Oracle® Enterprise Manager Ops Center

Creating Server Pool for Oracle VM Server for SPARC Guide

12*c* Release 1 (12.1.0.0.0)

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

Introduction

Using Oracle Enterprise Manager Ops Center, you can create a server pool for Oracle VM Server for SPARC.

A server pool is a group of one or more virtualized hosts with the same processor architecture that has access to the same virtual and physical networks, and storage resources. Server pools provide load balancing, high availability capabilities, and sharing of some resources for all members of the pool.

You must select the policies in the server pool to manage the underutilized and overutilized servers in the pool:

- Placement Policy – This policy decides the preferred virtualization host in the server pool to place the logical domains.
- Auto Balancing Policy – This policy performs load balancing of the server pool automatically at set intervals.

The version of Oracle VM Server for SPARC that you install depends on the type of server hardware version installed. For a list of compatible hardware and software versions, see Related Articles and Resources for Oracle VM Server for SPARC documentation website.

What You Will Need

You need the following before you can create a Server pool for Oracle VM Server for SPARC.

1. Two servers installed with Oracle VM Server for SPARC 2.1 in a healthy state and should not be associated with any server pool.
2. A NAS storage library to deal with the NFS file system and to store the logical domain metadata and a SAN storage library for virtual disk storage of logical domains.
3. Networks to be attached to the server pool are in default network domain.
4. Placement policy and Auto balancing policy to manage the load of the virtualization servers in the server pool.

   See *Oracle Enterprise Manager Ops Center Feature Reference Guide* for more information on policies.

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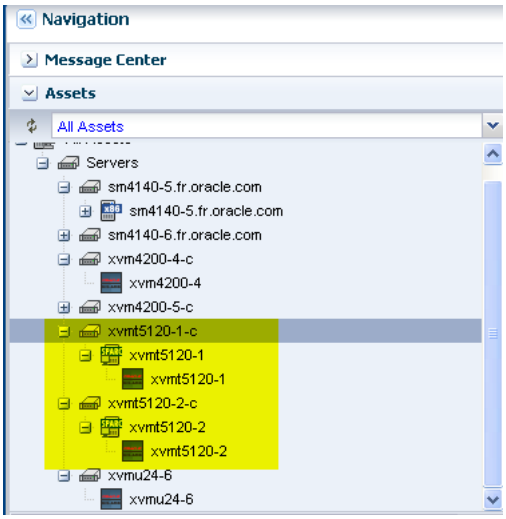
5. Virtualization administrator to create and manage the server pool.

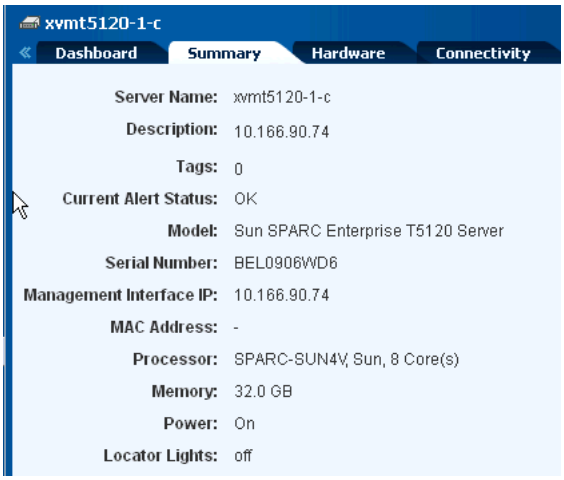
Hardware and Software Configuration

This section defines the hardware and software details for installing Oracle VM Server for SPARC 2.1 version on Sun SPARC Enterprise T5120 Server. The configuration might change according to the hardware and firmware versions that you use.



