



Monitoring Cisco Unified Computing System Standalone Rack Servers

Cisco: UCS Standalone Rack Server PowerPack Version 101

Table of Contents

Introduction to Monitoring Cisco UCS Standalone Rack Servers	3
Overview	3
Prerequisites	3
What Does the Cisco: UCS Standalone Rack Server PowerPack Monitor?	4
Installing the Cisco: UCS Standalone Rack Server PowerPack	4
Monitoring Cisco UCS Standalone Rack Servers	6
Overview	6
Configuring a SOAP/XML Credential	6
Discovering a UCS Rack Server	8

Introduction to Monitoring Cisco UCS Standalone Rack Servers

Overview

This manual describes how to configure the ScienceLogic platform to monitor Cisco Unified Computing System (UCS) standalone rack servers.

NOTE: ScienceLogic provides this documentation for the convenience of ScienceLogic customers. Some of the configuration information contained herein pertains to third-party vendor software that is subject to change without notice to ScienceLogic. ScienceLogic makes every attempt to maintain accurate technical information and cannot be held responsible for defects or changes in third-party vendor software. There is no written or implied guarantee that information contained herein will work for all third-party variants. See the End User License Agreement (EULA) for more information.

Prerequisites

Before performing the steps listed in this manual, you must know the username and password for a web service user on the Cisco UCS standalone rack servers you want to monitor.

What Does the Cisco: UCS Standalone Rack Server PowerPack Monitor?

To monitor Cisco UCS standalone rack servers using the ScienceLogic platform, you must install the *Cisco: UCS Standalone Rack Server PowerPack*. This PowerPack includes:

- An example credential that you can use as a template to create SOAP/XML credentials to connect to the Cisco UCS standalone rack servers you want to monitor
- Dynamic Applications to discover, model, and monitor performance metrics and collect configuration data for Cisco UCS standalone rack servers.
- Device Classes for each of the Cisco UCS standalone rack servers the ScienceLogic platform monitors
- Event Policies and corresponding alerts that are triggered when Cisco UCS standalone rack servers meet certain status criteria
- A Device Template that you can apply during discovery to align Dynamic Applications to the appropriate Device Classes
- A Device Dashboard that displays information about Cisco UCS standalone rack servers

Installing the Cisco: UCS Standalone Rack Server PowerPack

Before completing the steps in this manual, you must import and install version 101 of the *Cisco: UCS Standalone Rack Server PowerPack*.

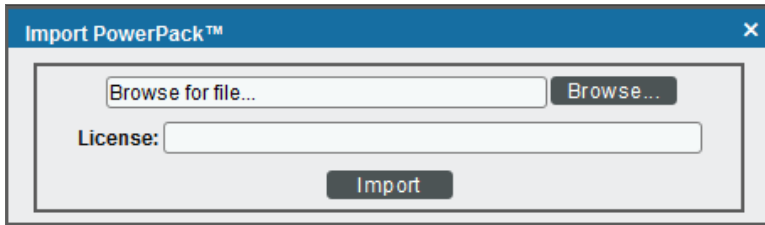
NOTE: To install version 101 of the *Cisco: UCS Standalone Rack Server PowerPack*, your ScienceLogic system must be upgraded to the 7.8.3 or later release. The Dynamic Applications in version 101 of the *Cisco: UCS Standalone Rack Server PowerPack* support Cisco UCS C-Series Rack Servers running firmware version 2.0 or later.

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*.

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*.

Monitoring Cisco UCS Standalone Rack Servers

Overview

This chapter describes how to:

- [Create a SOAP/XML credential for a Cisco UCS standalone rack server](#)
- [Discover a Cisco UCS standalone rack server in the ScienceLogic platform](#)


