



ELK Stack Integrations

ELK Stack Synchronization PowerPack Version 1.0.0

ELK Stack Automation PowerPack Version 100

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Chapter

1

Introduction to the ELK Stack Automation PowerPack

Overview

This chapter describes the how to integrate *ELK Stack Synchronization PowerPack* with SL1 using the *ELK Stack Automation PowerPack*. This PowerPack also contains the Run Book Automation policies, event policies, and Run Book Action policies you can use with the *ELK Stack* in PowerFlow.

NOTE: This PowerPack is available with a ScienceLogic SL1 Standard solution. Contact your ScienceLogic Customer Success Manager or Customer Support to learn more.

This chapter covers the following topics:

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What is the ELK Stack Automation PowerPack?

The *ELK Stack Automation* PowerPack includes automation policies and event policies that bidirectionally sync jobs, pipeline jobs, and node status between ELK and SL1. This PowerPack also comes with one example credential.

The *ELK Stack Automation* PowerPack includes:

- ELK: IndexCreate Run Book Automation policy
- ELK: ExtLog Run Book Automation policy
- ELK: Search in ELK in SL1 Run Book Automation policy
- ELK: ExternalLog event policy
- ELK: Sync SL1 Log event policy
- ELK: Search event policy
- PowerFlow ELK SOAP/XML Credentials

Installing the ELK Stack Automation PowerPack

Before completing the steps in this manual, you must import and install the latest version of the *ELK Stack Automation* PowerPack.

IMPORTANT: You must install and configure the *ELK Stack Synchronization* PowerPack version 1.0.0 before using the *ELK Stack Automation* PowerPack.

NOTE: The *ELK Stack Automation* PowerPack requires SL1 version 11.1.0 or later. For details on upgrading SL1, see the appropriate SL1 [Release Notes](#).

TIP: By default, installing a new version of a PowerPack overwrites all content from a previous version of that PowerPack that has already been installed on the target system. You can use the **Enable Selective PowerPack Field Protection** setting in the **Behavior Settings** page (System > Settings > Behavior) to prevent new PowerPacks from overwriting local changes for some commonly customized fields. (For more information, see the **System Administration** manual.)

To download and install a PowerPack:

1. Download the PowerPack from the ScienceLogic Support Site at <https://support.sciencelogic.com/s/powerpacks>.
2. Go to the **PowerPack Manager** page (System > Manage > PowerPacks).

3. In the **PowerPack Manager** page, click the **[Actions]** button, then select *Import PowerPack*. The **Import PowerPack** dialog box appears.
4. Click the **[Browse]** button and navigate to the PowerPack file.
5. When the **PowerPack Installer** modal appears, click the **[Install]** button to install the PowerPack.

NOTE: If you exit the **PowerPack Installer** modal without installing the imported PowerPack, the imported PowerPack will not appear in the **PowerPack Manager** page. However, the imported PowerPack will appear in the **Imported PowerPacks** modal. This page appears when you click the **[Actions]** menu and select *Install PowerPack*.

Chapter

2

Configuring Action Policy Credentials

Overview

This chapter describes how to configure ELK for monitoring by SL1 using the *ELK Stack Automation* PowerPack.

This chapter covers the following topics:

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<i>Creating a SOAP/XML Credential to Access SL1 PowerFlow in the Classic User Interface</i>	8

Creating a SOAP/XML Credential to Access SL1 PowerFlow

After you have integrated your ELK and PowerFlow systems, you must create a SOAP/XML credential to enable the Dynamic Applications in the PowerPack to communicate with your PowerFlow system. The *ELK Stack Automation* PowerPack includes a template for a SOAP/XML credential that you can edit for use with your SL1 PowerFlow system.

NOTE: If you are on an SL1 system prior to version 11.1.0, you will not be able to duplicate the sample credential. It is recommended that you create your new credentials using [the SL1 classic user interface](#) so you do not overwrite the sample credential(s).

To create a SOAP/XML credential:

1. Go to the **Credentials** page (Manage > Credentials).
2. Locate the **ELK PowerFlow** sample credential, then click its **[Actions]** icon (☰) and select **Duplicate**. A copy of the credential, called **ELK PowerFlow copy** appears.

