Oracle® Enterprise Manager Ops Center

Discover and Manage a Power Distribution Unit

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This guide provides an end-to-end example for how to use Oracle Enterprise Manager Ops Center.

Introduction

Asset management is the process through which Oracle Enterprise Manager Ops Center begins to manage and monitor your assets, which includes server hardware, chassis, racks, network equipment, operating systems, virtualization software, and clustering software. Discovering and managing your assets is a prerequisite for almost every action in the software. The discovery feature makes adding assets quick and easy. You can discover assets using a discovery profile, which specifies the discovery targets and the protocols, and credentials for accessing and managing them. You can also run a discovery to find all assets equipped with Service Tags, and then supply credentials to manage them.

In this document, you learn how to discover a Power Distribution Unit (PDU) using a discovery profile.

See Related Articles and Resources for links to related information and articles about discovering and managing other assets.

What You Will Need

You will need the following:

- A configured Enterprise Controller.

- A working Power Distribution Unit that a Proxy Controller can reach.

- Access to Oracle Enterprise Manager Ops Center using Ops Center Admin role (to discover assets) and Ops Center Security Admin role (to create credentials).

- The specific IP address of the Power Distribution Unit or the range of IP addresses.

Discover a Power Distribution Unit Using a Discovery Profile

A discovery profile is a combination of an asset type, a set of host names or IP addresses, and a set of credentials. You can use discovery profiles to locate specific systems and to specify how the discovered assets should be managed – with or without an Agent Controller.

The tasks that are covered in this section are as follows:

- Create Credentials

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- [Create a Discovery Profile](#)
- [Add a PDU Using the Discovery Profile](#)

Create Credentials

Assets are managed using a set of credentials. You can create or use existing credentials to discover and connect with assets.

Create HTTP Credentials

To create HTTP credentials, perform the following steps:

1. In the Navigation pane, click **Plan Management**, then click **Credentials**.

2. In the Actions pane, click **Create Credentials**. The Create Credentials wizard opens.

3. In the Protocol field, select **HTTP** from the drop-down list.
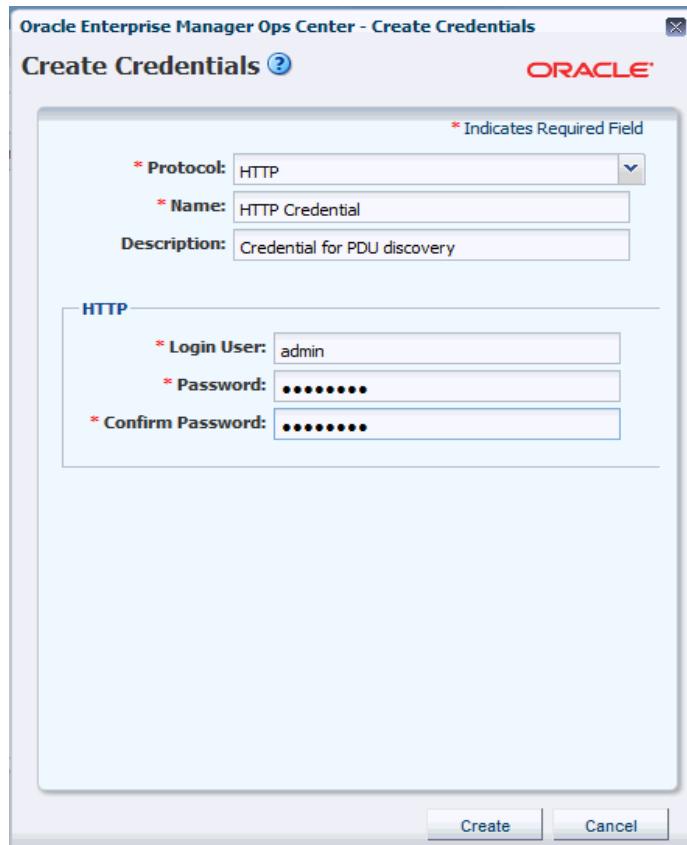
4. In the Name field, enter a name for the discovery credentials.

