

Monitoring RabbitMQ Systems

Beta Version

AMPQ: RabbitMQ PowerPack version 100

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Chapter

1

Introduction

Overview

This manual describes how to monitor RabbitMQ systems using the the ScienceLogic platform.

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What is RabbitMQ?

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

Prerequisites

Before performing the tasks in this manual, you must have the following information about the RabbitMQ system that you want to monitor:

- 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.

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What Does the AMPQ: RabbitMQ PowerPack Monitor?

To monitor RabbitMQ using the ScienceLogic platform, 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 version 100 of the AMPQ: RabbitMQ PowerPack.

NOTE: To install version 100 of the AMPQ: RabbitMQ PowerPack, your ScienceLogic system must be upgraded to the 8.2.0 or later release.

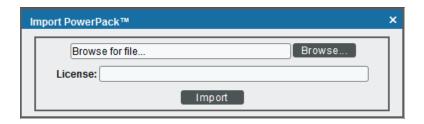
To download and install a PowerPack:

TIP: By default, installing a new version of a PowerPack overwrites all content in 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.)

- 1. Download the PowerPack from the ScienceLogic Customer Portal.
- 2. Go to the **PowerPack Manager** page (System > Manage > PowerPacks).
- 3. In the **PowerPack Manager** page, click the **[Actions]** button, then select *Import PowerPack*.

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4. The **Import PowerPack** dialog box appears:



- 5. Click the [Browse] button and navigate to the PowerPack file.
- 6. When the PowerPack Installer modal page appears, click the [Install] button to install the PowerPack.

NOTE: If you exit the PowerPack Installer modal page 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 page. This page appears when you click the [Actions] menu and select Install PowerPack.

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Chapter

2

Discovering RabbitMQ Systems

Overview

The following sections describe the steps required to discover a RabbitMQ system in the ScienceLogic platform:

- Creating a Credential for RabbitMQ
- Discovering RabbitMQ Devices
- Verifying Discovery and Dynamic Application Alignment
- Aligning the RabbitMQ Device Class

Creating a Credential for RabbitMQ

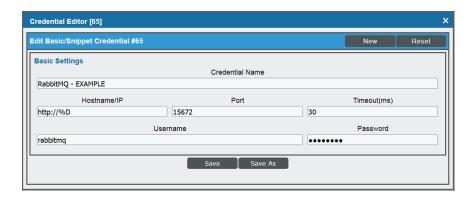
To configure the ScienceLogic platform to monitor a RabbitMQ system, you must first create a Basic/Snippet credential. This credential allows the platform (specifically, the Dynamic Applications in the AMPQ: RabbitMQ PowerPack) to communicate with your RabbitMQ system.

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.
- 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.

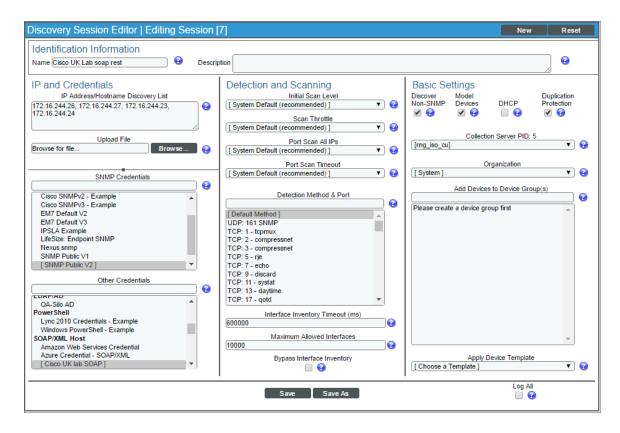
Discovering RabbitMQ Devices

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 > 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:



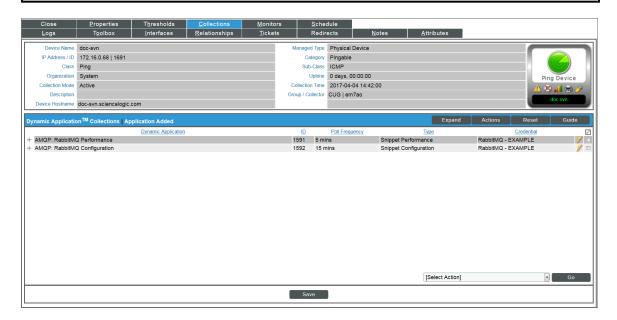
- IP Address/Hostname Discovery List. Enter the IP address for the server on which RabbitMQ is installed.
- **SNMP Credentials**. Optionally, select the SNMP credential for the Linux or Windows server you are discovering.
- Other Credentials. Select the Basic/Snippet credential you created for the RabbitMQ 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 the ScienceLogic platform 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.