Hardware Configuration

- Server Model – Sun SPARC Enterprise T5120 Server
- Processor – SPARC-SUN4V, Sun, 1165 MHz, 64 Total CPU Threads, 8 Core(s)
- Memory – 32 GB
- System firmware – 7.4.0.b



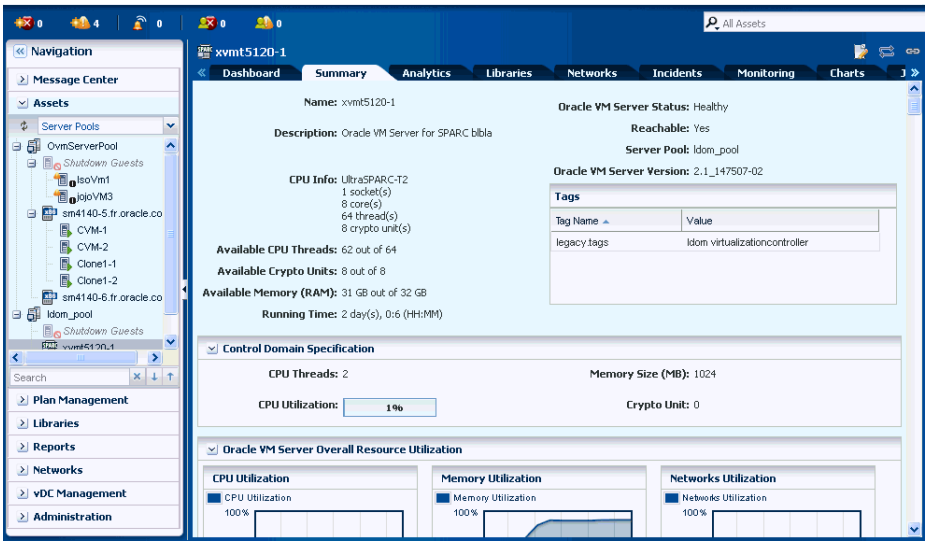
Software Configuration

Use Oracle Solaris 10 operating system to install Oracle VM Server for SPARC 2.1 version. Upload or import the operating system image to a storage library in Oracle Enterprise Manager Ops Center.

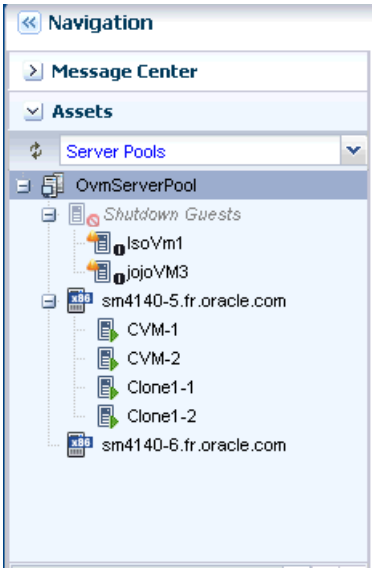
Create a Server Pool for Oracle VM Server for SPARC

Oracle Enterprise Manager Ops Center initiates a wizard that collects information about the servers, storage and network resources, and placement policies to create a server pool.

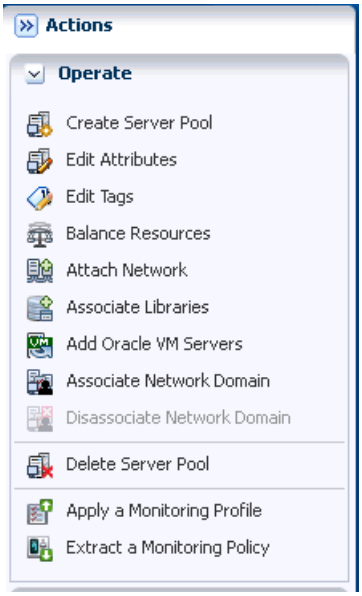
This example creates a server pool for Oracle VM Servers xvmt5120-1 and xvmt5120-2 for SPARC.