The screenshot shows the 'Edit Credential' form with the following fields and values:

- Name: ELK Powerflow cred
- All Organizations: All Organizations
- Select the organizations the credential belongs to*: [Dropdown menu]
- Timeout (ms): 5000
- Content Encoding: text/xml
- Method: POST
- HTTP Version: http/1.1
- URL: https://10.2.11.115
- HTTP Auth User: isadmin
- HTTP Auth Password: [Redacted]
- Proxy Hostname/IP: optional
- Proxy Port: 0
- Proxy User: optional
- Proxy Password: [Redacted]
- Embedded Password [%P]: [Redacted]
- Embed Value [%1]: [Redacted]
- Embed Value [%2]: [Redacted]
- Embed Value [%3]: [Redacted]
- Embed Value [%4]: [Redacted]

3. Supply values in the following fields:

- **Profile Name.** Type a new name for the credential.
 - **All Organizations.** Toggle on (blue) to align the credential to all organizations, or toggle off (gray) and then select one or more specific organizations from the **What organization manages this service?** drop-down field to align the credential with those specific organizations.
 - **URL.** Type the host name for your PowerFlow system.
 - **HTTP Auth User.** Type the administrator username for your PowerFlow
 - **HTTP Auth Password.** Type the administrator password for your PowerFlow system.
4. Click **[Save & Close]**.
 5. SL1 assigns the credential an ID number. Take note of the ID number for the new credential on the **Credentials** page, in the **ID** column. You will need the ID number when editing the input parameters of the automation actions included in the **ELK Stack Automation PowerPack**.

Creating a SOAP/XML Credential to Access SL1 PowerFlow in the Classic User Interface

To create a SOAP/XML credential:

1. Go to the **Credential Management** page (System > Manage > Credentials).
2. Locate the **PowerFlow ELK** sample credential and click its wrench icon (🔧). The **Credential Editor** modal window appears.

The screenshot shows the 'Credential Editor [93]' window. The title bar includes 'Edit SOAP/XML Credential #93', 'New', and 'Reset' buttons. The main area is divided into several sections:

- Basic Settings:** Profile Name (ELK Powerflow cred), Content Encoding ([text/xml]), Method ([POST]), HTTP Version ([HTTP/1.1]), URL [http(s)://Host:Port/Path | %D = Aligned Device Address | %N = Aligned Device Host Name] (https://10.2.11.115), HTTP Auth User (isadmin), HTTP Auth Password (masked with dots), and Timeout (seconds) (5).
- Proxy Settings:** Hostname/IP, Port (0), and User.
- CURL Options:** A list of options including CAINFO, CAPATH, CLOSEPOLICY, CONNECTTIMEOUT, COOKIE, COOKIEFILE, COOKIEJAR, COOKIELIST, CRLF, CUSTOMREQUEST, and DNSCACHETIMEOUT, with left and right arrow buttons.
- Soap Options:** Embedded Password [%P] and four Embed Value [%1] through [%4] fields.
- HTTP Headers:** A section with a '+ Add a header' button.

At the bottom, there are 'Save' and 'Save As' buttons.

3. Supply values in the following fields:

- **Profile Name.** Type a new name for the credential.
 - **Content Encoding.** Select *text/xml*.
 - **Method.** Select *POST*.
 - **HTTP Version.** Select *HTTP/1.1*.
 - **URL.** Type the host name for your PowerFlow system.
 - **HTTP Auth Password.** Type the administrator password for your PowerFlow system.
 - **Timeout (seconds).** Type "5"
1. Click the **[Save As]** button to save the new SOAP/XML credential.
 2. SL1 assigns the credential an ID number. Take note of the ID number for the new credential on the **Credentials** page in the *ID* column or at the top of the **Credential Editor** modal. You will need the ID number when editing the input parameters of the automation actions included in the *ELK Stack Automation PowerPack*.

Chapter

3

Configuring the ELK Stack Automation Action Policies

Overview

This chapter describes how to edit the action policies included in the *ELK Stack Automation PowerPack* so that the action policies can communicate with your SL1 PowerFlow system.


This chapter covers the following topics:

<i>Editing the ELK Stack Automation Action Policies</i>	11
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Editing the ELK Stack Automation Action Policies

The *ELK Stack Automation* PowerPack includes three action policies—"ELK: ExtLog", "ELK: Index Create", and "ELK: Search"—that trigger the PowerFlow application that collects data from ELK. You can specify the credential ID in a JSON structure that you enter in the **Input Parameters** field in the **Action Policy Editor** modal.

To edit the action policies included in the PowerPack:

1. Go to the **Action Policy Manager** page (Registry > Run Book > Actions).
2. Locate the action policy that you want to use, and then click its wrench icon (). The **Editing Action** page appears.
3. In the **Input Parameters** field, change the values of the following parameters:
 - **credential_id**. Change the value to the credential ID that you noted earlier when [creating a credential for your PowerFlow system](#). This parameter is required.
 - **include_event**. Leave the value as "true".
 - **application_name**. Leave the default application value.
 - **params**. Leave the default parameter value.
4. Click **[Save]**.

