Configuring Cisco UCS Central Management Pack

This chapter contains the following sections:

Checklist for Configuring the Cisco UCS Central Management Pack

1. Ensure that the option **Allow this server to act as a proxy and discover managed objects on other computers** is enabled for the following server or computer hosting Cisco UCS Monitoring Service.

    - Agent Managed Computers (trusted boundary)

    - Management Server

    - Agent Managed Computers (Untrusted boundary)

    - Gateway Server

2. Ensure that all the Cisco UCS Monitoring Service are visible in **Operations Manager Console** > **Monitoring** > **Cisco UCS Monitoring** > **Cisco UCS Monitoring Service** > **Monitoring Service Dashboard**.

3. Ensure that all Cisco UCS Monitoring Service are discovered and in Healthy State in **Operations Manager Console** > **Administration** > **Device Management** > **(Management Server / Agent Managed)**.

4. Ensure that after adding UCS Central through Add Monitoring Wizard, appropriate Run As Account has been associated with correct Run As Profile.

5. Ensure, if Run As Account distribution is set to More Secure, the computer hosting Cisco UCS Monitoring Service must appear in the Selected Computers list and it must be same as selected for monitoring UCS Central.

6. If Cisco UCS Central is monitored via Gateway Server or agent managed computer (untrusted boundary), ensure that Cisco UCS Central is reachable from that machine.

7. Ensure that Operations Manager **Action Account** must have read and write privileges on TEMP (%SystemRoot%\Temp) folder.

Adding Cisco UCS Central to the Operations Manager

You can add Cisco UCS Central instance from all the Management servers in the Management Group using Operations Manager console or PowerShell cmdlets.

Step 1 Launch the **Operations Manager** console.

Step 2 Navigate to **Authoring** > **Cisco UCS Central**.

Step 3 From the **Tasks** pane, click **Add Monitoring Wizard**.

Step 4 On the **Monitoring Type** tab, click **Cisco UCS Central**.

Step 5 Click **Next**.

Step 6 On the **General Information** tab, review and complete the following:

In the **Connection** area, complete the following:

Name	Description
IP Address/Hostname field	Enter the IP address or the hostname of the UCS Central instance. You can use either the IPv6 or IPv4 address. **Note** For IPv6, enter the address in the `[2001:DB8::1]` format. You can add IPv6 addresses from Release 4.1(1).
Port Number field	Enter the port number specified in the HTTP or HTTPS during Cisco UCS Central configuration. By default, when a secure connection is established, the port number is set to 443.
Connection Mode check box	Establishes a secure HTTPS connection. By default, this option is checked, and you cannot uncheck it.

In the **Proxy Server** area, complete the following:

Name	Description
Enable Proxy Configuration check box	If checked, enables you to enter the proxy server details. Enter the following details: • **Host**—Enter the IP address of the proxy server • **Port**—Enter the port number which is used to connect to the proxy server

Name	Description
Enable Proxy Authentication check box	If checked, enables you to run authentication for the proxy server. Enter the following details: **Username**—Enter the username configured on the proxy server **Password**—Enter the password of the proxy server

In the **Cisco UCS Monitoring Service** area, complete the following:

Name	Description
Machine Type drop-down list	This can be one of the following: - Agent Managed Computer (Trusted Boundary) - Agent Managed Computer (Untrusted Boundary) - Management Server - Gateway Server
Service Machine drop-down list	Select the FQDN of the machine where Cisco UCS Monitoring Service is installed.

Step 7   To check Operations Manager connectivity to UCS Central, click **Test Connection**.

> **Note**   If the test connection fails, contact your network administrator.

> **Note**   For certification error, follow the instruction provided in the alert dialog box.

Step 8   In the **Authentication** dialog box, enter the username and password, and click **OK**.

If the UCS central instance is configured for authentication, enter the username in the <username@domainname> format. The <domainname> is the UCS Central authentication configured in **Administration** > **User Management** > **Authentication in UCS Central**.

> **Note**   When you select Management Server at the same active directory level as the Operations Manager console machine, the dialog box validates the state of Monitoring Service. You can start the Monitoring Service if it stops.
>
> You can add a UCS Central instance on the Management Server if you have local admin privileges . The local admin privileges are required to analyze the state of the Monitoring Service and remotely start the Monitoring Service.

Step 9   Click **Next**.

Step 10   On the **Instance Name** tab, complete the following:

Name	Description
Name field	A UCS Central instance name is set by default.

Name	Description
Description field	Enter a description for the UCS Central instance.

In the Configuration area, complete the following:

Name	Description
Org Discover level drop-down list	Sets the Org level up to which the Orgs can be discovered. By default, the value is set to 3.
Show Unassociated Profiles check box	whether unassociated service profiles are discovered or not. By default, this option is unchecked.
Discover Registered UCS Domains check box	Whether to monitor the registered UCS domains. By default, this option is checked. **Note** Once enabled, you cannot change the settings for these domains.

In the **Management Pack** area, you can continue with the default settings or use one of the following options:

Name	Description
Use Existing Management Pack or Create new check box	If checked, you can select an existing Management Pack to save this instance or to create a new Management Pack click **New**. **Note** We recommend not to select the default Management Pack from the drop-down list

Step 11   Click **Next**.

Step 12   On the **Run As Account** tab, click **Add**.

Step 13   If you want to associate a new run-as account to the UCS Central instance, click **New**.

> **Note**   If you have read-only privileges in the UCS Central, you can collect inventory data and monitor faults of UCS Central.
>
> For privileges to perform actions, such as Acknowledge Fault and Launch KVM Console, see:
>
> https://www.cisco.com/c/en/us/support/servers-unified-computing/ucs-manager/products-installation-and-configuration-

Step 14   Click **Next**.

Step 15   On the Summary tab, review the configuration summary, and click Create.
The template for monitoring the UCS Central instance is created.

Creating an Account

Configure a Cisco UCS Central Instance account if you did not associate a Run-As Account with the UCS Central instance while adding the template in the **Add Monitoring Wizard** or if you want to modify the current account association for the UCS Central Instance.

To create an account for the Cisco UCS Central, create a Run-As Account with the Cisco UCS Central instance username and password which is used by the management pack. See, How to Create a Run As Account for detailed instruction.

Note   On the **General Properties** page, select **Simple Authentication** as the **Run-As Account Type**.

Note   If Cisco UCS Central is configured for domain authentication, enter the username in the *<username@domainname>* format. The *<domainname>* is the UCS Central authentication name, configured in **Administration** > **User Management** > **Authentication in Cisco UCS Central**. These credentials are used for all communication with the Cisco UCS Central.

Associating a Run As Account with a Profile

Once Run As Account is created, associate the account with the Cisco UCS Central Run-As Profile. A Run-As Profile is created with UCS Central name in the Operations Manager. See, https://technet.microsoft.com/en-us/library/hh212825.aspx for detailed instructions on how to associate an account with a Run-As Profile.

Note   For inventory collection and fault monitoring of UCS Central, read-only privileges in the Cisco UCS Central is required.

To perform the actions, such as Acknowledge Fault and Launch KVM Console, see:

https://www.cisco.com/c/en/us/support/servers-unified-computing/ucs-manager/products-installation-and-configuration-guides-list.html