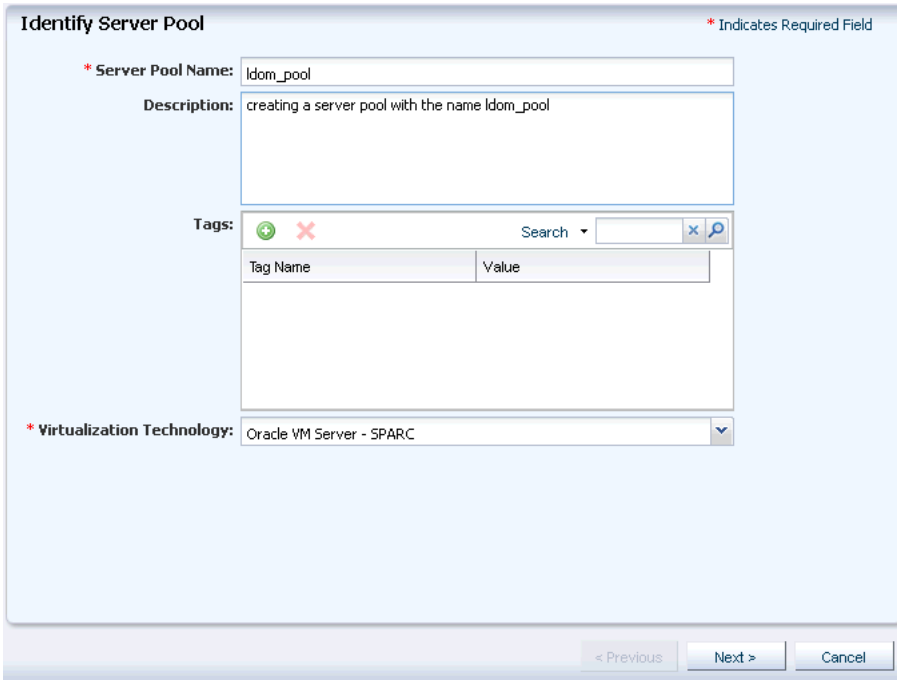
1. Select Server Pools in the Assets drawer of the Navigation pane.



2. Click Create Server Pool in the Actions pane. The Create Server Pool wizard is displayed.

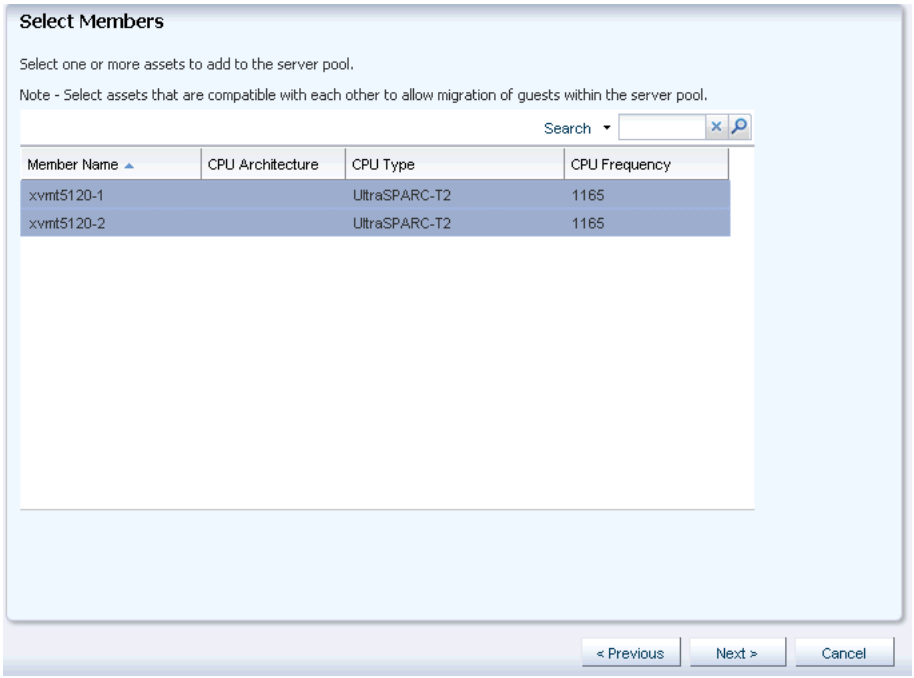


3. Specify the following server pool identification information, then click Next.
   - Enter a name and description for the server pool.
   - Select Oracle VM Server - SPARC from the Virtualization Technology menu.

