

Oracle® Enterprise Manager Ops Center

Discover and Manage a Power Distribution Unit

12c Release 3 (12.3.0.0.0)

E60004-01

June 2015

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](#)

- [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.

Oracle Enterprise Manager Ops Center - Create Credentials

Create Credentials ? ORACLE

* Indicates Required Field

* Protocol: HTTP

* Name: HTTP Credential

Description: Credential for PDU discovery

HTTP

* Login User: admin

* Password:

* Confirm Password:

Create Cancel

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.

Oracle Enterprise Manager Ops Center - Create Credentials

Create Credentials ? ORACLE

* Indicates Required Field

* Protocol: SNMP

* Name: SNMP Credential

Description: Credential for PDU discovery

SNMP

* Read-Only Community String:

Create Cancel

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.

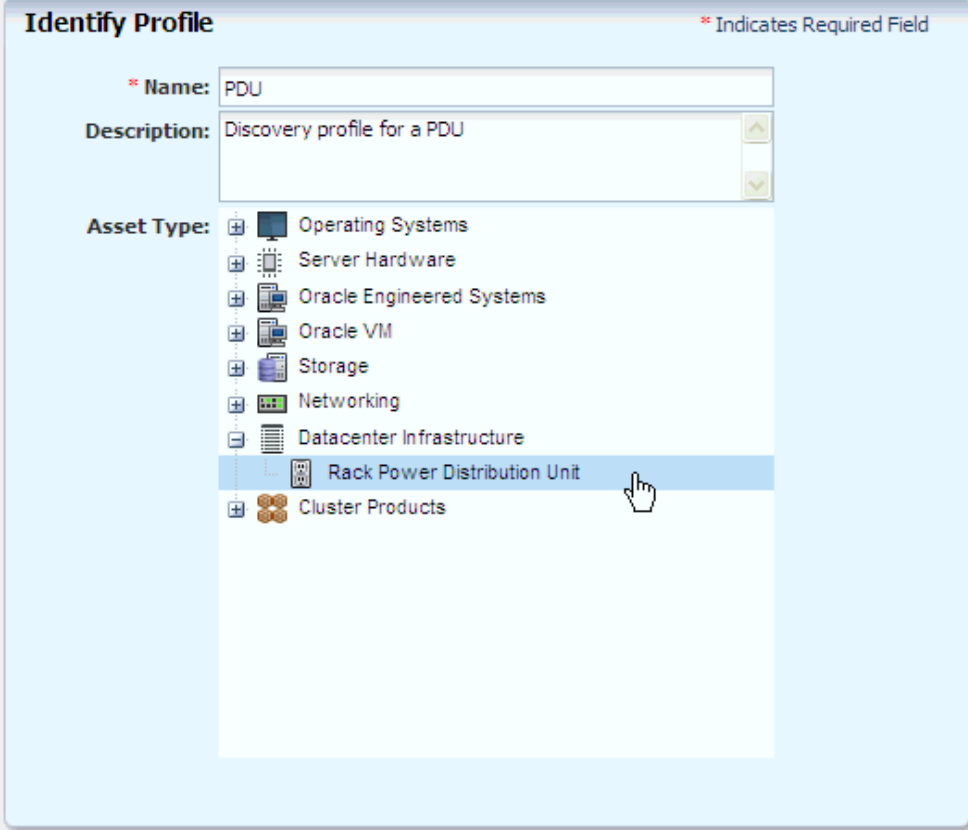
Create a Discovery Profile

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.

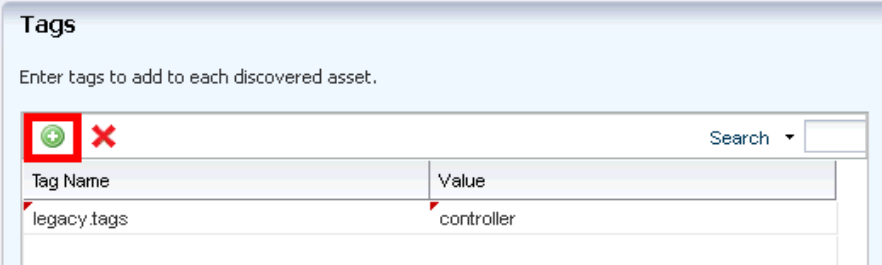
Perform the following steps to create a discovery profile:

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.