5. (Optional) In the Description field, enter a description.

6. In the Login User field, enter a http login user name.

7. In the Password field, type a password. Retype the same password in the Confirm Password field.

8. Click **Create**. The HTTP credential is created.

Create SNMP Credentials

To create SNMP credentials, perform the following steps:

1. In the Navigation pane, click **Plan Management**, then click **Credentials**.

2. In the Actions pane, click **Create Credentials**. The Create Credentials wizard opens.

3. In the Protocol field, select **SNMP** from the drop-down list.

4. In the Name field, enter a name for the discovery credentials.

5. (Optional) In the Description field, enter a description.

6. In the Read-Only Community String field, enter a password for the SNMP credential.

7. Click **Create**. The SNMP credential is created.

Create a Discovery Profile

You can create a discovery profile and then run a discovery using the profile. You can provide discovery information, such as the discovery credentials during profile creation or when the profile is run.

You can add tags to assets during or after discovery. A Tag is a set of information attached to an asset. Each tag consists of a tag name, which is drawn from a list of values appropriate for each asset, and a tag value, which can be any text string. You can also create your own tag name. For example, an asset could have a tag with a tag name of oracle.cloud.resource.creation.time and a value of 12 June. Tags can be used to associate information with assets, and to group assets based on tags or tag values.

Perform the following steps to create a discovery profile:

1. In the Navigation pane, click **Plan Management**.

2. Under Profiles and Policies, click **Discovery**.

3. In the Actions pane, click **Create Profile**.

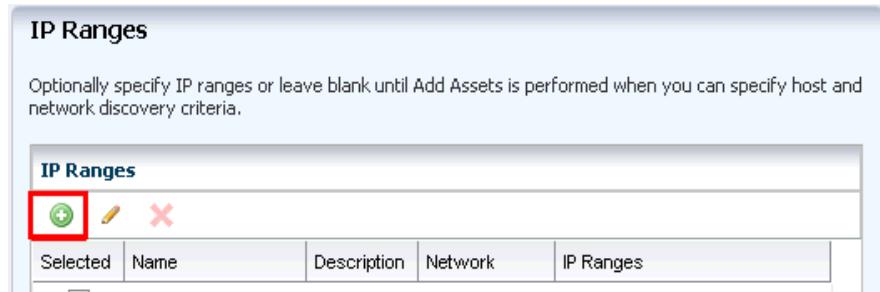4. Enter a name and description for the discovery profile.
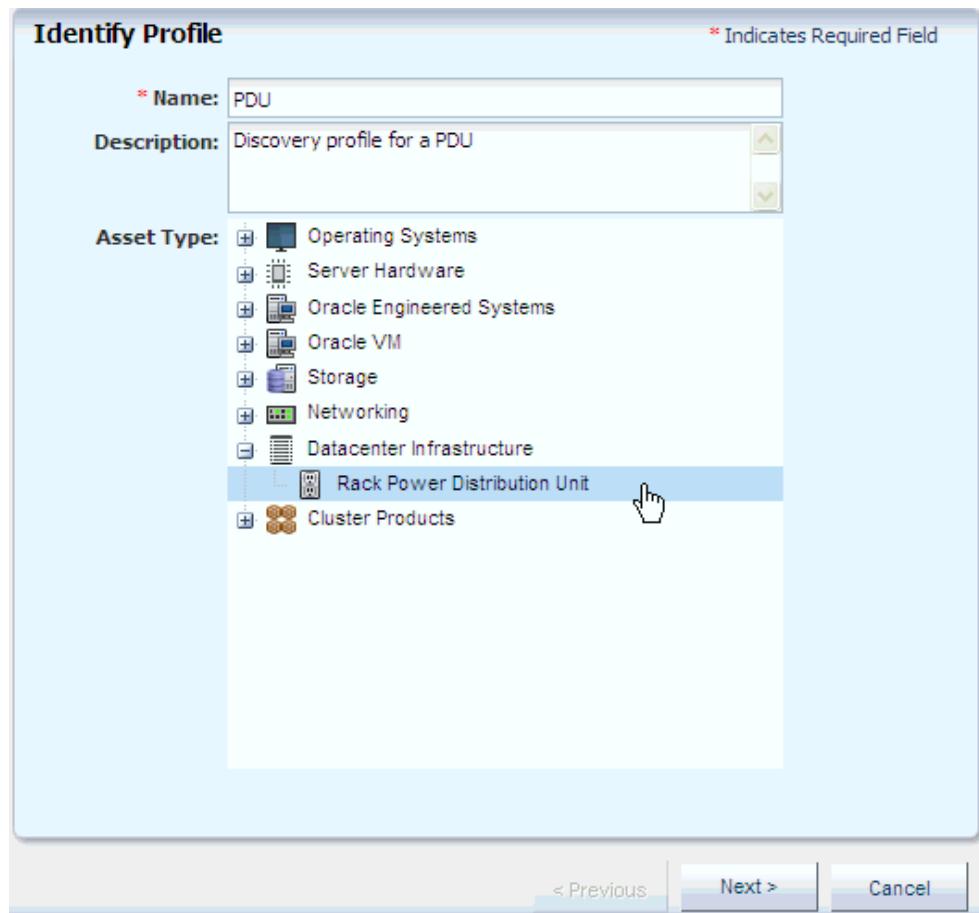
5. In the Asset Type, under Datacenter Infrastructure, select **Rack Power Distribution Unit**. Click **Next**.

