Restorepoint SyncPack

Restorepoint SyncPack Version 2.1.1

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Chapter 1

Introduction to the Restorepoint SyncPack

Overview

This chapter describes how you can use the "Restorepoint" SyncPack to automatically add SL1 devices to Restorepoint when those devices are discovered in SL1 and then sync data for those devices. This SyncPack also collects backup events from Restorepoint.

The integration is unidirectional, from SL1 to Restorepoint.

> **NOTE:** This version of the SyncPack has been tested to sync up to 1,000 new devices at a time.

For more information about integrating SL1 with Restorepoint, watch this video.

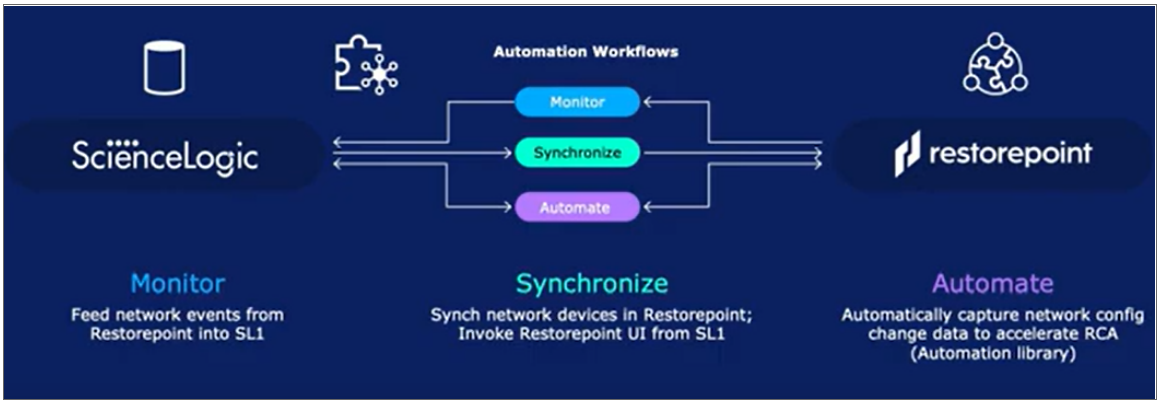
This chapter covers the following topics:

What Can I Do with this SyncPack?

You can use the "Restorepoint" SyncPack to automatically add SL1 devices to Restorepoint when those devices are discovered in SL1 .

When a device is synced between SL1 and Restorepoint, you can click the **[Tools]** button on the **Device Investigator** page for that synced device and click a custom "Restorepoint" link. That link takes you to the **Device Details** page for that device in Restorepoint. You can also view Automation Actions for an event on a synced device in SL1 to view detailed logs about the event.

You can also use this SyncPack to collect backup events from Restorepoint.



This SyncPack lets you configure the following integrations between Restorepoint and SL1:

- ***Onboard and Sync Devices***. The "Restorepoint: Sync Devices" application syncs existing SL1 devices with Restorepoint devices. The application also adds new SL1 devices and their associated elements to Restorepoint, including the domain and credential. The application gets details about how the device will be configured in Restorepoint, including the assigned agent and device type, from a mapping in the aligned configuration object.
- ***Get Logs from Restorepoint***. The "Restorepoint: Get the List of Logs from Restorepoint" application queries the Restorepoint API to collect backup success and failure logs from Restorepoint to generate events in SL1. You can use PowerFlow to compare the logs to make sure the backups ran successfully in Restorepoint.
- ***Update credentials from SL1***. The "Restorepoint: Get List of Credentials from SL1" application queries SL1 for existing credentials and matches them against credentials in Restorepoint. If there is a change to the credential in SL1 and the credential exists in Restorepoint, the credential is updated with the new information.

Contents of the SyncPack

This section lists the contents of the "Restorepoint" SyncPack.

PowerFlow Applications

Before you can use the integrations between Restorepoint and SL1, you will need to configure the following applications in the "Restorepoint" SyncPack:

- ***Restorepoint: Get list of credentials from SL1***. This application queries SL1 for existing credentials and matches them against credentials in Restorepoint. If there is a change to the credential in SL1 and the credential exists in Restorepoint, the credential is updated with the new information. For more information, see *Configuring the "Restorepoint: Get list of credentials from SL1" Application*.
- ***Restorepoint: Get the List of Logs from Restorepoint***. This application queries the Restorepoint API to collect backup success and failure logs from Restorepoint to generate events in SL1. You can use PowerFlow to compare the logs to make sure the backups ran successfully in Restorepoint. For more information, see *Configuring the "Restorepoint: Get the List of Logs from Restorepoint" Application*.
- ***Restorepoint: Sync Devices***. This application creates the Restorepoint custom attribute for the device and gets devices in the "Restorepoint" device group in SL1 and syncs them to Restorepoint. This application triggers the "Restorepoint: Onboard Device" application, which checks for newly discovered SL1 devices to sync to Restorepoint. For more information, see *Configuring the "Restorepoint: Sync Devices" Application*.

PowerFlow Applications (Internal)

The following applications are "internal" applications that should not be run directly, but are automatically run by applications from the previous list. To view these internal PowerFlow applications, click the Filter icon ( ) on the **Applications** page and select *Show Hidden Applications*. Internal applications are hidden by default.

