "AND" searches, unless you specify "Any" in your Basic Search.

**NOTE:** When SL1 evaluates an Advanced Search command, it evaluates the "OR" expressions first, followed by the "AND" filters.

For example, the following search command looks for events that have a status of Critical *and* contain a message with the word "error":

status = critical and message contains 'error' The following search command looks for devices with a name of "device-name" or messages containing the word "error":

name = "device-name" or message contains "error"

You can use parentheses () to group expressions and to ensure that the expressions are evaluated in the correct order. The following search command looks for either devices with a name of "device-name" and a status of Critical, or devices with a name of "device-name" and a status of Major:

```
(name = "device-name" and status = critical) or (name = "device-name" and status =
Major)
```

**TIP**: Searches in SL1 are *not* case-sensitive, so you can use any combination of upper-case and lower-case letters.

#### Fields

For most searches, you start your search command with a field name. When you start typing in an Advanced Search field, SL1 provides a list of potential fields in a drop-down menu that you can select for your search command:

Q	na	
	name	field
	host <b>na</b> me	field
	organization	field
	alignedDynamicApplication	field
	componentAncestor	field
	machineLearningPolicy	field
	componentParent	field

The list of potential fields depends upon the page you are currently on in SL1. The example above is from the **Advanced Search** field on the **Devices** page. If you typed the same letters in the **Advanced Search** field on the **Events** page, the drop-down menu would look like this:

Q	na	
	orga <b>n</b> iz <b>a</b> tion	field
	alig <b>n</b> edEntityN <b>a</b> me	field
	alignedResourceName	field
	alig <b>n</b> edSubEntityN <b>a</b> me	field

The following table lists some of the more common fields, along with how to use them and examples of search commands that use those fields:

Field name	Purpose	Example
alignedResourceName	Search for the name of a device aligned with an event.	alignedResourceName contains "lab"
asset	Search for an asset aligned with	asset has (assetTag contains 1)

Field name	Purpose	Example
	a device.	
attribute	Search for devices based on custom attributes. In the example, the custom attribute is "year" and the value is "2021".	attribute has (id = year and value = 2021)
dateCreated	Search for the date and time a device was created.	dateCreated isNotNull
deviceClass	Search for devices belonging to a device class.	deviceClass has (class contains 'Cisco')
deviceGroup	Search for devices belonging to a device group.	deviceGroup has (name contains "Network")
hostname	Search for a device hostname	device has (hostname = "srv")
id	Search for the unique numeric ID assigned by SL1.	id contains "10"
isAcknowledged	Search for events that have or have not been acknowledged.	isAcknowledged = true
message	Search for details about an event message.	message contains "problem"
name	Search for the name of the device.	name = "server"
organization	Search for the organization to which the device is assigned.	organization has (company = "System") organization has (company doesNotContain 'ABC Systems')
severity	Search for the severity of an event; severities range from 0 to 4, from Healthy to Critical.	severity in 3,4 Searches for all Major and Critical events.
state	Search for the state of a device; states range from 0 to 4: Healthy, Notice, Minor, Major, and Critical.	state in 0,1,2 Searches for all devices with a state of Healthy, Notice, and Minor.
suppressGroup	Hide data related to the specified group.	<pre>suppressGroup = sciencelogic</pre>

#### Operators

For most searches, you follow a field with an operator. The operator establishes a relationship between the field and the value that comes after the operator.

TIP: The list of available operators changes based on the page where you are making your search.

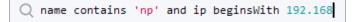
The following table lists some of the more common operators, along with how to use them and examples of search commands that use those operators:

Operator name	Purpose	Example
and	Include two or more search criteria before producing search results	deviceClass has (description contains 'rds instance') and name contains 'wordpress'
or	Include at least one of multiple search criteria.	name = "server" or message contains "error"
=, ==, eq	The field and the value are equal.	name == 'ECS 23' and ip doesNotContain '.'
<>, !=, neq	The field and the search value are <i>not</i> equal.	field != abc
<, lt	The field is less than the search value.	state < 2
>, gt	The field is greater than the search value.	severity > 3
<=, lte	The field is less than or equal to the search value.	state lte 2
>=, gte	The field is greater than or equal to the search value.	severity gte 3
contains	The field includes the specified string.	deviceClass has (description contains 'em7 admin portal')
doesNotContain	The field does not include the specified string.	<pre>name contains 'SL1 Classic' or (description contains 'PowerFlow' and description doesNotContain 'Not Deployed') or (description contains 'Extended Architecture' and description doesNotContain 'Not Deployed')</pre>
has	The field contains a specific value. The value following "has" must be enclosed in parentheses.	deviceClass has (deviceCategory has (name contains 'Server')) and deviceClass has (description doesNotContain 'vcenter')
in	The field must be part of a specific set of values.	severity in 2,3,4
not	Opposite values; this operator precedes the field name.	not field = abc
isNull	The field is empty.	extTicketRef isNull
isNotNull	The field is not empty.	counter isNotNull

#### Values

The value you type at the end of a search command depends on the field name and the operator you use. For most searches, you can type the value instead of picking it from the drop-down menu that lists possible search options.

In the following example, the first search value is a string (red text) and the second search value is a numeric value (blue text):



You must use either "quotation marks" or 'apostrophes' for search strings, and strings are not case-sensitive.

#### Strings

You can create a search command that searches for a specific set of words in a string. You must use either "quotation marks" or 'apostrophes' for your search strings, and strings are not case-sensitive.

The following table lists some of the more common string operators, along with how to use them and examples of search commands that use those string operators:

String operator name	Purpose	Example
beginsWith	Search for strings beginning with a specified value	message beginsWith "Host Resource"
endsWith	Search for strings ending with a specified value	message endsWith 'shutdown'
contains	Search for strings containing a specified value	message contains "problem"
doesNotBeginWith	Search for strings that do not begin with a specified value	message doesNotBeginWith "front"
doesNotEndWith	Search for strings that do not end with a specified value	message doesNotEndWith 'warning'
doesNotContain	Search for strings that do not contain a specified value	message doesNotContain "codec"

#### Escape characters

In double-quoted strings (strings surrounded by quotation marks), you can include quotation marks in the search by escaping the quotation marks. To escape those characters, add a backslash before each quotation mark, such as \".

For example:

```
"Error in \"process x\""
```

In single-quoted strings, you can include the single-quote character by escaping it with a backslash, such as \'.

For example:

```
'Eric\'s Laptop'
'Error in "process x"'
```

**TIP**: You do not need to add quotes around strings in your search commands. However, if your string contains only numbers, you might want to add quotes around it to ensure that SL1 interprets it as a string.

If you do not include quotes around strings in your search commands, you must escape the following characters with a backslash:

- all empty spaces or white spaces
- comma
- end parenthesis

#### Examples:

```
Eric's\ Laptop
Error\ in\ "process\ x"
```

```
devices\ \(system\, \ server\)
```

Other than the escape characters mentioned above, you can escape any character. You must escape the backslash character if you want to use it in a string, such as  $\$ 

The normal whitespace escape sequences can be used: t (tab), n (new line), b (backspace), r (carriage return), and f (form feed).

You can also use four-digit Unicode hex escape codes in the form \uXXXX.

## **Examples of Advanced Searches**

Because the search commands differ for each page in SL1, this section contains a set of search examples based on context.

TIP: To view a list of all possible search commands at any point in an Advanced Search, press [Ctrl+Space].

#### Advanced Search Examples on the Devices Page

When you run a search in the SL1 user interface, SL1 exposes how the data is stored, which is not always obvious in how this translates to Basic and Advanced searches.

For example, if you have the following device on the **Device Manager** page in the classic user interface:

7	Device Name *	IP Address	Device Category	Device Class   Sub-class
1.	Amil 172.22.101.171	172.22.101.171	Servers	Cisco Systems   UCS Manager

You would use the following Basic and Advanced searches to find the following device data:

Classic User Interface Field	<b>Basic Search Selections</b>	Advanced Search Syntax
Device Category	DeviceCategory.name: servers contains servers	deviceClass has (deviceCategory has (name contains 'servers'))
Device Class	DeviceClass.logicalName: cis contains cisco systems	deviceClass has (logicalName contains 'cisco systems')
Sub-class	SubClass: ucs manager contains ucs manager	deviceClass has (description contains 'ucs manager')

The following table contains additional examples of Advanced Searches for the **Devices** page:

Purpose of Advanced Search on Devices Page	Advanced Search Syntax
Search for all devices with a Device ID of 1, 2, or 3.	id in 1,2,3
Search for all devices with "rtp" in the Device Name and an IP Address that starts with 192.168.	name contains 'rtp' and ip beginsWith '192.168'
Search for all devices with a custom attribute of "year" and the custom attribute value of "2021".	attribute has (id = year and value = 2021)
Search for all devices with a custom attribute of "model" and the custom attribute value of	attribute has (id = model and value = server) and name contains "cn"

Purpose of Advanced Search on Devices Page	Advanced Search Syntax
"server" that have "CN" in the Device Name.	
Search for all devices that meet the following criteria: • a custom attribute of "SL1ComponentType" and the custom attribute value of "DC"	attribute has (id eq 'SL1ComponentType' and value eq 'DC') and attribute has (id eq 'SL1Stack' and value eq 'BigBen') and deviceClass has (logicalName contains 'EM7 Data Collector')
<ul> <li>a custom attribute of "SL1Stack" and the custom attribute value of "BigBen"</li> </ul>	
<ul> <li>and a Logical Name of "EM7 Data Collector".</li> </ul>	
Search for all devices that meet the following criteria: • aligned with the "Onprem" organization	organization has (company contains 'Onprem') and deviceClass has (description contains 'windows server 2') and ip beginsWith '172'
• a Device Class of "Windows Server 2"	
<ul> <li>and an IP Address that starts with "172".</li> </ul>	
Search for all mail servers based on the organization's naming conventions (all US-based devices start with the prefix of "us-").	name beginsWith "us-" and name contains "mail" or name contains "smtp"
Search for all devices aligned with any organization except for the System and Smart Tech Business organizations.	organization has (company doesNotContain System and company doesNotContain 'Smart Tech Business')
Search for all devices with "01" in the Device Name that belong to the ScienceLogic organization.	<pre>name contains '01' and organization has (company = sciencelogic)</pre>
Search for all devices with a Device Category of "Server" or "System".	<pre>deviceClass has (deviceCategory has (name contains "server")) or deviceClass has (deviceCategory has (name contains "system"))</pre>

### Advanced Search Examples on the Events Page

The following table contains a set of sample Advanced Searches for the **Events** page:

Purpose of Advanced Search on Events Page	Advanced Search Syntax
Search for events on devices by Device ID of 1, 2, or 3.	device has (id in 1,2,3)
Search for all events that contains the word "error"	message contains "error"
Search for all events on devices with a Device Category Name of "xtremio".	<pre>device has (deviceClass has (deviceCategory has (name contains 'xtremio')))</pre>

### Advanced Search Examples for Dynamic Component Mapping (DCM) Scenarios

**Dynamic Component Mapping** (DCM) allows SL1 to collect data from a single management system, such as a VMware ESX server, and then use that data to create multiple device records for the entities managed by that single management system. For example, the managed entities for a VMware ESX server would be the Guest VMs hosted by that ESX server.

The following table contains a set of sample Advanced Searches for DCM devices on the **Devices** page:

Purpose of Advanced Search	Advanced Search Syntax
Search for all host devices from a specific vCenter and add those devices to a Device Service	<pre>componentRoot has (name contains "VCSA") and (componentParent has (deviceClass has (description contains 'Host Server')) or componentParent has (deviceClass has (description contains 'ESX')))</pre>
Search for SQL servers than run as the master.	<pre>deviceClass has (description contains 'SQL Instance') and componentRoot has (attribute has (id == 'DB_Role'and value contains 'Master'))</pre>

The following sections contain more details about these two Advanced Searches and how they work.

#### Scenario 1: vCenters

An SL1 system has multiple vCenters, each of which has multiple host servers. You want to include in a Device Service all Virtual Machines (VMs) from just one of the vCenters. This scenario includes the following elements:

- The vCenter has a host name of VCSA hayward-hq.loc
- One of the hosts has a Device Class of Host Server, and it contains four VMs
- One of the hosts has a Device Class of **ESX**, and it contains 16 VMs

VCSA.hayward-	-hq.loc	172.22.101.116	VMwa	re VI	MWare   v	Center Server Appliance	5181 H	layward HHQ	A Healthy	HHQ	Active	📾 😳 🗞
	Device Name •	IP Addr	1055	Device Category		Device Class   Sub-class		Organization	Current State	Collection Group	Collection State	_
🔑 📶 Datacente	er		- Infr	rastructure	VMware	Datacenter	6588	Hayward HHQ	A Healthy	ннα	Active	و 🕫 📾
	Device Name •		Address	Device Category		Device Class   Sub-class	DID	Organization	Current State	Collection Group	Collection State	_
+ 🥜 🚮 Data	astores			Infrastructure	VMwa	ire   Folder	6590	Hayward HHQ	A Healthy	нно	Active	iii) 🎝 🗞 🧟
— 🥜 🚮 Host	sts			Infrastructure	VMwa	ire   Folder	6589	Hayward HHQ	🛦 Healthy	нно	Active	🖶 🕄 🗞 J
_	Device Name •		IP Address	Device Categor		Device Class   Sub-class		organization	Current State	Collection Group	Collection State	_
1. – 🤌	172.22.101.12			Host	VN	fware   Host Server	6592	Hayward HHQ	A Healthy	HHQ	Active	
	Device Name •		IP Address	<u>De</u> <u>Cate</u>	vice egory	Device Class   Sub-class		D Organization	Current State	Collection Group	Collection State	
1.	اند 🖋 🔐 HHQ-Collector-Beta3		-	Guest		VMware   Virtual Machine	793	2 Hayward HHQ	A Healthy	ннα	Active	iii) 🏷 🗞 😹
2.	🤌 📶 lin-hhq-agt1	W	172.22.101.76	Servers		Linux   CentOS release 6.7 (Final)	322	Hayward HHQ	🛦 Healthy	нна	Active	📾 🔀 🗞 😹
3.	Am Restorepoint Appliance		172.22.101.89	Servers		Restorepoint   Appliance	486	5 Hayward HHQ	🔥 Major	нно	Active	🖶 🔀 🗞 🗟
4.	🔑 📶 simulators		172.21.101.22	Servers		Linux   CentOS	331	Hayward HHQ	🛦 Healthy	нна	Active	🖶 🔀 🗞 😹
2. – <mark>"P</mark> 🗖	wm2.hayward-hq.loc	172	.22.101.10	VMware	VN	IWare   ESX(i)	7	Hayward HHQ	4 Major	нно	Active	🖶 🕇 💊 i
	Device Name •		IP Address	<u>Der</u> Cale	wice egory	Device Class   Sub-class		D Organization	Current State	Collection Group	Collection State	
1.	🔑 📶 GNS3 VM	W		Guest		VMware   Virtual Machine	660	6 Hayward HHQ	A Healthy	нна	Active	- 
2.	HHQ-Collector-2			Guest		VMware   Virtual Machine	660	5 Hayward HHQ	A Healthy	нно	Active	10 II N #
3.	🖋 📶 hhq-message-collector		172.22.101.75	EM7		ScienceLogic, Inc.   EM7 Message Collector	r 323	Hayward HHQ	A Healthy	нна	Active	📾 😫 🗞 🗉
4.	🖋 📶 Lin-HHQ-Mail01		-	Guest		VMware   Virtual Machine	794	3 Hayward HHQ	🛦 Healthy	нно	Active	📾 😂 🗞 🗷
5.	👉 📶 nessus		172.21.101.8	Servers		Linux   CentOS	11	Hayward HHQ	A Healthy	HHQ	Active	🖶 😂 🗞 🖉
6.	🏕 📶 pfSense.hayward-hq.loc	W	172.22.101.1	Firewall		Fraunhofer FOKUS   pfSense	5	Hayward HHQ	🛦 Healthy	нно	Active	🖶 🔀 🗞 🗷
7.	د الله مع الله المع المع المع المع المع المع المع المع	y		Guest		VMware   Virtual Machine	797	6 Hayward HHQ	🗘 Major	нна	Unavailable	🖶 🖏 🖏 🖉
8.	<mark>J<sup>2</sup> ∭</mark> VCSA	W		Guest		VMware   Virtual Machine	660	9 Hayward HHQ	🛕 Healthy	нна	Active	📾 😂 🗞 🗷
9.	WIN-HHO-AD1 bayward-bg lo	. w	172.22.101.120	Servers		Microsoft I Windows Server 2012 R2 Domai	in Coi 50	Havward HHQ	A Healthy	нно	Active	min 25 🗞 🔍

#### Search 1a

componentRoot has (name contains "VCSA") and deviceClass has (description contains
"Virtual Machine")

This search works, but it only returns seven devices instead of the 16 devices you might have expected:

Query for the right set of dev	ices.									
Q componentRoot has (name contains "VCSA") and deviceClass has [(description contains "Virtual Machine")]										
<ul> <li>Preview: 7 Devices</li> </ul>										
NAME -	STATE 🔺	IP ADDRESS	CATEGORY	CLASS	SUB-CLASS					
GNS3 VM	Healthy	-	Virtual.Guest	VMware	Virtual Machine					
HHQ-Collector-2	Healthy	-	Virtual.Guest	VMware	Virtual Machine					
HHQ-Collector-Beta3	🔴 Major	-	Virtual.Guest	VMware	Virtual Machine					
Lin-HHQ-Mail01	Healthy	-	Virtual.Guest	VMware	Virtual Machine					
test-delete	🔴 Major	-	Virtual.Guest	VMware	Virtual Machine					
VCSA	Healthy	-	Virtual.Guest	VMware	Virtual Machine					

#### How the query works:

componentRoot has (name contains "VCSA") This part of the query returns a list of all devices that have a root with a name that includes VCSA.

and deviceClass has (description contains "Virtual Machine") This part of the query filters the results of the first part of the query to isolate the devices with Device Class of **Virtual Machine**  **NOTE**: The reason why this Advanced Search does not result in the 16 VMs that we can see are hosted by both hosts is that some of the VMs have been *merged*. As a result, their Device Class has been reset to that of the operating system they are running.

#### Search 1b

componentRoot has (name contains "VCSA") and (componentParent has (deviceClass has (description contains 'Host Server')) or componentParent has (deviceClass has (description contains 'ESX')))

This search successfully returns all 16 VMs:

Query for the right set of dev	ices.				
componentRoot has (name conti	ains "VCSA") and (componentPare	nt has (deviceClass has (description	contains 'Host Server')) or component	Parent has (deviceClass has (desc	ription contains 'ESX')))
<ul> <li>Preview: 16 Devices</li> </ul>					
P NAME .	STATE +	IP ADDRESS	CATEGORY	CLASS	SUB-CLASS
GNS3 VM	Healthy	-	Virtual.Guest	VMware	Virtual Machine
HHQ-Collector-2	<ul> <li>Healthy</li> </ul>	-	Virtual.Guest	VMware	Virtual Machine

#### How the query works:

componentRoot has (name contains "VCSA") This part of the query returns a list of all devices that have a root with a name that includes VCSA.

and (componentParent has (deviceClass has (description contains 'Host Server')) This part of the query filters the results of the first part of the query to isolate the devices that have a parent of the Device Class **Host Server**.

or componentParent has (deviceClass has (description contains 'ESX'))) This part of the query then does a second search of the results of the first query, looking for devices with parents that have a Device Class of **ESX**.