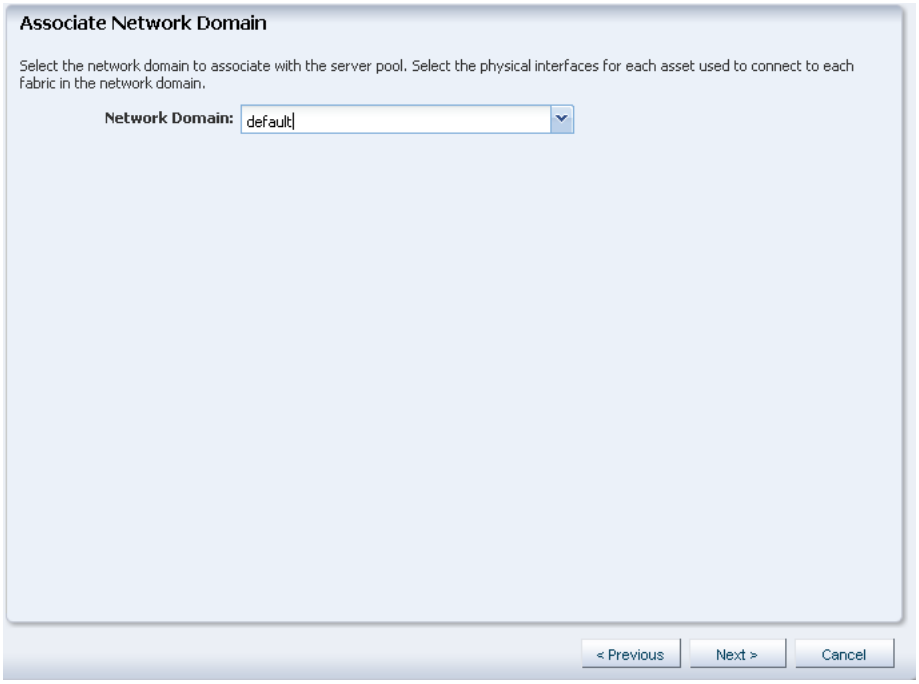


4. Select the two Oracle VM Servers to add to the server pool, then click Next.

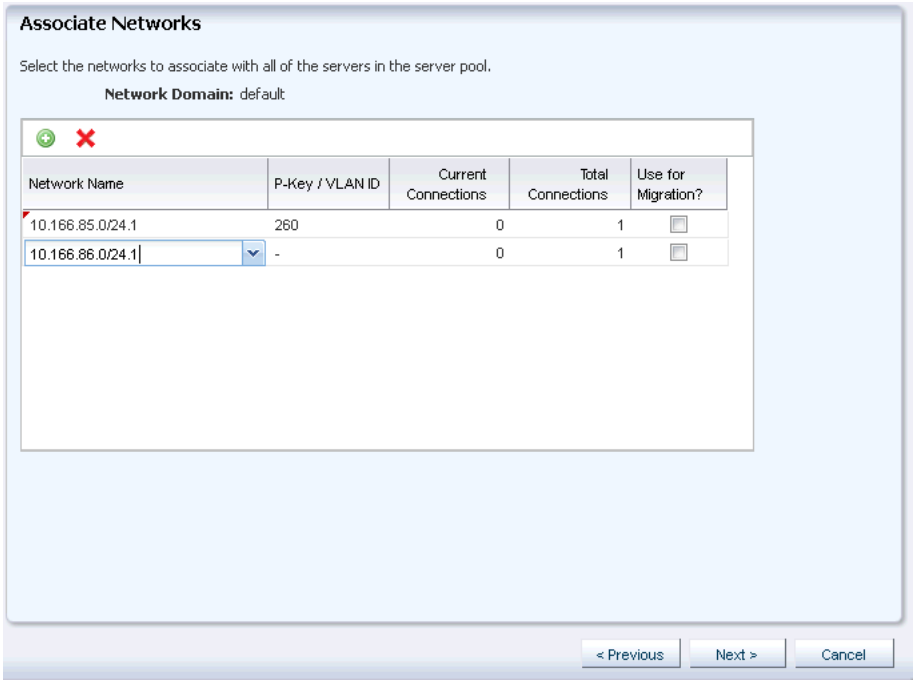
   Oracle VM Servers display the CPU architecture, type, and frequency. Select the Oracle VM Servers to add to the new server pool.