- ***Restorepoint: Change detection for backed up devices***. This application queries the Restorepoint API to determine whether there was a change between the last two backups. This application is triggered by the "Restorepoint: Get the List of Logs from Restorepoint" application.
- ***Restorepoint: Get a list of devices not present in SL1***. This application checks for devices missing from SL1.
- ***Restorepoint: Onboard Device***. This application adds new devices and the associated elements to Restorepoint, including the domain and credential. The application gets details about how the device will be configured in Restorepoint, including the assigned agent and device type, from a mapping in the aligned configuration object. This application is triggered by the "Restorepoint: Sync Devices" application.
- ***Restorepoint: Update Event info in SL1***. This application populates SL1 events with log and backup information that is collected from Restorepoint. This application is triggered by the "Restorepoint: Get the List of Logs from Restorepoint" application.

For more information about how to configure these applications, see *Configuring the Restorepoint Applications*.

Configuration Object

- ***Restorepoint Base Config***. This configuration object can be used as a template after the SyncPack is installed on the PowerFlow system. The configuration object includes the following:

    - Details for connecting to the SL1 API, including the URL, username, and password.
    - Details for connecting to the Restorepoint API, including the URL, username, and password.
    - Details for connecting to the SL1 database, including the URL, username, and password.
    - A mapping between SL1 Device Class GUIDs and Restorepoint device types.
    - A default value for Restorepoint device types.
    - Mapping between SL1 collector appliance IDs and Restorepoint agents.
    - A default backup schedule for all new devices added to Restorepoint.
    - An option to add a custom link configuration to SL1, a user access URL, a timestamp, and the option to allow device change detection.

Steps

The following steps are included in this SyncPack:

- Create Restorepoint Credential
- Restorepoint: Create Device
- Create Restorepoint Domain
- Determine the change in Restorepoint Logs
- Get backup data from RP
- Insert data in SL1 database
- Get device id from SL1
- Get Devices from SL1
- Transfer Data
- Select Device ID from SL1
- Get Logs from Restorepoint and save in PF cache
- Optional QueryGQL Call RP
- Select Custom Link
- Select devices from SL1
- Update Device Event Info
- Filter List of Credentials
- Get List of Basic/Snippet Credentials from SL1
- Get List of Credentials from Restorepoint

- Get List of SSH Credentials from SL1
- Save Edit Date to Cache

Chapter 2

Installing the Restorepoint SyncPack

Overview

This manual describes how to install the "Restorepoint" SyncPack and its required PowerPacks: "Restorepoint" and "Restorepoint Automation".

This chapter covers the following topics:

Prerequisites for this SyncPack

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

Source IP	PowerFlow Destination	PowerFlow Source Port	Destination Port	Requirement
PowerFlow	SL1 API	Any	TCP 443	SL1 API Access
PowerFlow	Restorepoint API	Any	TCP 443	Restorepoint API Access
PowerFlow	SL1 Database	Any	TCP 7706	SL1 Database Access

Installing the Restorepoint SyncPack

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

WARNING: If you are *upgrading* to this version of the SyncPack from a previous version, make a note of any settings you made on the **Configuration** pane of the various integration applications in this SyncPack, as these settings are *not* retained when you upgrade.

Downloading the SyncPack

NOTE: If you are installing or upgrading to the latest version of this SyncPack in an offline deployment, see ***Installing or Upgrading in an Offline Environment*** to ensure you install any external dependencies.

To locate and download the SyncPack:

1. Go to the ScienceLogic Support Site at https://support.sciencelogic.com/s/.
2. Click the **[Product Downloads]** tab and select *PowerPacks*.
3. In the ***Search PowerPacks*** field, search for the SyncPack and select it from the search results. The **Release Version** page appears.
4. On the **[Files]** tab, click the down arrow next to the SyncPack version that you want to install, and select *Show File Details*. The **Release File Details** page appears.
5. Click the **[Download File]** button to download the SyncPack.

After you download the SyncPack, you can import it to your PowerFlow system using the PowerFlow user interface.

Importing the SyncPack

To import a SyncPack 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 SyncPack 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 SyncPack. The SyncPack is added to the **SyncPacks** page.
4. You will need to activate and install the SyncPack in PowerFlow. For more information, see *Activating and Installing a SyncPack*.

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

Activating and Installing the SyncPack

To activate and install a SyncPack in the PowerFlow user interface:

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

   > **NOTE:** If you try to activate and install a SyncPack 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 SyncPack is activated, the **SyncPacks** page displays a green check mark icon ( ) for that SyncPack. 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 SyncPack. 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 SyncPack on your PowerFlow system, you can click the **[Actions]** button ( ) for that SyncPack and select *Change active version* to activate a different version other than the version that is currently running.

Installing and Configuring the Restorepoint PowerPack

The following topics describe how to install and configure the "Restorepoint" PowerPack for the "Restorepoint" SyncPack.

Installing the PowerPack

The "Restorepoint" PowerPack includes the following tools, which you will use with the "Restorepoint" SyncPack:

- The "Restorepoint Connectivity" Dynamic Application, which tests SSH connectivity and indicates devices to be onboarded in Restorepoint.
- Event policies for Restorepoint.
- A device class for Restorepoint devices.
- A device group called "Restorepoint Devices", which includes a dynamic rule that matches devices with aligned Dynamic Applications, including the "Restorepoint Connectivity" Dynamic Application.
- The Restorepoint MIB is available in your Restorepoint system. The MIB must be loaded before you can use the PowerPack. For more information, see *Downloading and Compiling the Restorepoint MIB Files*.