6. (Optional) Click the Add icon (highlighted in red in the following figure) to add tags to the PDU. Select a tag name and enter a value for the tag.
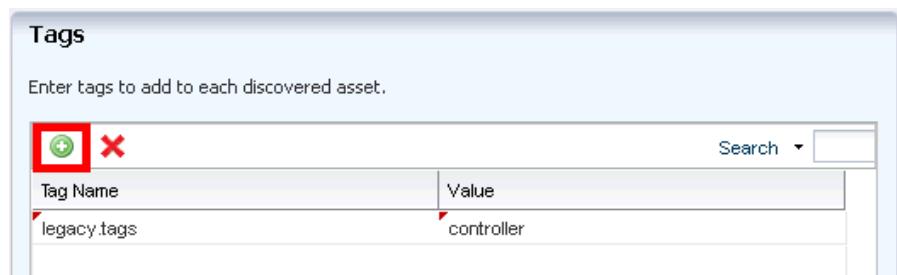
7. Click **Next**.

8. Enter the IP Ranges.

a. Click the Add icon (highlighted in red in the following figure) to add IP Ranges.

IP Ranges

Optionally specify IP ranges or leave blank until Add Assets is performed when you can specify host and network discovery criteria.

IP Ranges

Selected	Name	Description	Network	IP Ranges

b. Enter values in the respective fields and click **Add**, then click **Next**.

Oracle Enterprise Manager Ops Center - Add IP Ranges

Enter individual IP addresses and/or one or more IP ranges, all comma-separated. The IP addresses must be within the selected network's range.