The 'Identify Profile' dialog box is shown. It has a title bar with the text 'Identify Profile' and a note '** Indicates Required Field'. The dialog contains three main sections: 'Name', 'Description', and 'Asset Type'. The 'Name' field is labeled '* Name:' and contains the text 'PDU'. The 'Description' field is labeled 'Description:' and contains the text 'Discovery profile for a PDU'. The 'Asset Type' section is labeled 'Asset Type:' and contains a tree view of asset types. The tree view has a plus icon to its left. The tree view contains the following items: 'Operating Systems', 'Server Hardware', 'Oracle Engineered Systems', 'Oracle VM', 'Storage', 'Networking', 'Datacenter Infrastructure', 'Rack Power Distribution Unit', and 'Cluster Products'. The 'Rack Power Distribution Unit' item is highlighted with a blue background and a mouse cursor is pointing at it. At the bottom of the dialog, there are three buttons: '< Previous', 'Next >', and 'Cancel'.

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.



The 'Tags' dialog box is shown. It has a title bar with the text 'Tags'. Below the title bar, there is a text input field with the placeholder text 'Enter tags to add to each discovered asset.'. Below the text input field, there is a table with two columns: 'Tag Name' and 'Value'. The table has one row with the tag name 'legacy.tags' and the value 'controller'. To the left of the table, there is a red square button with a green plus sign and a red 'X' button. To the right of the table, there is a 'Search' dropdown menu.

7. Click **Next**.
8. Enter the IP Ranges.

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

Selected	Name	Description	Network	IP Ranges
----------	------	-------------	---------	-----------

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

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:

Description:

Network:

IP Ranges:

- * 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.

Oracle Enterprise Manager Ops Center - Add Assets

Add Assets

Steps Help

1. Discovery Profile
2. Groups

Discovery Profile - PDU Discovery

Select an existing discovery profile or create a new profile to describe your assets' characteristics.

Name	Asset Type	Last Modified
PDU Discovery	Rack Power Distribution Unit	12/02/2013 4:33:34 pm IST

IP ranges have been specified within the selected profile. You may optionally specify hostnames or IP addresses in comma-separated form to override the ranges. The targets must be associated with a managed network to route the discovery to the appropriate Proxy Controller.

Hostnames/IP Addresses:

Network:

☒ **Credentials**

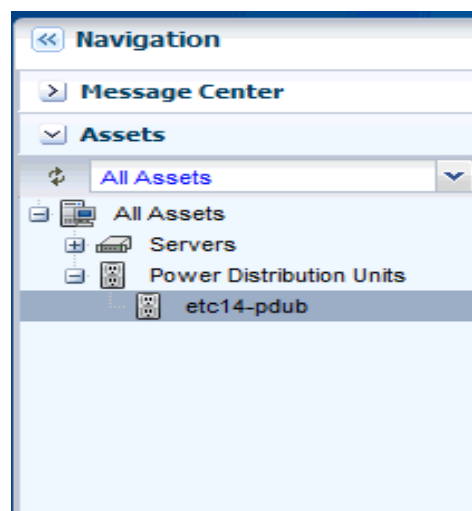
The following are credentials populated from the selected profile. You may change these values for the Add Assets job about to be run; the original profile will remain unchanged.

< Previous Add Now Advanced Cancel

- 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>.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

Oracle Enterprise Manager Ops Center Discover and Manage a Power Distribution Unit, 12c Release 3 (12.3.0.0.0)
E60004-01

Copyright © 2007, 2015, Oracle and/or its affiliates. All rights reserved.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.