To install the "Restorepoint" PowerPack:

1. Download the latest version of the PowerPack from the ScienceLogic Support Site to a local computer.
2. In SL1, log in and go to the **PowerPack Manager** page (System > Manage > PowerPacks).
3. Click **[Actions]** and select *Import PowerPack*.
4. Click **[Browse]** and navigate to the PowerPack file from step 1.
5. Select the PowerPack file and click **[Import]**. The **PowerPack Installer** modal page displays a list of the PowerPack contents.
6. Click **[Install]**. After the installation is complete, the PowerPack appears on the **PowerPack Manager** page.

Downloading and Compiling the Restorepoint MIB Files

After installing the Restorepoint PowerPack, you will need to download the following MIB files from Restorepoint and compile the MIB files in SL1:

- **RESTOREPOINT-APPLIANCE-MIB.txt**
- **RESTOREPOINT-MIB.txt**

You can access the Restorepoint MIB files from your Restorepoint system.

To download the MIB files in Restorepoint:

1. In your Restorepoint system, go to the **Systems Settings** page (Administration > System Settings).
2. Click the **[SNMP]**tab and navigate to the ***Download MIBs*** field.
3. Click both of the MIB file names to download them to your local drive.

To compile the Restorepoint MIB files in SL1:

1. Go to the **MIB Compiler** page (System > Tools > MIB Compiler) and click the **[Import]** button.
2. In the **MIB Import** modal page, navigate to the location of the MIB file on your local computer and click the **[Import]** button. The new MIB file appears in the list of MIB files in the **MIB Compiler** page.
3. Repeat steps 1-2 to upload the second MIB file.
4. You must compile both MIB files before SL1 can use them. To compile a MIB, click its lightning bolt icon ( ).
5. To enable Restorepoint to send trap events to SL1, go to **Administration > System Settings > Logs/Alerts** in the Restorepoint user interface and change the following:
    - ***SNMP Traps***: Check this checkbox.
    - ***SNMP Server***: Enter the IP address of the SL1 All-In-One or Data Collector.

Installing the Restorepoint Automation PowerPack

Before completing the steps in this manual, you must import and install the latest version of the "Restorepoint Automation" PowerPack. This PowerPack includes five Run Book Actions used by the "Restorepoint" SyncPack, and the "Restorepoint Automation" Basic/Snippet credential used by those Run Book Actions.

IMPORTANT: You must install the "Datacenter Automation Utilities" PowerPack version 103 before using the "Restorepoint Automation" PowerPack.

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 3

Configuring Applications for the Restorepoint SyncPack

Overview

This chapter describes how to configure SL1 and PowerFlow so you can use the PowerFlow applications in the "Restorepoint" SyncPack.

This chapter covers the following topics:

Workflow: Configuring SL1 and PowerFlow

The following workflow describes the steps for setting up SL1 and PowerFlow so you can sync data with Restorepoint:

- Configuring SL1
  - *Create a Restorepoint Credential*
  - *Align the Restorepoint Credential to the Restorepoint Run Book Actions*
  - *Create an SSH Credential in SL1 for Discovering Devices*
  - *Enable the Automation Policies*
- Configuring PowerFlow
  - *Create a Configuration Object in PowerFlow*
  - *Obtaine the API Token in Restorepoint*
  - *Configure the "Restorepoint: Sync Devices" Application*
  - *Configure the "Restorepoint: Get the List of Logs from Restorepoint" Application*
  - *Configure the "Restorepoint: Get list of credentials from SL1" Application*
  - *Schedule PowerFlow Applications*

Configuring SL1

Creating a Restorepoint Credential

To use the automation actions in the PowerPack to collect data from a device, you must create a Restorepoint credential that includes the hostname/IP address, username, and password for your Restorepoint system. The "Restorepoint Automation" PowerPack includes the "Restorepoint Automation" Basic/Snippet credential that you can use to create your own credential to communicate with your Restorepoint devices.

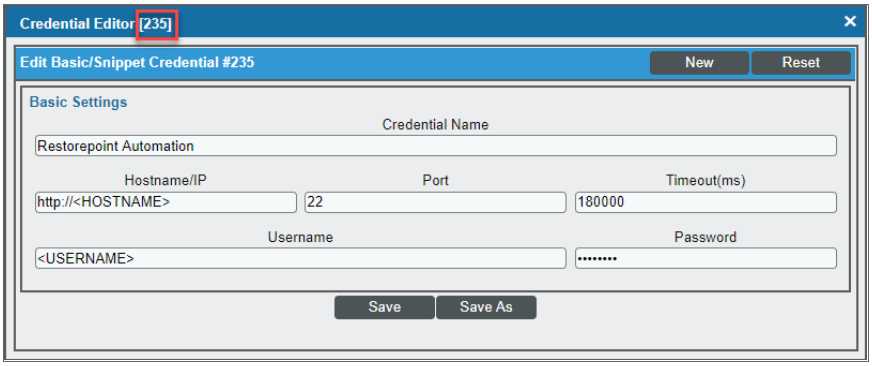
NOTE: The "Restorepoint Automation" PowerPack uses one credential for all devices in your Restorepoint system. After you create a new credential based on the "Restorepoint Automation" credential, you will need to edit the automation actions to update the credential ID parameter (see step 4, below).