Chapter

4

Configuring ELK Stack Automation Event Policies

Overview

This chapter describes how to configure the event policies found in the *ELK Stack Automation* PowerPack.


This chapter covers the following topics:

<i>Standard Event Policies</i>	13
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Standard Event Policies

The *ELK Stack Automation* PowerPack includes three standard API event policies that you can enable to trigger the events detected by the applications included in the *ELK Stack Automation* PowerPack and its associated automation action policy.

To enable the event policies:

1. Go to the **Event Policies** page (Events > Event Policies).
2. Click the Actions menu () for the event policy and select *Edit*.
3. In the **Event Policy Editor** page, click on the **Enable Event Policy** toggle to enable the event policy.
4. Click **[Save]**.

To enable the event policies in the SL1 classic user interface:

1. Go to the **Event Policy Manager** page (Registry > Events > Event Manager).
2. Click the wrench icon () for the event policy.
3. In the **Operational State** field, select *Enabled*.
4. Click **[Save]**.

Chapter

5

ELK Stack Automation PowerPack Automation Policies

Overview

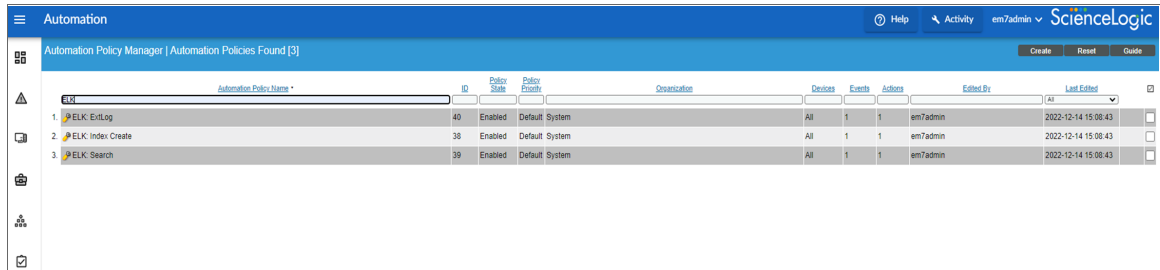
This chapter describes the automation policies found in the *ELK Stack Automation* PowerPack.

This chapter covers the following topics:

<i>Standard Automation Policies</i>	15
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Standard Automation Policies

The *ELK Stack Automation PowerPack* includes three standard automation policies that you can enable, shown in the following figure:



These policies update the SL1 event with the state of the associated ELK job. When a node is offline, a failure occurs, or a major event is detected in ELK, an SL1 event is created and the associated event is updated with any job details.

The following table shows the automation policy, its aligned events, and the automation action that runs in response to the events.

Automation Policy Name	Aligned Events	Automation Action
ELK: ExtLog	All Events	Run Integration Service Application [100] ELK:ExtLog
ELK: Index Create	ELK: Sync SL1 Log	Run Integration Service Application [100] ELK:Index Create
ELK: Search	ELK: Search	Run Integration Service Application [100] ELK:Search

Chapter

6

Introduction to the ELK Stack Synchronization PowerPack

Overview

This chapter describes how you can configure and use the *ELK Stack Synchronization PowerPack* with the PowerFlow platform to integrate SL1 events and ELK detections.

NOTE: After the 2.1.0 platform release, the *Integration Service* was rebranded as *SL1 PowerFlow*, and the *Automation Builder* was rebranded as *SL1 PowerFlow builder*.

NOTE: The label "SyncPack" is used in place of "Synchronization PowerPack" in the PowerFlow user interface.

This chapter covers the following topics:

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What is the ELK Stack Synchronization PowerPack?

The *ELK Stack Synchronization PowerPack* includes a configuration object, applications, and steps that bidirectionally sync jobs, pipeline jobs, and node status between ELK and SL1.

Prerequisites for this Synchronization PowerPack

This Synchronization PowerPack requires the following:

- **SL1 PowerFlow platform version:** 2.3.0 or later
- *ELK Stack Automation* PowerPack version 100
- **SL1 version:** 11.1.0 or later. For details on upgrading SL1, see the appropriate SL1 [Release Notes](#).
- The following dependencies are included in the Synchronization PowerPack:
 - **SL1 Notifications:** 1.0.2
 - `base_steps_syncpack` :1.3.2
- Administrator access to both SL1 and ELK
 - ELK administrator access to the Administration Portal
 - ELK administrator access to the GUI Portal

The following table lists the port access required by PowerFlow and this Synchronization PowerPack:

Source IP	PowerFlow Destination	PowerFlow Source Port	Destination Port	Requirement
PowerFlow	SL1 API	Any	TCP 443	SL1 API Access
PowerFlow	ELK REST API	Any	TCP 443	ELK REST API Access

NOTE: ScienceLogic highly recommends that you disable all firewall session-limiting policies as the firewalls will drop HTTPS requests resulting in data loss.