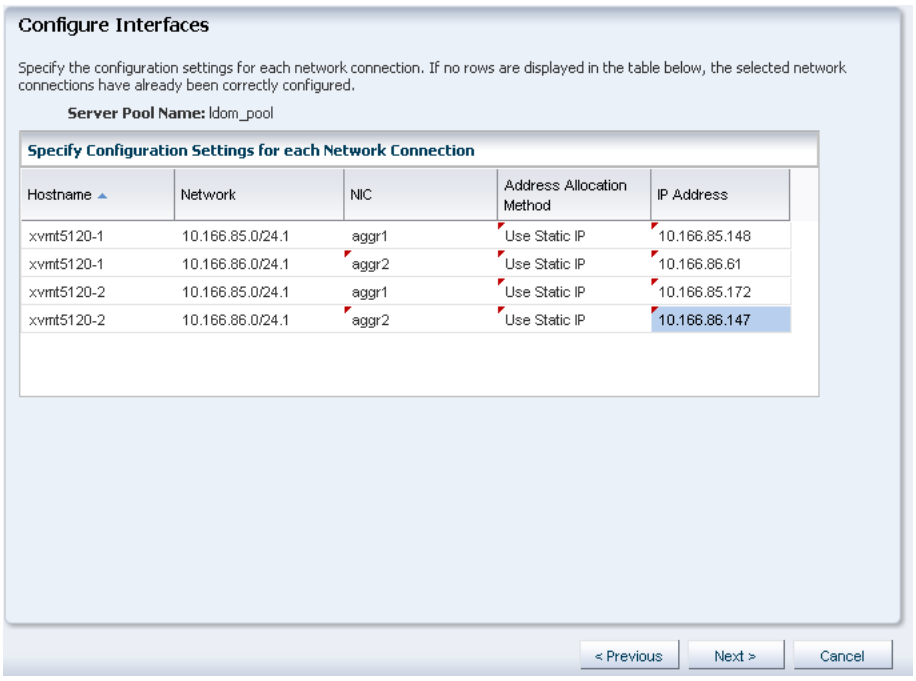
5. Select the default network domain to associate with the server pool, then click Next.



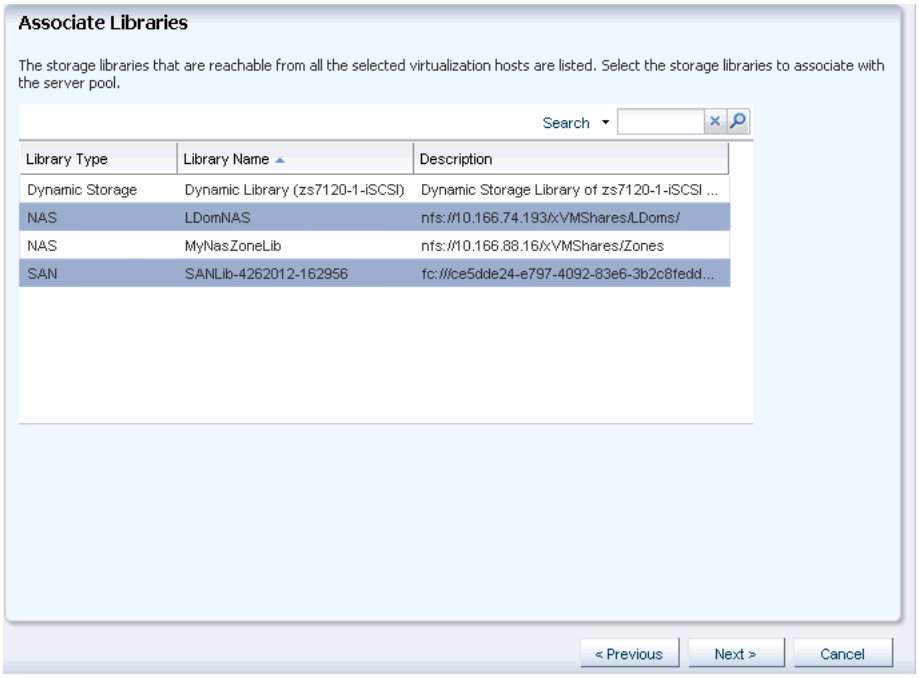
6. For default network domain, click the Add Network icon to add the networks that are declared and managed in Oracle Enterprise Manager Ops Center to associate with the servers in the server pool, then click Next.