#### Scenario 2: SQL Servers

A DB Cluster has two SQL Servers than run as the master and two SQL servers that run as the slave:

	Device Name •	IP	Address	Device Category		Device Class   Sub-class	DID	Organizatio	<u>n</u>
– 🥜 📶 db-	lab4-ha.phx3.llnw.net		17.4	Pingable	Ping   ICMP		3649	LLNW	
	Device Name •		IP Address	Device Category	:	Device Class   Sub-class		Organizati	ion
1. + 🥜	MySQL Server			Software	Oracle   M	lySQL Server	3653	LLNW	
🥜 📶 db-	lab5-ha.phx3.llnw.net	10.12.2	17.7	Pingable	Ping   ICMP		3663	LLNW	
	Device Name •		IP Address	Device Category		Device Class   Sub-class		Organizati	ion
1. + 🥜	MySQL Server			Software	Oracle   M	lySQL Server	3664	LLNW	
🥜 🚮 db-	llnw34-ha.phx3.llnw.net	10.12.6	1.56	Pingable	Ping   ICMP		4668	LLNW	
	Device Name •		IP Address	Device Category		Device Class   Sub-class	DID	Organizati	ion
1. + 🥜	MySQL Server			Software	Oracle   M	lySQL Server	4670	LLNW	
🥜 📶 db-	llnw35-ha.phx7.llnw.net	10.14.2	05.42	Pingable	Ping   ICMP		4672	LLNW	
_	Device Name •		IP Address	Device Category		Device Class   Sub-class	DID	Organizati	ion
1. + 🥐	MySQL Server			Software	Oracle I M	lySQL Server	4676	LLNW	

Four times a year the master and slave is swapped between the two pairs. As this is a planned, infrequent, and manual activity, you can manually swap a custom attribute on the four hosting devices to designate if a device is acting as master or slave:

Close	Properties	T <u>h</u> resholds	<u>C</u> ollections	<u>M</u> onitors	<u>S</u> chedule				
Logs	T <u>o</u> olbox	Interfaces	Relationships	Tickets	Redirects	<u>N</u> otes	<u>A</u> ttributes		
Device Name	db-lab4-ha.phx3.linw.n	et		Managed Type	Physical Device				
	10.12.217.4   3649				Pingable				- 1
	Ping			Sub-Class					
Organization	LLNW			Uptime	0 days, 00:00:00			Ping Device	.
Collection Mode	Active			Collection Time	2020-07-03 12:22:0	10		4 10 all 🖶	_
Description				Group / Collecto	DevNet Collector Gr	oup   sldc-2.devnet.linv.	net		
Device Hostname								db-lab4-ha.phx3.ll	m.
Attributes							Manage	Reset Guid	ie
		Label		Value Type		Value		Attribute Type	
1. 🤌 DB_Role				String M	laster			Extended	
[Please	Select ]		~ ∳	String V	optional			Extended	

Close	Properties	T <u>h</u> resholds	<u>C</u> ollections	<u>M</u> onitors	<u>S</u> chedule				
Logs	T <u>o</u> olbox	Interfaces	<u>R</u> elationships	<u>T</u> ickets	Redirects	<u>N</u> otes	<u>A</u> ttributes		
Device Name	db-linw35-ha.phx7.linw	net		Managed Typ	Physical Device				
	10.14.205.42   4672				Pingable				
Class	Ping			Sub-Clas	ICMP				/ 0
Organization	LLNW			Uptim	0 days, 00:00:00			Ping Devi	ce III
Collection Mode	Active			Collection Tim	2020-07-03 12:27:0	0		A 20 al 1	
Description				Group / Collecto	Americas Collector	Group   sldc-1.vm.iad.llr	w.net		
Device Hostname								db-Inw35-ha.pt	x7 In
									_
Attributes							Manage	Reset Gu	ide
		Label		Value Type		Value		Attribute Typ	<u>e</u>
1. 🤌 DB_Role				String	Slave			Extended	್

**NOTE:** For production or higher frequency and automated swapping, making the switch of the custom attributes could be embedded into a switching script and use the API or GQL interfaces to change the value of the custom attributes.

#### Searches

deviceClass has (description contains 'SQL Instance') and componentRoot has
(attribute has (id == 'DB\_Role'and value contains 'Master'))

This search returns the two SQL instances that are running on the two SQL hosts designated as the master pair:

DB Master		Info 🗸				
← Back	Overview	Devices	Status Policy			
Query for the right se		. Instance") and compon	ntRoot has (attribute has	(id == 'DB_Role'and value con	tains 'Master'))	
<ul> <li>Preview: 2 Det</li> </ul>	vices					
AME *	STATE .	IP	ADDRESS	CATEGORY	CLASS	SUB-CLASS
Percona Server (GPL),	Release 1 😑 Mino	-	-	Servers.Software	Oracle	MySQL Instance
Percona Server (GPL),	Release 1 😑 Mino	r -	-	Servers.Software	Oracle	MySQL Instance

deviceClass has (description contains 'SQL Instance') and componentRoot has (attribute has (id == 'DB\_Role'and value contains 'Master'))

This search returns the two SQL instances that are running on the two SQL hosts designated as the slave pair:

DB Slave	Info 🗸			
← Back Overview	Devices	Status Policy		
Query for the right set of devices. Q deviceClass has (description contains V Preview: 2 Devices	'SQL Instance') and componentRo	ot has (attribute has (id == 'DB_Role'and	value contains 'Slave'))	
RAME - STATE	IP ADDF	RESS CATEGORY	CLASS	SUB-CLASS
Percona Server (GPL), Release 2 🥚 M	nor –	Servers.Software	Oracle	MySQL Instance
Percona Server (GPL), Release 7 😑 M	nor –	Servers.Software	Oracle	MySQL Instance

How the query works:

deviceClass has (description contains 'SQL Instance') This part of the query returns a list of all devices that have a Device Class of **SQL Instance**.

and componentRoot has (attribute has (id == 'DB\_Role'and value contains 'Slave')) This second part of the query then filters the results of the first query to isolate the devices that have a root device with a custom attribute of **DB\_Role** set to Slave.

# Performing Bulk Actions

If a page in SL1 displays a list of items, and that page contains a checkbox ( $\Box$ ) to the left of each item in the list, you can select two or more items to perform bulk actions on all of the selected items at the same time. For example, on the **Devices** page, you can select two, twenty, or all of the devices on the page, and then you can assign an icon or align an organization with all of the selected devices.

When you use the checkbox to select one or more items in a list, a pop-up menu appears at the bottom of the page. The menu contains a list of the bulk actions available for those items. Select an action from the menu to run it on all of the selected devices:

Eve	nts												٩	<ul> <li>Activit</li> </ul>	y Em7admin ∨	SL1 Science	eLogic
С	33 ritical	177 Major	40 Minor	19 Notice	9 Healthy	278 Events View All										~	View
Q	, Type to	o search eve	ents													=	\$
¢	Ξ	ORGANIZ	SEVERI NAME	MESSAG	Æ	AGE	TICKET	<b>c</b>	EVENT N	MASKED EVENTS	A	EVENT	EVENT TY	EVE	ACKNOWLEDGE	CLEAR	C
~		System	<ul> <li>Majc malay</li> </ul>	-vm Device	Failed Availabilit	y Che 5 days 12		77	+		5	39098	Device	Inter	<ul> <li>Acknowledge</li> </ul>	× Clear	^
~		System	<ul> <li>Majc bs-aid</li> </ul>	o-iso-14 Device	Failed Availabilit	y Che 1 day 18		506	+	Q Masked	5	63425	Device	Inter	<ul> <li>Acknowledge</li> </ul>	× Clear	
~		Benedict	<ul> <li>Majc dv-wi</li> </ul>	n-2016 Device	Failed Availabilit	y Che 1 day 1 h		14	+		5	68514	Device	Inter	<ul> <li>Acknowledge</li> </ul>	× Clear	
~	~	F5 Big-IP	Majc 10.2.2	27.201 Device	Failed Availabilit	cy Che 12 hours		156	+		5	74572	Device	Inter	<ul> <li>Acknowledge</li> </ul>	× Clear	
~	~	F5 Big-IP	Majc <red< p=""></red<>	ACTEC Device	Failed Availabilit	y Che 12 hours		156	<b>+</b>		5	74573	Device	Inter	<ul> <li>Acknowledge</li> </ul>	× Clear	
~	~	F5 Big-IP	Majc <red< p=""></red<>	ACTEE Device	Failed Availabilit	y Che 12 hours		156	+		5	74574	Device	Inter	<ul> <li>Acknowledge</li> </ul>	× Clear	
~	<b>~</b>	F5 Big-IP	Majc <red< p=""></red<>	ACTEE Device	Failed Availabilit	y Che 12 hours		156	+		5	74575	Device	Inter	<ul> <li>Acknowledge</li> </ul>	× Clear	
~	~	F5 Big-IP	Majc <red< p=""></red<>	ACTEC Device	Failed Availabilit	y Che 12 hours		156	+		5	74576	Device	Inter	<ul> <li>Acknowledge</li> </ul>	× Clear	
~		F5 Big-IP	<ul> <li>Majc DC1_</li> </ul>	KMS_R Device	Failed Availabilit	y Che 12 hours		156	+		5	74577	Device	Inter	<ul> <li>Acknowledge</li> </ul>	× Clear	
~	<b>~</b>	F5 Big-IP	<ul> <li>Majc KMS_</li> </ul>	Server: Device	Failed Availabilit	y Che 12 hours		156	+		5	74578	Device	Inter	✓ Acknowledge	× Clear	
~		F5 Big-IP	Majc <red< p=""></red<>	ACTEE Device	Failed Availabilit	y Che 12 hours		156	+		5	74579	Device	Inter	<ul> <li>Acknowledge</li> </ul>	× Clear	
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^		F5 Big-IP	<ul> <li>Majc IIDSF</li> </ul>	QT12 Device	Failed Availabilit	y Che 12 hours		156	+		5	74581	Device	Inter	<ul> <li>Acknowledge</li> </ul>	× Clear	
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-												<b>±</b>					
Г	10 Ev	ents Sele	cted	Acknowledge	Clear	1						8			Deselect All	Select All Visi	ble

To select all of the items on a page, click the checkbox at the top of the list. To clear all of the selected items, click the checkbox at the top again.

**TIP**: To select a group of items on a page, hold down the **[Shift]** button while selecting the first and last item from the list that you want to use. All items between the first and last item are selected.

**TIP**: Pages that contain lists use "infinite scrolling", where the list continues to populate as you scroll toward the bottom of the list. The scrolling stops when you reach the end of the list.

# Customizing the SL1 User Interface

A **theme** is a graphic template this is applied to the user interface. SL1 includes one System Default theme, but you can completely customize the look and feel of your SL1 system by creating new themes.

For example, you could create a theme that replaces the SL1 logo with your company's logo and updates the colors used in the user interface to match those used in your company's branding. You can also choose between a light theme or a dark theme for the user interface.

For more information about customizing the user interface using themes, see the manual **Customizing the User Experience**.

# Getting Help and More Information

For product documentation about any page in SL1, click your user name in the navigation bar at the top of any SL1 page and select *Help*. A product documentation topic specific to the current page appears in a new browser window:

ScienceLogic	Search (use ** with multiple words)
Product Documentation	Performing an Advanced Search
Getting Started	The SL1 user interface includes an Advanced Search option that lets you use customized search commands to search for data. The syntax for these Advanced Searches can be much more complex than a Basic Search, enabling you to find exactly what you need
Documentation Updates for SL1	from a list of items.
Introduction to SL1	Also, because the Basic Search only uses "AND" for multiple search criteria, you need to use an Advanced Search for an "OR" search using multiple search criteria, or if you want to create more complicated searches using Boolean Algebra.
Prerequisites	At a minimum, an Advanced Search requires the following components, in the following order:
Logging In and Out of SI 1	• A <i>field</i> . The general type of data for which you are searching, such as a device name or an event message.
Using the Navigation Menus Using Basic Search	An operator. A word or symbol that specifies the relationship between the field and the value, such as equals or less than.     A value. A specific aspect or version of the field, such as a name or an amount. If a value is a string, it should be surrounded by "quotation marks" or 'apostrophes'.
Performing an Advanced Search Customizing the SL1 User Interface	TIP: As you type your Advanced Search, a red icon (1) or a green icon (2) appears at the end of the text field to show that your search is incorrectly or correctly formatted.
Performing Bulk Actions Getting Help and More Information	TIP: To view a list of all possible search commands in an Advanced Search, press [Ctrl] + [Space].
Filtering the Items on a Classic Page	The Advanced Search fields and values vary based on the page you are on in the SL1 user interface. For more information about fields, operators, and values, see <i>Components of an Advanced Search</i> .
Tool Tips	Below are simple examples of Advanced Search syntax:
Creating and Using Bookmarks	message contains 'risk is high'
The Finder Tool	organization has (company contains 'system')
The Toolbox	attribute has (id = year and value = 2021)
Overview of SL1 Features  The structure  The struct	name contains 'web_tier' and deviceClass has (description contains 'AppDynamics') neral Information/Overview SL1/chapter 01 intro.htm=GetHelp

The online product documentation includes a **Search** field at the top right of the page that you can use to find additional topics related to the SL1 user interface. To find a specific topic that is longer than one word, enclose all of the key words in parentheses, such as "business services".

TIP: Click the arrow button ( \_\_\_\_\_\_) at the bottom right to return to the top of the page.

**TIP**: Click the **[Feedback]** button on the right side of the window to send comments directly to the ScienceLogic Documentation team, such as reporting typos, inaccuracies, questions, or other comments about that specific page in the Product Documentation.

**NOTE:** As of version 8.12.2 of SL1, ScienceLogic no longer updates the content that appears when you click the **[Guide]** button in the classic the user interface. All help content is maintained in the online product documentation, which is located at <a href="https://docs.sciencelogic.com">https://docs.sciencelogic.com</a>.

For more information about the components used by SL1, click your user name in the navigation bar at the top of any SL1 page and select *About*. The **About ScienceLogic** page appears:

About ScienceLogic			
Q search components by name, description, license type			×
ScienceLogic	ScienceLogic		
About ScienceLogic			
Open Source Packages 629	ap2 sl-em7-gql	5.137.0 34.0.1	
abbrev 1.1.1	Platform		
acorn 5.2.1	AP	8.13.0.jenkins_EM7_G3_8.13.0 build 1180   panderp-sl1-ext-ap-90   Application Server: 10.2.14.90	
aiv 6.10.0	CU	8.13.0.jenkins_EM7_G3_8.13.0 build 1180   panderp-sl1-ext-cu-92   collector unit: 10.2.14.92	
ajv 0.10.0	DB	8.13.0.jenkins_EM7_G3_8.13.0 build 1180   panderp-sl1-ext-db-91   Database: 10.2.14.91	
amdefine 1.0.1	Additional Packages		
animate.css 3.5.2			^
	about		
ansi-regex 0.2.1	advanced-search		
ansi-regex 2.1.1	agent-inventory		
		1.1.19	
ansi-regex 3.0.0	ap2-client		
ansi-styles 1.1.0	ap2cli application-map		
	application-map browser-tests		
ansi-styles 2.2.1	business-application-services		
ansi-styles 3.2.1		2.28.15	
aproba 1.2.0	components		*
are-we-there-yet 1.1.4	Copyright © 2003-2019 ScienceLogic, Inc SL1 and technologies contained herein are	- All rights reserved. patent pending. ScienceLogic and SL1 are registered trademarks of ScienceLogic, Inc.	
arr-diff 2.0.0			

The current version number of SL1 appears next to the **ap2** value at the top of the list of components in the righthand pane, along with the current version of GraphQL used by SL1. The **Platform** section lists version information for the various components in SL1, including Application Server, Collector Unit, and Database details, and All-In-One configurations where relevant.

In the left-hand pane, click any of the components in the **Open Source Components** pane to view licensing information about those components, along with links to relevant websites where relevant. To search for a specific open-source component, type the name of that component in the **Search** field at the top of the page. The list of components is filtered by your search terms.

### Tips and Best Practices for Using the Product Documentation

Use the following tips and best practices when using the ScienceLogic product documentation:

#### General

- To ensure that you are always using the most recent version of the product documentation, check the URL for this site to make sure you are using either https://docs.sciencelogic.com/latest/ or https://docs.sciencelogic.com/<most-recent-release>/.
- The documentation at this site is the same documentation that appears when you click your user name at the top of any SL1 page and select *Help*. The Help topic that appears is based on your current page in SL1.
- The documentation at this site contains all manuals for the various features of SL1. You can click the Download manual as PDF link at the top of each chapter to download the PDF version of the manual.
- If you use the **Version** dropdown to navigate to a previous version of the product documentation, the **Version** dropdown on the older version might contain links to archived versions that display a 404 error. The **Version** dropdown only displays links to currently supported releases of SL1.

#### Searching the Site

- To search for a specific item in the product documentation, type the relevant information in the **Search** bar at the top of the page. After you select a document from the search results page, type the same search into your browser's Search (**Ctrl+F**).
- If you are using a multiple-word search for a specific term, enclose those words in quotation marks (""). For example: "business services".
- To quickly find a video in the product documentation, include the word "video" in your search, along with the topic or feature you want to view. For example: **video maps**.
- Use the following command to search the product documentation via the SL1 API: https://docs.sciencelogic.com/latest/#search-<your-query-here>. For example: https://docs.sciencelogic.com/latest/#search-business services.

#### Links and Images

- If your browser opens the PDF in a new browser window when you click the *Download manual as PDF* link (instead of downloading the PDF), any text you try to copy and paste from that version will not paste correctly. If you need to copy and paste text from a manual, ScienceLogic recommends that you download the PDF instead and open it in Adobe Reader, as the PDF viewer in a browser produces an image of each page instead of the actual text, and any text you copy and paste from the viewer displays without spaces.
- If a link to an external site does not open properly in a new browser window or tab, right-click the link in the product documentation and select the option to open the link in a new tab or window.
- An image in the product documentation might appear blurry until you click that image to expand it in a popup window. The pop-up feature is currently not enabled for all images.
- If you clicked to expand an image in a pop-up window, you will need to click the expanded image in its popup window and return it to its regular size before you can click another image or link in the product documentation.
- If an image does not have a pop-up option, you can right-click the image and select Open Image in New Tab from the pop-up menu. The image displays at full size in the new browser tab. This method is also a good way to view the image at a larger size.

#### Guides from the "Classic" User Interface

• As of version 8.12.2 of SL1, ScienceLogic will no longer update the help content that appears when you click the **[Guide]** button in the user interface. All help content will be updated and maintained here at <a href="https://docs.sciencelogic.com">https://docs.sciencelogic.com</a>.

As always, to contact the ScienceLogic Documentation team, email us at <u>docs@sciencelogic.com</u>.

# Chapter



# **Events in the SL1 User Interface**

### Overview

You can view a list of all events in SL1 or view a list of events for a single device. This section describes how to perform both tasks.

Use the following menu options to navigate the SL1 user interface:

- To view a pop-out list of menu options, click the menu icon (三).
- To view a page containing all the menu options, click the Advanced menu icon ( … ).

This chapter includes the following topics:

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Filtering Events by Organization and Service	55
Filtering Events by Severity	57
Filtering for Masked Events	58
Viewing Additional Data about an Event	59
Viewing Automation Actions	59
Refreshing the Events Page	60
Customizing the Events Page	61
Using the Event Investigator	63
Using the Activity Center	64
Acknowledging and Clearing Events	66
Viewing and Editing Event Notes	67

Viewing the Event Policy	68
Suppressing and Unsuppressing an Event for a Device	68
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Enabling and Disabling Events	73
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# Viewing the List of Events

The **Events** page displays a list of currently active events, from critical to healthy. From this page you can acknowledge, clear, and view more information about an event. You can also view events by organization to focus on only the events that are relevant to you.