Configuring a SOAP/XML Credential

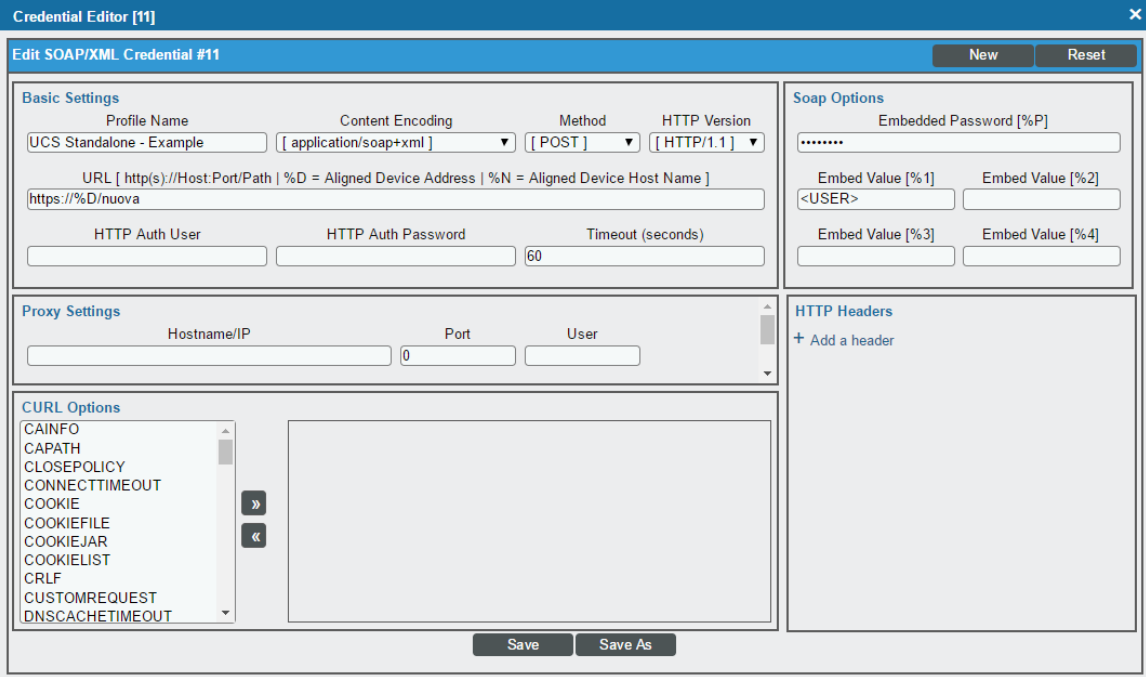
To use the Dynamic Applications in the *Cisco: UCS Standalone Rack Server PowerPack*, you must configure a SOAP/XML credential for the UCS web service.

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

To do so:

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

2. Locate the **UCS Standalone - Example** credential and click its wrench icon (). The **Edit SOAP/XML Credential** modal page appears.



The screenshot shows the 'Credential Editor [11]' window with the following fields and options:

- Basic Settings:**
 - Profile Name: UCS Standalone - Example
 - Content Encoding: application/soap+xml
 - Method: POST
 - HTTP Version: HTTP/1.1
 - URL: https://%D/nuova
 - HTTP Auth User: (empty)
 - HTTP Auth Password: (empty)
 - Timeout (seconds): 60
- Soap Options:**
 - Embedded Password [%P]: (empty)
 - Embed Value [%1]: <USER>
 - Embed Value [%2]: (empty)
 - Embed Value [%3]: (empty)
 - Embed Value [%4]: (empty)
- Proxy Settings:**
 - Hostname/IP: (empty)
 - Port: 0
 - User: (empty)
- CURL Options:**
 - CAINFO
 - CAPATH
 - CLOSEPOLICY
 - CONNECTTIMEOUT
 - COOKIE
 - COOKIEFILE
 - COOKIEJAR
 - COOKIELIST
 - CRLF
 - CUSTOMREQUEST
 - DNSCACHETIMEOUT

3. Supply values in the following fields:
 - **Profile Name.** Type a name for the credential.
 - **URL.** Type "https://%D/nuova".
 - **Embed Value [%1].** Type the username for a web service user on your UCS Rack Server.
 - **Embedded Password [%P].** Type the password for the user account on your UCS Rack Server.
4. Click the **[Save As]** button.