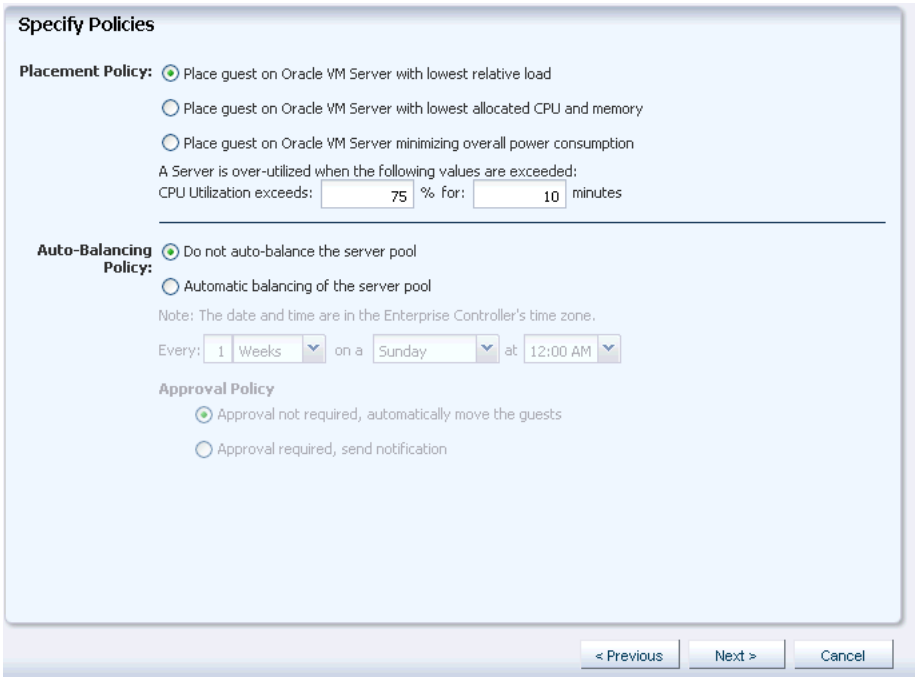
7. For each network connection, provide the connection details, then click Next.
   - Specify the NIC and IP address for each network connection.
   - Select Use Static IP to allocate an IP address for the network connection.