To navigate to the **Events** page, click the Events icon ( $^{\Delta}$ ) in the left navigation bar:

≡	Events								🔧 Activ	ty Em7admin 🗸		eLogic
88	Organizations	4 Critic	21 cal Major	5 Minor	22 7 Notice Health	59 Events V View All						View
▲	ORGANIZATION	Q, Ty	/pe to search events			-					=	\$
G	E F5 tetris	ά.	_									
	System 🤨 📀	*	ORGANIZATION	SEVERITY	NAME	MESSAGE	AGE COUN		MASKED EVENTS	ACKNOWLEDGE	CLEAR	0
畲	RC_SNMP .		System	<ul> <li>Notice</li> </ul>	System	EM_Test PP check	6 days 12 hours 1	Ð		✓ Acknowledge	× Clear	
6	SL_Meraki 🔋 🕚 🔕	^	RC_SNMP	<ul> <li>Major</li> </ul>	RC-bgp2v3	Cisco: FRU Control Configuration (RSP720-3CXL.	. 6 days 12 hours 1879	Ð	Q Masked	<ul> <li>Acknowledge</li> </ul>	× Clear	-
49	🗆 cisco asr5k 🧧 😩	Vitals				Tools			Logs			
000	UsualSuspects		100			🔍 Type to run an action	on this device		🕸 AGE 🖌 SEVERITY	MESSAGE		
	Knights_NetApp								4 minutes 51 😑 Minor	Cisco: IPSLA (6) is down error		
	CDP-LLDP Org	×	50						4 minutes 51 😑 Minor	Cisco: IPSLA (5) is down timeout		
	Business Services					_			4 minutes 53 😑 Major	Cisco: FRU Control Cor (RSP720-3CXL-GE mod serial number IAF1311	lule name module 5H0Oì Oneration	n
	Business Services		0 16:00	26. Mar	08:00	-			4 minutes 54 😑 Minor	Cisco: BGP Peers (11.1 not established and Ad	2.2) Peer state is min State is start	
	🌣 NAME TYPE HEALTH AVAILABILL. RISK									Cisco: IPSLA (6) is down	. Current status	U.
	AIML_Test Device Serv   Major   Available 75%	~	RC_SNMP	<ul> <li>Major</li> </ul>	RC-snmpsim-SNMP-	SSL certificate has expired: (expires on: 2016-12	6 days 12 hours 112	÷		<ul> <li>Acknowledge</li> </ul>	🗙 Clear	-
	ashok-ds-se Device Serv • Major - Available 75%	~	RC_SNMP	<ul> <li>Major</li> </ul>	RC-snmpsim-SNMPv	SSL certificate has expired: (expires on: 2016-12	. 6 days 12 hours 112	Ð		<ul> <li>Acknowledge</li> </ul>	× Clear	-
	ashok-ds-test Device Serv  Major  Available 75%		System	<ul> <li>Notice</li> </ul>	System	From unknown device: 10.64.164.246, appliance:	6 days 12 hours 1	Ð		<ul> <li>Acknowledge</li> </ul>	X Clear	-
		~	cisco asr5k	<ul> <li>Major</li> </ul>	JBS-ASR5k	Cisco: FRU Control Configuration (ASR5K-042GE.	6 days 1 hour 1741	Ð	Q Masked	<ul> <li>Acknowledge</li> </ul>	X Clear	-
		~	System	😑 Major	em7ao	DRBD: This node is not UpToDate	5 days 22 hours 1710	Ð	Q Masked	✓ Acknowledge	× Clear	-
		~	System	e Major	Avinash-AlO	DRBD: This node is not UpToDate	5 days 21 hours 1699	Ð		✓ Acknowledge	× Clear	-
		~	System	<ul> <li>Major</li> </ul>	em7ao	/data.local/db: File system usage exceeded major .		Ð		<ul> <li>Acknowledge</li> </ul>	× Clear	-
		~	UsualSuspects	<ul> <li>Major</li> </ul>	lenny-sl1-test1-db-1	Support: 4 appliances are not on the same patch I.	5 days 17 hours 8245	Ð	@ Masked	<ul> <li>Acknowledge</li> </ul>	× Clear	-

For each event, the **Events** page displays the following information:

- Organization. The organization with which the event is associated. Click the organization hyperlink to view
  more information about the organization. You can optionally filter the list of events so that only events for a
  specific organization appear on the Events page; for more information, see the section Filtering Events
  by Organization and Service.
- Severity. The severity of the event. Possible values are:
  - *Critical*. Indicates a condition that can seriously impair or curtail service and requires immediate attention (for example, service or system outages).
  - Major. Indicates a condition that impacts service and requires immediate investigation.
  - *Minor*. Indicates a condition that does not currently impair service, but the condition needs to be corrected before it becomes more severe.
  - Notice. Indicates a condition that does not affect service but about which users should be aware.
  - *Healthy*. Indicate that a device or condition has returned to a healthy state. Frequently, a healthy event is generated after a problem has been fixed.

You can optionally filter the list of events so that only events of a specific severity level appear on the **Events** page; for more information, see the section *Filtering Events by Severity*.

- **Name**. The name of the entity associated with the event. Click the name hyperlink to view more information about the entity.
- **Message**. The message generated for the event. Click the message hyperlink to go to **the Event Investigator**, where you can view more information about the event, including a description, its probable cause, and possible resolutions, among other things.

**NOTE**: You can also view the **Event Investigator** page by clicking the **[Actions]** button (---) for the event and selecting *View Event*.

- Age . The number of days, hours, and minutes since the first occurrence of the event. This is also the time since the event occurred without the event having been cleared.
- **Count**. The number of times the event has occurred or the number of child events associated with the event or the number of masked events associated with the event.
- Event Note. Click the Note icon (1) to view any existing user-defined notes about the event or to create or edit a note about the event. When you do so, the Edit Event Note modal page appears, where you can create or edit a note and save your changes. For more information, see Viewing and Editing Event Notes.

**NOTE**: You can also view, create, or edit event notes by clicking the **[Actions]** button (--) for the event and selecting *Edit Event Note*.

• Masked Events. If the event has occurred multiple times on the same device that uses the event mask setting, click the magnifying glass icon (a) or the Masked hyperlink to go to the Event Investigator page, where you can view details about the masked events. For more information, see the section Filtering for Masked Events.

• Automated Actions. The number of times the event has triggered the execution of an automation policy. If the event has triggered one or more automated actions, click the number hyperlink to go to the **Event** Actions Log, where you can view a log of all automated actions that have occurred for the event. For more information, see the section Viewing Automated Actions.

**NOTE:** You can also view the **Event Actions Log** modal page by clicking the **[Actions]** button (---) for the event and selecting *View Automation Actions*.

• Event ID. The unique ID for the event, generated by SL1. Click the ID hyperlink to go to the Event Investigator.

- Event Source. The system or application that generated this event. Possible values are:
  - Syslog. The event was generated from a system log generated by a device.
  - *Email*. The event was generated by an email from an external agent. For example, Microsoft Operations Manager (MOM).
  - Internal. The event was generated by SL1.
  - Trap. The event was generated by an SNMP trap.
  - Dynamic. The event was generated by a Dynamic Application collecting data from the device.
  - API. The event was generated by a snippet Run Book Action, a snippet Dynamic Application, a request to the ScienceLogic API, or by an external system.
  - SL1 agent. The event was generated by log file messages collected by the SL1 agent. For more
    information about creating Log File Monitoring Policies to monitor log file messages collected by the
    agent, see the "Monitoring Device Logs Using an Agent" chapter in the *Monitoring Device Infrastructure Health* manual.

*Event Type*. The type of entity associated with the event. Possible values are:

- Organizations
- Devices
- Assets
- IP networks
- Interfaces
- Business Service
- IT Services
- Device Services
- Vendors
- User Accounts
- Virtual Interfaces
- Last Detected. The date and time at which the event last occurred on the entity.
- **Ticket External Reference**. The numeric ID associated with a ticket from an external ticketing system (that is, a ticket that was not created in SL1). Click the ticket reference value to view the external ticket in a new window.

**NOTE**: To link an external ticket to an event, you must create a custom Run Book Automation policy and a custom Run Book Action or use the ScienceLogic APIs. For help with these tasks, contact ScienceLogic Customer Care.

- Ticket ID. The ticket ID of the ticket that has been created for the event, if applicable.
- Acknowledge. If the event has not been acknowledged, this column displays an [Acknowledge] button; click the button to acknowledge the event. If the event has been acknowledged, this column displays a check-mark character and specifies the user who acknowledged the event. For more information, see the section Acknowledging and Clearing Events.
- Clear. Click the [Clear] button to clear the event. When you do so, the event is removed from the Events page. For more information, see the section Acknowledging and Clearing Events.

**TIP**: To rearrange the columns in the List View, click and drag the column name to a new location. You can adjust the width of a column with by clicking and dragging the right edge of the column. You can click the **Select Columns** icon (\*) to add or remove columns, or to reset columns to their default settings.

# Filtering the List of Events

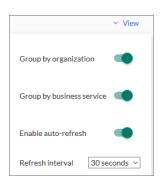
This section explains how to filter the list of events so you can quickly locate and address any potential issues in your environment.

# Filtering Events by Organization and Service

You can view events from all organizations or services, or filter down to just the organizations or services you want to monitor for events.

To view events by organization or service:

1. On the **Events** page, click the **View** menu:



2. Select the **Group by organization** and/or the **Group by business service** toggle. The relevant panel appears on the left with a list of events sorted by severity for each organization and/or service:

ivents											Em7admin 🗸	Science	elogic
Organizations	Critica	6 al Major	5 Minor	6 Notice	3 Healthy	25 Events View All							<ul> <li>View</li> </ul>
ORGANIZATION	Q Tvo	e to search event										=	
🖌 System 🛛 🔁 😢 🔢		e to search event	2										
	\$	ORGANIZA	SEVERIT NAM	е м	ESSAGE		AGE TICKET	I CO	EVENT NOT	MASKED EVENTS	ACKNOWLEDGE	CLEAR	C
		System	Critic: Devi	ces D	evice Service Risk	is Very High: 1	1 day 21 h:	137	+		✓ Acknowledge	× Clear	
		System	Critic: IT Se	ervices IT	Service Risk is Ve	ry High: 100	1 day 21 hr	137	÷		✓ Acknowledge	× Clear	
		System	Critic: IT Se	rvices IT	Service Health is	Critical:	1 day 21 hc	137	<del>!</del>		<ul> <li>Acknowledge</li> </ul>	× Clear	
		System	Critic: Busin	ness Servi Bi	usiness Service Ris	ik is Very High:	1 day 21 hr	137	÷		✓ Acknowledge	× Clear	
		System	Critic: Busin	ness Servi B	usiness Service He	alth is Critical:	1 day 21 hc	137	÷		✓ Acknowledge	× Clear	
		System	Major Devi	ces D	evice Service Heal	th is Major:	27 days 15	2354	Ð		✓ Acknowledge	× Clear	-
	~	System	Major SAC-	Test-DB-5 Sv	vap memory utiliz	ation has exce	8 days	2125	÷		✓ Acknowledge	× Clear	-
Business Services	~	System	Major SAC-	Test-DB-9 SS	SL certificate has e	xpired: (expire	5 days 12 h	12	<del>+</del>		✓ Acknowledge	× Clear	-
NAME TYPE HEALTH AVAILABL RISK	~	System	Major em7:	ao D	RBD: This node is	not UpToDate	5 days 11 ŀ	1415	÷		✓ Acknowledge	× Clear	
Devices Device Se  Critical  Available 10	196	System	Major SL-D	8-89 D	RBD: This node is	not UpToDate	1 day 9 hou	300	÷	Masked     Mas	✓ Acknowledge	× Clear	
IT Services IT Service      Critical      Available 10	~	System	Major em7:	ao 51	vap memory utiliz	ation has exce	11 hours 4	98	Ð		✓ Acknowledge	× Clear	
Business Business  Critical  Available 10	~	System	Minor SAC	Test-DB-9 Pl	nysical Memory ha	is exceeded th	6 days 11 ⊦	1700	Ð		✓ Acknowledge	× Clear	-
App Com., Applicatio., Minor Available 50	×	System	Minor klim	db202 Pl	nysical Memory ha	is exceeded th	1 day 9 hou	303	Ð		✓ Acknowledge	× Clear	
App Com., Applicatio.,  Critical  Available 10	~	System	Minor SAC-	PATCH-A PI	vysical Memory ha	is exceeded th	7 hours 6 n	58	Ð		✓ Acknowledge	× Clear	
My Apps Application Major Available 10	~	System	Minor em7:	ao Pl	rysical Memory ha	is exceeded th	4 hours 38	37	Ð		✓ Acknowledge	× Clear	
Static Application Major V Available 10	~	System	Minor SAC	Test-DB-1 A	pp: 90, Snippet: 11	.0 reported a c	17 minutes	1	÷	Q Masked	✓ Acknowledge	× Clear	
	~	System	Notice pand	lerp-dist-c D	evice record creat	ed (Class: Scie	16 days 22	1	(F)		✓ Acknowledge	× Clear	
Dynamic Applicatio  Oritical  Available 10	0%6	System	Notice em7:		evice record creat			1	1 masked e		✓ Acknowledge	× Clear	

**TIP**: To hide the **Organizations** and **Business Services** panels, click the left arrow icon (()). Click the right arrow icon ()) to expand the panel again.

3. On the left panel, click the check mark icon ( 2 ) to filter the list of events based on the organization or service you selected.

**TIP**: Click the name of a service to go to the **Service Investigator** page for that service. Click the name of an organization to go the **Organizational Summary Page** for that organization.

# Filtering Events by Severity

The **[Events]** page displays a list of currently active events, which can be sorted by any column, such as severity from critical to healthy. You can filter the list of events by severity by clicking one or more of the five colored buttons near the top of the **[Events]** page:

88		4 tical	11 Major	2 Minor	1 Notice	0 Healthy	18 Events View All								×	View
▲	Q	Type to	search events												=	٥
G	٥		ORGANIZATION	SEVERITY	NAME		MESSAGE		AGE	TICKET ID	cou	EVENT NOTE	MASKED EVENTS	ACKNOWLEDGE	CLEAR	3
ė	~		System	<ul> <li>Major</li> </ul>	10-64-171-	130-CDB	Device Fail	ed Availability Check: UDP - SNMP	18 days 1 hou		5206	Ð		✓ Acknowledge	× Clear	
	~		System	<ul> <li>Major</li> </ul>	em7aio		Device Fail	ed Availability Check: UDP - SNMP	18 days 1 hou		5205	Ð		✓ Acknowledge	× Clear	
<b>*</b>	~		System	<ul> <li>Major</li> </ul>	SAC-PATCH	I-AIO-9-20	Device Fail	ed Availability Check: UDP - SNMP	18 days 1 hou		5205	Ð		✓ Acknowledge	× Clear	
	~		System	<ul> <li>Major</li> </ul>	em7aio17		Device Fail	ed Availability Check: UDP - SNMP	18 days 1 hou		5205	Ð		✓ Acknowledge	× Clear	
			System	<ul> <li>Critical</li> </ul>	IT Service		IT Service F	Risk is Very High: 100	18 days 1 hou		96	Ð		✓ Acknowledge	× Clear	
			System	<ul> <li>Major</li> </ul>	Initial device	es	Device Ser	vice Risk is High: 75	17 days 1 hou		1639	Ð		✓ Acknowledge	× Clear	
			System	<ul> <li>Major</li> </ul>	Initial device	es	Device Ser	vice Health is Major:	17 days 1 hou		1639	Ð		✓ Acknowledge	× Clear	
			System	<ul> <li>Major</li> </ul>	IT Service		IT Service F	Risk is High: 80	17 days 1 hou		1639	Ð		✓ Acknowledge	× Clear	
			System	<ul> <li>Major</li> </ul>	My Busines	s Service	Business Se	ervice Risk is High: 80	17 days 1 hou		1639	Ð		✓ Acknowledge	× Clear	
			System	<ul> <li>Major</li> </ul>	My Busines	s Service	Business Se	ervice Health is Major:	17 days 1 hou		1639	Ð		✓ Acknowledge	× Clear	
			System	• Critical	Initial device	es	Device Ser	vice Availability is Unavailable:	6 days 1 hour		581	Ð		✓ Acknowledge	× Clear	
			System	• Critical	IT Service		IT Service A	Availability is Unavailable:	6 days 1 hour		581	Ð		✓ Acknowledge	X Clear	

When you click a severity, the list displays only events with the severity you selected. The severity button you clicked remains in color, while the other buttons turn gray.

TIP: To clear a severity filter, click the View All link next to the severity buttons.

The following color codes are used throughout SL1:

- **Red** elements have a status of **Critical**. Critical conditions are those that can seriously impair or curtail service and require immediate attention (such as service or system outages).
- Orange elements have a status of **Major**. Major conditions indicate a condition that is service impacting and requires immediate investigation.
- Yellow elements have a status of **Minor**. Minor conditions dictate a condition that does not currently impair service, but needs to be corrected before it becomes more severe.
- Blue elements have a status of **Notice**. Notice conditions indicate a condition that does not affect service but about which users should be aware.
- Green elements have a status of **Healthy**. Healthy conditions indicate that a device or service is operating under normal conditions. Frequently, a healthy condition occurs after a problem has been fixed.

# Filtering for Masked Events

When a device uses the **event mask** setting, events that occur on a single device within a specified span of time are grouped together, and only the event with the highest severity is displayed on the **Events** page. This allows related events that occur in quick succession on a single device to be rolled-up and posted together under one event description. For example, if a device cannot connect to the network, multiple other services on the device will raise events. SL1 would display the event with the highest severity and roll up all the other events.

On the **Events** page, any event that contains masked events includes a magnifying glass icon (<sup>Q</sup>) and the word "Masked" in the **Masked Events** column:

	1 itical	1084 Major	13 Minor	3 Notice	0 Healthy	1101 Events View All							~	View
Q	Type to	o search events											≡	٠
۵		ORGANIZATION	SEVERITY	NAME		MESSAGE	AGE	TICKET ID	COUN	EVENT NOTE	MASKED EVENTS -	ACKNOWLEDGE	CLEAR	С
~		Network	Major	Restorepo	int Applian	Backup Error Message: testing1: nil device : unkr	4 days 4 hours		1	+	Q Masked	<ul> <li>Acknowledge</li> </ul>	X Clear	
~		Network	Major	Restorepo	int Applian	Backup Error Message: testing1: Function won't	14 hours 9 min	11	1	+	Q Masked	<ul> <li>Acknowledge</li> </ul>	X Clear	
~		Network	Major	Restorepo	int Applian	Backup Error Message: sanity test device: Functi.	. 4 days 12 hour	rs	1	+	Q Masked	<ul> <li>Acknowledge</li> </ul>	X Clear	
~		Network	Major	Restorepo	int Applian	Backup Error Message: testing1: nil device : unkn	4 days 5 hours		1	+	Q Masked	<ul> <li>Acknowledge</li> </ul>	X Clear	
~		System	Major	10.100.10	0.34	Device Failed Availability Check: ICMP Ping	27 days 23 hou	u	8060	+	Q Masked	<ul> <li>Acknowledge</li> </ul>	X Clear	
~		Network	Major	Restorepo	int Applian	Send Email Message: test_sanity: There was a pr.	. 4 days 7 hours		131	<del>+</del>	Q Masked	<ul> <li>Acknowledge</li> </ul>	X Clear	
~		Network	Major	Restorepo	int Applian	Backup Error Message: testing1: Function won't	19 hours 24 m	ir	1	+	Q Masked	<ul> <li>Acknowledge</li> </ul>	X Clear	
~		Network	Major	Restorepo	int Applian	Backup Error Message: testing1: Function won't	17 hours 20 m	ir	1	+	Q Masked	<ul> <li>Acknowledge</li> </ul>	X Clear	
~		Network	Major	Restorepo	int Applian	Send Email Message: System: dial tcp 10.100.10.	. 4 days 7 hours		670	+	Q Masked	<ul> <li>Acknowledge</li> </ul>	X Clear	
~		Network	Major	Restorepo	int Applian	Backup Error Message: sanity test device: Functi.	. 1 hour 27 minu	r	1	+	Q Masked	<ul> <li>Acknowledge</li> </ul>	X Clear	
~		Network	Major	Restorepo	int Applian	Backup Error Message: sanity test device: Functi.	. 1 day 9 hours		1	+	Q Masked	<ul> <li>Acknowledge</li> </ul>	X Clear	
~		Network	Major	Restorepo	int Applian	Backup Error Message: testing1: nil device : unkn	4 days 9 hours		1	+	Q Masked	<ul> <li>Acknowledge</li> </ul>	× Clear	

TIP: Click the Select Columns icon (\*) to add the Masked Events column, if it is not currently visible.

To view more information about masked events:

- 1. On the **Events** page, click the magnifying glass icon (<sup>Q</sup>) or the **Masked** link in the **Masked Events** column for the relevant event. The **Event Investigator** page for that event appears.
- 2. Scroll down to the Masked events section to view the details about the masked events:

asked events										
ORGANIZATION	SEVERITY	NAME	MESSAGE	AGE	TICKET ID	COUNT	EVENT NOTE	ACKNOWLEDGE	CLEAR	i
NetApp C-Mode Org	Minor	SILO_iSCSI:/vol/CMode_i	No current snapshot for this volume	1 month 7 days		3671	Ð	✓ Acknowledge	× Clear	].

# Viewing Additional Data about an Event

On the **Events** page, you can click the down-arrow icon ( $\checkmark$ ) next to the name of an event to open a drop-down panel called the **Event Drawer**. The Event Drawer contains additional data about that event:

Auto_Cisco_B  Minor JBS-bgp-1	1.1.2.1 Cisco: BGP Peers	(11.1.2.2)	Peer state is n 5 days 3 hour	1480 🕂	0		✓ Acknowledge ★ Clear
ls		т	pols		Logs		
100			Type to run an action	on this device	🕸 AGE 🕶	SEVERITY	MESSAGE
			E DEFAULT TOOLS	Deep Port Scan	4 minutes 52	: 😐 Major	Cisco: FRU Control Configuration (NPE-G1 module name NPE-G1 0 serial number 36542717) Operation Status for Power not
50	May 20, 2020, 11:50 AM		Availability	ARP Lookup	4 minutes 55	s 😑 Minor	Cisco: BGP Peers (11.1.2.2) Peer state is not established and Admin State is start
	• Memory: 10.77%		Ping	ARP Ping	9 minutes 59	s 😑 Major	Cisco: FRU Control Configuration (NPE-G1 module name NPE-G1 0 serial number 36542717) Operation Status for Power not
0 18:00 20. May	06:00 12:00		Who Is	Trace Route	10 minutes	Minor	Cisco: BGP Peers (11.1.2.2) Peer state is not established and Admin State is start
10.00 20. May	00.00 12.00		Port Scan				Cisco: FRU Control Configuration (NPE-G1

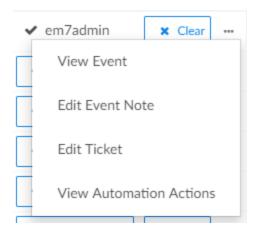
NOTE: The Event Drawer displays only for events that are aligned with devices.