To create a Restorepoint Automation credential:

1. Go to the **Credential Management** page (System > Manage > Credentials).
2. Locate the "Restorepoint Automation" sample credential and click the wrench icon (). The **Credential Editor** modal page appears.
3. Complete the following fields:

- ***Credential Name***. Enter a new name for your Restorepoint credential.
- ***Hostname/IP***. Enter the URL for the Restorepoint device.
- ***Port***. Enter the port number associated with the data you want to retrieve. The TCP port for secure HTTP servers is 443.
- ***Timeout(ms)***. Enter a timeout, in milliseconds, for the connection.
- ***Username***. Enter the username for a user account on the Restorepoint device to be monitored.
- ***Password***. Enter the password for the user you entered in the ***Username*** field.

4. Click **[Save As]**. SL1 assigns the credential an ID number.
5. Take note of the ID number that appears in the Credential Editor heading, as you will need this when *aligning a Restorepoint credential to the Restorepoint automation actions:*



NOTE: You can also find the credential ID number on the **Credential Management** page under the "ID" column.

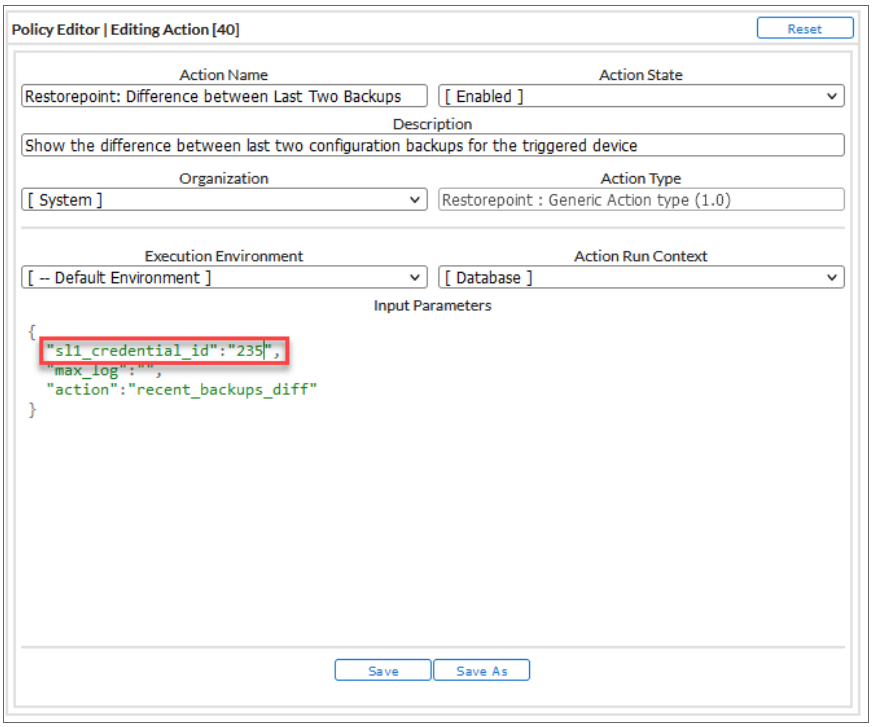
Aligning the Restorepoint Credential to the Restorepoint Automation Actions

After you create a Restorepoint credential that communicates with your Restorepoint devices, you must align the new credential to the five run book action policies included in this PowerPack:

- Restorepoint: Difference between Last Two Backups
- Restorepoint: Link to Last Configuration Backup
- Restorepoint: Recent Logs
- Restorepoint: Revert Backup
- Restorepoint: Start Backup

To align the credential to the run book action pollicies:

1. Navigate to the **Action Policy Manager** page (Registry > Run Book > Actions).
2. Locate a Restorepoint action policy and click the wrench icon ( ). The **Action Editor** modal page appears:



3. In the ***Input Parameters*** pane, add the credential ID to the "sl1_credential_id" value. For example: `"sl1_credential_id":"235",`.
4. Click **[Save]**.
5. Repeat steps 2-4 for all five run book action policies.

Creating an SSH Credential in SL1 for Discovering Devices

In SL1, you will need to create an SSH credential for the devices that you want to discover and add to c. SL1 uses this credential to automatically align the "RestorepointConnectivity" Dynamic Application, which is used when you discover a device and add it to Restorepoint.

> **NOTE:** If needed, create a new organization in SL1 for the device you want to discover. For more information, see *Creating and Editing Organizations*.

To create an SSH/Key credential:

1. Go to the **Credentials** page (Manage > Credentials or System > Manage > Credentials in the classic user interface).
2. Click the **[Create New]** button and then select *Create SSH/Key Credential*. The **Edit Credential** modal page appears.
3. Complete the following fields:

    - ***Name***. Name of the credential. Can be any combination of alphanumeric characters.
    - ***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.
    - ***Timeout (ms)***. Time, in milliseconds, after which SL1 will stop trying to communicate with the device from which you want to retrieve data. The default is 1500.
    - ***Hostname/IP***. Hostname or IP address of the device you want to discover.

        - You can include the variable **%D** in this field. SL1 will replace the variable with the IP address of the current device (device that is currently using the credential).
        - You can include the variable **%N** in this field. SL1 will replace the variable with hostname of the current device (device that is currently using the credential). If SL1 cannot determine the hostname, SL1 will replace the variable with the primary, management IP address for the current device.

