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# Monitoring Cisco Unified Computing System (UCS) Standalone Rack Servers

Cisco: UCS Standalone Rack Server PowerPack Version 102

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# Table of Contents

<b>Introduction</b> .....	<b>3</b>
What Are Cisco UCS Standalone Rack Servers? .....	3
What Does the Cisco: UCS Standalone Rack Server PowerPack Monitor? .....	4
Installing the Cisco: UCS Standalone Rack Server PowerPack .....	4
<b>Monitoring Cisco UCS Standalone Rack Servers</b> .....	<b>6</b>
Prerequisites for Monitoring Cisco UCS Standalone Rack Servers .....	6
Configuring a SOAP/XML Credential .....	6
Discovering a UCS Rack Server .....	8

# Chapter 1

## Introduction

### Overview

This manual describes how to monitor Cisco Unified Computing System (UCS) standalone rack servers in the ScienceLogic platform using the *Cisco: UCS Standalone Rack Server PowerPack*.

The following sections provide an overview of Cisco UCS standalone rack servers and the *Cisco: UCS Standalone Rack Server PowerPack*:

- [What Are Cisco UCS Standalone Rack Servers? ..... 3](#)
- [What Does the Cisco: UCS Standalone Rack Server PowerPack Monitor? ..... 4](#)
- [Installing the Cisco: UCS Standalone Rack Server PowerPack ..... 4](#)

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### What Are Cisco UCS Standalone Rack Servers?

Cisco UCS standalone rack servers are rack-mounted Cisco UCS servers that are managed by the Cisco Integrated Management Controller (CIMC) rather than the Cisco UCS Manager. This currently includes Cisco UCS C-Series and E-Series servers.

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## 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 that 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 type of Cisco UCS rack server that 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
- A Device Dashboard that displays information about Cisco UCS standalone rack servers
- A Run Book Action/Policy that assigns Cisco UCS rack servers to the correct Device Classes when they are discovered

**NOTE:** The CIMC XML API provides inconsistent data to the *Cisco: UCS Standalone Rack Server PowerPack* for servers with firmware versions prior to 2.0(8d). Similarly, the PowerPack cannot collect server utilization metrics for servers with M3 architecture, but it can collect this information for M4 models.

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## Installing the Cisco: UCS Standalone Rack Server PowerPack

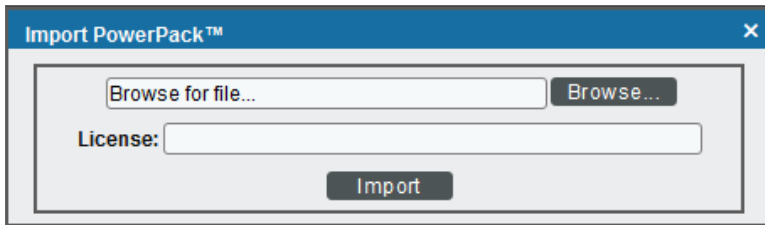
Before completing the steps in this manual, you must import and install the latest version of the *Cisco: UCS Standalone Rack Server PowerPack*.

**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.)

To download and install a PowerPack:

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

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### Overview

The following sections describe how to configure and discover a Cisco Unified Computing System (UCS) Rack Server for monitoring by the ScienceLogic platform using the *Cisco: UCS Standalone Rack Server* PowerPack:

<i>Prerequisites for Monitoring Cisco UCS Standalone Rack Servers</i> .....	6
<i>Configuring a SOAP/XML Credential</i> .....	6
<i>Discovering a UCS Rack Server</i> .....	8

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### Prerequisites for Monitoring Cisco UCS Standalone Rack Servers

In order to monitor Cisco UCS standalone rack servers in the ScienceLogic platform using the *Cisco: UCS Standalone Rack Server* PowerPack, you must know the username and password for a web service user on the rack servers you want to monitor.

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### Configuring a SOAP/XML Credential

To monitor Cisco UCS rack servers, you must configure a SOAP/XML credential for the UCS web service. This credential enables the Dynamic Applications in the *Cisco: UCS Standalone Rack Server* PowerPack to automatically discover and align to your UCS rack servers.

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.

Credential Editor [11]

Edit SOAP/XML Credential #11 New Reset

**Basic Settings**

Profile Name: UCS Standalone - Example  
Content Encoding: [ application/soap+xml ]  
Method: [ POST ]  
HTTP Version: [ HTTP/1.1 ]

URL [ http(s)://Host:Port/Path | %D = Aligned Device Address | %N = Aligned Device Host Name ]  
https://%D/nuova

HTTP Auth User:   
HTTP Auth Password:   
Timeout (seconds): 60

**Proxy Settings**

Hostname/IP:   
Port: 0  
User:

**CURL Options**

CAINFO  
CAPATH  
CLOSEPOLICY  
CONNECTTIMEOUT  
COOKIE  
COOKIEFILE  
COOKIEJAR  
COOKIELIST  
CRLF  
CUSTOMREQUEST  
DNSCACHETIMEOUT

**Soap Options**

Embedded Password [%P]:

Embed Value [%1]: <USER>  
Embed Value [%2]:   
Embed Value [%3]:   
Embed Value [%4]:

**HTTP Headers**

+ Add a header

Save Save As

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 four main sections:

- Identification Information:** Fields for Name and Description.
- IP and Credentials:** Includes 'IP Address/Hostname Discovery List' with a text area and 'Browse...' button, 'Upload File' with 'Browse...' button, 'SNMP Credentials' list (including Cisco SNMPv2, Cisco SNMPv3, EM7 Default V2, EM7 Default V3, IPSLA Example, LifeSize: Endpoint SNMP), and 'Other Credentials'.
- Detection and Scanning:** Includes 'Initial Scan Level' (System Default), 'Scan Throttle' (System Default), 'Port Scan All IPs' (System Default), 'Port Scan Timeout' (System Default), 'Detection Method & Port' (with a list including UDP: 161 SNMP, TCP: 1 - tcpmux, TCP: 2 - compressnet, TCP: 3 - compressnet, TCP: 5 - rje), 'Interface Inventory Timeout (ms)' (600000), 'Maximum Allowed Interfaces' (10000), and 'Bypass Interface Inventory' checkbox.
- Basic Settings:** Includes 'Discover Non-SNMP' checkbox, 'Model Devices' checkbox, 'DHCP' checkbox, 'Device Model Cache TTL (h)' (2), 'Collection Server PID' (em7ao), 'Organization' ([ System ]), 'Add Devices to Device Group(s)' (None Servers), and 'Apply Device Template' ([ Choose a Template ]).

Buttons for 'Save' and 'Log All' are at the bottom.

3. Supply values in the following fields:
  - **IP Address Discovery List.** Type the IP address for the UCS Rack Server.
  - **Other Credentials.** Select the SOAP/XML credential that you created for the UCS Rack Server.
  - **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.
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. After several minutes, the UCS Rack Server should be discovered with the appropriate Dynamic Applications aligned to it. Click its device icon () to view the **Device Properties** page for the UCS Rack Server server.

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