On the Event Drawer, you can access the following panes:

- The **Vitals** pane displays graph data for the past 24 hours of CPU and memory usage for the device related to the event. You can zoom in on a shorter time frame by clicking and dragging, and you can go back to the original time span by clicking the **[Reset zoom]** button.
- The **Tools** pane enables you to run a set of network diagnostic tools or user-initiated actions in the **Activity Center**. Click the search bar to search for a tool or action to run, or click one of the default tools or actions that are available based on the device type and your user permissions. For more information, see the section on **Using the Action Runner**.
- The **Logs** pane displays a list of the log entries from the device's log file, sorted from newest to oldest by default.

### Viewing Automation Actions

To view a log of automated actions that have occurred for an event, on the **Events** page, click the **[Actions]** button (---) for the event and select View Automation Actions.



When you do so, the **Event Actions Log** modal page appears. This page displays a history of all automation actions that SL1 executed in response to the event.

**NOTE:** You can also view the **Event Actions Log** modal page by clicking the hyperlink in the **Automated Actions** column for a particular event on the **Events** page.

Each entry in the **Event Actions Log** modal page includes:

- The date and time when the action was executed
- The automation policy that triggered the action
- The name of the action policy
- The result of the action

### Refreshing the Events Page

You can refresh the **Events** page manually or set it to auto-refresh.

To refresh the  ${f Events}$  page manually, click the refresh icon (  ${igoplus}$  ) .

$\odot$	0 Critical	39 Major	7 Minor	1 Notice	4 Healthy	51 Events View All								~ View
Q Typ	pe to search e	vents											=	•
•	ORGANIZ	ATION	SEVER	ITY	NAME		MESSAGE	AGE 🔺	TICKET ID	COUNT	EVENT NOTE	ACKNOWLEDGE	CLEAR	c
~	System		ө м	ajor	AIO-9-	80	Device Failed Availability Check: UDP - SNMP	1 day 4 hours		332	Ð	✓ Acknowledge	× Clear	
~	System		<b>6</b> M	ajor	fthoms	enDevAlO	Device Failed Availability Check: UDP - SNMP	1 day 4 hours		332	Ð	✓ Acknowledge	× Clear	- 1
~	Acme, in	c	<b>e</b> M	ajor	iso4-co	Ib-9-66	Device Failed Availability Check: UDP - SNMP	1 day 4 hours		311	Ð	✓ Acknowledge	× Clear	
$\sim$	Acme, in	c	<b>e</b> M	ajor	iso4-cu	1-9-67	Device Failed Availability Check: UDP - SNMP	1 day 4 hours		311	Ð	✓ Acknowledge	× Clear	r
$\sim$	Intellited	h	<del> </del> M	ajor	iso4-cu	2-9-68	Device Failed Availability Check: UDP - SNMP	1 day 4 hours		311	Ð	<ul> <li>Acknowledge</li> </ul>	× Clear	·
$\sim$	System		<mark>0</mark> M	ajor	iso4-m	c-9-69	Device Failed Availability Check: UDP - SNMP	1 day 4 hours		311	Ð	✓ Acknowledge	× Clear	· …
~	System		<mark>0</mark> M	ajor	ISO6-4	AP-9-85	Device Failed Availability Check: UDP - SNMP	1 day 4 hours		311	Ð	<ul> <li>Acknowledge</li> </ul>	× Clear	r
$\sim$	System		<mark>0</mark> M	ajor	ISO6-0	DB-9-86	Device Failed Availability Check: UDP - SNMP	1 day 4 hours		311	Ð	<ul> <li>Acknowledge</li> </ul>	× Clear	· …
$\sim$	System		<mark>0</mark> M	ajor	ISO6-C	CU1-9-87	Device Failed Availability Check: UDP - SNMP	1 day 4 hours		311	Ð	✓ Acknowledge	X Clear	· ···
$\sim$	System		ө м	ajor	ISO6-C	CU2-9-88	Device Failed Availability Check: UDP - SNMP	1 day 4 hours		311	Ð	✓ Acknowledge	X Clear	r
$\sim$	System		ө м	ajor	1506-0	GC-9-83	Device Failed Availability Check: UDP - SNMP	1 day 4 hours		311	Ð	✓ Acknowledge	× Clear	r
$\sim$	System		<mark>0</mark> M	ajor	1506-1	4C-9-89	SSL certificate has expired: (expires on: 2019-05-07 19:00:28)	18 hours 7 minutes		1	Ð	✓ Acknowledge	× Clear	r
~	System		<b>e</b> M	ajor	ISO6-1	4C-9-89	Device Failed Availability Check: UDP - SNMP	1 day 4 hours		311	Ð	✓ Acknowledge	× Clear	· ···
~	System		<mark>0</mark> M	ajor	ISO6-S	S-9-84	Device Failed Availability Check: UDP - SNMP	1 day 4 hours		311	Ð	<ul> <li>Acknowledge</li> </ul>	× Clear	·
$\sim$	System		<mark>0</mark> M	ajor	NMore	_9_14	DRBD: This node is not UpToDate	12 hours 43 minutes		116	Ð	✓ Acknowledge	× Clear	· (
$\sim$	System		ө м	ajor	renee-	em7	DRBD: This node is not UpToDate	1 day 4 hours		310	Ð	✓ Acknowledge	X Clear	
	-		<u> </u>								<b>C</b>	· · · · · · · · · · · · · · · · · · ·		

To set up auto-refresh:

1. On the **Events** page, click the **View** menu:

	<ul><li>View</li></ul>
Group by organization	•
Group by business service	•
Enable auto-refresh	
Refresh interval 30 se	conds ~

- 2. Click the Enable auto-refresh toggle to turn it blue. The Refresh interval drop-down appears.
- 3. In the **Refresh interval** drop-down, select the refresh interval for the page. Options range from 10 seconds to 60 minutes.

### Customizing the Events Page

You can deselect columns that you do not want to see in the **Events** page, and select additional columns including custom attributes.

To select columns:

- 1. Click on the gear icon (\*) in the top left of the **Events** page.
- 2. In the **Columns** menu, select the columns you want to add or deselect columns you want to hide. If you can't find a column, use the search field to find it by name. If you have created any Custom Attributes, these will appear in this list as well:

<b>Q</b> Find a Column
<ul> <li>Age</li> <li>Clear</li> </ul>
<ul> <li>Count</li> <li>Event Note</li> <li>Message</li> </ul>
<ul> <li>Name</li> <li>Organization</li> <li>Severity</li> </ul>
Ticket ID

NOTE: For more information about Custom Attributes, see the **Device Management** manual.

3. When you have finished making your selections, click outside the **Columns** menu to close it.

# Using the Event Investigator

The **Event Investigator** page provides details about the event as well as the device associated with the event, where relevant. The **Event Investigator** page includes sections for Probable Cause & Resolution, Tools, Logs, Notes, Assets, a Vitals widget, and a list of masked events:

Cisco: BGP Pee	r State not established a	nd Admin State i	s start	✓ A	:knowledge 🗙 Clear …
Minor 17 seconds Ago	2052 Occurrences	First seen 7 days 3 hours Ago			
Cisco: BGP Peers (11.1.2.2) F	Peer state is not established and Admin State is	s start			
Probable Cause & Resolution	Description Cisco BGP Peer state is not established and the admin st Probable Cause IP reachability Incorrect configuration Laver 2 problems Resolution Check TCP to find out what connections we are accepting				
JBS-bgp-11.1.2.10	10.2.10.130 Auto_Cisco_Base_Pack				
Tools		Logs			
Type to run an action	on this device	🌣 AGE 🗸	SEVERITY	MESSAGE	
≡DEFAULT TOOLS	Deep Port Scan	16 seco 18 seco		Cisco: FRU Control Configuratio NPE-G1 0 serial number 36542 Power not ON Current status is Cisco: BGP Peers (11.1.2.2) Peer	offEnvOther
Availability Ping	ARP Lookup ARP Ping		es 29 seconds • Major	and Admin State is start Cisco: FRU Control Configuratic NPE-G1 0 serial number 36542 Power not ON Current status is	n (NPE-G1 module name 717) Operation Status for
Who Is	Trace Route	5 minut	es 31 seconds 😑 Minor	Power not ON Current status is Cisco: BGP Peers (11.1.2.2) Peer and Admin State is start	state is not established
Port Scan					
Note testing the event note		100 -			
	Cancel 🗸 Sav	/e Note 60 -			
No asset is assigned to this event's	; device	<del>کر</del> 40 –			
		20 -			
		0 -	16:00	20:00 22. May 04:00	08:00 12:00
Masked events This event has no masked event	s.				

**TIP**: To get to the **Event Investigator** page, click the linked text in the **Message** column of the **Events** page, or click the **[Actions]** button (---) for the event and select *View Event*.

The top pane of the **Event Investigator** page contains basic event details. From this pane, you can also acknowledge the event, clear the event, or click the **[Actions]** button (---) and select *Create Ticket* to create a ticket for that event. You can hover your mouse over an acknowledged field to see when the event was acknowledged and who acknowledged it. Also, if an event was acknowledged by another user and you have the relevant permissions, you can click the **[Reacknowledge ]** button to acknowledge that event.

**TIP**: On the **Event Investigator** page, click the name of an aligned device or service to go to the Investigator page for that device or service. You can also click the name of the aligned organization to view its **Organizational Summary** page.

The **Event Investigator** page includes the following sections:

- Probable Cause & Resolution. Displays additional information about the event, based on the event policy.
- **Tools**. A set of network diagnostic tools or user-initiated actions that you can run on the device associated with the event. Click the search bar to search for a tool or action to run, or click one of the default tools or actions that are available based on the device type and your user permissions. This pane is the same as the Tools pane of the Event Drawer. For more information, see the section on Using the Action Runner.
- Logs. A list of log entries from the device's log, sorted from newest to oldest by default.
- Note. A text field where you can add new text and edit existing text related to the event and the device associated with the event. For more information, see Viewing and Editing Event Notes.
- Assets. One or more asset records associated with the device, such as a piece of equipment owned by an organization. The asset record includes contact information for the technician, administrator, and vendor for that device. You can click the name of an asset to view an Asset page for more information.
- Vitals. A widget that displays the past 24 hours of CPU and memory usage for the device related to the event. You can zoom in on a shorter time frame by clicking and dragging, and you can go back to the original time span by clicking the **[Reset zoom]** button.
- Masked events. A list of all masked events for the device. When a device uses the event mask setting, events that occur on a single device within a specified span of time are grouped together, and only the event with the highest severity is displayed in the **Events** page. This allows related events that occur in quick succession on a single device to be rolled-up and posted together under one event description.

### Using the Activity Center

You can access the **Action Runner** from either the **Events** page or the **Event Investigator** page. The **Action Runner** enables you to run a set of diagnostic tools or user-initiated actions, or to click on custom links that will open related records in external systems in a separate browser window.

**NOTE**: The tools and actions that are available in the **Action Runner** are based on the device type and your user permissions, as determined by your organization assignment and access hooks. For example, if a device does not have an IP address, only the Availability tool will be available.

**NOTE**: For more information about user-initiated actions, see the chapter on "Automation Policies" in the *Run Book Automation* manual.

#### To use the Action Runner:

- 1. Access the **Action Runner** for events in one of the following ways:
  - On the Action Runner page, open the Event Drawer for a particular event. Click the search bar in the Tools pane.
  - On the Action Runner page, click the search bar in the Tools pane.
  - Click [Activity] in the navigation bar at the top of any page in SL1. Click the search bar.
- 2. When you click the search bar, a list displays the default tools, actions, or custom links that are available for the selected device. Click one of these tools, actions, or custom links, or use the search bar to search for a tool or action that is not listed. The following default tools are available in the **Action Runner**:
  - Availability. Displays the results of an availability check of the device, using the port and protocol specified in the Availability Port and Availability Protocol fields on the [Settings] tab for this device.
  - **Ping**. Displays statistics returned by the ping tool. The ping tool sends a packet to the device's IP address (the one used by SL1 to communicate with the device) and waits for a reply. SL1 then displays the number of seconds it took to receive a reply from the device and the number of bytes returned from the device. If the device has an IPv6 address, SL1 uses the appropriate IPv6 ping command.
  - Who Is. Displays information about the device's IP, including the organization that registered the IP and contacts within that organization.
  - Port Scan. Displays a list of all open ports on the device at the time of the scan.
  - **Deep Port Scan**. Displays a list of all open ports and as much detail about each open port as the deep port scanner can retrieve.
  - **ARP Lookup**. Displays a list of IP addresses for the device and the resolved Ethernet physical address (MAC address) for each IP address.
  - **ARP Ping**. Displays the results from the ARP Ping tool. The ARP Ping tool is similar in function to ping, but it uses the ARP protocol instead of ICMP. The ARP Ping tool can be used only on the local network.
  - **Trace Route**. Displays the network route between SL1 and the device. The tool provides details on each hop to the endpoint. If the device has an IPv6 address, SL1 uses the appropriate IPv6 traceroute command.

**TIP**: The tools found in the **Action Runner** can also be found in the Device Toolbox in the classic SL1 user interface.

- 3. If you clicked a custom link, the link opens in a new browser window or tab. If you clicked on a tool or action, then as it runs, its progress and results appear in a log in the **Activity Center**.
- 4. After the tool or action has run, if you want to run it again, click the **[Run Again]** button. This button appears only for activities completed during your current session.

Activity		^
() RECENT DEVICES		
lenny-nightly-dist-mc-10-2- 4-125	Nype to run a tool, RBA, monitor,	
tl12r2-sp-01	Ping May 16, 2020, 2:33 PM	C Run Again
10.2.10.58	Process Started on Collector PING 10.2.4.125 (10.2.4.125) 56(84) bytes of data. 64 bytes from 10.2.4.125: icmp_seq=1 ttl=63 time=0.283 ms 64 bytes from 10.2.4.125: icmp_seq=2 ttl=63 time=0.254 ms 64 bytes from 10.2.4.125: icmp_seq=3 ttl=63 time=0.274 ms 64 bytes from 10.2.4.125: icmp_seq=4 ttl=63 time=0.404 ms 64 bytes from 10.2.4.125: icmp_seq=5 ttl=63 time=0.269 ms 10.2.4.125 ping statistics 5 packets transmitted, 5 received, 0% packet loss, time 4000ms rtt min/avg/max/mdev = 0.254/0.296/0.404/0.058 ms Process Completed on Collector	
	Deep Port Scan May 16, 2020, 2:14 PM	C Run Again
	Process Started on Collector Starting Nmap 6.40 ( http://nmap.org ) at 2020-05-16 18:14 UTC	

**NOTE:** The left pane of the **Activity Center** displays a list of devices for which you have most recently used the **Action Runner**, with the current device at the top of the list. To use the **Action Runner** for any of the other recently used devices or to view historical logs for the tools or actions that have been run on those devices, click on the device name.

# Acknowledging and Clearing Events

When you **acknowledge** an event, you let other users know that you are aware of that event, and you are working on a response.

When you *clear* an event, you let other users know that this event has been addressed. Clearing an event removes a single instance of the event from the **Events** page. If the event occurs again on the same device, it will reappear in the **Events** page.

**NOTE**: If the same event occurs again on the same device, it will appear in the **[Events]** tab, even if you have previously cleared that event.

To acknowledge and clear events:

1. To acknowledge an event, find the event on the **[Events]** page and click the **[Acknowledge]** button for that event. Your user name replaces the **[Acknowledge]** button for that event:



You can also click the [Acknowledge] button in a specific event's Investigator page.

- 2. To see when an event was acknowledged and who acknowledged it, hover your mouse over an acknowledged field.
- 3. If an event was acknowledged by another user and you have the relevant permissions, you can click the **[Reacknowledge]** button to acknowledge that event.
- 4. To clear an event, click the **[Clear]** button. The event is removed from the **Events** page.

TIP: If you want to hide the [Acknowledge] or [Clear] buttons on the Events page, click the Select Columns icon (\*) and deselect those columns.

# Viewing and Editing Event Notes

From the **Events** page, you can access **event notes**, which contain event definitions, probable causes, and resolutions for the event, along with a text field where you can add more information about the event or the device you are monitoring. If event notes already exist for that event, the opening text of that note appears in the **Event Note** column of the **Events** page.

To view or edit an event note:

1. On the **Events** page, click the **Note** icon (🕒) for that event. The **Edit Event Note** window appears:

Edi	t Event Note		×
	pport: Low Rows Behind High vice: panderp-dist-db-discvm-71		
	Event Note		
		Cancel	Save

TIP: You can also edit an event note on the **Events** page by clicking the **[Actions]** button (---) for that event and selecting *Edit Event Note*. This is helpful if you have hidden the **Event Note** column on the **Events** page.

2. Type your additional text for the event note and then click [Save]. The event note is updated.

# Viewing the Event Policy

From the **Events** page, you can view the Event Policy for an event, which allows you to view a description of the policy, enable or disable the policy, and edit policy details.

To view an Event Policy from the **Events** page:

1. On the **Events** page, click the **Actions** menu ( ) for that event and select View Event Policy. The **Event Policy Editor** page appears for that event:

Poller: File system usage ex	kce Enable	Event Policy	•	Edit
Policy Description	Match Logic	Event Message	Suppression	
Policy Description Event Definition: A file system Action: Review file system usu load on these filesystems.			nfirm which filesystem(s) are getting full. Take appropriate application action	to reduce the

2. Click the **[Edit]** button to edit the Event Policy. For more information, see the "Defining and Editing Event Policies" chapter of the **Events** manual.

# Suppressing and Unsuppressing an Event for a Device

When you suppress an event, you are specifying that in the future, if this event occurs again on the same device, the event will not appear in the **Events** page or the **Events** tab for a device.

If a suppressed event occurs on a different device, it will appear in the **Events** page and on the **Events** tab for that different device.

When you suppress an event, the current instance of the event still appears in the **Events**. To remove the current instance from the event console, clear the event (see the section **Clearing One or More Events**).

**NOTE**: To suppress an event, accounts of type "user" must be granted one or more access keys that include the following access hooks: Events/Event:View and Event:Clear. Accounts of type "user" will then be able to view and suppress events that belong to the same organization(s) as the user. For more information on access hooks, see the manuals **Access Permissions** and **Organizations and Users**.

### Suppressing an Event

To suppress an event:

- 1. Go to the **Events** page.
- 2. Click the **Actions** button (<sup>\*\*\*</sup>) for the event you want to suppress and select Suppress Event for this Device:

/ents										Mantone 🗸		Logic
0 Critica	16 I Major	4 Minor	1 Notice H	8 lealthy	29 Events View All							~ Vie
Q Type	e to search events										=	•
\$	ORGANIZATION	SEVERITY	NAME	MESS	AGE	AGE	TICKET ID	COU	EVENT NOTE	ACKNOWLEDGE	CLEAR	C
	System	<ul> <li>Notice</li> </ul>	System	From	unknown device: 10.2.23.34, appliance:	5 days 2 hours		2	ack for test, like	Em7admin	× Clear	
~	System	🔴 Major	Cisco-HSBC-AP	-01 /tmp	File system usage exceeded major thres	4 days 9 hours		419	+	✓ Acknowledge	× Clear	
	System	🔴 Major	Munich RE SAP	Apj Devi	ce Service Risk is High: 75	4 days 1 hour		385	<del>!</del>	View Event		
	System	🔴 Major	Munich RE SAP	Apj Devi	ce Service Health is Major:	4 days 1 hour		385	÷	Edit Event No	ote	
	System	🔴 Major	Claims App	Devi	ce Service Risk is High: 75	4 days 1 hour		385	<del>+</del>	Create Ticket		
	System	🔴 Major	Claims App	Devi	ce Service Health is Major:	4 days 1 hour		385	<del>+</del>	View Event P	olicy	
	System	🔴 Major	Claims Processi	ng IT Se	rvice Risk is High: 80	4 days 1 hour		385	÷	Suppress Eve	nt for this Dev	ice
	System	🔴 Major	Munich RE SAP	IT Se	rvice Risk is High: 80	4 days 1 hour		385	÷	✓ Acknowledge	× Clear	
	System	🔴 Major	Munich RE Net	worl IT Se	rvice Risk is High: 80	4 days 1 hour		385	<del>+</del>	✓ Acknowledge	× Clear	
	System	🔴 Major	ERGO Direkt	Busir	ness Service Risk is High: 80	4 days 1 hour		385	<del>+</del>	✓ Acknowledge	× Clear	
~	System	Minor	Cisco-HSBC-CU	I-28 Phys	ical Memory has exceeded threshold: (80	3 days 18 hou		1081	<del>+</del>	✓ Acknowledge	× Clear	
	System	Minor	Munich RE SAP	DB Devi	ce Service Risk is Medium: 50	1 day 3 hours		104	÷	✓ Acknowledge	× Clear	
	System	<ul> <li>Healthy</li> </ul>	Munich RE SAP	DB Devi	ce Service Availability is Available:	18 hours 22 m		71	<del>[+</del> ]	✓ Acknowledge	× Clear	
	System	<ul> <li>Healthy</li> </ul>	Claims DB	Devi	ce Service Availability is Available:	18 hours 22 m		71	<del>[]</del>	✓ Acknowledge	× Clear	
	System	Healthy	Claims App	Devi	ce Service Availability is Available:	18 hours 22 m		71	<b>(+</b> )	✓ Acknowledge	× Clear	

In the future, if this event occurs again on the same device, the event will not appear in the **Events** page.