    - ***Port***. Port number associated with the data you want to retrieve. The default TCP port for SSH servers is 22. The protocol attribute of your device in Restorepointis set based on the port specified in this credential. If the port is 23, the attribute is set to telnet/tftp. For all other ports, the attribute is set to ssh/tftp.
    - ***Username***. Username for an SSH or user account on the device to be monitored.
    - ***Password***. Password for an SSH or user account on the device to be monitored.
    - ***Private Key (PEM Format)***. Enter the SSH private key that you want SL1 to use, in PEM format.

4. Click **[Save]**.

Enabling Automation Policies

The "Restorepoint Automation" PowerPack includes the following automation policies:

- The "Restorepoint Event Enrichment" policy triggers three different run book actions that collect diagnostic data and formats an output.
- The "Start Restorepoint Backup" and "Revert Restorepoint Backup" automation policies trigger run book actions that start or revert a user initiated backup.

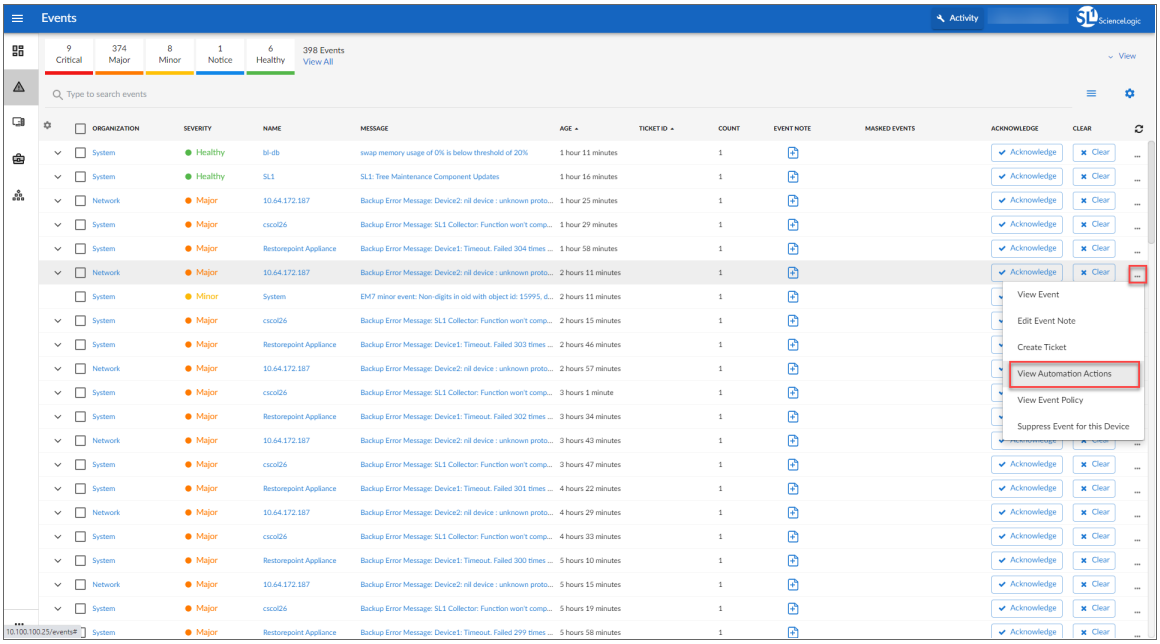
All of the run book actions use the custom action type "Restorepoint: Generic Action type", which is supplied in the PowerPack.

NOTE: If needed, open each automation policy on the **Automations** page (Registry > Run Book > Automations) and set the ***Policy State*** to *Enabled*.

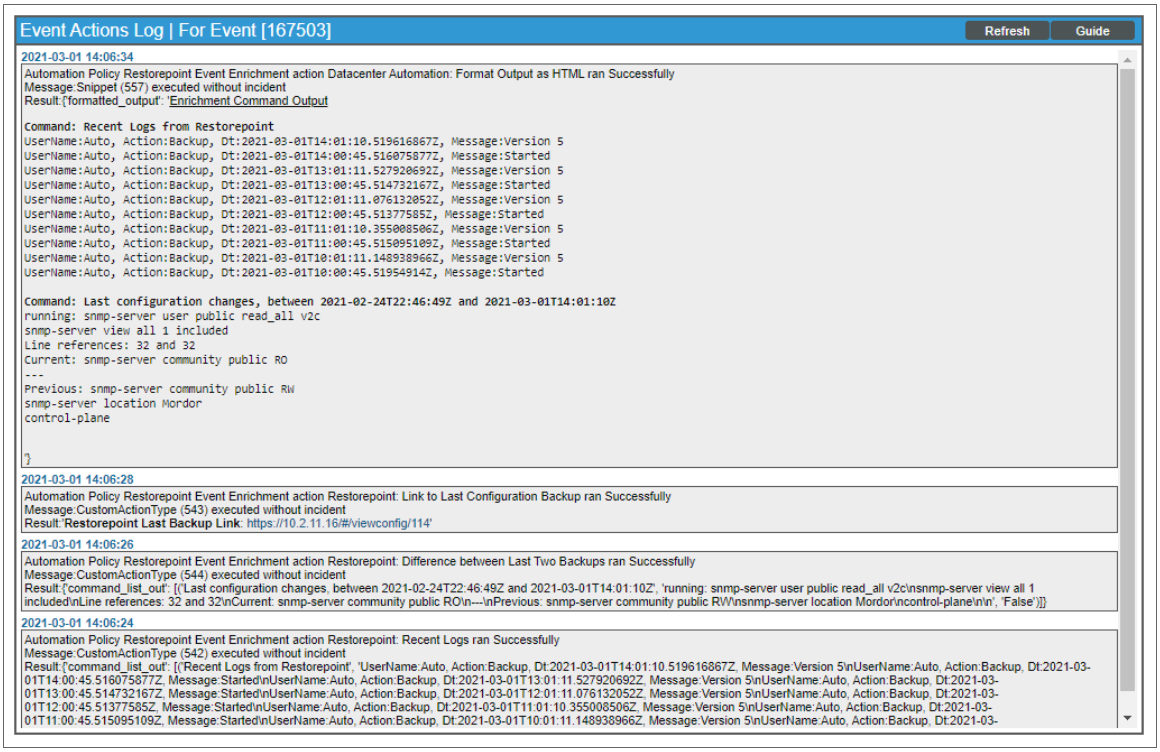
The following table shows the standard automation policies, the aligned events, and the run book actions that run in response to the events:

