

Oracle® Enterprise Manager Ops Center

Discover and Manage SPARC T5 Series Servers and SPARC T7 Series Servers

12c Release 3 (12.3.2.0.0)

E60000-03

July 2016

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

Introduction

Use Oracle Enterprise Manager Ops Center to discover, manage, and monitor SPARC T5 Series servers and SPARC T7 Series servers.

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 by using a discovery profile and running an **Add Assets** job. The discovery profile specifies the type of targets to discover and the credentials and protocols to access them and to manage them. You can discover one server or many servers in the same operation efficiently and consistently.

All SPARC T5 series servers and SPARC T7 series servers have an ILOM 3.2 service processor, which uses the Simplified Data Model (SDM) to present information consistently across different types of servers. SDM is an option on SPARC T5 series servers.

SPARC T7 series servers:

- T7-1B, server module with one CPU socket.
- T7-1, one CPU sockets
- T7-2, two CPU sockets
- T7-4, four CPU sockets

SPARC T5 series servers:

- T5-1B, server module with one CPU socket.
- T5-2, two CPU sockets
- T5-4, four CPU sockets
- T5-8, eight CPU sockets

Note: The example scenario demonstrates the discovery for a SPARC T5–8 Server. You can use the same procedure to discover any of the SPARC T5 series servers or SPARC T7 series servers.

You can view a short video of this procedure, [Discovering and Managing a SPARC T7 Series Server or SPARC T5 Series Server](#).

What You Will Need

Requirements for discovering a SPARC T5 series server or SPARC T7 series server using Oracle Enterprise Manager Ops Center.

You will need the following:

- Access to a system running Oracle Enterprise Manager Ops Center.
- Ops Center Admin role to discover assets and the Ops Center Security Admin role to create credentials.
- One or more SPARC T7 series servers or T5 series servers with a configured ILOM service processor.
- Intelligent Platform Management Interface (IPMI) and SSH credentials for the ILOM service processor.

Discover a SPARC T7 Series Server or SPARC T5 Series Server

General procedure for discovering a SPARC T5 series server or SPARC T7 series server using Oracle Enterprise Manager Ops Center.

To discover the server, use a discovery profile with the **Add Assets** action. 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 steps discover and manage one or many servers:

1. [Creating Credentials](#)
2. [Creating a Discovery Profile](#)
3. [Using the Discovery Profile](#)

Creating Credentials

Credentials used for discovering an Oracle SPARC T5 or T7 server using Oracle Enterprise Manager Ops Center.

You must provide a set of new or existing credentials to grant Oracle Enterprise Manager Ops Center access to the ILOM service processor. For a server with an ILOM service processor, use IPMI and SSH credentials. This example creates both types of credentials.

- [Creating IPMI Credentials](#)
- [Creating SSH Credentials](#)

Creating IPMI Credentials

Procedure for using IPMI protocol to discover a SPARC T7 series server or SPARC T5 series server using Oracle Enterprise Manager Ops Center.

Use this procedure to create credentials using the IPMI protocol.

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 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. Then, retype the same password in the **Confirm Password** field.
8. Click **Create**. The IPMI credentials are displayed in the Credentials table.

Oracle Enterprise Manager Ops Center - Create Credentials

Create Credentials ? ORACLE

* Indicates Required Field

* Protocol: IPMI

* Name: IPMI for ILOM (T5)

Description: IPMI credentials for ILOM (T5) discovery

IPMI

* Login User: admin

* Password: ●●●●●●

* Confirm Password: ●●●●●●

Create Cancel

Creating SSH Credentials

Procedure for using SSH protocol to discover a SPARC T7 series server or SPARC T5 series server using Oracle Enterprise Manager Ops Center.

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

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. Accept the default SSH port number or change it to the port used by the service processor.