**NOTE**: Users of type "user" can view only suppressed events that are aligned with the same organization(s) to which the user is aligned. Users of type "administrator" can view all suppressed events.

### Suppressing an Event on Multiple Devices

When you suppress an event on multiple devices, you are specifying that, in the future, if this event occurs again on any of those devices, the event will not appear in the **Events** page or in the **Viewing Events** page for any of those devices.

To suppress an event on multiple devices:

1. Go to **Event Policies** page (Events > Event Policies).

≡	Events				E	m7admin 🗸 🙂
88	Q Type to search eventPolicy				≡ ¢	Create Event Policy
	NAME 🔺	STATUS	ТҮРЕ	WEIGHT	SEVERITY	
3	% SASL Plain Failures Exceeded Threshold	Enabled	Dynamic	0	Minor	
Laid	% Vtg Token Failures Exceeded Threshold	Enabled	Dynamic	0	😑 Minor	Edit
÷	AKCP: AC Voltage sensor detects no current	Enabled	Syslog	0	Critical	Duplicate
	AKCP: AC Voltage sensor now reporting Normal Status	Enabled	Syslog	0	Healthy	
	AKCP: DC Voltage High Warning	Enabled	Syslog	0	🛑 Major	Delete
	AKCP: DC Voltage sensor High Critical	Enabled	Syslog	0	Critical	
	AKCP: DC Voltage sensor Low Critical	Enabled	Syslog	0	Critical	
	AKCP: DC Voltage sensor Low Warning	Enabled	Syslog	0	🛑 Major	
	AKCP: DC Voltage sensor returned to Normal Status	Enabled	Syslog	0	Healthy	•••
	AKCP: Dry Contact Sensor Low Critical	Enabled	Syslog	0	Critical	
	AKCP: Dry contact sensor now Normal	Enabled	Syslog	2	Healthy	
	AKCP: Humidity High Warning	Enabled	Syslog	0	🛑 Major	
	AKCP: Humidity Low Warning	Enabled	Syslog	0	🛑 Major	
	AKCP: Smoke Detector Alert!	Enabled	Syslog	10	Critical	
	AKCP: Smoke detector now Normal Status	Enabled	Syslog	4	Healthy	
	AKCP: Water Sensor has detected water	Enabled	Syslog	0	Critical	

- 2. In the **Event Policies** page, select the Actions menu (<sup>\*\*\*</sup>) of the event policy you want to edit and select *Edit*.
- 3. The selected event policy is displayed in the **Event Policy Editor** page, where you can edit one or more properties of the event policy.
- 4. Click the [Suppression] tab.

Select Device Groups

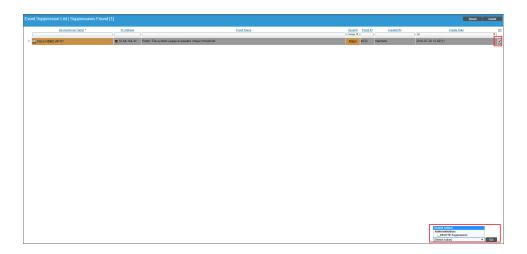
- 5. On the **[Suppression]** tab, you can select the devices or device groups on which to suppress the event. To do so:
  - Click **[Select Devices]** to select one or more devices on which to suppress the event. When you click **[Select Devices]**, the **Available Devices** modal page appears. Select the checkboxes of the devices you want to add to the suppression list, and then click **[Select]**.
  - Click [Select Device Groups] to select one or more device groups on which to suppress the event. When you click [Select Device Groups], the Available Device Groups modal page appears. Select the checkboxes of the device groups you want to add to the suppression list, and then click [Select].
- 6. Click [Save].

### Unsuppressing an Event

You can view a list of all suppressed events in SL1 and choose to unsuppress one or more of those events. When you unsuppress an event, if this event occurs again on the same device, the event will appear in the **Events** page.

NOTE: To unsuppress an event, accounts of type "user" must be granted one or more access keys that include the following access hooks: Registry, Registry>Events>Suppressions, and Event:Suppressions. Accounts of type "user" will then be able to view a list of suppressed events that belong to the same organization as the user. Accounts of type "user" will also be able to unsuppress one or more of these suppressed events. For more information on access hooks, see the manuals Access Permissions and Organizations and Users. To unsuppress an event:

- 1. Go to the **Event Suppression List** page (Events > Suppressions).
- 2. Select the checkbox for each event you want to unsuppress.



- 3. In the **Select Action** drop-down menu, in the lower right, select DELETE Suppression.
- 4. Click **[Go]**. In the future, if the unsuppressed event occurs again on the same device, the event will appear in the **Events** page.

## Unsuppressing All Instances of an Event

You can simultaneously unsuppress all instances of an event. That is, if a single event has been suppressed for multiple devices, you can unsuppress the event on all devices. In the future, if the unsupressed event occurs again on any device, the event will appear in the **Events** page.

**NOTE**: To unsuppress an event on all devices, accounts of type "user" must be granted one or more access keys that include the following access hooks: Registry, Registry>Events>Event Manager, and Event:Add/Rem. Accounts of type "user" will then be able to access the **Event Policies** page and unsuppress one or more events on all devices. For more information on access hooks, see the manuals **Access Permissions** and **Organizations and Users**.

To unsuppress an event on all devices:

- 1. Go to the **Event Policies** page (Events > Event Policies).
- 2. Select the checkbox for the event you want to unsuppress on all devices.

≡	Events				Em7admin 🗸	
88	Q Type to search eventPolicy				≡ 0	Create Event Policy
▲	NAME -	STATUS	TYPE	WEIGHT	SEVERITY	
-	% SASL Plain Failures Exceeded Threshold	Enabled	Dynamic	0	Minor	
لانها	% Vtg Token Failures Exceeded Threshold	Enabled	Dynamic	0	Minor	
ġ	AKCP: AC Voltage sensor detects no current	Enabled	Syslog	0	Critical	•••
	AKCP: AC Voltage sensor now reporting Normal Status	Enabled	Syslog	0	Healthy	
	KCP: DC Voltage High Warning	Enabled	Syslog	0	🛑 Major	
	AKCP: DC Voltage sensor High Critical	Enabled	Syslog	0	Critical	
	AKCP: DC Voltage sensor Low Critical	Enabled	Syslog	0	Critical	•••
	AKCP: DC Voltage sensor Low Warning	Enabled	Syslog	0	🔴 Major	
	AKCP: DC Voltage sensor returned to Normal Status	Enabled	Syslog	0	Healthy	•••
	AKCP: Dry Contact Sensor Low Critical	Enabled	Syslog	0	Critical	•••
	AKCP: Dry contact sensor now Normal	Enabled	Syslog	2	Healthy	•••
	AKCP: Humidity High Warning	Enabled	Syslog	0	🔴 Major	
	AKCP: Humidity Low Warning	Enabled	Syslog	0	🛑 Major	
	AKCP: Smoke Detector Alert!	Enabled	Syslog	10	Critical	
	1 Event Policy Selected Delete	Enable	Disable Clear Suppressions		Deselect All	Select All Visible

#### 3. Click [Clear Suppressions].

In the future, if the unsuppressed event occurs again on any device, it will appear in the **Events** page or in the **Viewing Events** page for the device.

## Enabling and Disabling Events

You can simultaneously disable one or more events on all devices. When an event is disabled, it will no longer appear in the **Events** page for any devices. You can also enable an event that has been disabled.

**NOTE**: To disable or enable an event on all devices, accounts of type "user" must be granted one or more access keys that include the following access hooks: Registry, Registry>Events>Event Manager, and Event:Add/Rem. Accounts of type "user" will then be able to access the **Event Policies** page and enable one or more events on all devices. For more information on access hooks, see the manuals **Access Permissions** and **Organizations and Users**.

#### **Disabling Events**

To disable one or more events:

- 1. Go to the **Event Policies** page (Events > Event Policies).
- 2. Select the checkboxes for the events you want to disable.

≡	Events				Em7admin 🗸	
88	Q. Type to search eventPolicy				≡ 0	Create Event Policy
▲	NAME +	STATUS	ТУРЕ	WEIGHT	SEVERITY	
G	% SASL Plain Failures Exceeded Threshold	Enabled	Dynamic	0	Minor	
- <u></u>	% Vtg Token Failures Exceeded Threshold	Enabled	Dynamic	0	😑 Minor	
÷	AKCP: AC Voltage sensor detects no current	Enabled	Syslog	0	Critical	
	AKCP: AC Voltage sensor now reporting Normal Status	Enabled	Syslog	0	Healthy	
	AKCP: DC Voltage High Warning	Enabled	Syslog	0	🔴 Major	
	AKCP: DC Voltage sensor High Critical	Enabled	Syslog	0	Critical	
	AKCP: DC Voltage sensor Low Critical	Enabled	Syslog	0	Critical	
	AKCP: DC Voltage sensor Low Warning	Enabled	Syslog	0	🔴 Major	
	AKCP: DC Voltage sensor returned to Normal Status	Enabled	Syslog	0	Healthy	
	AKCP: Dry Contact Sensor Low Critical	Enabled	Syslog	0	Critical	
	AKCP: Dry contact sensor now Normal	Enabled	Syslog	2	Healthy	
	AKCP: Humidity High Warning	Enabled	Syslog	0	🔴 Major	
	AKCP: Humidity Low Warning	Enabled	Syslog	0	🔴 Major	
	AKCP: Smoke Detector Alert!	Enabled	Syslog	10	Critical	
	1 Event Policy Selected Delete	Enable Disable	Clear Suppressions		Deselect All	Select All Visible

#### 3. Click [Disable].

The selected event(s) will no longer appear in SL1 for any device, application, or policy.

#### **Enabling Events**

To enable one or more events:

- 1. Go to the **Event Policies** page (Events > Event Policies).
- 2. Select the checkboxes for the events you want to enable.

≡	Events					Em7admin 🗸	
88	Q Type to search eventPolicy					≡ 0	Create Event Policy
	NAME -	STATUS		TYPE	WEIGHT	SEVERITY	
G	% SASL Plain Failures Exceeded Threshold	Enabled		Dynamic	0	Minor	*
L	% Vtg Token Failures Exceeded Threshold	Enabled		Dynamic	0	Minor	
ė	AKCP: AC Voltage sensor detects no current	Enabled		Syslog	0	Critical	
	AKCP: AC Voltage sensor now reporting Normal Status	Enabled		Syslog	0	Healthy	
	AKCP: DC Voltage High Warning	Enabled		Syslog	0	🛑 Major	
	AKCP: DC Voltage sensor High Critical	Enabled		Syslog	0	Critical	
	AKCP: DC Voltage sensor Low Critical	Enabled		Syslog	0	Critical	
	AKCP: DC Voltage sensor Low Warning	Enabled		Syslog	0	🔴 Major	
	AKCP: DC Voltage sensor returned to Normal Status	Enabled		Syslog	0	Healthy	
	AKCP: Dry Contact Sensor Low Critical	Enabled		Syslog	0	Critical	
	AKCP: Dry contact sensor now Normal	Enabled		Syslog	2	Healthy	
	AKCP: Humidity High Warning	Enabled		Syslog	0	🔴 Major	
	AKCP: Humidity Low Warning	Enabled		Syslog	0	🛑 Major	
	AKCP: Smoke Detector Alert!	Enabled		Syslog	10	Critical	
	1 Event Policy Selected Delete	Enable	Disable	Clear Suppressions		Deselect All	Select All Visible

3. Click [Enable]. The selected event(s) will once again appear in SL1.

# Event Throttling

When SL1 detects syslog messages or traps coming from a single device at a rate greater than 25 messages per second, SL1 throttles the messages.

When SL1 throttles messages from a single IP address, those messages are deleted from the ScienceLogic database. The messages are not passed to the event engine, are not logged, and are not processed as events.

When SL1 throttles messages, SL1 also triggers events:

- Event with a Severity of Critical and the message "Inbound Message Flood". This event is triggered when a single IP exceeds the threshold of syslog messages or trap messages at least once per minute for the last ten minutes. The default threshold is 25 messages per second.
- Event with a Severity of Notice and the message "Inbound Message Spikes". This event is triggered when a single IP exceeds the threshold of syslog messages or trap message. The default threshold is 25 messages per second.

Message throttling is enabled by default. To disable message throttling, contact ScienceLogic Customer Support.

To adjust the threshold for message throttling, contact ScienceLogic Customer Support.

To whitelist an IP address so that message throttling does not apply to that IP, contact ScienceLogic Customer Support.

NOTE: SL1 does not support message throttling on IPv6 devices monitored by CentOS5 Data Collectors.

# Chapter

# 4

# **Devices in the SL1 User Interface**

#### Overview

The **Devices** page allows you to view all of your managed devices in SL1 and also run a discovery to find more devices to monitor. You can select a device from the list on the **Devices** page to view detailed data on the **Device Investigator** page for that device.

**NOTE**: The list of devices on the **Devices** page matches the list of devices on the **Device Manager** page (Devices > Device Manager).

Use the following menu options to navigate the SL1 user interface:

- To view a pop-out list of menu options, click the menu icon (三).
- To view a page containing all the menu options, click the Advanced menu icon ( … ).

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# **Viewing Devices**

The **Devices** page allows you to view all of your managed devices in SL1. This section explains how to gather more information about a device from this page.

To navigate to the **Devices** page, click the Devices icon (💷) on the navigation bar:

•	Devices							🔧 Activity	Em7admin 🗸	
8	Q. Type to search devices							=	٠	Add Devices
2	DEVICE NAME •	IP ADDRESS	CATEGORY	CLASS	ORGANIZATION .	ID	STATE -	COLLECTION ST	ATE HOSTNAME	I
~	✓ □ □ 10.2.2.11	10.2.2.11	Pingable	Ping ICMP	System	255	Healthy	active	-	
0	✓ □ □ 10.2.2.12	10.2.2.12	Pingable	Ping ICMP	System	258	Healthy	active	-	
3	✓ □ □ 10.2.2.13	10.2.2.13	Pingable	Ping ICMP	System	257	Major	unavailable		
-	✓ □ □ 10.2.2.14	10.2.2.14	Pingable	Ping ICMP	System	254	Healthy	active		
	✓ □ □ 10.2.2.15	10.2.2.15	Pingable	Ping ICMP	System	253	Major	unavailable		
	▲ 10.2.2.16	10.2.2.16	Pingable	PingICMP	System	256	Healthy	active	-	
	g 200 100 0 1500 1600	17:00	18:00				CALC 17, 2020, 4:33 AM Jul 17, 2020, 4:33 AM Jul 17, 2020, 4:33 AM Jul 17, 2020, 4:38 AM Jul 17, 2020, 4:38 AM Jul 17, 2020, 4:43 AM Jul 17, 2020, 4:43 AM	SEVERITY Major Minor Major Minor Major Minor	Network latency Device Failed Av Network latency Device Failed Av	vailability Che v exceeded th
	AsimovSandboxCDB	10.2.25.100	System.EM7	ScienceLogic, Inc. EM	17 Data System	1	Critical	active		
	AsimovSandboxCDI	B Vitals	Tools	Type to run a tool on	this device		Q Type to search de	viceLogs		= ¢
	75		~	Type to run a toor on	tins device		CATE/TIME	SEVERITY	MESSAGE	
	25 which Mynym Mind which	and	hin				Sep 18, 2020, 11:21 AM Sep 18, 2020, 11:21 AM Sep 18, 2020, 11:23 AM Sep 18, 2020, 11:23 AM Sep 18, 2020, 11:23 AM	<ul><li>Major</li><li>Major</li><li>Major</li></ul>	Support: 3 appli Anomaly Detect Support: 3 appli Anomaly Detect Anomaly Detect	ances are not red: Predictio
	15:00 16:00	17:00	18:00				Sep 18, 2020, 11:25 AM	Major	Support: 3 appli	ances are not 🗸

For each device, the **Devices** page displays the following information:

- **Device Name**. Name of the device. For devices running SNMP or with DNS entries, the name is discovered automatically. For devices without SNMP or DNS entries, the device's IP address will appear in this field.
- IP Address. The device's IP address.
- **Category**. The category assigned to the device. Categories include servers, routers, switches, firewalls, and printers, among others. The category is automatically assigned during discovery, at the same time as the as Device Class.
- **Class**. The manufacturer and type of device. The Device Class is automatically assigned during discovery, at the same time as the Category.
- Organization. The Organization to which the device is assigned.
- ID. The Device ID. This is a unique number that SL1 automatically assigns to the device during discovery.

- **State**. The current condition of the device, based upon events generated by the device. The device can have one of the following States:
  - Critical. Device has a serious problem that requires immediate attention.
  - Major. Device has a problem that requires immediate attention.
  - Minor. Device has a less-serious problem.
  - Notice. Device has an informational event associated with it.
  - Healthy. Device is running with no problems.
- **Collection State**. The current condition of data collection for the device. The device can have one or more of the following Collection States:
  - Active. SL1 is collecting data from the device.
  - Unavailable. SL1 cannot connect to the device, and will not collect data from the device until the device becomes available.
  - User-Disabled. SL1 is not currently collecting data from the device because the user has disabled collection.
  - System-Disabled. SL1 is not currently collecting data from the device because the system has disabled collection.
  - Maintenance. SL1 is not currently collecting data from the device because it is currently in scheduled maintenance mode.
  - User-Initiated-Maintenance. SL1 is not currently collecting data from the device because it has manually been put into maintenance mode by a user.
  - Component Vanished. The component device has vanished, i.e. is not currently being reported by its root device. SL1 cannot collect data from the device at this time.

**NOTE:** Depending on the circumstances, more than one collection state might appear for a single device. For example, if a device is in a scheduled maintenance mode, the **Collection State** might be Unavailable / Maintenance / System-Disabled.

• *Hostname*. The fully qualified hostname for the device, for devices that are discovered and managed by hostname (instead of IP address).

**TIP**: To rearrange the columns in the List View, click and drag the column name to a new location. You can adjust the width of a column with by clicking and dragging the right edge of the column. You can click the **Select Columns** icon (\*) to add or remove columns, or to reset columns to their default settings.

TIP: To view the number of available devices, scroll down to the end of the list of devices and click the first checkbox next to the **Select Columns** icon (<sup>(\*)</sup>). The number of devices displays at the bottom of the screen. Click the first checkbox again to deselect all the devices, or click **Deselect All**.

## Viewing Additional Data about a Device

On the **Devices** page, you can click the **Expand** icon ( $\checkmark$ ) next to a device name to open a drop-down panel called the **Device Drawer**. The Device Drawer contains additional data about that device:

30		Tools	Q Type to	o search deviceLogs		=	۵
20				SEVERITY	MESSAGE		
ŝ			May 7, 2020	0, 2:18 PM 🔹 Notice	Discovered new	interface: Na	ame:
			May 7, 2020	0, 2:18 PM • Notice	Discovered new	interface: Na	ame:
10			May 7, 2020	0, 2:18 PM	Device record cr	eated (Class:	: Scie
Л	^^^^		May 7, 2020	0, 2:18 PM	Started detailed	discovery se	ssion
0			May 7, 2020	0, 2:52 PM	Completed filesy	stem invent	ory
10:00	0 11:00 12:00 13:00		May 7, 2020	0, 3:45 PM 🛛 😑 Minor	Network latency	exceeded th	nresh

The Device Drawer contains the **Vitals** graphs, the **Tools** pane, and the **Logs** pane.

- The **Vitals** pane displays graph data for the past four hours of CPU usage, memory usage, and latency for that device, where relevant. You can zoom in on a shorter time frame in the **Vitals** graph by clicking and dragging, and you can go back to the original time span by clicking the **[Reset zoom]** button.
- The **Tools** pane enables you to run a set of network diagnostic tools in the **Activity Center**. Click the search bar to search for a tool or action to run, or click one of the default tools or actions that are available based on the device type and your user permissions. For more information, see the section on *Using the Activity Center*.
- The Logs pane displays a list of events associated with that device.

**TIP**: From the list of devices, click the device name to go to the **Device Investigator** page for more details about that device. For more information, see the **Device Investigator** section.

## Aligning a Device with a Different Organization

To align a device with a different organization:

1. On the **Devices** page, click the **Actions** button (---) for the device and select *Align Organization*. The **Align to Organization** window appears.