Contents of the Synchronization PowerPack

This section lists the contents of the *ELK Stack Synchronization PowerPack*.

PowerFlow Applications

- **Get Data from External Source.** This application acquires data from external sources to update *ELK* statuses in SL1.

- **Search Data in ELK.** This application searches data in *ELK* and posts updates the SL1 .
- **Get Data from SL1 .** This application acquires data from SL1 to send to *ELK* and back to SL1 for updates.

For more information about how to configure these applications, see [Configuring Applications for the ELK Stack Synchronization PowerPack](#).

Configuration Object

- **ElasticSearch Logstash Kibana Configuration.** This configuration object can be used as a template after the Synchronization PowerPack is installed on the PowerFlow system.

Steps

The following steps are included in this Synchronization PowerPack:

- Get Log Data from SL1
- PostUpdateToSL1
- Get Search Results from ELK
- Send Data to ELK
- Update ELK Status To SL1

Installing the Synchronization PowerPack

A Synchronization PowerPack file has the **.whl** file extension type. You can download the Synchronization PowerPack file from the ScienceLogic Support site.

Downloading the Synchronization PowerPack

To locate and download the Synchronization PowerPack:

1. Go to the [ScienceLogic Support Site](#).
2. Click the **[Product Downloads]** tab and select *PowerPack*.
3. In the **Search PowerPacks** field, search for the Synchronization PowerPack and select it from the search results. The **Release Version** page appears.
4. On the **[PowerPack Versions]** tab, click the name of the Synchronization PowerPack version that you want to install. The **Release File Details** page appears.
5. Click the **[Download File]** button or click the name of the **.zip** file containing the **.whl** file for this Synchronization PowerPack to start downloading the file.

NOTE: After you download a Synchronization PowerPack, you can import it to your PowerFlow system using the PowerFlow user interface.

Importing the Synchronization PowerPack

To import a Synchronization PowerPack in the PowerFlow user interface:

1. On the **SyncPacks** page (☺) of the PowerFlow user interface, click **[Import SyncPack]**. The **Import SyncPack** page appears.
2. Click **[Browse]** and select the **.whl** file for the Synchronization PowerPack you want to install. You can also drag and drop a **.whl** file to the **Import SyncPack** page.
3. Click **[Import]**. PowerFlow registers and uploads the Synchronization PowerPack. The Synchronization PowerPack is added to the **SyncPacks** page.
4. You will need to activate and install the Synchronization PowerPack in PowerFlow. For more information, see [Activating and Installing a Synchronization PowerPack](#).

NOTE: You cannot edit the content package in a Synchronization PowerPack published by ScienceLogic. You must make a copy of a ScienceLogic Synchronization PowerPack and save your changes to the new Synchronization PowerPack to prevent overwriting any information in the original Synchronization PowerPack when upgrading.

Installing the Synchronization PowerPack


To activate and install a Synchronization PowerPack in the PowerFlow user interface:

1. On the **SyncPacks** page of the PowerFlow user interface, click the **[Actions]** button (⋮) for the Synchronization PowerPack you want to install and select *Activate & Install*. The **Activate & Install SyncPack** modal appears.

NOTE: If you try to activate and install a Synchronization PowerPack that is already activated and installed, you can choose to "force" installation across all the nodes in the PowerFlow system.

TIP: If you do not see the PowerPack that you want to install, click the Filter icon (≡) on the **SyncPacks** page and select *Toggle Inactive SyncPacks* to see a list of the imported PowerPacks.

2. Click **[Yes]** to confirm the activation and installation. When the Synchronization PowerPack is activated, the **SyncPacks** page displays a green check mark icon (✓) for that Synchronization PowerPack. If the activation or installation failed, then a red exclamation mark icon (⚠) appears.
3. For more information about the activation and installation process, click the check mark icon (✓) or the exclamation mark icon (⚠) in the **Activated** column for that Synchronization PowerPack. For a successful installation, the "Activate & Install SyncPack" application appears, and you can view the Step Log for the steps. For a failed installation, the **Error Logs** window appears.

4. If you have other versions of the same Synchronization PowerPack on your PowerFlow system, you can click the **[Actions]** button () for that Synchronization PowerPack and select *Change active version* to activate a different version other than the version that is currently running.