Oracle Enterprise Manager Ops Center - Create Credentials

Create Credentials ? ORACLE

* Indicates Required Field

* Protocol: SSH

* Name: SSH for ILOM (T5)

Description: SSH credentials for ILOM (T5) discovery

SSH

* Authentication Type: Password Ops Center Key
 Custom SSH Key

* Login User: admin1

* Password: ●●●●●●

* Confirm Password: ●●●●●●

Privileged Role:

Role Password:

Confirm Password:

* SSH Port: 22

Create Cancel

9. Click **Create**. The SSH credentials are displayed in the Credentials table.

Creating a Discovery Profile

Use a profile to discover assets in Oracle Enterprise Manager Ops Center and to repeat the discovery operation.

Discovery profiles simplify managing multiple sets of criteria and provide persistent storage of access credentials. You create a discovery profile and then use it to discover assets that match the criteria. This example includes the credentials and network information in the discovery profile, but you can provide this information at the time you run the discovery job.

Creating a Discovery Profile for an ILOM Service Processor

Procedure for creating a discovery profile to discover an ILOM server using Oracle Enterprise Manager Ops Center.

Use this procedure 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**.

Identify Profile * Indicates Required Field

* **Name:**

Description:

Asset Type:

- Operating Systems
- Server Hardware
 - ILOM Service Processor**
 - ELOM Service Processor
 - ALOM Service Processor
 - XSCF Service Processor
 - RSC Service Processor
 - V20z, V40z Service Processor
 - Other IPMI Service Processor
- Oracle Engineered Systems
- Oracle VM
- Storage
- Networking
- Datacenter Infrastructure
- Cluster Products

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**.

Discovery Credentials

Optionally specify the discovery and/or management credential sets for each protocol. These credentials are used to probe the assets.

Discovery

Use system's default credentials

SSH:

New	Select	Clear
-----	--------	-------

IPMI:

New	Select	Clear
-----	--------	-------

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

Using the Discovery Profile

Procedure for using a discovery profile to discover an ILOM server using Oracle Enterprise Manager Ops Center.

After you have created the discovery profile, use it to discover and manage the server:

- Click **All Assets** in the Assets section of the Navigation pane.
- Click **Add Assets** in the Actions pane.
- Select **Add and manage various types of assets via discovery probes**, then click **Next**.

Oracle Enterprise Manager Ops Center - Add Assets

Add Assets ? ORACLE

Select the type of asset declaration to be performed:

Add and manage various types of assets via discovery probes.

Manually declare a server to be a target of OS provisioning.

Declare an unconfigured hardware asset. This asset can then be a target of the Configure Service Processor deployment plan.

- Select the discovery profile created in the previous section (see [Creating a Discovery Profile](#)).

Name ▲	Asset Type	Last Modified
Discovery Profile for ILOM	ILOM Service Processor	10/09/2012 4:06:18 pm M
Discovery Profile for T5 server (ILOM)	ILOM Service Processor	01/14/2013 4:58:47 pm M
ILOM	ILOM Service Processor	11/28/2012 2:34:09 pm M
MySS7K	Sun ZFS Storage Appli...	10/23/2012 12:28:25 p...
Sample Solaris 10 Discovery Profile	Solaris, Linux OS	11/07/2012 1:31:12 am M
Sample Solaris Discovery Profile	Solaris, Linux OS	10/04/2012 11:50:45 am M

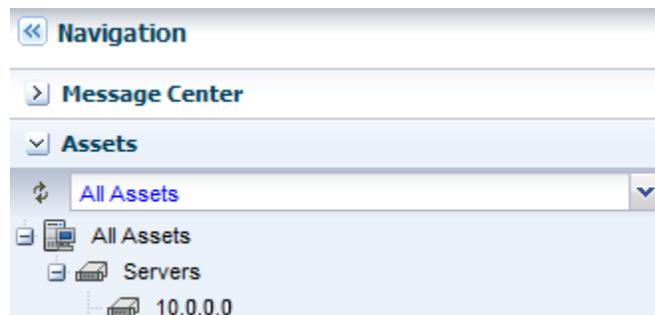
IP ranges have not been specified within the selected profile. You must specify hostnames or IP addresses of assets you wish to discover. You may provide multiple names/addresses in comma-separated form. Also the assets must be associated with a managed network to route the discovery to the appropriate Proxy Controller, or use automatic routing.