Automation Policy Name	Aligned Events	Aligned Device Group	Run Book Action
Restorepoint Event Enrichment	All events in your SL1 system are aligned to this policy	Restorepoint Devices	• Restorepoint: Difference Between Last Two Backups • Restorepoint: Link to Last Configuration Backup • Restorepoint: Recent Logs
Start Restorepoint Backup	All events	All devices	• Restorepoint: Start Backup
Revert Restorepoint Backup	All events	All devices	• Restorepoint: Revert Backup

The following figure shows a file system usage threshold exceeded event with major criticality on the **Events** page. Click the **[Actions]** button (···) for an event, and select *View Automation Actions* to see the automation actions triggered by the event.



The results shown for this event, in the **Event Actions Log**, include an executed automation policy (shown at the top of the following figure), along with the automation actions (commands). Results for each command are also displayed. The following figure shows an example of this output:



TIP: Although you can edit the automation policies described in this section, it is a best practice to use "Save As" to create a new automation policy, rather than to customize the standard automation policies.

Configuring PowerFlow

Creating a Configuration Object in PowerFlow

For this SyncPack, you can make a copy of the "Restorepoint Base Config" configuration object, which is the sample configuration file that was installed with the "Restorepoint" SyncPack.

TIP: The "Restorepoint Base Config" configuration object contains all of the required variables. Simply update the variables from that object to match your SL1 and Restorepoint settings.

To create a configuration object based on the "Restorepoint Base Config" configuration object:

1. In the PowerFlow user interface, go to the **Configurations** page ( ).
2. Click the **[Actions]** button ( ) for the "Restorepoint Base Config" configuration object and select *Edit*. The **Configuration** pane appears.
3. Click **[Copy as]**. The **Create Configuration** pane appears.
4. Complete the following fields:
   - ***Friendly Name***. Name of the configuration object that will display on the **Configurations** page.
   - ***Description***. A brief description of the configuration object.
   - ***Author***. User or organization that created the configuration object.
   - ***Version***. Version of the configuration object.
5. In the ***Configuration Data*** field, update the default variable definitions to match your PowerFlow configuration:
   - ***sl1_url***. Type the URL for your associated SL1 system.
   - ***sl1_user***. Type the username for your SL1 system.
   - ***sl1_password***. Type the password for your SL1 system.
   - ***sl1_db_host***. Type the URL for your associated SL1 database.
   - ***sl1_db_user***. Type the username for your SL1 database.
   - ***sl1_db_password***.Type the password for your SL1 database.
   - ***restorepoint_url***. Type the URL for your associated Restorepoint system.
   - ***restorepoint_api_token***. Type the API token for your Restorepoint system. See the *Obtaining the API Token in Restorepoint* section for steps on getting the token.
   - ***default_restorepoint_device_type***. Type the default device type for your Restorepoint system.
   - ***default_backup_interval***. Type the default time for the Backup Interval for your Restorepoint device.

> **NOTE:** The value for the default_backup_interval field uses the following format: *second minute hour * * * * @0@@0@0*. The default value for version 2.1.0 is *0 15 * * * * *

   - ***create_custom_link***. Type a value to create an optional custom link from SL1 to Restorepoint.

> **NOTE:** If you are running SL1 platform version 10.2.0 or later and have custom links enabled, you can set the value to *1* to automatically add the custom link definition for Restorepoint. The default value is *False/0*.

- ***restorepoint_ui_url***. Type an optional user access URL that is different than the Restorepoint URL that is used to integrate with PowerFlow.
- ***restorepoint_config***. Type *Enable* or *Disable* to allow device change detection.

> **NOTE:** The ***restorepoint_config*** feature requires SL1 platform version 11.2.0 or later. If you are using an earlier version of SL1, this field should always be set to its default value: *Disable*.

- ***timestamp***. The "Restorepoint: Get List of Credentials" application queries SL1 for updated credentials and stores the last time that SL1 was queried. Type a value that specifies the number of hours for the application to query SL1 for updated credentials, if no previous time stamp is available (e.g. the first execution of the application). The application will update the credentials in Restorepoint that have been updated in SL1 within the specified number of hours.
- ***default_monitoring_monitor_device***. Type *True* or *False* to enable or disable device monitoring. The default value is *True*.
- ***default_monitoring_fail_after***. Type how many failed attempts to onboard a device before PowerFlow will stop attempting to discover the device.
- ***default_monitoring_is_ping_type***. Type *True* or *False* to enable or disable ICMP ping rather than TCP connection. The default value is *True*.
- ***default_monitoring_email_when_down***. Type *True* or *False* to enable or disable sending an email when the device is down. The default value is *False*.
- ***default_monitoring_email_when_up***. Type *True* or *False* to enable or disable sending an email when the device is back up. The default value is *True*.