Chapter

7

Configuring Applications for the ELK Stack Synchronization PowerPack

Overview


This chapter describes how to set up the PowerFlow applications for the *ELK Stack Synchronization PowerPack*.

This chapter covers the following topics:

<i>Creating and Aligning a Configuration Object in PowerFlow</i>	22
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TIP: You must have an Elastic Cloud account before you integrate the *ELK Stack Synchronization PowerPack* with PowerFlow.

Creating and Aligning a Configuration Object in PowerFlow

A **configuration object** supplies the login credentials and other required information needed to execute the steps for a PowerFlow application. The **Configurations** page () of the PowerFlow user interface lists all available configuration objects for that system.

You can create as many configuration objects as you need. A PowerFlow application can only use one configuration object at a time, but you can use (or "align") the same configuration object with multiple applications.



To use this Synchronization PowerPack, you will need to use an existing configuration object in the PowerFlow user interface or create a new configuration object. Next, you need to align that configuration object to the relevant applications.

Creating a Configuration Object

For this Synchronization PowerPack, you should make a copy of the "ElasticSearch Logstash Kibana Configuration" configuration object, which is the sample configuration file that was installed with the *ELK Stack Automation PowerPack*.

TIP: The "ElasticSearch Logstash Kibana Configuration" configuration object contains all of the required variables. Simply update the variables from that object to match your SL1 and ELK settings.

To create a configuration object based on the "ElasticSearch Logstash Kibana Configuration" configuration object:

1. In the PowerFlow user interface, go to the **Configurations** page ().
2. Click the **[Actions]** button () for the "ElasticSearch Logstash Kibana Configuration" configuration object and select *Edit*. The **Configuration** pane appears:

isadmin ScienceLogic

ElasticSearch Logstash Kibana Configuration

Toggle JSON Editor

Description
Configuration of ElasticSearch Logstash Kibana

Version
1.0.0

Configuration Data Values

Name	Value	Encrypted
sl1_host	dummy	<input type="checkbox"/>
sl1_password	LUaIV5vdhnlgolrk30t8V	<input checked="" type="checkbox"/>
sl1_user	dummy	<input type="checkbox"/>
ELK_Cloud_id	dummy	<input type="checkbox"/>
elk_username	dummy	<input type="checkbox"/>
elk_password	dummy	<input type="checkbox"/>
from_date	dummy	<input type="checkbox"/>
to_date	dummy	<input type="checkbox"/>
URI_for_log_data	dummy	<input type="checkbox"/>
elk_document_url	dummy	<input type="checkbox"/>
index_name	dummy	<input type="checkbox"/>
field_name	dummy	<input type="checkbox"/>
field_value	dummy	<input type="checkbox"/>

Add Value Copy as Save

3. Click [**Copy as**]. The **Create Configuration** pane appears.

4. Complete the following fields:

- **Friendly Name**. Type a name for the configuration object that will display on the **Configurations** page.
- **Description**. Type a brief description of the configuration object.

- **Author.** Type the user or organization that created the configuration object.
 - **Version.** Type a version of the configuration object.
5. In the **Configuration Data** field, include the required block of code to ensure that the applications aligned to the ELK configuration object is successful:
- **sl1_host.** Type the hostname or IP address of the SL1 system the alerts will synchronize with.
 - **sl1_user.** Type the username for your SL1 system.
 - **sl1_password.** Type the password for your SL1 system.
 - **elk_username.** Type the username for your ELK system.
 - **elk_password.** Type the password for your ELK system.
 - **elk_document_url.** Enter the URL for your ELK document.
 - **ELK_Cloud_id.** Type the ELK Cloud ID for login.
 - **create_index_name.** Type the name of the log data.
 - **URI_for_log_data.** Type the Log Data URL.
 - **from_date.** Type the start date in dd-mm-yyyy hh:mm:ss.
 - **to_date.** Type the end date in dd-mm-yyyy hh:mm:ss.