**TIP**: To align more than one device to an organization, select the checkboxes to the left of those devices and click **Align Organization** in the blue bar at the bottom of the screen.

- 2. In the **Align to Organization** window, use the **Organization** drop-down to search for and select an organization.
- 3. Click the **[Align Organization]** button. The organization you selected now appears in that **Info** drop-down on the **Device Investigator** page for that device.

# Adding Devices with Discovery

On the **Devices** page, you can click the **[Add Devices]** button to run a guided or unguided **discovery** session, a process that searches for and adds more devices to SL1 for monitoring.

For more information about adding devices using guided or unguided discovery, see the **Discovery and Credentials** manual (PDF, HTML).

# Using the Device Investigator

You can view detailed data about a specific device by clicking the device name on the **Devices** page to open the **Device Investigator** page for that device:

≡	Devices						🔦 Activity	Banderton 🗸	
88	👥 cscol26	Info 🗸					Report	Tools	Edit
	Investigator Settings Attri	ibutes Collections	Configs Events	Interfaces	s Journals	Map Monito	rs Notes	Ports	<b>Q</b> More 🗸
cı e	10.100.100.26 - ScienceLogic, Inc. E	M7 Data Collectorin Syst	tem organization A	Events 4 of 4					EDIT
00 000	Major 🛕 Events 💿	1 1 2 0	✓ Collecting		search device even		ICKET ID	AST DETECTED	з 📩 зн
	Availability (%) Device Vitals		^	120314	Minor     Notice     Major	restorepoint minor Backup Message: cscol26 /: File system usage exce		1 day 14 hours 1 hour 34 minutes 1 hour 10 minutes	
	Unavailable				Notice	Backup Message: cscol26		1 hour 29 minutes	
	Available	11:30 12:00	12:30 13:00						
	Combined Charts			Latency (s) Device Vitals					· •

The tabs on the **Device Investigator** page provides access to all the data associated with a device. The tabs are similar to the tabs on the **Device Administration** and **Device Properties** panels in the classic user interface.

Only tabs relevant to the selected device are available on the **Device Investigator** page. For example, the **[Agent]** and **[Interfaces]** tabs do not display if the selected device does not use agents or interfaces. Also, widgets on the **[Investigator]** tab display as "Empty" where no metrics exist for that widget.

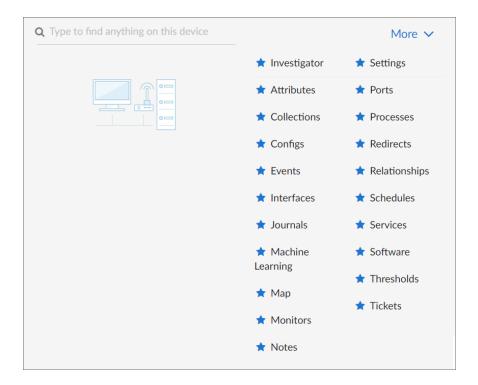
The **Device Investigator** page can include the following menus and buttons:

- Info. This drop-down list on the [Investigator] tab displays additional information about the device, along with the most recently updated values for uptime and collection time.
- *Time span filter*. This drop-down list on the [Investigator] tab allows you to adjust the time span that appears in all the metrics on the [Investigator] tab. The default filter is Last 24 Hours.
- Report. This button lets you generate a detailed report on the device.
- Tools. This button opens the Activity Center, where you can run a set of diagnostic tools or user-initiated actions.

The **Device Investigator** page contains the following tabs:

- Investigator. Displays metrics about a device. For most devices, the default metrics include Logs and the three Vitals: CPU Utilization (percentage), Physical Memory (percentage), and Latency (milliseconds). You can select additional metrics from the Add a metric drop-down list under the Device List pane on the left side of the screen. You can also compare devices on this tab.
- Settings. Lets you manage your preferences for that device, such as whether to auto-clear events, accept all logs, run daily port scans, and more. You can also set user maintenance preferences and disable or enable collection on that device.
- Attributes. Lists the custom descriptive fields that are currently aligned with this device. On this tab, you can add and remove extended custom attributes to this device.
- Collections. Lets you align or unalign Dynamic Applications with this device, enable or disable collection for the Dynamic Applications, and run a Dynamic Application. You can also change credentials and update the poll frequency for a Dynamic Application.
- **Configs**. Displays configuration information collected from the device by Dynamic Applications. If this device does not have any configuration data, this tab does not appear.
- *Events*. Displays a list of active and cleared events for the device. You can acknowledge events from this tab and add event notes.
- Interfaces. Displays information about the interfaces used by the device. If this device does not use interfaces, this tab does not appear.
- Journals. Displays journal entry information collected from the device by Dynamic Applications.
- Machine Learning. Displays a list of machine learning metrics that are enabled for the device.
- Map. Opens a map of that device and the devices it is related to (for systems that have the **Maps** page enabled).
- Monitors. This tab lets you define monitoring policies for the device.
- Notes. Displays notes and attachments associated with the device. You can also edit and create notes.
- Ports. Displays a list of all open ports on the device.
- Processes. Displays a list of system processes running on the device.
- *Redirects*. Allows you to redirect logs entries from an IP-based device to the current device. This is most useful when the current device is a virtual device.
- Relationships. Displays information about parent-child relationships between devices.

- Schedules. Allows you to view and manage all the scheduled processes you have defined in your system.
- Services. Displays a list of all Windows services enabled on the device.
- Software. Displays a list of all the software installed on the device.
- Thresholds. Lets you define space and performance thresholds for a device.
- Tickets. Displays all open, pending, or working tickets associated with the device.
- More. This drop-down lets you select additional tabs to display on the **Device Investigator** page by clicking the star icon next to the tab name. You can search for specific items on a tab, such as Device Class, Uptime, or Category, and the relevant tab will appear in the search results. You can also remove a tab by clicking the star icon again, turning it from blue to white. Your tab selections are saved and remain in place even after you log out:



**TIP**: Click the forward-slash button (/) to open the **More** drop-down. You can highlight search results using the Up and Down Arrow keys on your keyboard, and select a result by pressing **Enter**. To close the drop-down, click the word **More**.

## Using the Info Drop-Down on the Device Investigator Page

On the **Device Investigator** page, you can view read-only information about the device in the **Info** drop-down list:

≡	Devices					🔧 Activity	Banderton 🗸	
88	🔨 cscol26	Info 🗸				Report	Tools	Edit
▲	Investigator Settings Attr		Collecting Collecting	Journals	Map Monitors	Notes	Ports	<b>Q</b> More 🗸
C3		IP 10.100.100.26	Organization System					
¢	10.100.100.26 - ScienceLogic, Inc. E	Device Class ScienceLogic, Inc. EM7 Data Collector	Category System.EM7				•••	• • EDIT
000	🛑 Major 🛛 🛕 Events 🕻	Device Type physical	Collection Time Dec 10, 2020, 12:15 PM	cl device events			= 1	• 🖻
		Uptime 23 days 19 hours		art y	MESSAGE TICKET		AST DETECTED	
	Availability (%) Device Vitals	MORE A	TTRIBUTES	linor Iorice	restorepoint minor - Backup Message: cscol26		1 day 14 hours 1 hour 34 minutes	
		0-Restorepoint ID 9	1-Truview Device ID Test Value	1a or	/: File system usage exce 68		1 hour 10 minutes	
	Unavailable		121531	lo <mark>r</mark> ice	Backup Message: cscol26		1 hour 29 minutes	
	Available 10:30 11:00	11:30 12:00 12:30	13:00					
	Combined Charts		A Latency (s) Device Vitals				•••	• •

The Info drop-down displays the following information for the device:

- Status. The status of the device.
- Collecting. Indicates that the device collection is "Collecting" with a green check mark icon (\*), meaning SL1 is periodically collecting data from the device, or "Not Collecting" with a prohibition icon (<sup>2</sup>), meaning the SL1 is not currently collecting data from the device.
- *IP*. IP address of the device.
- **Organization**. The organization to which this device belongs. Click the organization name to view a detail page for the organization.
- Device Class. Device class for the device. A device class usually describes the manufacturer of the device.
- **Category**. The device category associated with the device. The device category usually describes the primary function of the device, such as a "server", "switch", or "router".
- Device Type. Specifies whether the device is a physical device or a virtual device.
- Collection Time. Date and time of the most recent collection.
- **Uptime**. The number of days and hours that the device has been continuously up and communicating with SL1.
- More Attributes. This lower section lists any custom attributes that might be aligned with this device.

## Running a Device Report

On the **Device Investigator** page, you can generate a detailed report on that device. You can specify the information to include in the report and the format that SL1 will use to generate the report, including HTML, PDF, XLS, and more.

- 1. On the **Device Investigator** page, click the **[Report]** button in the top navigation bar. The **Device Report** modal page appears.
- 2. From the **Select Type** drop-down, select the type of report you want to generate. You can select *Full Report* to get all of the metrics, or you can select a single metric for the device, such as *Status*, *Processes*, or *Health*.
- 3. In the **Select Format** drop-down, select the format for the report. Options include HTML, PDF, DOC, XLS, or CSV.
- 4. Click [Create Report] to generate the report.

## Using Device Tools in the Activity Center

On the **Device Investigator** page, you can click the **Tools** menu to display the **Activity Center**. The **Activity Center** enables you to run a set of network diagnostic tools.

**NOTE:** The tools and actions that are available in the **Activity Center** are based on the device type and your user permissions, as determined by your organization assignment and access hooks. For example, if a device does not have an IP address, only the Availability tool will be available.

To run device tools or user-initiated actions in the Activity Center:

1. On the **Device Investigator** page, click the **[Tools]** button in the top navigation bar, or click **[Activity]** in the navigation bar at the top of any page in SL1. The **Activity Center** appears:

Activity		^
RECENT DEVICES		
enny-nightly-dist-mc-10-2- 1-125	Support of the second s	
12r2-sp-01	<b>Ping</b> May 16, 2020, 2:33 PM	C Run Again
10.2.10.58	Process Started on Collector PING 10.2.4.125 (10.2.4.125) 56(84) bytes of data. 64 bytes from 10.2.4.125: icmp_seq=1 ttl=63 time=0.283 ms 64 bytes from 10.2.4.125: icmp_seq=2 ttl=63 time=0.274 ms 64 bytes from 10.2.4.125: icmp_seq=4 ttl=63 time=0.274 ms 64 bytes from 10.2.4.125: icmp_seq=5 ttl=63 time=0.269 ms 10.2.4.125 ping statistics 5 packets transmitted, 5 received, 0% packet loss, time 4000ms rtt min/avg/max/mdev = 0.254/0.296/0.404/0.058 ms Process Completed on Collector	
	Deep Port Scan May 16, 2020, 2:14 PM	C Run Again
	Process Started on Collector Starting Nmap 6.40 ( http://nmap.org ) at 2020-05-16 18:14 UTC	

- The left pane of the Activity Center displays a list of the 10 devices for which you have most recently used the Activity Center, with the current device at the top of the list. To use the Activity Center for any of the other recently used devices or to view historical logs for the tools or actions that have been run on those devices, click on the device name.
- 3. Click the search bar. A list appears of the default tools or actions that are available for the selected device. Click one of these tools or actions, or use the search bar to search for a tool or action that is not listed. The following default tools are available in the **Activity Center**:
  - Availability. Displays the results of an availability check of the device, using the port and protocol specified in the Availability Port and Availability Protocol fields on the [Settings] tab for this device.
  - **Ping**. Displays statistics returned by the ping tool. The ping tool sends a packet to the device's IP address (the one used by SL1 to communicate with the device) and waits for a reply. SL1 then displays the number of seconds it took to receive a reply from the device and the number of bytes returned from the device. If the device has an IPv6 address, SL1 uses the appropriate IPv6 ping command.
  - Whols. Displays information about the device's IP, including the organization that registered the IP and contacts within that organization.
  - Port Scan. Displays a list of all open ports on the device at the time of the scan.
  - **Deep Port Scan**. Displays a list of all open ports and as much detail about each open port as the deep port scanner can retrieve.
  - **ARP Lookup**. Displays a list of IP addresses for the device and the resolved Ethernet physical address (MAC address) for each IP address.

- **ARP Ping**. Displays the results from the ARP Ping tool. The ARP Ping tool is similar in function to ping, but it uses the ARP protocol instead of ICMP. The ARP Ping tool can be used only on the local network.
- **Trace Route**. Displays the network route between SL1 and the device. The tool provides details on each hop to the endpoint. If the device has an IPv6 address, SL1 uses the appropriate IPv6 traceroute command.

**TIP**: The tools found in the **Activity Center** can also be found in the Device Toolbox in the classic SL1 user interface.

- 4. As the selected tool or action runs, its progress and results appear in a log in the Activity Center.
- 5. After the tool or action has run, if you want to run it again, click the **[Run Again]** button. This button appears only for activities completed during your current session.

## Overview of the Device Investigator Tabs

The following section provides an overview of how to use the tabs on the **Device Investigator** page for a selected device.

#### The Investigator Tab

The **[Investigator]** tab of the **Device Investigator** page displays a customizable set of metrics about the selected device. Each metric displays in a panel in the right-hand pane:

≡	Devices	
88	🗊 cscol26 Info 🗸	Report   Tools Edit
▲	Investigator Settings Attributes Collections Configs Events	Interfaces Journals Map Monitors Notes Ports Q More V
G)		
÷	10.100.100.26 - ScienceLogic, Inc. EM7 Data Collectorin System organization A	Events A EDIT
00 000	Major 🛕 Events 🔕 😗 1 2 0 🗸 Collecting	Q. Type to search device events
		🍄 ID 🔺 SEVERITY MESSAGE TICKET ID LAST DETECTED
	Availability (%) ···· · ·	119977         Minor         restorepoint minor         ·         1 day 14 hours           120314         Notice         Backup Message: cscol26         1 hour 34 minutes
		120507 • Major /: File system usage exce 68 1 hour 10 minutes
	Unavailable	121531 • Notice Backup Message: cscol26 1 hour 29 minutes
	Available	
	Combined Charts ··· ^	Latency (s) ^
•••		

The list of metrics that appears in the left-hand pane depends on the type of device. For most devices, the following metrics appear by default:

- Events. Displays a panel with the list of events aligned with this device. In the right-hand pane, you can click the ID or Message field to view the Event Investigator page for that event. You can also click the Events panel heading to go to the [Events] tab for that device.
- Logs. Displays a panel with a list of the logs for the device, sorted from newest to oldest by default. You can use the **Search** field to search device logs for specific event messages, event IDs, date ranges, source types, and other relevant text for troubleshooting. You can also click on the column headers for **Date/Time**, **Source**, **Event ID**, **Severity**, and **Message** to sort by that column.
- Map. Displays a panel with a map of the device and all of the devices with which the device has relationships. You can also click the Map panel heading to go to the [Map] tab for that device.
- Latency. Displays a panel for latency for the device over time, in milliseconds. Latency means the amount of time it takes SL1 to communicate with the device.
- **CPU Utilization**. Displays a panel for the total amount of CPU used over time, as a percentage of all available CPU.
- Physical Memory Utilization. Displays a panel for the physical memory usage over time, in percent.

TIP: In the right-hand pane, you can click Expand at the bottom of a panel to make that panel bigger.

#### Adding and Removing Metrics on the Investigator Tab

Optionally, you can add metrics to the **[Investigator]** tab for Dynamic Applications, interfaces, and the SL1 agent (if applicable), among other things. You can also remove metrics from the **[Investigator]** tab.

To add and remove metrics on the [Investigator] tab:

1. To add a metric that is not currently in the left-hand pane, click the **Add a metric** field. A list of metrics appears:

Q Add a metric	~
Avg Transaction Count	ĥ
CPU %	
Disk Busy Max	
Disk %	
File Read Bytes	
Files Accessed	U

- 2. Select a metric from the list, or type the name of a metric and select it from the list. The metric is added to the left-hand pane, and a corresponding widget appears in the right-hand pane.
- 3. Some metrics might require you to make additional selections, such as the network interfaces associated with a device. Click the field and add one or more additional metrics, as needed.

NOTE: You can select up to eight additional metrics per widget.

- 4. To remove the widget for a metric from the right-hand pane, click the check mark icon (
- 5. To completely remove the metric and the widget from the **[Investigator]** tab, click the **[Clear]** button (X) for that metric in the left-hand pane.

**NOTE:** The **[Investigator]** tab retains any changes you made to the set of device metrics displayed for each device, on a per-user basis. To reset these changes to their default settings, click the **[Reset]** button at the bottom of the right panel. Optionally, you can apply these changes to other Device Categories, Device Classes, or devices. For more information, see the section on *Applying a Custom Device Investigator Layout to Other Devices*.

#### Editing the Metric Panel Order on the Investigator Tab

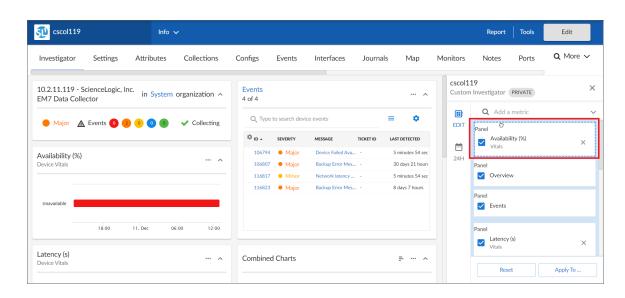
On the **[Investigator]** tab of the **Device Investigator** page, the order in which the metric panels appear in the left-hand pane mirrors the order in which the corresponding metric widgets appear in the right-hand pane. You can drag and drop the panels up or down in the left-hand pane to edit the order in which the metric panels appear on the right-hand pane. This enables you to prioritize the information that appears on the page.

To edit the order in which widgets appear on the [Investigator] tab:

1. On the **[Investigator]** tab of the **Device Investigator** page, in the left-hand pane, hover your mouse over the "Panel" heading until you see an open hand icon appear:

	Info N	<b>~</b>							Rep	ort Tools	Edit
Investigator Settings	Attributes	Collections	Configs	Events	Interfaces	Journa	ls Map	Monito	ors Note	s Ports	<b>Q</b> More 🗸
.0.2.11.119 - ScienceLogic, In M7 Data Collector	ic. in System	organization 🔨	Events 4 of 4				^		efault Investig EFAULT	ator	;
			Q. Type	to search devi	ce events		= •			dd a metric	
Major 🛕 Events 🧿 2	000	<ul> <li>Collecting</li> </ul>	¢ 10 •	SEVERITY	MESSAGE	TICKET ID	LAST DETECTED	EC	Panel	erview	
			106794	Maior	Device Failed Ava		2 minutes 46 sec	Ċ	÷ –		
Availability (%) Device Vitals		^	106807	Major	Backup Error Mes		30 days 21 hours	24	4H Panel	oto	
			116817	Minor	Network latency.		2 minutes 46 sec			nts	
			116823	Major	Backup Error Mes		8 days 7 hours		Panel	-	
Unavailable									Vita	i <b>lability (%)</b> Is	×
									Panel		
18:00	11. Dec 06	5:00 12:00								ency (s) Is	×
atency (s)									Panel		
Device Vitals		^	Combined	d Charts			= … ^			Reset	Apply To

2. Click and hold down the left button on your mouse to grab the panel, and then use your mouse to drag the panel to a different location in the left-hand pane. When you do so, the open hand icon becomes a closed hand icon, and a blue dotted box appears around the panel.



3. Release the left mouse button to drop the panel in your desired location. The new left-hand panel order will be reflected in the right-hand widget pane.

한 cscol119		Info 🗸								Report	Tools	Edit
Investigator	Settings Attrib	utes Co	llections	Configs	Events	Interfaces	Journals	Map	Monitors	Notes	Ports	<b>Q</b> More V
Availability (%) Device Vitals			^		19 - Scienc Collector	eLogic, Inc. in	System org	anization 🔨	Custo	119 m Investigator	PRIVATE	×
				Maio	r 🛦 Even	ts 🧿 2 💿 (	00 ~	Collecting	EDIT	<b>Q</b> Add a	metric	~
Unavailable				Events					Ē	Panel Availabili Vitals	ty (%)	×
	18:00 11. Dec	06:00	12:00	4 of 4				~~ ^	24H	Panel	v	
Latency (s)			^	Q Type	to search devi	e events	=	•		Panel		
				© 1D •	SEVERITY	MESSAGE		LAST DETECTED		Events Panel		
<u>د</u> م				106794	<ul><li>Major</li><li>Major</li></ul>	Device Failed Ava. Backup Error Mes.		9 minutes 54 sec 30 days 21 hours		Latency	s)	×
	18:00 11. Dec	06:00	12:00	116817	Minor	Network latency .		9 minutes 54 sec		Vitals Panel		
cscol119	11.000	00.00	12.00	116823	<ul> <li>Major</li> </ul>	Backup Error Mes.		8 days 7 hours		ranei		
										Rese	t	Apply To

**NOTE:** The **[Investigator]** tab retains any changes you made to the set of device metrics displayed for each device, on a per-user basis. To reset these changes to their default settings, click the **[Reset]** button at the bottom of the right panel. Optionally, you can apply these changes to other Device Categories, Device Classes, or devices. For more information, see the section on *Applying a Custom Device Investigator Layout to Other Devices*.