6. The other optional values in the ***Configuration Data*** field require JSON code to edit their values. Click **[Toggle JSON Editor]** to show the JSON code.
7. In the ***Configuration Data*** field, be sure to include the required block of code to ensure that the applications aligned to this configuration object do not fail:

```
{
  "encrypted": false,
  "name": "sl1_db_host",
  "value": "${config.sl1_host}"
}
```

For example:

```
{
  "encrypted": false,
```

```
    "name": "sl1_db_host",

    "value": "10.2.11.42"

}
```

8. To create a configuration variable, define the following keys:

    - ***encrypted***. Specifies whether the value will appear in plain text or encrypted in the JSON file. If you set this to "true", when the value is uploaded, PowerFlow encrypts the value of the variable. The plain text value cannot be retrieved again by an end user. The encryption key is unique to each PowerFlow system. The value is followed by a comma.
    - ***name***. Specifies the name of the configuration file, without the JSON suffix. This value appears in the user interface. The value is surrounded by double-quotes and followed by a comma.
    - ***value***. Specifies the value to assign to the variable. The value is surrounded by double-quotes and followed by a comma.

9. Click **[Save]**. You can now align this configuration object with one or more applications.

Obtaining the API Token in Restorepoint

The following procedure is relevant for Restorepoint 5.4.0 and later.

To obtain your API token for the ***restorepoint_api_token*** Configuration Data field:

1. In Restorepoint, go to the **Users** page **(Administration > Users)** and click the **API Tokens** tab.
2. Click **Add Token** and give the token a new description.
3. Copy and paste the token into the ***restorepoint_api_token*** Configuration Data field for the Restorepoint configuration object.

Configuring the "Restorepoint: Sync Devices" Application

The next time you discover a device in SL1 and run the "Restorepoint: Sync Devices" application, any devices you discovered in SL1 that are aligned with the "Restorepoint Connectivity" Dynamic Application get added to Restorepoint. Those devices are also part of the Restorepoint Device Group.

If you include the SSH or telnet credential you created earlier in a discovery session, the "Restorepoint Connectivity" Dynamic Application is automatically aligned. Optionally, you can manually align the Dynamic Application with your devices using the credential. Based on the Dynamic Application alignment, the device is also automatically included in a Restorepoint Device Group. For more information about discovering a device in SL1, see the ***Discovery and Credentials*** manual .

To run the "Restorepoint: Sync Devices" application:

1. Go to the **Applications** page and select the "Restorepoint: Sync Devices" application.
2. Click the **[Configuration]** button. The Configuration pane appears.

3. In the ***Configuration*** drop-down, select a configuration object for this application. In most cases, this is the configuration object based on the "Restorepoint Base Config" configuration object.
4. Update the remaining fields as needed, and then click **[Save]**.
5. Click the **[Run]** button. The following actions occur:
    - If the SL1 organization exists as a domain in Restorepoint, the device is added to that domain. Otherwise, a new domain is created in Restorepoint that maps to the SL1 organization.
    - If needed, a new credential is created in Restorepoint that maps to the new SL1 credential.
    - A new device is added in Restorepoint that maps to the new device in SL1 :
        - The device is associated with the appropriate domain and credential.
        - The device is associated with an agent that maps to the SL1 Data Collector monitoring that device, using a pre-defined mapping from the "Restorepoint Base Config" configuration object.
        - The device is configured with a plugin that maps to the SL1 Device Class for that device, using a pre-defined mapping from the "Restorepoint Base Config" configuration object.

Configuring the "Restorepoint: Get the List of Logs from Restorepoint" Application

The "Restorepoint: Get the List of Logs from Restorepoint" application queries the Restorepoint API to collect backup success and failure logs from Restorepoint to generate events in SL1.

You can use PowerFlow to compare the logs to make sure the backups ran successfully in Restorepoint.

To run the "Restorepoint: Get the List of Logs from Restorepoint" application:

1. Go to the **Applications** page and select the "Restorepoint: Get the List of Logs from Restorepoint" application.
2. Click the **[Configuration]** button. The **Configuration** pane appears.
3. In the ***Configuration*** drop-down, select *the configuration object you created earlier*.
4. In the ***restorepoint_config*** field, select *Enable* or *Disable* to allow device change detection. You should select the same value you entered in the selected configuration object. This option requires SL1 platform version 11.2.0 or later. If you are using an earlier version of SL1, this field should always be set to its default value: *Disable*
5. Update the remaining fields as needed, and then click **[Save]**.
6. Click the **[Run]** button.

TIP: You should schedule this application to run on a schedule, such as once a week or more if you frequently back up devices in Restorepoint. For more information, see *Scheduling PowerFlow Applications*.

Configuring the "Restorepoint: Get list of credentials from SL1" Application

The "Restorepoint: Get list of credentials from SL1" application queries SL1 for existing credentials and matches them against credentials in Restorepoint. If there is a change to the credential in SL1 and the credential exists in Restorepoint, the credential is updated with the new information.