Hostnames/IP Addresses:

Network:

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

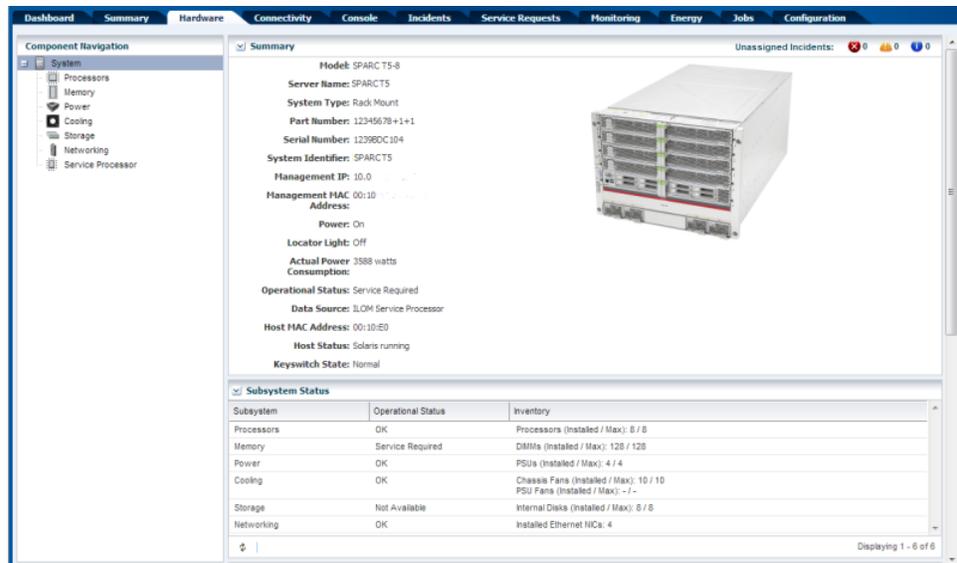
After the discovery job completes successfully, the service processor is visible in the Navigation pane under the Servers tree, located in the Assets pane as shown in the following figure.



What's Next?

Description of post-discovery tasks for SPARC T7 series servers or SPARC T5 series servers in Oracle Enterprise Manager Ops Center.

After you have discovered the server, you can manage and monitor it as a datacenter asset.



You can also discover and manage the server's operating system. The SPARC T7 series server uses the Oracle Solaris 11.3 operating system. The SPARC T5 series server can use either Oracle Solaris 10 or Oracle Solaris 11.

Note:

To use Oracle VM Server for SPARC software on a SPARC T5 series server, the server's operating system be a minimum of Oracle Solaris 10 update 11.

See the *Deploy Operating Systems Workflow* in the Deploy How To library at http://docs.oracle.com/cd/E59957_01/nav/deploy.htm.

Related Articles and Resources

You can view a short video of this procedure, *Discovering and Managing a SPARC T7 Series Server or SPARC T5 Series Server*, located in the documentation library.

See the following for more information:

- Manage Assets of the *Oracle Enterprise Manager Configuration Reference* for information about discovery procedures for different types of servers.
- Hardware of the *Oracle Enterprise Manager Operations Reference* for information about managing and monitoring hardware assets.
- Operating Systems Provisioning of the *Oracle Enterprise Manager Operations Reference* for information about provisioning operating systems on hardware servers.

For more information about SPARC servers and ILOM configuration, see the SPARC Systems library and the Systems Management and Diagnostics library in the Servers, Systems Management, Workstations, and Related Hardware section of <http://docs.oracle.com>.

Oracle® Enterprise Manager Ops Center Discover and Manage SPARC T5 Series Servers and SPARC T7 Series Servers, 12c Release 3 (12.3.2.0.0)
E60000-03

Copyright © 2007, 2016, 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.