Discovering a UCS Rack Server

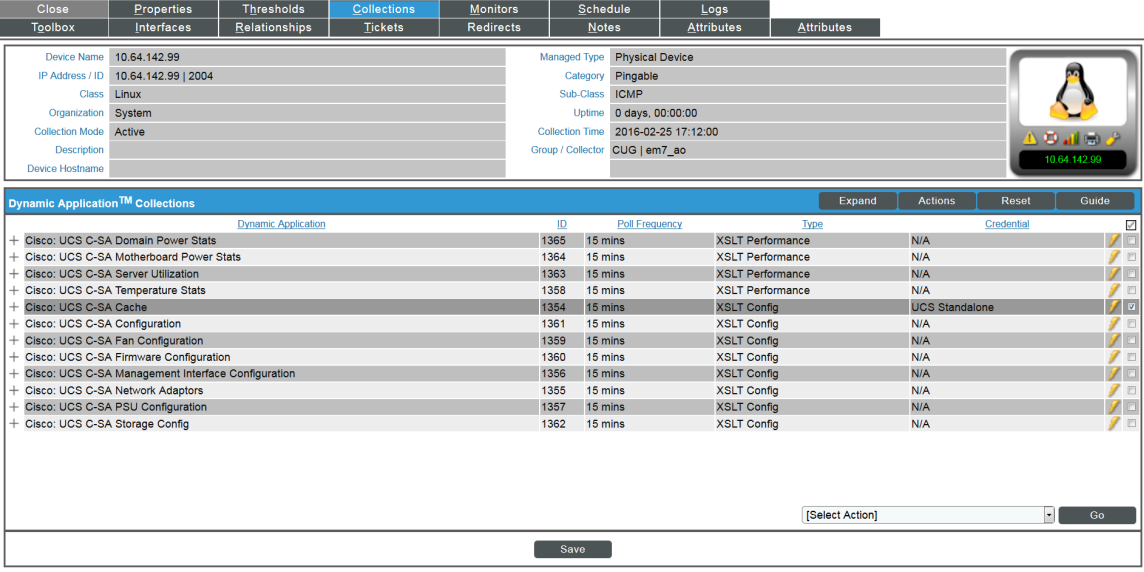
To create and run a discovery session that will discover a UCS Rack Server, perform the following steps:

1. Go to the **Discovery Control Panel** page (System > Manage > Discovery).
2. Click the **[Create]** button to create a new discovery session. The **Discovery Session Editor** window appears:

The screenshot shows the 'Discovery Session Editor | Create New' window. It is divided into three main sections: Identification Information, IP and Credentials, and Detection and Scanning, with a Basic Settings section on the right. The Identification Information section has fields for Name and Description. The IP and Credentials section includes an IP Address/Hostname Discovery List, an Upload File button, and a list of SNMP Credentials. The Detection and Scanning section has dropdown menus for Initial Scan Level, Scan Throttle, Port Scan All IPs, and Port Scan Timeout, and a list for Detection Method & Port. The Basic Settings section has checkboxes for Discover Non-SNMP, Model Devices, and DHCP, and fields for Device Model Cache TTL (h), Collection Server PID, and Organization. At the bottom, there is a Save button and a Log All checkbox.

3. Supply values in the following fields:
 - **IP Address Discovery List.** Type the IP address for the UCS Rack Server.
 - **SNMP Credentials.** If SNMP is enabled on your UCS Rack Server, select the appropriate SNMP credential.
 - **Initial Scan Level.** Select *5. Deep Discovery*.
 - **Detection Method & Port.** Select *443 - HTTPS*. You can select additional ports, but you must include port 443 - HTTPS.
 - **Discover Non-SNMP.** Select this checkbox.
 - **Apply Device Template.** Select *Cisco: UCS Standalone Template*.
4. Optionally, you can supply 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 displays 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 UCS Rack Server is discovered, click its device icon () to view the **Device Properties** page for the UCS Rack Server server.
8. Click the **[Collections]** tab. The **Dynamic Application Collections** page appears:



