Oracle® Enterprise Manager Ops Center

Discovering an Oracle SPARC T5 Server

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

Introduction

You can use Oracle Enterprise Manager Ops Center to manage and monitor a variety of datacenter assets, including 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.

The following sections are covered in this document to discover a SPARC T5 Server:

- Create Credentials

- Create a Discovery Profile

- Using the Discovery Profile

In the example scenario, an existing SPARC T5 Server is discovered using a discovery profile created for an ILOM service processor. All T5 servers run on Simplified Data Model (SDM) enabled ILOM 3.2. SDM is available as an option onT5 servers, providing the capability to present information on ILOM in a consistent manner across different servers. You must use Oracle Solaris 10 update 11 OS for provisioning Oracle VM Server for SPARC on a SPARC T5 server.

Discovery profiles for ILOM service processors are created using both IPMI and ILOM SSH protocols. The scenario described in this document can be applied to any of the SPARC T5 server models: T5-1B, T5-2, T5-4, and T5-8.

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:

- Access to a system running Oracle Enterprise Manager Ops Center using *Ops Center Admin* role to discover assets, and *Ops Center Security Admin* role to create credentials

- One or more SPARC T5 Servers and their admin credentials.

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Discover a SPARC T5 Server

You can discover a T5 server that has service processors configured 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.
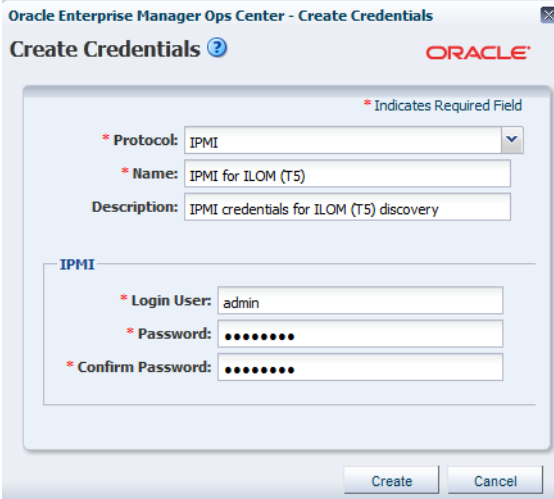
Create Credentials

Assets are discovered using a set of credentials. Based on the choice of server type, Oracle Enterprise Manager Ops Center displays only those protocols that are relevant to the asset. To discover an ILOM service processor, IPMI and SSH protocols are required. You can create a new set of credentials or use existing credentials to discover and connect with assets.

Creating IPMI Credentials

Use IPMI credentials to discover an ILOM service processor.

To create IPMI credentials, perform the following steps:

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

2. Click **Create Credentials** in the Actions pane. The Create Credentials wizard is displayed.

3. Select IPMI from the drop-down list in the Protocol field.

4. Enter a name for the discovery credentials in the Name field.

5. Enter a description for your credentials in the Description field.

6. Enter the user name of the service processor login credentials in the Login User field.

7. Enter the password of the service processor login credentials in the Password field. Retype the same password in the Confirm Password field.

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

Creating SSH Credentials

Use ILOM SSH credentials to discover ILOM service processors. They can also be used to discover operating systems.

To create SSH credentials, perform the following steps:

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

2. Click **Create Credentials** on the Actions pane. The Create Credentials wizard opens.

3. Select SSH from the drop-down list in the Protocol field.

4. Enter a name for the discovery credentials in the Name field.

5. Enter a description for your credentials in the Description field.

6. Enter the user name of the service processor credentials in the Login User field.

7. Enter the password of the service processor credentials in the Password field. Retype the same password in the Confirm Password field.

8. Enter the SSH port number. The SSH port number is populated by default.

9. Click **Create**. The user credential is created.

Create a Discovery Profile

Discovery profiles simplify managing multiple sets of discovery criteria and offer persistent storage of access credentials. 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.

Creating a Discovery Profile for an ILOM Service Processor

Perform the following steps to create a discovery profile for an ILOM service processor:

1. Click **Plan Management** in the Navigation pane.

2. Click **Discovery** under Profiles and Policies.

3. Click **Create Profile** in the Actions pane. The Identity Profile screen opens.

4. Enter a name and description for the discovery profile.

5. Select ILOM Service Processor in the Asset Type, under Server Hardware. Click **Next**.

6. The Tags page is displayed. Tags are optional and are not used in this example. Click **Next**.

7. The IP Ranges page is displayed. You can add the IP address for your T5 server or IP ranges for multiple servers in the IP Ranges page or do it later when you run the Add Assets job. Click **Next**.

8. Click **Select** in the Discovery Credentials dialog and choose the SSH and IPMI credentials that you have created. Click **Next**.

9. Review the summary information, then click **Finish** to create a Discovery Profile.

The discovery profile is created. You can now run it to discover and manage the server using the ILOM service processor.

Using the Discovery Profile

After you have created the discovery profile, you can use it to discover and manage the T5 server.

In this example, the ILOM service processor discovery profile is used.

1. Click All Assets in the Assets section of the Navigation pane.

2. Click Add Assets in the Actions pane.

3. Select Add and manage various types of assets via discovery probes, then click Next.

4. Select the discovery profile created in the previous section (see Create a Discovery Profile).

5. Enter the Hostname or IP address for the T5 server ILOM, then click **Add Now** to launch the discovery job. Multiple T5 servers can also be discovered using an IP range. This might take a few minutes to complete.

After the discovery job completes successfully, the service processor is visible in the Navigation pane under the Servers tree, located in the Assets pane as shown in the following figure.
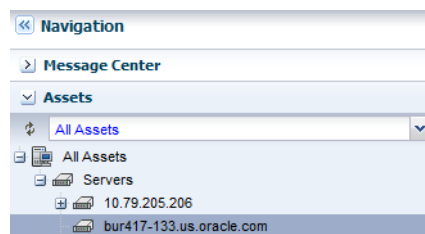
What Next?

After you have added the T5 server, you can discover and manage the operating system on the hardware.

For instructions on how to add discover and manage the OS, see http://docs.oracle.com/cd/E27363_01/nav/howto.htm.

Related Articles and Resources

The following chapters in the *Oracle Enterprise Manager Ops Center Feature Reference Guide* contain more information:

- *Asset Management*

- *Hardware Management*

For information on discovering Operating System, see the How To library at http://docs.oracle.com/cd/E27363_01/nav/howto.htm.

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