#### Combining Charts on the Investigator Tab

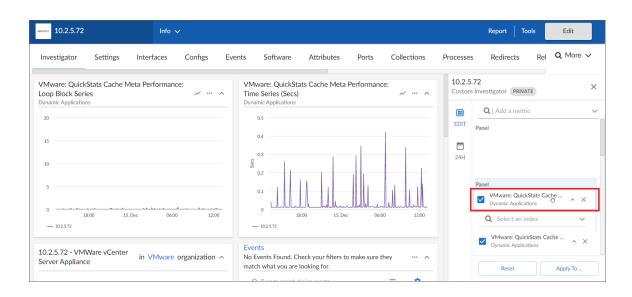
On the **[Investigator]** tab of the **Device Investigator** page, you can combine charts for different time-series metrics to see all of the combined data for those metrics in a single chart.

To combine charts:

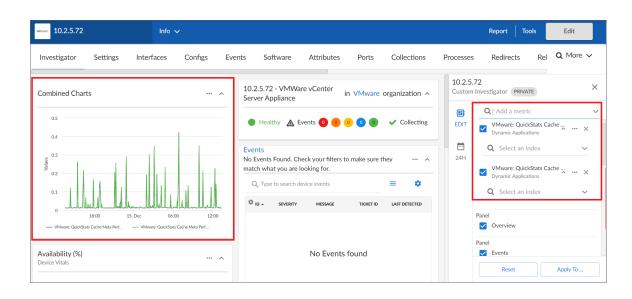
1. On the **[Investigator]** tab of the **Device Investigator** page, in the left-hand pane, hover your mouse over a time-series metric name until you see an open hand icon appear.

vmarc 10.2.5.72 Info ∨		Report Tools Edit
Investigator Settings Interfaces Configs Ev	ents Software Attributes Ports Collections	Processes Redirects Rel Q More V
VMware: QuickStats Cache Meta Performance: Loop Block Series ~ · · · · ^ Dynamic Applications	VMware: QuickStats Cache Meta Performance: Time Series (Secs) ~ · · · ^ Dynamic Applications	10.2.5.72     X       Custom Investigator     PRIVATE       Image: Q   Add a metric     V
15	0.4	EDIT Panel VMware: QuickStats Cache  Dynamic Applications  A X 24H VMware: QuickStats Cache Mets Performance: Loop Block
10 5 0		Panel VMware: QuickStats Cache  Dynamic Applications
18:00 15. Dec 06:00 12:00 	18:00 15.Dec 06:00 12:00 	Q Select an index ~
10.2.5.72 - VMWare vCenter in VMware organization A	Events No Events Found. Check your filters to make sure they A match what you are looking for.	Overview           Reset         Apply To

2. Click and hold down the left button on your mouse to grab the metric, and then use your mouse to drag the metric into the panel of a different time-series metric in the left-hand pane. When you do so, the open hand icon becomes a closed hand icon, and the panel containing the combined metrics turns blue.



3. Release the left mouse button to drop the metric into the desired panel. The newly combined metric panel will be reflected in a "Combined Charts" widget in the right-hand pane.



**NOTE:** The **[Investigator]** tab retains any changes you made to the set of device metrics displayed for each device, on a per-user basis. To reset these changes to their default settings, click the **[Reset]** button at the bottom of the right panel. Optionally, you can apply these changes to other Device Categories, Device Classes, or devices. For more information, see the section on *Applying a Custom Device Investigator Layout to Other Devices*.

## The Settings Tab

On the **[Settings]** tab of the **Device Investigator** page, you can manage your preferences for that device, such as whether to auto-clear events, accept all logs, run daily port scans, and more.

Click the [Edit] button to change your settings. When you are done making changes, click [Save].

panderp-dist-ap-discv	Info ✓ Report Tools ✓ Cancel Save
vestigator Settings	Attributes Collections Configs Events Interfaces Journals Map Monitors Notes Ports Processes Q Mo
OLLECTION	USER MAINTENANCE
nable Collection	Poll and collect data from this device Poll and collect data from this device Manually suppress creation of new events below your Minimum Maintenance Manually suppress creation of new events below your Minimum Maintenance
allection Poller CUG	Choose which Collector Group will perform discovery and gather data from the device When User Maintenance is enabled, continue to poll and collect data from this device
ollection Type tandard	Perform discovery using "Standard" (IP address using standard DNS) or DHCP" (perform DNS) lookup to get the latest IP address for the device each time ALERTS AND EVENTS
	Event Mask Group together events on this device within the selected time inte Every 10 Minutes  Y rolled up under the highest severity event
INTORING	The community string for read-only access to SNIMP Information on the device Generate two separate alerts when both Availability and Latency checks fail, or suppress Latency alert and only generate Availability when they both fail
IMP Write	The community string for read-and-write access to SNMP information on the device On the device On the device
vailability Protocol DP	The protocol to monitor that determines if the device is available     Disabled     Ping the device and create an event if the device does not respond
vailability Port 61 - SNMP	The port to monitor that determines if the device is available     OTHER PROFERENCES
atency Protocol	Accept All Logs Save all logs for this device, or save only logs associated with event
CMP	The protocol to monitor that determines latency for the device Daily Port Scans Scan the device for open ports every day
itency Port	The port to monitor that determines latency for the device Preserve Device Name Force the name of the device to remain the same, even if the hostn on the actual device is changed
CMP	Ine port to monitor that determines latency for the device           Disable Asset Update         Do not create or update an asset record for the device
uto-Update	Rediscover this device nightly and update with any changes found on the device       Bypass Interface Inventory     Discover network interfaces during re-discovery and during nightly auto-discovery
can All IPs	Scan for open ports on all IPs during initial discovery and nightly discovery if the device uses multiple IP addresses           Dynamic Discovery         V         Automatically assign the appropriate dynamic applications to the ordering discovery

NOTE: The Agent section appears only for agent-type devices.

Set the following Agent data collection preferences:

- **Disk Space**. Specify the amount of disk space in MB that the agent can use to store data. If the agent loses connectivity to SL1, this disk space will be used to store collected data until the connection to SL1 is restored. When connectivity is re-established, the agent uploads all of its stored data.
- **Excludes**. Type a list of processes and directories, separated by semi-colons, that you do not want the agent to monitor.
- **Includes**. Type a list of processes and directories, separated by semi-colons, that you want the agent to monitor. This field ensures that specific processes are monitored.

**NOTE:** If a process or directory is included in both the **Excludes** field and the **Includes** field, the item in the **Includes** field will override the item in the **Excludes** field.

- **Collect File Information**. Select this option if you want the agent to report the names of files accessed by each monitored process.
- **Collect Named Pipe Information**. Select this option if you want the agent to collect named pipe information.
- Collect Socket Information. Select this option if you want the agent to collect socket information.
- Collect Thread Information. Select this option if you want the agent to collect thread information.
- **Collect Non-Intercepted Processes**. Select this option if you want the agent to collect limited information for processes that do not contain the agent library.
- In the **Processes Aggregation** drop-down, specify how you want the agent to collect limited information for processes that do not have the agent library in them, and how to aggregate short-lived processes. Your options include the following:
  - All: Aggregate every short-lived process into its parent.
  - None: Do not aggregate any short-lived process.
  - Without Sockets: Aggregate short-lived processes unless those processes have sockets.

Set the following **Collection** preferences:

- **Enable Collection**. Select this option to enable collection using the collector group specified in the following field.
- Collection Poller. Select the name of collector group you want to use for collection on this device.
- **Collection Type**. Select the type of collection you want to use on this device. Your options include Standard or DHCP.

Set the following **Monitoring** preferences:

- SNMP Read. Select the community string for read-only access to SNMP information on the device.
- SNMP Write. Select the community string for read-and-write access to SNMP information on the device.
- Availability Protocol. Select the protocol to monitor that determines if the device is available.
- Availability Port. Select the port to monitor that determines if the device is available.
- Latency Protocol. Select the protocol to monitor that determines latency for the device.
- Latency Port. Select the port to monitor that determines latency for the device.
- Auto-Update. This checkbox specifies whether or not you want SL1 to perform a nightly discovery of the device and update records with changes to the device. If this field is unchecked, SL1 will not perform nightly discovery. Changes to the device, including newly opened ports, will not be recorded by SL1.
- Scan All IPs. If the device uses multiple IP Addresses, SL1 will scan for open ports on all IPs during initial discovery and nightly discovery.

Set the following **User Maintenance** preferences:

- Enable User Maintenance. Specifies whether the device is in user maintenance mode. User maintenance is an option that allows a user to manually put a device in to "maintenance mode". During maintenance mode, for the selected devices, SL1 generate only events with a severity less than the system-wide Maintenance Minimum Severity setting. If you select *Enabled*, the device is put in user maintenance mode, and the device will remain in this state until you or another user disables user maintenance mode.
- Enable Collection During Maintenance . Specifies whether SL1 will poll the device when user maintenance mode is enabled. If you select *Enabled*, SL1 will continue to poll and collect data from this device during user maintenance mode.

#### Set the following **Alerts and Events** preferences:

- **Event Mask**. Specify the time frame for masking events. When a device uses the Event Mask setting, SL1 groups together events that occur on that device within the specified span of time.
- Always Create Latency Alert. Select this option to generate two alerts when availability and latency checks fail. Deselect to generate only an availability alert and suppress latency alerts.
- Allow Events to Auto-Clear. Deselect this option to override an event policy's auto-clear setting for this device.
- **Critical Ping**. Pings the device and creates an event if the device does not respond. When enabled you can select between 5 and 120 seconds.

Set the following **Other** device preferences:

- Accept All Logs. This checkbox specifies whether or not you want to keep and save all logs for this device. If you want to retain only logs associated with events, uncheck this field.
- **Daily Port Scans**. This checkbox specifies whether or not you want SL1 to perform a daily scan of the device for open ports.
- **Preserve Device Name**. If selected, the name of the device in SL1 will remain the same, even if the name of the actual device is changed. If unselected, the SL1 name for the device will be updated if the name of the actual device is changed.
- **Disable Asset Update**. If selected, SL1 will not automatically create a new asset record for the device or update the existing asset record for the device. For the single device, this checkbox over-rides any settings defined in the **Asset Automation** page (System > Settings > Assets).
- **Bypass Interface Inventory**. Specifies whether or not the discovery session should discover network interfaces. Your options include:
  - Selected. SL1 will not attempt to discover interfaces for this device during re-discovery and nightly auto-discovery.
  - Not Selected. SL1 will attempt to discover network interfaces for this device during re-discovery and nightly auto-discovery using the Interface Inventory Timeout value and Maximum Allowed Interfaces value specified in the Device Thresholds page.
- **Dynamic Discovery**. If selected, SL1 will automatically assign the appropriate dynamic applications to the device during discovery.

## The Attributes Tab

On the **[Attributes]** tab of the **Device Investigator**, you can view a list of list of custom attributes that are already aligned with that device, and you can also add and remove extended custom attributes for the device:

Ũ	) jj-aio-33-:	209	Info	~						Report	Tools 🗸	Edit
ors	Notes	Ports	Processes	Redirects	Relationships	Schedules	Services	Software	Thresholds	Tickets	Attributes	<b>Q</b> More 🗸
	Q. Type to sea	arch device att	ributes								≡ \$	Align Attribute
\$	<sup>®</sup> DISPLAY NAME			VALUE TYPE		VA	LUE		ATTRIE	UTE TYPE		
	Year			String		2	020		Exte	nded		•••
	Serial Number			String		2	211001		Exte	nded		

#### Adding Custom Attributes for a Device

You can view detailed data about a specific device by clicking the device name on the **Devices** page (<sup>[]]</sup>) to open the **Device Investigator** page for that device.

On the **[Attributes]** tab of the **Device Investigator**, you can view a list of list of custom attributes that are already aligned with that device, and you can also add and remove extended custom attributes for the device:

Q Type to	arch device attributes				Thresholds	Tickets	/ (сст	outes	Q More N
							≡	۵	
C DISPLAY NAME		VALUE TYPE	VALU	JE	ATTRIB	<b>JTE TYPE</b>			
Year		String	202	20	Exten	ded			
Serial Number		String	221	1004	Exter				

NOTE: Before you can add a custom attribute to a device, you might need to create that custom attribute on the Custom Attribute Manager page (Manage > Custom Attributes) or on the classic Custom Attribute Manager page (System > Manage > Custom Attributes).

To add and edit custom attributes for a device on the [Attributes] tab:

- 1. On the [Attributes] tab for the device, click [Edit] and then click [Align Attribute]. The Align Extended Attribute window appears.
- 2. Complete the following fields:
  - Attributes. Select the name of the custom attribute.
  - Attribute value. Specify a text or numeric value for the attribute, based on its value type.
- 3. Click [Align Attribute]. The custom attribute is added to the list on the [Attributes] tab.
- 4. To edit an attribute in the list, click the [Actions] button (--) for that attribute and select Edit Attribute.
- 5. To unalign an attribute, click the [Actions] button (--) for that attribute and select Unalign Attribute.
- 6. When you are done adding, editing, or unaligning attributes, click [Save].

**NOTE**: Upon saving, your attribute changes will be reflected in the **More Attributes** section of the **Info drop-down**.

#### The Collections Tab

On the **[Collections]** tab of the **Device Investigator**, you can view a list of the Dynamic Applications associated with the device:

=	Devices					🔧 Acti	vity Em7admin 🗸	
88	lenny-nightly-dist-mc-10	. Info 🗸				Report	Tools	Edit
▲	Investigator Settings	Interfaces Configs	Events Collections	5 Monitors	Thresholds Pr	rocesses Software	Ports M	<b>Q</b> More V
) e	Q. Type to search aligned dynamic a	applications			≡ \$		Net-SNMP: Swap	SNMP Performance
000 000	NAME      EM7: Asset Information	TYPE SNMP Configuration	CREDENTIAL SNMP Credential	POLL FREQUENCY 24 hours	RUN DYNAMIC APP		☐ Collection Obje ✓ Free Swap Size ✓ Total Swap Size	
	EM7: Event Statistics     Host Resource: Configuration	SNMP Performance SNMP Configuration	SNMP Credential	5 minutes 15 minutes	Run Now     Run Now		<ul> <li>? Discovery Object</li> <li>Presentation O</li> <li>Swap Utilization</li> </ul>	^
	Host Resource: Storage     Net-SNMP: CPU	Snippet Performance SNMP Performance	SNMP Credential	5 minutes 5 minutes	Run Now     Run Now		Found Collecting Precedence Version Group	true 50 1.3 Vitals
	Net-SNMP: Physical Memory     Net-SNMP: Swap	SNMP Performance SNMP Performance	SNMP Credential	5 minutes 5 minutes	Run Now     Run Now		Label ✓ Free Swap Size ✓ Total Swap Size	Swap V
	Support: File System	Snippet Configuration	SNMP Credential	2 hours	Run Now			

# The Configs Tab

On the **[Configs]** tab of the **Device Investigator**, you can view configuration information that has been collected from the device by Dynamic Applications:

7609S-NPE3.cisco.com	Info 🗸									re Device Too	ols 🗸
Investigator Interfaces	Configs E	Events	Collections							<b>Q</b> M	lore 🗸
DYNAMIC APPS		$\bigotimes$	Cisco: VLAN Cor	nfiguration - VLA	N Information						
Q Search											
			VLAN MTU	VLAN NA	ME	VLAN TYPE	VLA	N STATE	VLAN ID		
			1500	default		ethernet	ope	rational	1		^
Cisco: Environmental Status			1500	VLAN0:	110	ethernet	ope	rational	110		
			1500	VLAN0:		ethernet	ope	rational	120		
Cisco: VLAN Configuration			1500	VLAN0:		ethernet		rational	130		-11
			1500	fddi-def	ault ng-default	fddi tokenRing		rational	1002		
CollectionGroup[0]				CONCILIA	ng-deladir	tokenking	ope		1003		~
VLAN Information			Cisco: VLAN Cor	figuration - <b>VTP</b>	Statistics						
VTP Statistics			CONFIG DIGEST ERRORS	CONFIG REVNUMBER ER#	IN ADVERT REQUESTS	IN SUBSET ADVERTS	IN SUMMARY ADVERTS	OUT ADVERT REQUESTS	OUT SUBSET ADVERTS	OUT SUMMARY ADVERT	15
			166526	169849	104538	68935	35231	168572	166330	136132	^
Cisco: FRU Control Configuration											
BGP Peers											
OSPF Neighbors Configuration											~
Cisco IPSLA Configuration			Cisco: FRU Cont	rol Configuration	- Module Status						
Entity Configuration			MODEL NAME	NAME	ADMIN STATUS	OPERATION	ISTATUS STATE CHA	INGE REASON STAT	US TRANSITION TIME	SERIAL NUMBER	

All objects of type "config" are included on the **[Configs]** tab. Usually, "config" objects contain static information about hardware and configuration settings, such as serial numbers, version numbers, and hardware status.

For more information about this tab, see the chapter on "Viewing Configuration & Journal Data" in the *Monitoring Infrastructure Health* manual.

## The Events Tab

On the [Events] tab of the Device Investigator, you can view a list of events associated with the device:

		SF-AI	O-BRA	NDON-27	Info 🗸								Report	Tools 🗸		Edit	
4		estigato	or	Interfaces	Software	Collectio	ins A	Attributes	Monit	ors	Event	S	Journals	Services	S	Q More	~
		events	-	Q Type to sea	rch deviceEvents											=	•
4	>	ID 🕶	SEVERITY	<ul> <li>MESSAGE</li> </ul>			AGE	TICKET ID	COUN	LAST DE	TICKET E	EVENT S	EVENT NOTE	ACKNOWLEDGE	c	LEAR	
		36749	e Mino	or Network late	ncy exceeded thresho	ld: No Respon	23 hours 50	) mir	287	12 secor	-	Internal	+	<ul> <li>Acknowled</li> </ul>		X Clear	
		36748	🔴 Majo	Device Failed	Availability Check: Ul	DP - SNMP	23 hours 50	) mir	287	12 secor	-	Internal	÷	View Event			
														Edit Event N	lote		
														Create Exte	rnal Tic	:ket	
														View Event	Policy		
														Suppress Ev	ent for	this Device	2
																	-
																	w

For each event, the **[Events]** tab displays the following information:

- *ID*. The unique ID for the event, generated by SL1. The ID appears as a hyperlink. To view the **Event Investigator** page for the event, click the *ID* hyperlink. For more information about the **Event Investigator** page, see the **Events** manual.
- Severity. The severity of the event. Possible values are:
  - Critical
  - Major
  - Minor
  - Notice
  - Healthy
- Message. The message generated for the event. The message appears as a hyperlink. To view the Event Investigator page for the event, click the Message hyperlink. For more information about the Event Investigator page, see the Events manual.
- Age. The amount of time (in days, hours, and minutes) since the event first occurred or since its last occurrence without having been cleared.
- Ticket ID. If a ticket has been created for the event, this column displays the ticket ID of that ticket.
- **Count**. The number of times this event has occurred, the number of child events associated with the event, or the number of masked events associated with the event.
- Last Detected. The date and time at which the event last occurred on the device.

• **Ticket External Reference**. The numeric ID associated with a ticket from an external ticketing system (that is, a ticket that was not created in SL1). If this field displays a value, you can click on that value to spawn a new window and view the external ticket.

**NOTE**: To link an external ticket to an event, you must create a custom Run Book Automation policy and a custom Run Book Action or use the ScienceLogic APIs. For help with these tasks, contact ScienceLogic Customer Care.

- Event Source. The system or application that generated this event. Possible values are:
  - Syslog. Event was generated from a system log generated by a device.
  - *Email*. Event was generated by an email from an external agent. For example, Microsoft Operations Manager (MOM).
  - Internal. Event was generated by SL1.
  - Trap. Event was generated by an SNMP trap.
  - Dynamic. Event was generated by a Dynamic Application collecting data from the device.
  - API. Event was generated by a snippet Run Book Action, a snippet Dynamic Application, a request to the ScienceLogic API, or by an external system.
  - SL1 agent. Message is generated by log file messages collected by the SL1 agent. For more
    information about creating Log File Monitoring Policies to monitor log file messages collected by the
    agent, see the Monitoring Device Infrastructure Health manual.
- Event Note. A user-defined note to accompany the event. To create or edit a note, click the Note icon (F)). The Edit Event Note window appears, where you can create or edit a note and save your changes.
- Acknowledge. If the event has been acknowledged, this column displays a check mark and the username of the user who acknowledged the event. If the event has not yet been acknowledged, this column displays an [Acknowledge] button; click the [Acknowledge] button to acknowledge the event. When you acknowledge an event, you let other users know that you are aware of that event and are working on a response.
- **Clear**. Click the **[Clear]** button to clear the event. When you **clear** an event, you let other users know that this event has been addressed. Clearing an event removes a single instance of the event from the **[Events]** tab. If the same event occurs again on the same device, it will reappear in the **[Events]** tab, even if you have previously cleared that event.