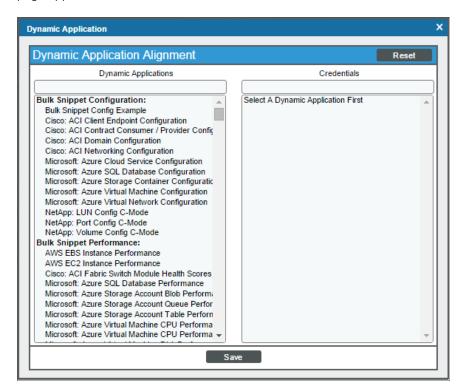
The following Dynamic Applications should be aligned to the device:

• 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:



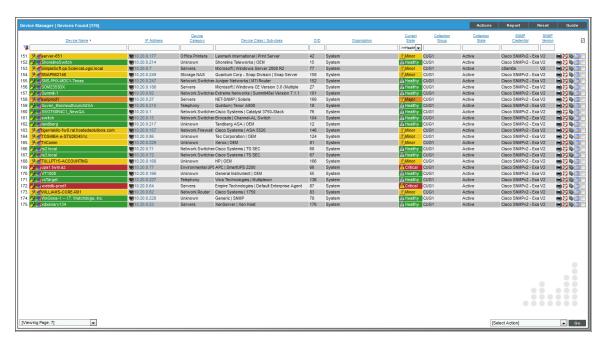
- 2. In the **Dynamic Applications** field, select the Dynamic Application you want to align.
- 3. In the Credentials field, select the Basic/Snippet credential you created for the RabbitMQ API.
- 4. Click the [Save] button.
- 5. Repeat steps 1-4 for the other unaligned Dynamic Applications.

Aligning the RabbitMQ Device Class

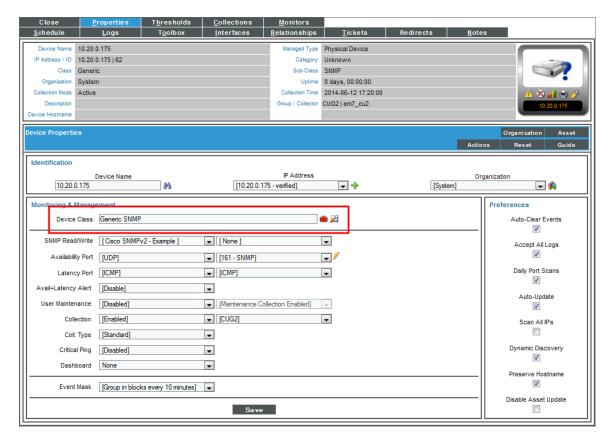
By default, the ScienceLogic platform discovers the server running the RabbitMQ system as a Linux, Windows, or Pingable device. Optionally, you can align the AMQP | RabbitMQ device class to the device. To do this:

1. Go to the **Device Manager** page (Registry > Devices > Device Manager).

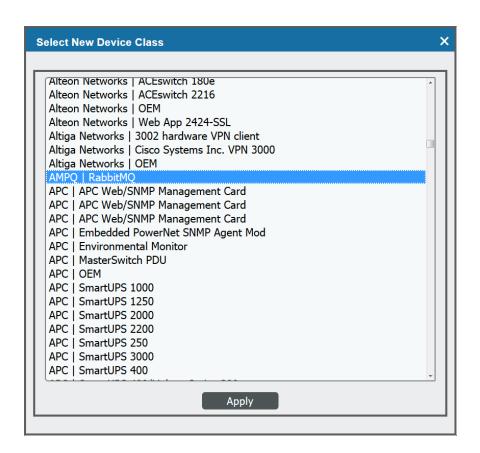
2. Find the device you want to edit. Click its wrench icon ().



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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