The following fields are required only if you choose to manually create a virtual device for your ELK instance:

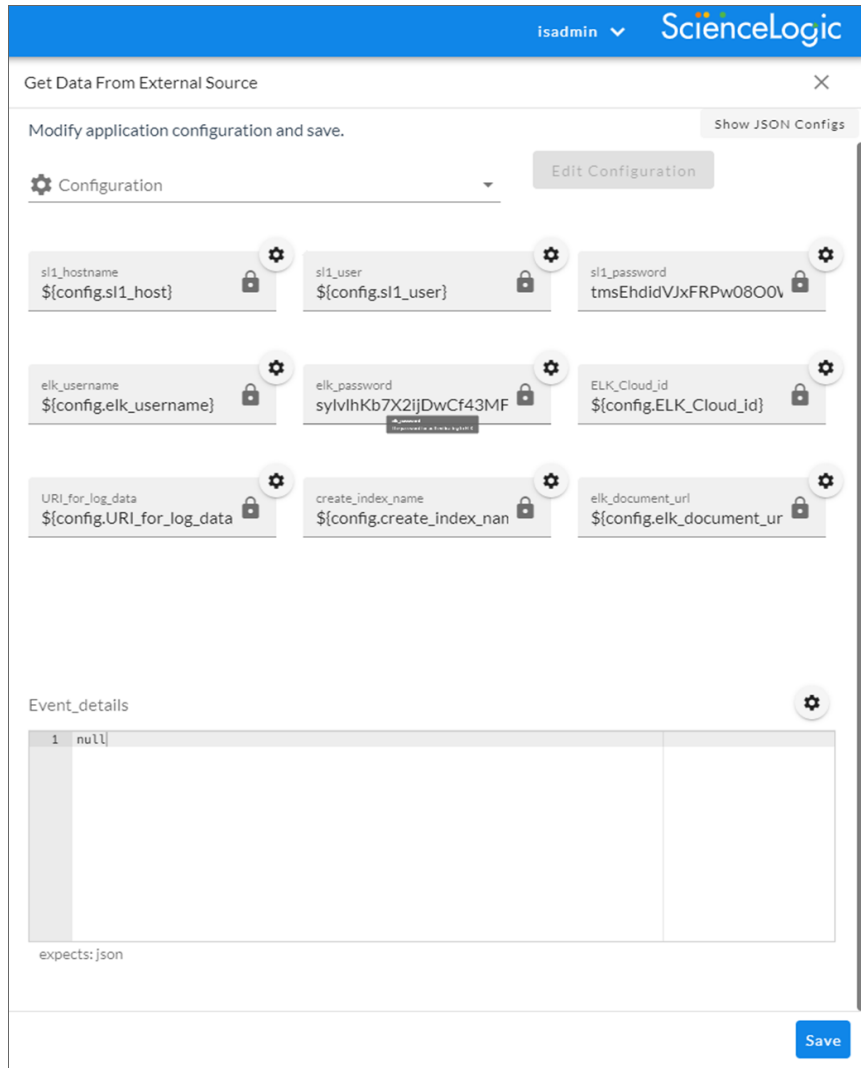
- **device_class_id.** Type the device class ID for your ELK instance.
 - **collector_group_id.** Type the collector group ID for your ELK instance.
 - **device_id.** Type the device ID for your ELK instance.
6. Click **[Save]**. You can now align this configuration object with one or more applications.

Aligning a Configuration Object and Configuring PowerFlow Applications

With this Synchronization PowerPack, you can create SL1 events based on ELK jobs. You will need to align the *ELK Stack* Synchronization PowerPack applications with the relevant configuration object in PowerFlow, and, if needed, update any other fields on the **Configuration** pane for the applications.

To align the configuration object with the relevant PowerFlow applications:

1. On the **Applications** page of the PowerFlow user interface, open each of the PowerFlow applications listed above and click **[Configure]**  one at a time. The **Configurations** pane for that application appears:



2. From the **Configurations** drop-down, select the configuration object you want to use.

NOTE: The values for **sl1_hostname** and the other parameters that appear in the **Configuration** pane with a padlock icon (🔒) are populated by the configuration object you aligned with the application. Do not modify these values. If you encounter an error, make sure your configuration object is configured properly.

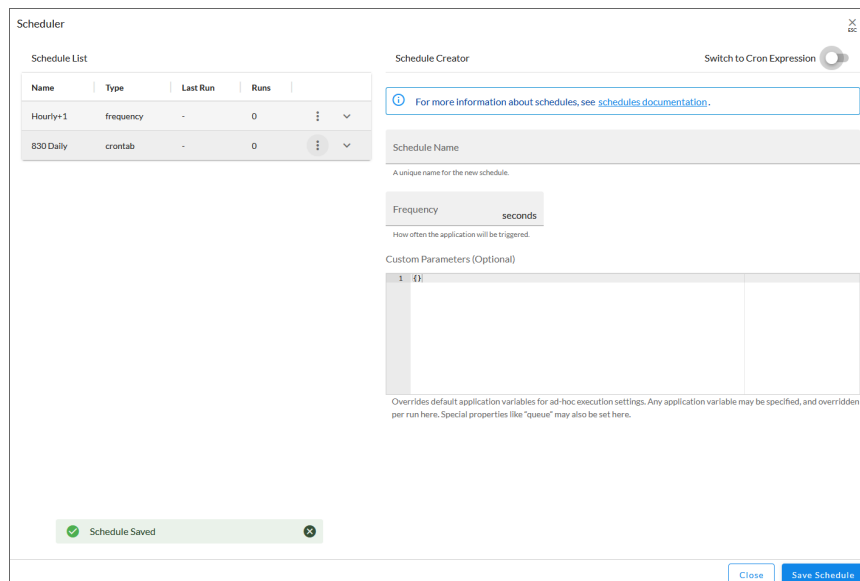
3. Click **[Save]** to align that configuration with the application.
4. Repeat this process for the other PowerFlow applications.