Dynamic Application	ID	Poll Frequency	Type	Credential	
+ Cisco: UCS C-SA Domain Power Stats	1365	15 mins	XSLT Performance	N/A	<input type="checkbox"/>
+ Cisco: UCS C-SA Motherboard Power Stats	1364	15 mins	XSLT Performance	N/A	<input type="checkbox"/>
+ Cisco: UCS C-SA Server Utilization	1363	15 mins	XSLT Performance	N/A	<input type="checkbox"/>
+ Cisco: UCS C-SA Temperature Stats	1358	15 mins	XSLT Performance	N/A	<input type="checkbox"/>
+ Cisco: UCS C-SA Cache	1354	15 mins	XSLT Config	UCS Standalone	<input checked="" type="checkbox"/>
+ Cisco: UCS C-SA Configuration	1361	15 mins	XSLT Config	N/A	<input type="checkbox"/>
+ Cisco: UCS C-SA Fan Configuration	1359	15 mins	XSLT Config	N/A	<input type="checkbox"/>
+ Cisco: UCS C-SA Firmware Configuration	1360	15 mins	XSLT Config	N/A	<input type="checkbox"/>
+ Cisco: UCS C-SA Management Interface Configuration	1356	15 mins	XSLT Config	N/A	<input type="checkbox"/>
+ Cisco: UCS C-SA Network Adaptors	1355	15 mins	XSLT Config	N/A	<input type="checkbox"/>
+ Cisco: UCS C-SA PSU Configuration	1357	15 mins	XSLT Config	N/A	<input type="checkbox"/>
+ Cisco: UCS C-SA Storage Config	1362	15 mins	XSLT Config	N/A	<input type="checkbox"/>

[Select Action]

9. Select the checkbox for the *Cisco: UCS C-SA Cache* Dynamic Application.
10. In the **Select Action** drop-down list, locate the *Assign SOAP/XML* section and select the credential you [created in the previous section](#).
11. Click the **[Go]** button.

© 2003 - 2017, ScienceLogic, Inc.

All rights reserved.

LIMITATION OF LIABILITY AND GENERAL DISCLAIMER

ALL INFORMATION AVAILABLE IN THIS GUIDE IS PROVIDED "AS IS," WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED. SCIENCELOGIC™ AND ITS SUPPLIERS DISCLAIM ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT.

Although ScienceLogic™ has attempted to provide accurate information on this Site, information on this Site may contain inadvertent technical inaccuracies or typographical errors, and ScienceLogic™ assumes no responsibility for the accuracy of the information. Information may be changed or updated without notice. ScienceLogic™ may also make improvements and / or changes in the products or services described in this Site at any time without notice.

Copyrights and Trademarks

ScienceLogic, the ScienceLogic logo, and EM7 are trademarks of ScienceLogic, Inc. in the United States, other countries, or both.

Below is a list of trademarks and service marks that should be credited to ScienceLogic, Inc. The ® and ™ symbols reflect the trademark registration status in the U.S. Patent and Trademark Office and may not be appropriate for materials to be distributed outside the United States.

- ScienceLogic™
- EM7™ and em7™
- Simplify IT™
- Dynamic Application™
- Relational Infrastructure Management™

The absence of a product or service name, slogan or logo from this list does not constitute a waiver of ScienceLogic's trademark or other intellectual property rights concerning that name, slogan, or logo.

Please note that laws concerning use of trademarks or product names vary by country. Always consult a local attorney for additional guidance.

Other

If any provision of this agreement shall be unlawful, void, or for any reason unenforceable, then that provision shall be deemed severable from this agreement and shall not affect the validity and enforceability of any remaining provisions. This is the entire agreement between the parties relating to the matters contained herein.

In the U.S. and other jurisdictions, trademark owners have a duty to police the use of their marks. Therefore, if you become aware of any improper use of ScienceLogic Trademarks, including infringement or counterfeiting by third parties, report them to Science Logic's legal department immediately. Report as much detail as possible about the misuse, including the name of the party, contact information, and copies or photographs of the potential misuse to: legal@sciencelogic.com



800-SCI-LOGIC (1-800-724-5644)

International: +1-703-354-1010