SL1: Execution Environment Check PowerPack Release Notes

Version 100

Overview

Version 100 of the "SL1: Execution Environment Check" PowerPack includes a Dynamic Application you can use to detect problematic execution environments that may have difficulty running or working properly after upgrading to SL1 version 12.1.2.

- **Minimum Required SL1 Version**: 11.3.1

All Snippet Dynamic Applications include a linked execution environment that includes any libraries needed for the snippet to run. SL1 version 12.1.2 includes a change to better isolate these environments, so one bad library does not break other Dynamic Applications.

However, these changes in SL1 12.1.2 cause some execution environments to no longer work properly after upgrading to 12.1.2, which in turn can cause multiple PowerPacks that use those problematic execution environments to not run after you upgrade.

For more information about the specific issues that can cause an execution environment in SL1 12.1.2 to not deploy or function correctly post-upgrade, see the following knowledge base article: https://support.sciencelogic.com/s/article/15301

For the 12.1.2 release, you should download and install the "SL1: Execution Environment Check" v100 PowerPack, which includes a Dynamic Application that can be used to detect execution environments that will fail to deploy or fail to work after they are deployed.

This PowerPack can be run on SL1 versions 11.3.1 to 12.1.2, so ScienceLogic recommends performing this check ***before you upgrade to 12.1.2***, so long as you're currently on version 11.3.1 or later.

This document covers the following topics:

- *The features included in version 100*
- *The installation process for the PowerPack*
- *Using the PowerPack to Check for Problematic Execution Environments*
- *Resolving Library Issues with Problematic Execution Environments*

Included Features

The "SL1: Execution Environment Check" PowerPack v100 includes:

- One Dynamic Application, "SL1: 12.1.2 Execution Environment Check," which detects potentially problematic execution environments that may have difficulty running or working properly after upgrading to SL1 version 12.1.2.

Installation Process

To install version 100 of the "SL1: Execution Environment Check" PowerPack, perform the following steps:

1. Ensure that you are running a version of SL1 between 11.3.1 and 12.1.2.
2. From the **PowerPacks** page (Product Downloads > PowerPacks & SyncPacks) at the ScienceLogic Support Site, search for and download the "SL1: Execution Environment Check" v100 PowerPack.
3. In SL1, go to the **PowerPacks** page (System > Manage > PowerPacks).
4. Click the **[Actions]** menu and choose *Import PowerPack*. The **Import PowerPack** modal appears.
5. Click **[Browse]** and navigate to the "SL1: Execution Environment Check" v100 PowerPack file that you downloaded in step 2.
6. Select the PowerPack file and click **[Import]**. The **PowerPack Installer** modal displays a list of the PowerPack contents.
7. Click **[Install]**. The PowerPack is added to the **PowerPack Manager** page.

Using the PowerPack to Check for Problematic Execution Environments

After you have installed the "SL1: Execution Environment Check" v100 PowerPack, you must create a virtual device on which you can run the Dynamic Application that is included in the PowerPack, and then review the data collected from that Dynamic Application to determine which execution environments might not run properly in SL1 12.1.2.

To do so:

1. Go to the **Device Manager** page (Devices > Device Manager).
2. Click the **[Actions]** button and select *Create Virtual Device* from the menu. The **Virtual Device** modal page appears.
3. Enter values in the following fields:
   - ***Device Name***. Enter a name for the device.
   - ***Organization***. Select the organization for this device.
   - ***Device Class***. Select any device class.
   - ***Collector***. Select a collector group.

   NOTE: The Dynamic Application you will need to run on the virtual device will fully use one CPU core while it is running. Therefore, ScienceLogic recommends selecting a collector group that is not already overloaded, as doing so could impact data collection.
4. Click **[Add]** to create the virtual device.
5. You must now manually align the "SL1: 12.1.2 Execution Environment Check" Dynamic Application, which was included in the PowerPack, to your new virtual device. To do so, go to the **Devices** page (Devices > Devices).

6. Locate your new virtual device and click its name to open the **Device Investigator**.
7. In the **Device Investigator**, click the **[Collections]** tab.
8. Click the **[Edit]** button at the top of the page, then click the **[Align Dynamic App]** button.
9. In the **Align Dynamic Application** modal, click *Choose Dynamic Application*.
10. Locate the "SL1: 12.1.2 Execution Environment Check" Dynamic Application and click **[Select]**.
11. In the **Align Dynamic Application** modal, de-select the ***Use Device SNMP Credential*** checkbox. Click the ***Choose Credential*** option that appears.
12. Select any credential ***except*** the default SNMP credential, and click **[Select]**.
13. Click **[Align Dynamic App]** to align the Dynamic Application with the virtual device. The Dynamic Application appears on the Collections tab.
14. On the **[Collections]** tab, click the ***Poll Frequency*** value for the "SL1: 12.1.2 Execution Environment Check" Dynamic Application. A sidebar opens where you can edit the Dynamic Application properties.
15. In the Poll Frequency field, select *5 minutes*, and then click **[Save]**.
16. Wait at least 5 minutes for collection to run.
17. From the **Device Investigator**, click the **[Configs]** tab and check results from the collection. This page shows the results of the collection from the "SL1: 12.1.2 Execution Environment Check" Dynamic Application, and indicates the following information for each execution environment:
    - ***Environment GUID***. The execution environment's globally unique identifier.
    - ***Environment Name***. The name of the execution environment.
    - ***Deploys?*** Indicates whether the execution environment will deploy successfully on SL1 12.1.2.
    - ***Script Runs?*** Indicates whether the execution environment will be able to run Dynamic Applications successfully in SL1 12.1.2.
18. For each environment that has a "No" value in the ***Deploys?*** or ***Script Runs?*** columns, SL1 will trigger an event that appears on the **Events** page as well as on the **[Events]** tab of the **Device Investigator** for the virtual device you created.

NOTE: After noting which execution environments have a "No" value in the ***Deploys?*** or ***Script Runs?*** columns, you should change the polling frequency for the "SL1: 12.1.2 Execution Environment Check" Dynamic Application to 24 hours, so the Dynamic Application stops performing collection every 5 minutes. To do so, go to the **Devices** page and locate the virtual device you previously created. Click its name to open the **Device Investigator**, and then click the **[Collections]** tab. Click **[Edit]**, and then click the ***Poll Frequency*** value for the "SL1: 12.1.2 Execution Environment Check" Dynamic Application. On the sidebar that opens, change the ***Poll Frequency*** value to *24 hours*, and then click **[Save]**.

Resolving Library Issues with Problematic Execution Environments

If the "SL1: 12.1.2 Execution Environment Check" Dynamic Application indicated that you have problematic execution environments, see the following knowledge base article for resolution steps: https://support.sciencelogic.com/s/article/15301

NOTE: When you are finished resolving these issues and you have confirmed that all execution environments are updated properly, you should disable the "SL1: 12.1.2 Execution Environment Check" Dynamic Application. To do so, go to the **Dynamic Applications Manager** page (System > Manage > Dynamic Applications) and locate the "SL1: 12.1.2 Execution Environment Check" Dynamic Application. Click its wrench icon. On the **Dynamic Applications Properties Editor** modal, in the ***Operational State*** field, select *Disabled*. Then click **[Save]**.

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