To run the "Restorepoint: Get list of credentials from SL1" application:

1. Go to the **Applications** page and select the "Restorepoint: Get list of credentials from SL1" application.
2. Click the **[Configuration]** button. The **Configuration** pane appears.
3. In the ***Configuration*** drop-down, select *the configuration object you created earlier*.
4. Update the remaining fields as needed, and then click **[Save]**.
5. Click the **[Run]** button.

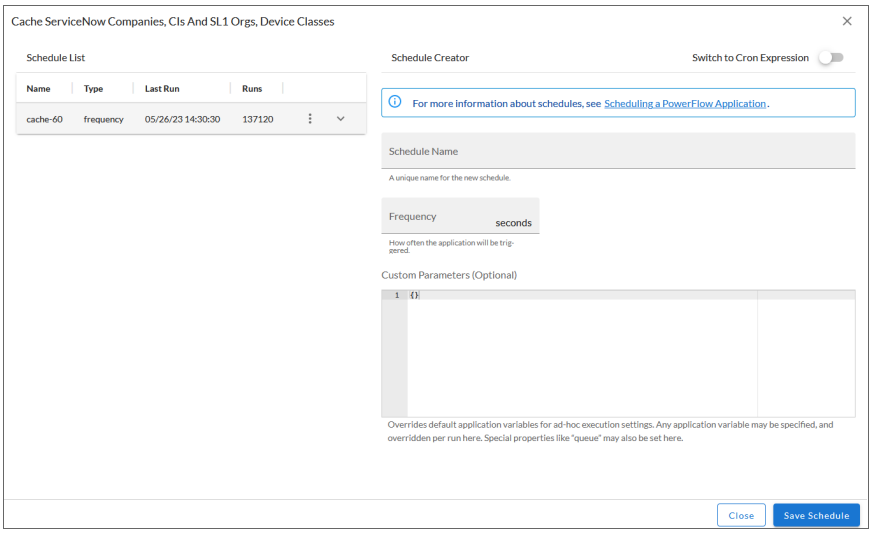
You should schedule this application to run on a schedule, such as once a week. For more information, see *Scheduling PowerFlow Applications*.

Scheduling PowerFlow Applications

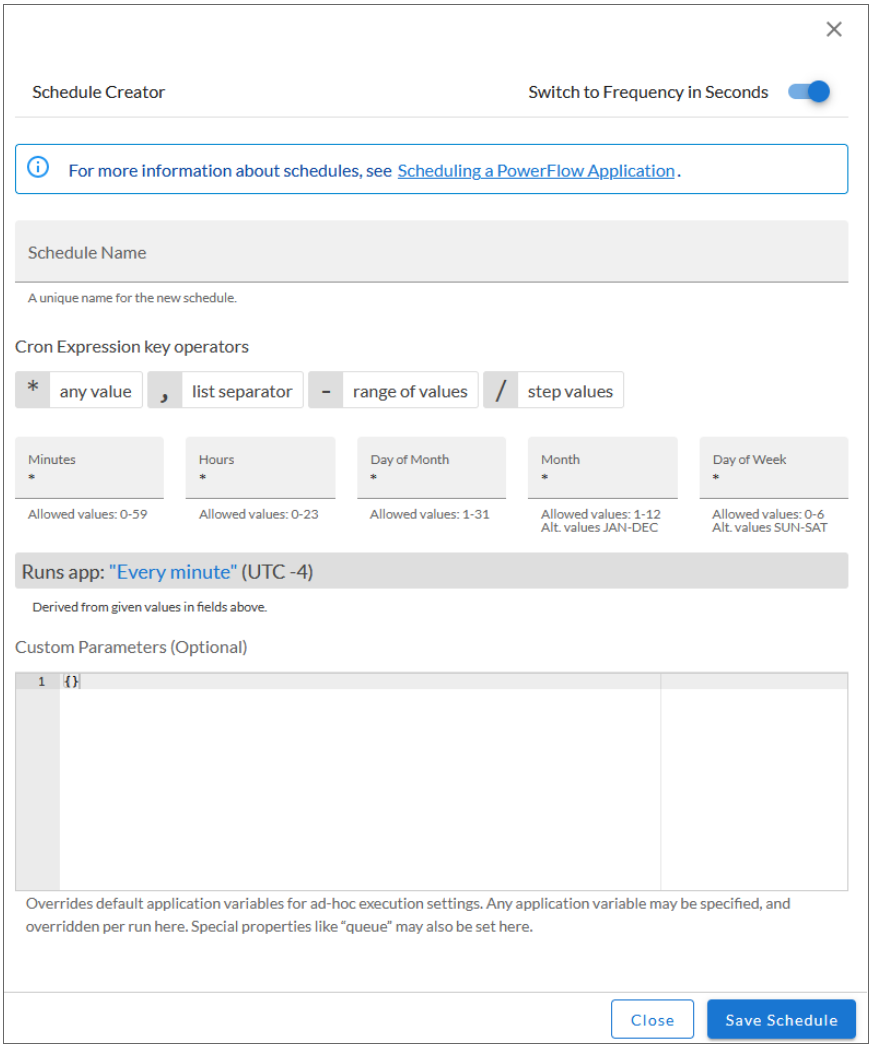
You can create one or more schedules for a single application in the PowerFlow user interface. When creating each schedule, you can specify the queue and the configuration file for that application.

To schedule an application:

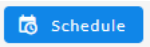
1. On the **Applications** page (), click the **[Schedule]** button for the application you want to schedule. The **Scheduler** window appears:



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:



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.

5. 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:


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.

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