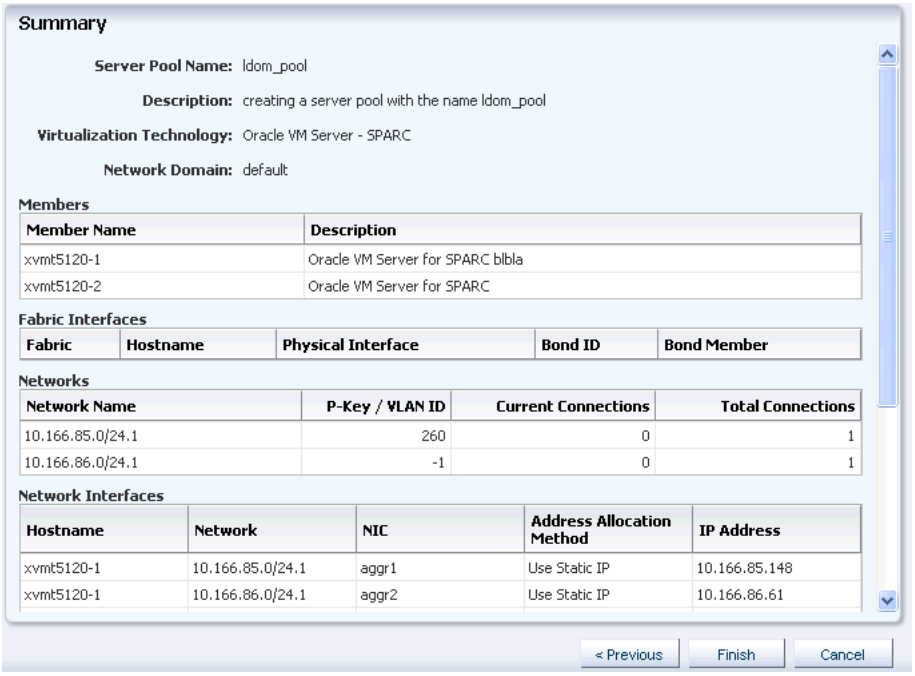
8. Storage libraries that are reachable from the selected members of the pool are displayed. Select a NAS and a SAN storage library to associate with the server pool, then click Next.



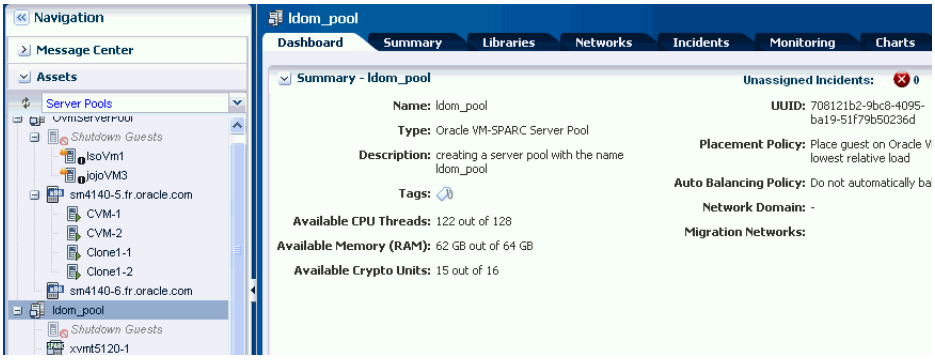
9. Select the placement policy – Place guest on Oracle VM Server with lowest relative load and the auto balancing policy – Do not auto - balance the server pool, then click Next.



10. Review the server pool information, then click Finish to create the server pool.



After the creation of the server pool, you can see the server pool for Oracle VM Server for SPARC in the Navigation pane.



What's Next?

After creating the server pool for Oracle VM Server for SPARC, the next step is to manage the resources in the server pool. Oracle Enterprise Manager Ops Center provides the following management features:

- Edit server pool parameters
- Add virtualization hosts
- Associate network domains
- Attach networks
- Associate libraries
- Create logical domains
- Migrate logical domains
- Balance resources

- Delete server pool

Related Articles and Resources

For more information on creating a server pool for Oracle VM server for SPARC, see the following:

- *Oracle Enterprise Manager Ops Center Feature Reference Guide*
- *Oracle Enterprise Manager Ops Center Configuring and Deploying Oracle VM Server for SPARC Guide*
- *Oracle Enterprise Manager Ops Center Configuring and Installing Logical Domains Guide*
- See http://docs.oracle.com/cd/E27363_01/index.htm for Oracle Enterprise Manager Ops Center documentation.
- See http://docs.oracle.com/cd/E23120_01/index.html for Oracle VM Server for SPARC 2.1 version documentation.

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