Oracle® Enterprise Manager Ops Center

Discovering and Managing 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 data center 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 and running an **Add Assets** job. A discovery profile specifies the discovery targets, protocols, and credentials for accessing and managing them.

By following this example scenario, you can discover a SPARC T5 server with a configured Integrated Lights Out Manager (ILOM) service processor. All SPARC T5 servers run on Simplified Data Model (SDM) enabled ILOM 3.2. SDM is available as an option on SPARC T5 servers. SDM provides the capability to present information on ILOM consistently across different types of servers.

Discovery profiles for ILOM service processors are created using both Intelligent Platform Management Interface (IPMI) and ILOM SSH protocols. The scenario described in this document can be applied to any of the SPARC T5 server models.

There are four models of SPARC T5 servers:

- T5-1B, server module with one CPU socket.

- T5-2, two CPU sockets.

- T5-4, four CPU sockets.

- T5-8, eight CPU sockets.

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.

- *Ops Center Admin* role to discover assets, and *Ops Center Security Admin* role to create credentials in Oracle Enterprise Manager Ops Center.

- One or more SPARC T5 Servers with configured ILOM service processors.

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- Intelligent Platform Management Interface (IPMI) and SSH credentials for the ILOM service processor.

Discover a SPARC T5 Server

You can discover a SPARC T5 server with a configured service processor using a discovery profile and running an **Add Assets** job. A discovery profile is a combination of an asset type, a set of host names or IP addresses, and a set of credentials.

The following are the steps needed to discover a SPARC T5 Server:

1. Creating Credentials
2. Creating a Discovery Profile
3. Using the Discovery Profile

Creating Credentials

You must create a set of credentials or use existing credentials to grant Oracle Enterprise Manager Ops Center access to the ILOM service processor. 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.

The following are instructions to create the required credentials:

- Creating IPMI Credentials
- Creating SSH Credentials

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** on the Actions pane. The Create Credentials wizard appears.
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 IPMI credentials appear on the Credentials table.

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 appears.

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 if the port number for your service processor is different from the default.

9. Click **Create**. The SSH credentials appear on the Credentials table.

Creating 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 used to run the discovery job.

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 Create Profile - Discovery wizard appears.

4. Enter a name and a description.

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

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

7. The IP Ranges page appears. You can add the IP address for your SPARC 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 IPMI and SSH credentials that you have created. Click **Next**.

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

Using the Discovery Profile

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

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 Creating a Discovery Profile).
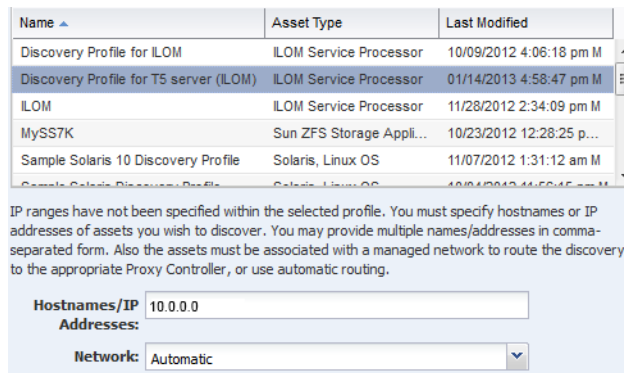
5. Enter the host name or IP address for the SPARC T5 server service processor, then click **Add Now** to launch the discovery job. You can also discover multiple SPARC T5 servers using an IP range. This might take a few minutes to complete.

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.
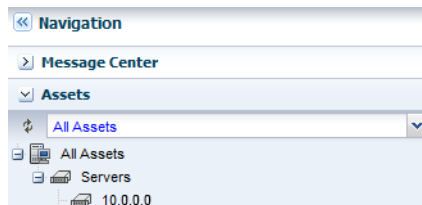
What's Next?

After you have added the SPARC T5 server you can manage and monitor the hardware asset.
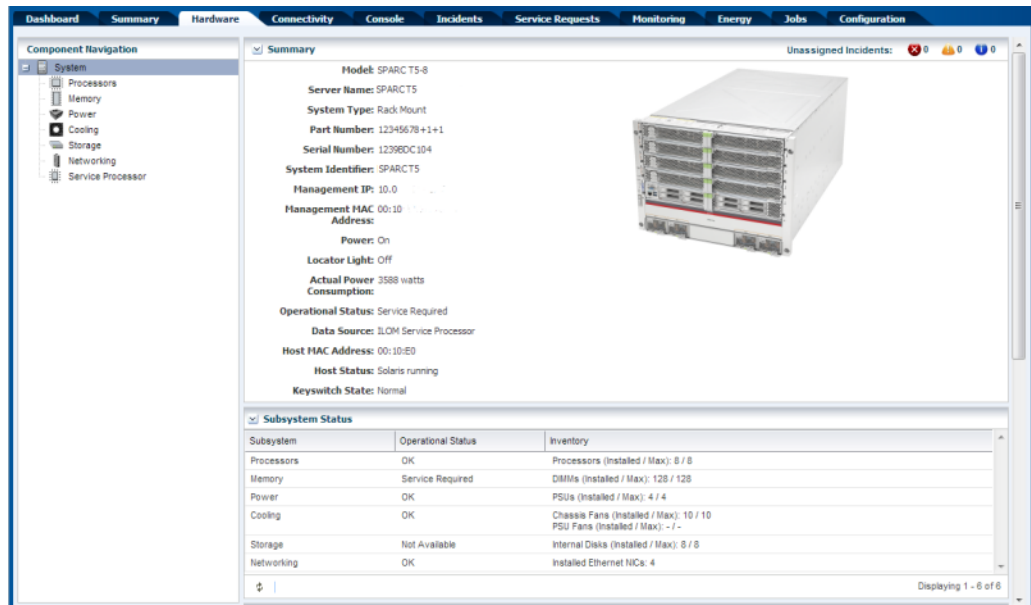
You can also discover and manage the operating system on the hardware.

> **Note:** You must use Oracle Solaris 10 update 11 operating system for provisioning Oracle VM Server for SPARC on a SPARC T5 server.

Related Articles and Resources

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

- See *Asset Management* for more information about discovery and management procedures for different types of servers.

- See *Hardware* for information about managing and monitoring hardware assets.

- See *Operating System Provisioning* for information about provisioning operating systems to hardware assets.

See the *Command Line Interface Guide* for information about discovering assets using the CLI.

For more Enterprise Manager Ops Center deployment and operational guides, including more examples to discover different types of servers visit the *Deploy How To library* at http://docs.oracle.com/cd/E40871_01/nav/deployhowto.htm

For more information about SPARC servers and ILOM configuration visit the *SPARC Systems* and *Systems Management and Diagnostics* libraries in the *Servers, Systems Management, Workstations, and Related Hardware* category at http://docs.oracle.com.

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