



Monitoring Couchbase

CouchBase PowerPack version 100

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Chapter

1

Introduction

Overview

This manual describes how to monitor Couchbase servers and component devices in SL1 using the CouchBase PowerPack.

The following sections provide an overview of Couchbase and the CouchBase PowerPack:

This chapter covers the following topics:

<i>What is Couchbase?</i>	3
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What is Couchbase?

Couchbase Server is an open-source database software that can be used for building scalable, interactive, high-performance applications. Built using NoSQL technology, Couchbase Server can be used in either a standalone or cluster configuration. It includes some of the following components:

- Nodes
- Pools
- Buckets
- Services

NOTE: For definitions of these terms, see the [Couchbase Glossary](#).

What Does the Couchbase PowerPack Monitor?

The *CouchBase* PowerPack includes the following features:

- Dynamic Applications to discover and monitor Couchbase devices
- Device Classes for each of the Couchbase devices monitored
- Event policies that are triggered when Couchbase devices meet certain status criteria
- An example SOAP/XML credential for discovering Couchbase devices

Installing the Couchbase PowerPack

Before completing the steps in this manual, you must import and install the latest version of the *CouchBase* 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

Configuration and Discovery

Overview

The following sections describe how to configure Couchbase servers for monitoring by SL1 using the CouchBase PowerPack:

This chapter covers the following topics:

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Prerequisites for Monitoring Couchbase


To configure SL1 to monitor Couchbase servers and component devices using the CouchBase PowerPack, you must have the login credentials for a user with administrative access to the Couchbase server.

Creating a Couchbase Credential

To use the Dynamic Applications in the CouchBase PowerPack, you must first define a credential in SL1. This credential enables the Dynamic Applications in the CouchBase PowerPack to monitor your Couchbase component devices. The PowerPack includes a sample SOAP/XML credential (**Couchbase Sample Credential**) that you can use as a template.

To define a Couchbase credential:

1. Go to the **Credential Management** page (System > Manage > Credentials).



2. Click the wrench icon () for the **Couchbase Sample Credential**. The **Credential Editor** modal page appears:
3. Enter values in the following fields:
 - **Profile Name**. Type a new name for your Couchbase credential.
 - **URL**. Type the URL for the Couchbase server, or use the default value.
 - **HTTP Auth User**. Type the username for a user with administrative access to the Couchbase server.
 - **HTTP Auth Password**. Type the Couchbase administrator user's password.


Use the default values for the remaining fields.
4. Click the **[Save As]** button, and then click **[OK]**.

Discovering Couchbase Devices

To discover Couchbase devices, you must create and run a discovery session that will discover the Couchbase server. You must then manually align the "Couchbase: Pool Discovery" Dynamic Application to the Couchbase server device.

To discover Couchbase devices:

1. Go to the **Discovery Control Panel** page (System > Manage > Classic Discovery).
2. Click the **[Create]** button to create a new discovery session. The **Discovery Session Editor** window appears:
3. Edit the following fields in the **Discovery Session Editor** window:
 - **Name**. Type a name for the discovery session.
 - **IP Address/Hostname Discovery List**. Type the IP address for the Couchbase server.
 - **Other Credentials**. Select the SOAP/XML credential you created for Couchbase.
 - **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 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 Couchbase is discovered, click its device icon () to view the **Device Properties** page for the Couchbase server.
8. From the **Device Properties** page, click the **[Collections]** tab. The **Dynamic Application Collections** page appears.

9. On the **Dynamic Application Collections** page, click the **[Actions]** button and then select *Add Dynamic Application*. The **Dynamic Application Alignment** pane appears.
10. In the **Dynamic Applications** field, select *Couchbase: Pool Discovery*.
11. In the **Credentials** field, select the SOAP/XML credential you created for Couchbase.
12. Click **[Save]**. The Dynamic Application appears on the **Dynamic Application Collections** page.
13. To run the "Couchbase: Pool Discovery" Dynamic Application immediately, click its lightning bolt icon ().

Viewing Couchbase Component Devices

In addition to the **Device Manager** page (Registry > Devices > Device Manager), you can view Couchbase component devices in the following places in the user interface:

- The **Device View** modal page displays a map of a particular device and all of the devices with which it has parent-child relationships. Double-clicking any of the devices listed reloads the page to make the selected device the primary device:
- The **Device Components** page (Registry > Devices > Device Components) displays a list of all root devices and component devices discovered by SL1 in an indented view, so you can easily view the hierarchy and relationships between child devices, parent devices, and root devices. To view the component devices associated with Couchbase, find the Couchbase device and click its plus icon (+):
- The **Component Map** page (Classic Maps > Device Maps > Components) allows you to view devices by root node and view the relationships between root nodes, parent components, and child components in a map. This makes it easy to visualize and manage root nodes and their components. SL1 automatically updates the **Component Map** as new component devices are discovered. The platform also updates each map with the latest status and event information. To view the map for Couchbase, go to the **Component Map** page and select the map from the list in the left NavBar. To learn more about the **Component Map** page, see the **Views** manual.

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