**TIP**: To rearrange the columns in the List View, click and drag the column name to a new location. You can adjust the width of a column with by clicking and dragging the right edge of the column. You can click the **Select Columns** icon (\*) to add or remove columns, or to reset columns to their default settings.

You can toggle between Active events and Cleared events by using the drop-down to the left of the **Search** field. On this tab, you can also acknowledge and clear an event if you have permission for those actions.

Clicking the Actions menu ( ... ) next to an event gives you the following options, based on your permissions:

- View Event. Navigates to the Event Investigator page for that event.
- Edit Event Note. Lets you update the Note associated with this event.
- Edit Ticket. Opens the Ticket Editor in SL1 if you are using SL1 for your ticketing.
- Create External Ticket. Creates a new ticket for the event if you are using an external ticketing system instead of SL1.
- View Event Policy. Opens the Event Policy page for the policy aligned with this event.
- Suppress Event for this Device. Suppresses the current event on the current device. When you suppress an event, you are specifying that in the future, if this event occurs again on the same device, the event will not appear in
- View Automation Actions. Displays a log of automations that have occurred for that event. This option is hidden if the event does not have any automation actions aligned to it.

#### The Interfaces Tab

On the **[Interfaces]** tab of the **Device Investigator**, you can view information about the various interfaces used by the device, including Port, Hardware Description, MAC Address, Connection Speed, and other details for each interface:

	AsimovSa	ndboxC	CDB	Info 🗸									Report	│ Tools 〜		Edit
igator	Setti	ngs	Interfaces	Configs	Events	s Colle	ections	Monitors	Thresh	nolds F	Processes	Software	e Ports	s Map		<b>Q</b> More V
0	<b>)</b> Type to sea	arch devic	e interfaces												=	= ¢
© NA	AME A	ALIAS	HARDWARE	PORT	MAC ADDRES	CONNECTIO	COLLECTION	ADMIN STAT	OPERATION	COLLECTION	COLLECT ERR	COLLECT DIS	ALERTS	ROLLOVER A	INDEX	
en	- 1532		ens32	2	00:50:56:85:	100000000	Enabled	Up	Up	5	Disabled	Disabled	Enabled	Disabled	2	•••

For more information about this tab, see the chapter on "Monitoring Network Interfaces" in the **Monitoring** *Infrastructure Health* manual.

## The Journals Tab

On the **[Journals]** tab of the **Device Investigator**, you can view journal entry information that has been collected from the device by journal Dynamic Applications:

Windows 2	2016 Test	Info 🗸							Rep	ort   ·	Tools	Edit
ivestigator	Settings	Attributes	Collections	Configs	Events	Interfaces	Journal	s Map	Monitors	Notes	Ports	Q More
licrosoft: Windows Serve	ar Process Li	Journal View   Microsoft: Wir	ndows Server Process Lis	st [15 entries]			Actions	Reset Guide				
			N	ame		PID	State	Collected On -				
									~			
		1. powershell				4548	Open	2020-09-13 16:29:08				
		2. winrshost				4276	Open	2020-09-13 16:29:08				
		<ol><li>MpCmdRun</li></ol>				2348	Open	2020-09-13 16:29:08				
		4. winrshost				3760	Closed	2020-09-11 04:27:02				
		<ol> <li>conhost</li> <li>MpCmdRun</li> </ol>				4076	Closed	2020-09-11 04:27:02 2020-09-11 04:27:01				
		<ol> <li>MpGmdRun</li> <li>cmd</li> </ol>				4468	Closed	2020-09-11 04:27:01 2020-09-11 04:27:01				
		8. conhost				4152	Closed	2020-09-09 06:27:56				
		9. cmd				4116	Closed	2020-09-09 02:25:53				
		10. MpCmdRun				4880	Closed	2020-09-09 02:25:53				
		11. WmiPrvSE				5076	Closed	2020-09-09 02:25:53				
		12. powershell				3136	Closed	2020-09-09 02:25:53				
		13. winrshost 14. conhost				5068 4712	Open	2020-09-09 02:25:53				
		14. connost 15. winrshost				4712	Closed	2020-09-09 02:25:53 2020-09-09 02:25:52				
		15. WIIISHOSI				4750	Closed	2020-09-09 02.25.52				

For more information about this tab, see the chapter on "Viewing Configuration & Journal Data" in the *Monitoring Infrastructure Health* manual.

## The Machine Learning Tab

On the **[Machine Learning]** tab of the **Device Investigator**, you can view a list of machine learning metrics that are enabled for the device:

	Asimov	SandboxC[	DВ	Info 🗸						I	Report   Tools 🗸	Edit
re	Ports	Map	Tickets	Services	Notes	Redirects	Schedules	Relationships	Journals	Attributes	Machine Learning	<b>Q</b> More ∨
											Last 24 Hours 👻	Add ML Metric
¢	METRIC			DATE	UPDATED		LAST	UPDATED BY		ANOMALY DE	TECTION	
~	CPU			May	, 5, 2020, 3:07 PM	1	em	7admin		🔮 Enable	d	•••
~	Average Task	k Time - 0		May	/ 5, 2020, 3:15 PN	1	em	7admin		🔮 Enable	d	
~	% Storage U	sed - /var		May	5, 2020, 3:07 PM	1	em	7admin		📳 Enable	d	•••
~	Storage User	d - /		May	5, 2020, 2:57 PM	1	em	7admin		🏥 Enable	d	•••
~	Activity Log	- 0		May	5, 2020, 3:14 PM	1	em	7admin		📳 Enable	d	•••

## The Map Tab

On the **[Map]** tab in the **Device Investigator**, you can view a map of the selected device and all of the devices with which the device has relationships:

viniviaro 🔪	/Ms		Info 🗸							Report	Tools	Edit
ions	Processes	Redirects	Relationships	Schedules	Journals	Services	Map	Monitors	Thresholds	Tickets	Notes	<b>Q</b> More 🗸
												<u>୍</u>
							vonwere /Center Se					*
							DCM					
					DCM		wittwore Folder	~				
						DCM		DCM				
				verse		wwq.ueb Foldor		ventare Folder				
				_	_							

For more information, see the *Maps* manual (PDF, HTML).

## The Monitors Tab

On the [Monitors] tab of the Device Investigator, you can define monitoring policies for a device.

The Monitoring Policies page allows you to define policies that monitor:

- System processes. Monitors the device and look for the specified system process.
- **Domain-name availability and lookup speed**. Monitors the availability and lookup time for a specific domain-name server and a specific record on a domain name server.
- *Email round-trip speed*. Monitor the amount of time it takes to send an email message from SL1 to an external mail server and then back to SL1.
- **SOAP** and XML transaction speeds. Monitors any server-to-server transactions that use HTTP and can post files or forms. (for example, SOAP/XML, email, or RSS feeds). Periodically, SL1 sends a request and some data and then examines the result of the transaction and compares it to a specified expression match.
- **TCP/IP port availability**. Monitors ports for availability every 5 minutes. If a port is not available, SL1 creates an event. The data gathered by the port policy is used to create port-availability reports.
- Web-content availability. Monitors a website for specific content. SL1 will periodically check the website for specified content. If the content cannot be found on the website, SL1 will generate an event.
- Windows services. Monitors the device and look for the specified service.

**NOTE**: All these monitoring policies can generate events. SL1 uses the data collected by these policies to create performance reports and graphs.

## The Notes Tab

On the **[Notes]** tab of the **Device Investigator**, you can add and view notes and other attachments associated with the device:

<b>1</b>	cscol119		Info 🗸							Report	Tools	Edit
tions	Processes	Redirects	Relationships	Schedules	Journals	Services	Мар	Monitors	Thresholds	Tickets	Notes	<b>Q</b> More V
Notes & Atta										(	Actions	Reset Guide
Exam	ple Note	er [banderton]   Address [	10.128.39.78]					🖋 రో				
This is a	in example of a note.											

To add a note to a device:

- 1. Go to the [Notes] tab of the Device Investigator.
- 2. Click the [Actions] button and then select Notepad Editor. The Notepad Editor modal page appears.
- 3. In the Notepad Editor modal page , you can enter notes or comments about the device.
  - You can format the text and include links, images, and videos in the note.
  - You can also include a document template (System > Customize > Document Templates) in the field.
- 4. When you are finished adding content to the note, click **[Save]**. The note will appear in the **[Notes]** tab, along with any other notes about the device. Each note includes the username, date and time, and text of the comment. You can perform the following on each note entry:
  - To view a note's attachment, click the paperclip icon (
  - To edit the content of a note, click the wrench icon (*P*). The Notepad Editor modal page appears. You can update the note; format the text; insert content from a saved template; and add an attachment, image, or video to the note. Click the [Save ]button to save your changes.
  - To delete a note, click its bomb icon ().

#### The Ports Tab

On the [Ports] tab of the Device Investigator, you can view a list of all open ports on a device:

🐢 st184-db	01	Info 🗸							Report	Tools 🗸	Edit
Investigator	Settings	Attributes	Collections	Events	Interfaces	Journals	Map	Monitors	Notes	Ports	Q More ∨
<											>
Port Security   Port Seat	Interface IP		Port Number Service P 22 saft 7 28 sintp T 80 http T	CP	Certifica	te Issuer		Referab Cert Esparato 			

Every night, SL1 scans all the ports of each managed device. If any new ports are opened, SL1 adds the port to the list in the **Port Security** page.

#### The Processes Tab

On the **[Processes]** tab of the **Device Investigator**, you can view information about the processes running on the device.

A **process** is a program that is currently running on a monitored device or has been run in the past and is currently idle. Sometimes a process is called a task.

To keep your device running efficiently and to maintain security, the **[Processes]** tab helps you manage processes on your device. The **[Processes]** tab allows you to easily view details about each process running on the device.

## The Redirects Tab

On the **[Redirects]** tab of the **Device Investigator**, you can redirect log entries from one IP-based device to another IP-based device, or from an IP-based device to a virtual device.

WITHOUT VMS		Info 🗸							Report	Tools	Edit
ons Processes	Redirects	Relationships	Schedules	Journals	Services	Мар	Monitors	Thresholds	Tickets	Notes	Q More N
direct Policy Editor										Actions	Reset Guide
Expressi	e Device ( <u>Select Device</u> ) on Match ( <u>Enabled</u> )♥ State ( <u>Enabled</u> )♥)	2		) There are no redire-	Save Save	this device.					

The **[Redirects]** tab allows you to move log entries generated by inbound SNMP Trap, Syslog, or Email messages from one device to another. However, there are a few things to note:

- Log entries that are redirected to a virtual or IP-based device will no longer appear in the log files for the original IP-based device.
- Log entries that are redirected to a virtual or IP-based device are no longer associated with the IP address of the original device.
- Log entries with a **Source** of Internal, Dynamic, or API that match a redirect policy are not moved from the IP-based device to the current device.

To move SNMP Trap, Syslog, or Email log messages from an IP-based device to the current device, provide values in each of the following fields:

- Source Device. This is the IP-based device from which you want to redirect log messages. Data from this device will be moved to the virtual or second IP-based device. Select from a drop-down list of all IP-based devices discovered by SL1.
- Expression Match. A regular expression used to locate the log entry to redirect. Can be any combination of alphanumeric and multi-byte characters, up to 64 characters in length. SL1's expression matching is case-sensitive. For details on the regular-expression syntax allowed by SL1, see <a href="http://www.python.org/doc/howto/">http://www.python.org/doc/howto/</a>.
- Active State. Specifies whether or not SL1 will execute the redirection policy. The choices are:
  - Enabled. SL1 will execute the redirection policy.
  - Disabled. SL1 will not execute the redirection policy.

When you are finished, click **[Save]**. You can repeat this process to redirect data to the virtual or IP-based device from more than one device or from more than one type of log message.

## The Relationships Tab

On the **[Relationships]** tab of the **Device Investigator**, you can view information about parent-child relationships between the selected device and other devices.

vmwaro	VMs		Info 🗸							Report	Tools	Edit
tions	Processes	Redirects	Relationships	Schedules	Journals	Services	Мар	Monitors	Thresholds	Tickets	Notes	<b>Q</b> More V
Device Rela	tionships										Actions	Reset Guide
Compor	eent Mapping	Perent Device: 🔤 10.2.5.72		Component M	Child Dev Child Dev	ice TestFolder8						

## The Schedules Tab

On the **[Schedules]** tab of the **Device Investigator**, you can manage all the scheduled process you have defined in your system. You can define scheduled tasks for a number of things, such as backup management, dashboards, devices, and Run Book Automation policies.

hedule Manager   Schedules Found [1]  Create  Address Start Time  Create  Create Crea	ahah cisco	10.64.172.187		Info 🗸							Report	Tools	Edit
Schedule Sammary - Schedule Deschedion Event, D. sch_ld Context Timezone Start. Time Duration Recurrence. Interced End Date Last. Bun Danse: Organization Yabibity of	ions	Processes	Redirects	Relationships	Schedules	Journals	Services	Map	Monitors	Thresholds	Tickets	Notes	<b>Q</b> More V
Schedule Summary  Schedule Description Event ID sch. id Context Timezone Start Time Duration Recurrence Interval End Date Last Run Owner Organization Visibility d	chedule	e Manager   Sched	lules Found [1]										Create Reset
t PrExample Schedule 7 Devices UTC 2021-01-29 12:00:00 60 minut Every 2 Weeks banderton System Organiza Yes	5	Schedule Summary •	Schedule Description	Event ID sch_id	Context Tim	ezone St.	art Time Duratio	n Recurrence Interv	al End Date	Last Run	Owner	Organization	<u>Visibility</u>
	1. 🥜 E	xample Schedule		7	Devices UTC	2021-01-	29 12:00:00 60 min	ut Every 2 Weeks	-		banderton	System	Organiza Yes

## The Services Tab

On the **[Services]** tab of the **Device Investigator**, you can view a list of all Windows services enabled on the device:

GLOCK-	WIN-2012.	LAB Info	~						Report	Tools 🗸	Edit
ors Notes	Ports	Processes	Redirects	Relationships	Schedules	Services	Software	Thresholds	Tickets	Attributes	Q More 🗸
Windows Services   Ser	vices Found [91]				Service Name	▼ like		efresh iearch			
Actave Directory Cor 2. Actave Directory	main Services to Services teo Service nece per Service into Transfer Service into Transfer Service ecure Mobility Ag- n ces escure Mobility Ag- escure Mob	ee					Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running Running	No No No No No No No No No No No No No N			

## The Software Tab

On the [Software] tab of the Device Investigator, you can view a list of all the software installed on the device:

cscol119		Info ·	~							Report To	ols	Edit
nvestigator	Settings	Interfaces	Configs	Events	Software	Attributes	Ports	Collections	Processes	Redirects	Rel	<b>Q</b> More
Q Type to search	device softwa	res									=	٥
						INSTALL DATE						
acl-2.2.51-14.el7						Dec 18, 2020	, 8:57 AM					
adwaita-cursor-theme	-3.28.0-1.el7					Dec 18, 2020	9:02 AM					
adwaita-icon-theme-3	.28.0-1.el7					Dec 18, 2020	9:02 AM					
alsa-lib-1.1.8-1.el7						Dec 18, 2020	8:58 AM					
at-spi2-atk-2.26.2-1.e	17					Dec 18, 2020	9:00 AM					
at-spi2-core-2.28.0-1	el7					Dec 18, 2020	, 9:00 AM					
atk-2.28.1-1.el7						Dec 18, 2020	8:57 AM					
attr-2.4.46-13.el7						Dec 18, 2020	8:58 AM					
audit-2.8.5-4.el7						Dec 18, 2020	9:03 AM					

## The Thresholds Tab

On the **[Thresholds]** tab of the **Device Investigator**, you can define usage and performance thresholds and data retention thresholds for a device:

	10.64.172.73		Info	~						Report	Tools	Edit	
1ap	Monitors	Notes	Ports	Processes	Redirects	Relationships	Schedules	Services	Software	Thresholds	Tickets	<b>Q</b> Mo	re 🗸
Device Thre	esholds										Actions	Reset	Guide
Dynami	c App Thresholds   Aut Raw Data Retent		Login		, 7 days Save	Default: 7]		Â					
	e Inventory Thresholds Interface Inventory Time aximum Allowed Interfac	ut <b>-</b>			600000 ms	Default: 600000 ms							
Operatin	ng System Thresholds				Save			- 1					
	System Later System Availabi			 	100 ms	[Default: 100 ms]							
Data Re	tention Thresholds				Save								
	Device Logs M Device Logs A	100		<u> </u>	10000 records	Default: 10000 reco	ords]						
	Bandwidth Di	-			90 days	[Default: 90 days]							
D	aily Rollup Bandwidth D				730 days	Default: 730 davs1		-					

When performance thresholds are exceeded, SL1 will generate an event for the device. When space thresholds are exceeded, SL1 will remove the oldest data from the database. For each of these thresholds, SL1 defines a default value. You can edit the thresholds to meet your needs.

## The Tickets Tab

On the **[Tickets]** tab of the **Device Investigator**, you can view all tickets associated with the device and create new tickets to associate with the device:

	10.64.172.73		Info	~						Report	Tools	Edit
ар	Monitors	Notes	Ports	Processes	Redirects	Relationships	Schedules	Services	Software	Thresholds	Tickets	<b>Q</b> More 🗸
-line liller	ory   Top Tickets				(						Actions	Reset Guide
	ets [Open / Pending / W	(orking)									Actions	Reset Guide
	Organization		D DEVICE: 10 C4 I	172.73   10.64.172.73   C	Inc. Sustante I CDS 1.15	Description / Severity				Ticket ID 2 Asset Manage	Queue	Status Open
	Ticket Age 14 s	omated 0-09-24 17:17:00 [b iecs 0-09-24 17:17:00 [b										
						1 Sev 3 / Mino	r					

The **[Tickets]** tab displays critical information about each ticket. If you require more detail, you can access the **Ticket Editor** from this page by clicking on the ticketing icon (<sup>12)</sup>).

You can also create a new ticket from this page.

To create a new ticket for a device:

- 1. Go to the **[Tickets]** tab of the **Device Investigator**.
- 2. Click the [Actions] button and then select Create a Ticket. The Ticket Editor page appears.
- 3. On the **Ticket Editor** page that appears, define the basic parameters for the ticket. For information about the fields on this page, see the chapter on "Creating and Editing Tickets" in the **Ticketing** manual.

NOTE: The Description and Element fields are automatically populated with information about the device.

4. When you are finished, click **[Save]**.

# Assigning Icons to Devices

You can customize the look and feel of the devices that appear on the **Devices** page by assigning an icon a device, device class, or device category.

To assign an icon to a device, device class, or device category:

- 1. On the **Devices** page, **Device Classes** page (Devices > Device Classes), or **Device Categories** page (Devices > Device Categories), locate the device, class, or category for which you want to add an icon.
- 2. Click the Actions button (--) for that item and select Assign Icon. The Select an Icon window appears:

Select an Icon (6	<b>)</b> )				
C Type to search icons				× Advanced	Add Icon
Apache	Cloud	Aws EC2	EBS Volume	EBS	VPN_GATE

**TIP**: To assign an icon to more than one device, device class, or device category, select the checkboxes to the left of those items and click **Assign Icon** in the blue bar at the bottom of the screen.

3. To use an existing icon, select that icon from the list of icons and click the [Select Icon] button.

**TIP**: If an icon includes a tag, you can search for that icon by typing some or all of the tag text in the **Search** field.

- 4. To upload an icon from your local drive, make sure that the image file meets the following criteria:
  - The image file should be in .SVG format.
  - The file should not be larger than 40 KB.
  - The file should not be animated.
  - The file should not contain bitmaps.

5. To start the upload process, click the [Add Icon] button. The Add an Icon window appears:

ADD TAGS # New tag reuse tags
REUSE TAGS
Add Icon

- 6. In the *lcon name* field, type a name for the icon you want to upload.
- 7. In the **Add Tags** field, type a short descriptor for the icon, without spaces. You can use this tag for searching later.
- 8. You can click the **Browse or Drop** area to browse for and select the icon, or you can drag and drop the icon file onto the **Add an Icon** window.
- 9. Click the **[Add Icon]** button. The icon is added to the **Select an Icon** window.
- 10. Click the **[Select Icon]** button to add the icon to the selected item.

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

International: +1-703-354-1010