Name: PDU

Description: IP address of PDU

Network: Automatic

IP Ranges: xx.xxx.xxx.xxx

Add   Close
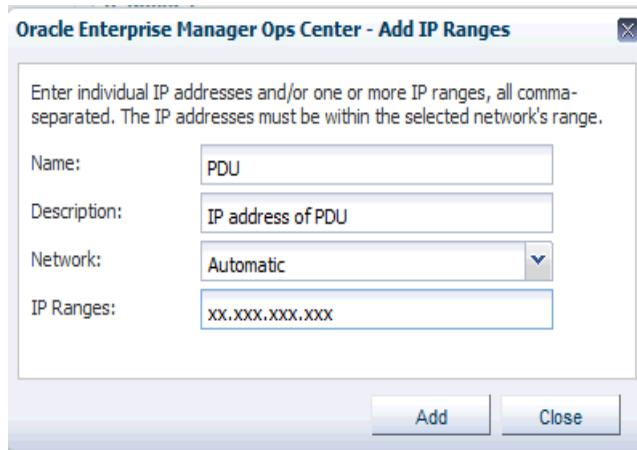
* Name - A name for the IP range.

* Description - A description for the IP range, so that it can be identified and reused.

* Network - The managed network with which the host names or IP addresses are associated. This is used to route the discovery to the correct Proxy Controller. When a Proxy Controller cannot reach the assets' network, the discovery will fail. Select Automatic to route the job to the most appropriate Proxy Controller.

* IP Ranges - The IP range to be targeted or IP address of the PDU.

9. In the Discovery Credentials wizard, click **Select to choose the HTTP and SNMP** credentials that you have created, then click **Next**.
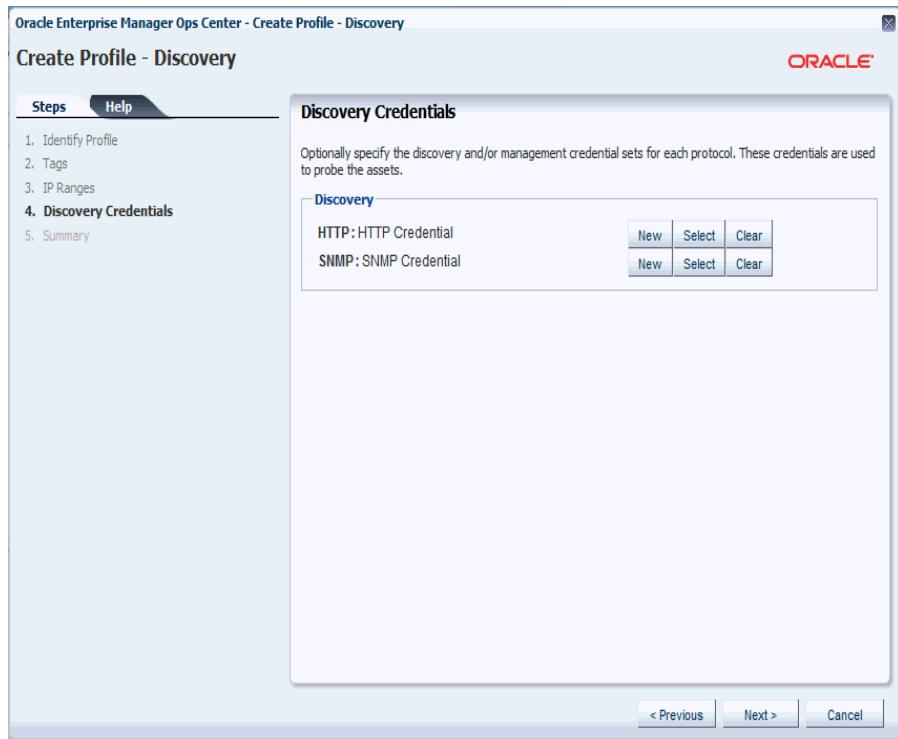
10. Review the summary information, then click **Finish** to create a Discovery Profile.

Add a PDU Using the Discovery Profile

After you have created a discovery profile, you can run it to discover and manage the PDU.

This procedure assumes that you have already created a discovery profile with an IP range, a specified network, and discovery and management information.