Scheduling PowerFlow Applications

You can create one or more schedules for a single application in the PowerFlow user interface. When creating each schedule, you can specify the queue and the configuration file for that application.

To create a schedule on PowerFlow version 2.5.0 and later:

1. On the **Applications** page (📄), click the **[Schedule]** button for the application you want to schedule. The **Scheduler** window appears:



2. In the **Schedule List** pane, click the down arrow icon (▼) next to an existing schedule to view the details for that schedule.
3. In the **Schedule Creator** pane, complete the following fields for the default **Frequency** setting:
 - **Schedule Name.** Type a name for the schedule.
 - **Frequency in seconds.** Type the number of seconds per interval that you want to run the application.
 - **Custom Parameters.** Type any JSON parameters you want to use for this schedule, such as information about a configuration file or mappings.
4. To use a cron expression, click the **Switch to Cron Expression** toggle to turn it blue. If you select this option, you can create complicated schedules based on minutes, hours, the day of the month, the month, and the day of the week:

Schedule Creator
Switch to Frequency in Seconds

i For more information about schedules, see [schedules documentation](#).

Schedule Name
Saturday Schedule

A unique name for the new schedule.

Cron Expression key operators

* any value , list separator - range of values / step values

Minutes 0,30	Hours *	Day of Month *	Month *	Day of Week 6
Allowed values: 0-59	Allowed values: 0-23	Allowed values: 1-31	Allowed values: 1-12 Alt. values JAN-DEC	Allowed values: 0-6 Alt. values SUN-SAT

Runs app: "Every 0 and 30th minute past every hour on Sat" (UTC -4)

Derived from given values in fields above.

Custom Parameters (Optional)

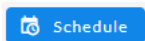
1	{ }	
---	-----	--

Overrides default application variables for ad-hoc execution settings. Any application variable may be specified, and overridden per run here. Special properties like "queue" may also be set here.

Close
Save Schedule

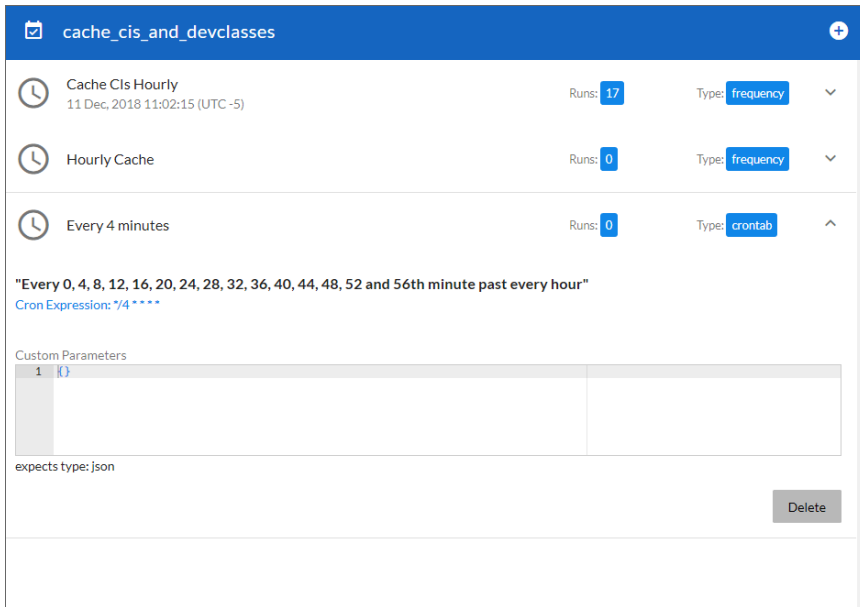
As you update the cron expression, the **Schedule** window displays the results of the expression in more readable language, such as *Runs app: "Every 0 and 30th minute past every hour on Sat"*, based on 0,30 in the **Minutes** field and 6 in the **Day of Week** field.

