



Monitoring RabbitMQ Systems

Beta Version

AMQP: RabbitMQ PowerPack version 102

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Chapter

1

Introduction

Overview

This manual describes how to monitor HPE: Edge Connect (Silver Peak) systems in SL1 using the Dynamic Applications in the HPE: Edge Connect (Silver Peak) PowerPack.

The following sections provide an overview of RabbitMQ and the *AMQP: RabbitMQ* PowerPack:

This chapter covers the following topics:

<i>What is RabbitMQ?</i>	3
<i>What Does the AMPQ: RabbitMQ PowerPack Monitor?</i>	4
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What is RabbitMQ?

RabbitMQ is a message broker that uses the Advanced Message Queuing Protocol. RabbitMQ can be installed on servers running Linux or Windows.

What Does the AMPQ: RabbitMQ PowerPack Monitor?

To monitor RabbitMQ using SL1, you must install the *AMPQ: RabbitMQ* PowerPack. This PowerPack enables you to collect data about the RabbitMQ application. The *AMPQ: RabbitMQ* PowerPack can monitor RabbitMQ systems running version 3.5.1 and later.

The *AMPQ: RabbitMQ* PowerPack includes:

- An example credential you can use as a template to create a Basic/Snippet credential to connect to the RabbitMQ API
- Dynamic Applications to monitor performance metrics and collect configuration data for RabbitMQ
- A Device Class that can be manually aligned to a device on which a RabbitMQ system is installed
- Event Policies and corresponding alerts that are triggered when a RabbitMQ system meets certain status criteria

Installing the AMPQ: RabbitMQ PowerPack

Before completing the steps in this manual, you must import and install the latest version of the *AMPQ: RabbitMQ* 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.)

IMPORTANT: The minimum required MySQL version is 5.6.0.

To download and install the PowerPack:

1. Search for and download the PowerPack from the **PowerPacks** page (Product Downloads > PowerPacks & SyncPacks) at the [ScienceLogic Support Site](#).
2. In SL1, go to the **PowerPacks** page (System > Manage > PowerPacks).
3. Click the **[Actions]** button and choose *Import PowerPack*. The **Import PowerPack** dialog box appears.
4. Click **[Browse]** and navigate to the PowerPack file from step 1.
5. Select the PowerPack file and click **[Import]**. The **PowerPack Installer** modal displays a list of the PowerPack contents.
6. Click **[Install]**. The PowerPack is added to the **PowerPacks** page.

NOTE: If you exit the **PowerPack Installer** modal without installing the imported PowerPack, the imported PowerPack will not appear in the **PowerPacks** 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

Credentials and Discovery

Overview

The following sections describe how to configure and discover a RabbitMQ system for monitoring by SL1 using the *AMQP: RabbitMQ* PowerPack:

This chapter covers the following topics:

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Prerequisites for Monitoring RabbitMQ

To configure SL1 to monitor a RabbitMQ system using the *AMQP: RabbitMQ* PowerPack, you must first have the following information:

- The IP address of the server running the RabbitMQ system
- The username and password for a RabbitMQ user that has read permission to the RabbitMQ API. For information about configuring users in RabbitMQ, see <https://www.rabbitmq.com/management.html>.


Creating a Credential for RabbitMQ

To configure SL1 to monitor a RabbitMQ system, you must first create a Basic/Snippet credential. This credential allows the Dynamic Applications in the *AMQP: RabbitMQ* PowerPack to communicate with your RabbitMQ

system.

The PowerPack includes an example Basic/Snippet credential that you can edit for your own use.

To configure a Basic/Snippet credential to access a RabbitMQ system:

1. Go to the **Credential Management** page (System > Manage > Credentials).
2. Locate the **RabbitMQ - EXAMPLE** credential, then click its wrench icon (). The **Edit Basic/Snippet Credential** modal page appears.
3. Enter values in the following fields:
 - **Profile Name**. Enter a name for the RabbitMQ credential.
 - **Hostname/IP**. Use the provided "http://%D".

NOTE: The IP address in the **Hostname/IP** field must be preceded by "http://".



- **Username**. Enter the username for a RabbitMQ user that has read permission to the RabbitMQ API.
 - **Password**. Enter the password for the user you entered in the **Username** field.
4. Leave all other fields set to the default values. Click the **[Save As]** button.

Discovering RabbitMQ Devices

To monitor your RabbitMQ system, you must run a discovery session to discover the server on which RabbitMQ is installed.

To discover the server on which RabbitMQ is installed, perform the following steps:

1. Go to the **Discovery Control Panel** page (System > Manage > Classic Discovery).
2. In the **Discovery Control Panel**, click the **[Create]** button.
3. The **Discovery Session Editor** page appears. In the **Discovery Session Editor** page, define values in the following fields:
 - **IP Address/Hostname Discovery List**. Enter the IP address for the server on which RabbitMQ is installed.
 - **SNMP Credentials**. Optionally, select the SNMP credential for the Linux or Windows server you are discovering.
 - **Other Credentials**. Select the Basic/Snippet credential you created for the RabbitMQ API.
 - **Discover Non-SNMP**. Select this checkbox.
4. Optionally, you can enter values in the other fields on this page. For more information about the other fields on this page, see the **Discovery & Credentials** manual.
5. Click the **[Save]** button to save the discovery session and then close the **Discovery Session Editor** window.

6. The discovery session you created appears at the top of the **Discovery Control Panel** page. Click its lightning-bolt icon () to run the discovery session.
7. The **Discovery Session** window appears. When the device is discovered, click the device icon () to view the **Device Properties** page for the device.

Verifying Discovery and Dynamic Application Alignment

To verify that SL1 automatically aligned the correct Dynamic Applications during discovery:

1. From the **Device Properties** page for the server on which RabbitMQ is installed, click the **[Collections]** tab. The **Dynamic Application Collections** page appears.
2. All applicable Dynamic Applications for RabbitMQ are automatically aligned during discovery.

NOTE: It can take several minutes after the discovery session has completed for Dynamic Applications to appear in the **Dynamic Application Collections** page.

The following Dynamic Applications should be aligned to the device:

- AMQP: RabbitMQ Configuration
- AMQP: RabbitMQ Performance



If the listed Dynamic Applications have not been automatically aligned during discovery, you can align them manually. To do so, perform the following steps:

1. Click the **[Action]** button and then select *Add Dynamic Application*. The **Dynamic Application Alignment** page appears.
2. In the **Dynamic Applications** field, select the Dynamic Application you want to align.
3. In the **Credentials** field, select the Basic/Snippet credential you created for the RabbitMQ API.
4. Click the **[Save]** button.
5. Repeat steps 1-4 for the other unaligned Dynamic Applications.

Aligning the RabbitMQ Device Class

By default, SL1 discovers the server running the RabbitMQ system as a Linux, Windows, or Pingable device. Optionally, you can align the AMQP | RabbitMQ device class to the device.

To align the device class:

1. Go to the **Device Manager** page (Registry > Devices > Device Manager).
2. Find the device you want to edit. Click its wrench icon ()
3. In the **Device Properties** page, find the *Device Class* field. Click the toolbox icon ()

4. In the **Select New Device Class** modal page, select the AMQP | RabbitMQ device class.
5. Click the **[Apply]** button.
6. In the **Device Properties** page, deselect the **Auto-Update** checkbox.
7. Click the **[Save]** button.

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