1. In the Navigation pane, click **All Assets**.

2. In the Actions pane, click **Add Assets**.

3. Select **Add and Manage Various Types of Assets via Discovery Probes**, then click **Next**.

4. Select the newly-created discovery profile, then click **Add Now** to launch the discovery.
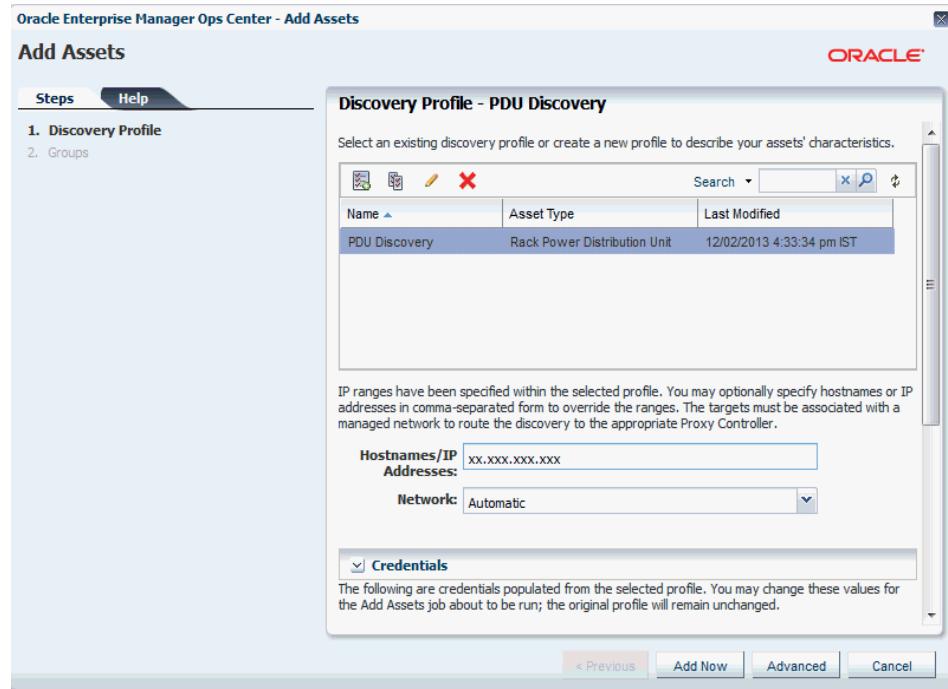
a. In the **Hostnames/IP Addresses** field, enter the IP address of the PDU that you want to discover.

b. Click **Add Now** to run the discovery. The discovery job is launched. This might take a few minutes to complete.

What Next?

When the discovery job completes successfully, the PDU is discovered and visible in the All Assets section of the user interface as shown in the following figure.
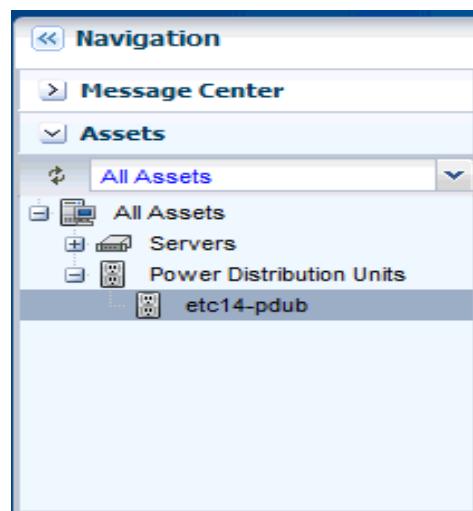
Related Articles and Resources

See the following for more information:

- Manage Assets in *Oracle Enterprise Manager Configure Reference* for information about updating firmware.

- Oracle Enterprise Manager Ops Center Operations for Oracle SuperCluster Reference for information about managing a PDU in an engineered system.

For end-to-end examples, see the workflows and how to documentation in the library. For deployment tasks, go to http://docs.oracle.com/cd/E59957_01/nav/deploy.htm and for operate tasks go to http://docs.oracle.com/cd/E59957_01/nav/operate.htm.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

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