- Click **[Save Schedule]**. The schedule is added to the **Schedule List** pane. Also, on the **Applications** page, the **[Schedule]** button now displays with a dark blue background:



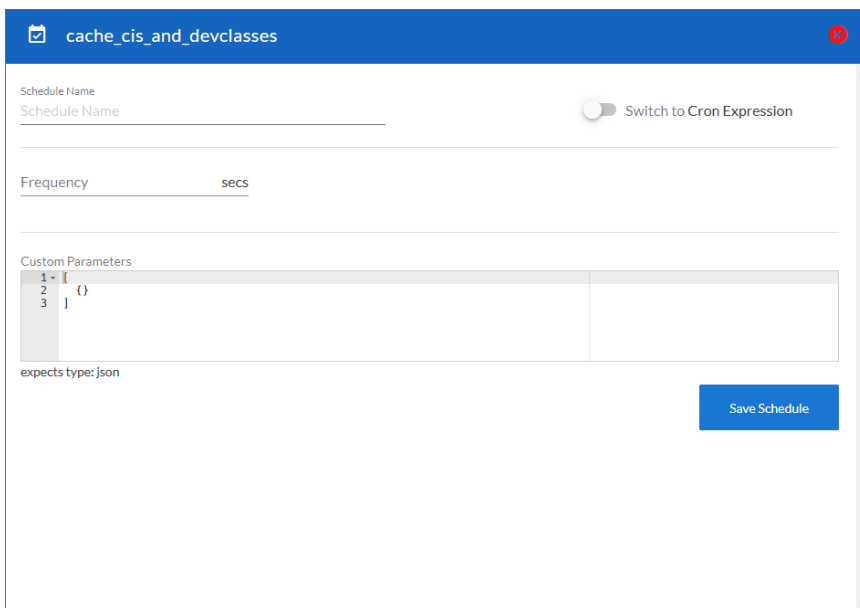
To create a schedule on PowerFlow version 2.4.1 or earlier:

- On the **Applications** page (📄), click the **[Schedule]** button for the application you want to schedule. The **Schedule** window appears, displaying any existing schedules for that application:



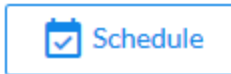
NOTE: If you set up a schedule using a cron expression, the details of that schedule display in a more readable format in this list. For example, if you set up a cron expression of `*/4 * * * *`, the schedule on this window includes the cron expression along with an explanation of that expression: "Every 0, 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48, 52, and 56th minute past every hour".

2. Select a schedule from the list to view the details for that schedule.
3. Click the + icon to create a schedule. A blank **Schedule** window appears:



4. In the **Schedule** window, complete the following fields:

- **Schedule Name.** Type a name for the schedule.
 - **Switch to.** Use this toggle to switch between a cron expression and setting the frequency in seconds.
 - **Cron expression.** Select this option to schedule the application using a cron expression. If you select this option, you can create complicated schedules based on minutes, hours, the day of the month, the month, and the day of the week. As you update the cron expression, the **Schedule** window displays the results of the expression in more readable language, such as *Expression: "Every 0 and 30th minute past every hour on the 1 and 31st of every month", based on */30 * */30 * **.
 - **Frequency in seconds.** Type the number of seconds per interval that you want to run the application.
 - **Custom Parameters.** Type any JSON parameters you want to use for this schedule, such as information about a configuration file or mappings.
5. Click **[Save Schedule]**. The schedule is added to the list of schedules on the initial **Schedule** window. Also, on the **Applications** page, the word "Scheduled" appears in the **Scheduled** column for this application, and the **[Schedule]** button contains a check mark:



NOTE: After you create a schedule, it continues to run until you delete it. Also, you cannot edit an existing schedule, but you can delete it and create a similar schedule if needed.

To view or delete an existing schedule:

1. On the **Applications** page, click the **[Schedule]** button for the application that contains a schedule you want to delete. The **Scheduler** window appears.
2. Click the down arrow icon (▼) to view the details of an existing schedule.
3. To delete the selected schedule, click the Actions icon (⋮) and select **[Delete]**.

TIP: On the **Scheduler** window for a PowerFlow application, you can click the **[Copy as]** button from the **Schedule List** pane to make a copy of an existing schedule.

NOTE: When either multiple SL1 instances or multiple ELK instances are involved with PowerFlow, you should create an individual configuration object for each SL1 or ELK instance. Next, create an individual schedule for each configuration object. Each schedule should use a configuration object that is specific to that single SL1 or ELK instance. Creating copies of a PowerFlow application from a Synchronization PowerPack for the purpose of distinguishing between domains is not supported, and will result in issues on upgrades.

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