

# Oracle® Enterprise Manager Ops Center

Managing the Configuration of a Logical Domain

12c Release 1 (12.1.2.0.0)

E27361-02

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

## Introduction

Oracle Enterprise Manager Ops Center provides operations for managing logical domains. A logical domain is created in a virtualization host, that can either be stand-alone or placed in a server pool.

When you create a logical domain, you define the required resources for it. After you create the logical domain, you can manage the resources and add new resources.

This guide shows you how to manage the configuration of a logical domain, including modifying the allocated CPU threads and memory units, adding storage, and adding network resources.

You can modify the logical domain configuration, storage, and network resource configuration either in running or in shutdown state. In this example, the logical domain used is in a shutdown state before starting to manage its configuration.

See [Related Articles and Resources](#) for links to related information and articles.

## What You Will Need

In this example, you will need the following to manage a logical domain configuration:

- A user with the Virtualization Admin role to perform all of the operations described in this example.
- A logical domain, in shutdown state, and in an Oracle VM Server for SPARC 2.1 version that is placed in a server pool.
- A NAS storage library to associate with the logical domain.
- At least one available network to assign to the logical domain.
- At least two CPU threads, and 2048 MB of memory to assign to the logical domain.

## Managing Logical Domain Configuration Actions

The following actions are available to manage the configuration of a logical domain in Oracle Enterprise Manager Ops Center:

- [Adding Storage](#)

- [Connecting a Logical Domain to a Network](#)
- [Editing CPU and Memory Utilization](#)

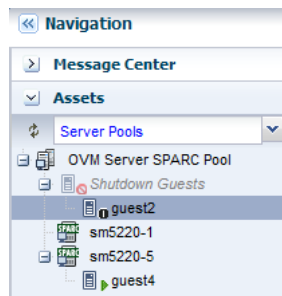
## Adding Storage

Storage libraries provide the storage resources required for a logical domain. When you associate a storage library with an Oracle VM Server, the library becomes available for the logical domain running in that host. A logical domain in a server pool can access and share storage associated with a server pool. You can add storage from the libraries that are available to the logical domain.

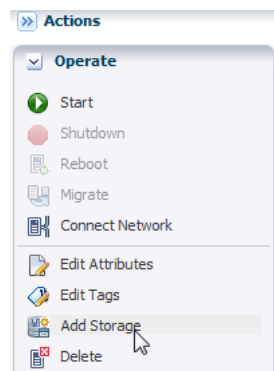
In this example, a virtual disk is added to a logical domain from a NAS storage library associated with the server pool.

The following procedure details the steps required to add storage to a logical domain:

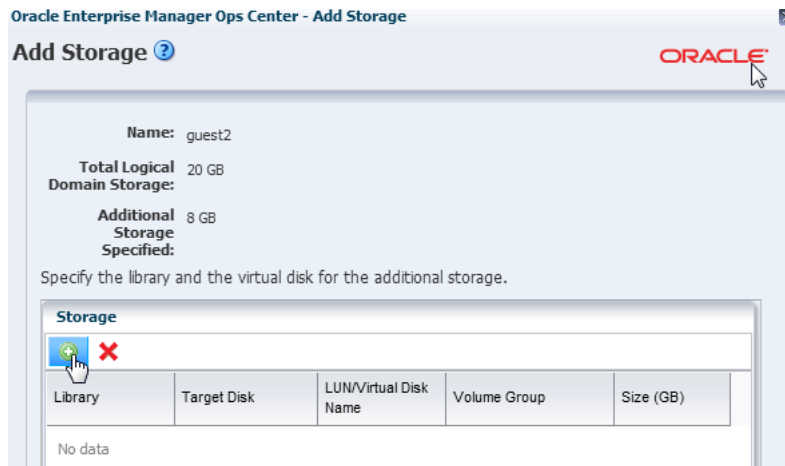
1. Select Server Pools from the Assets section in the Navigation pane.
2. Select the logical domain that is in shutdown state.



3. Click Add Storage in the Actions pane.

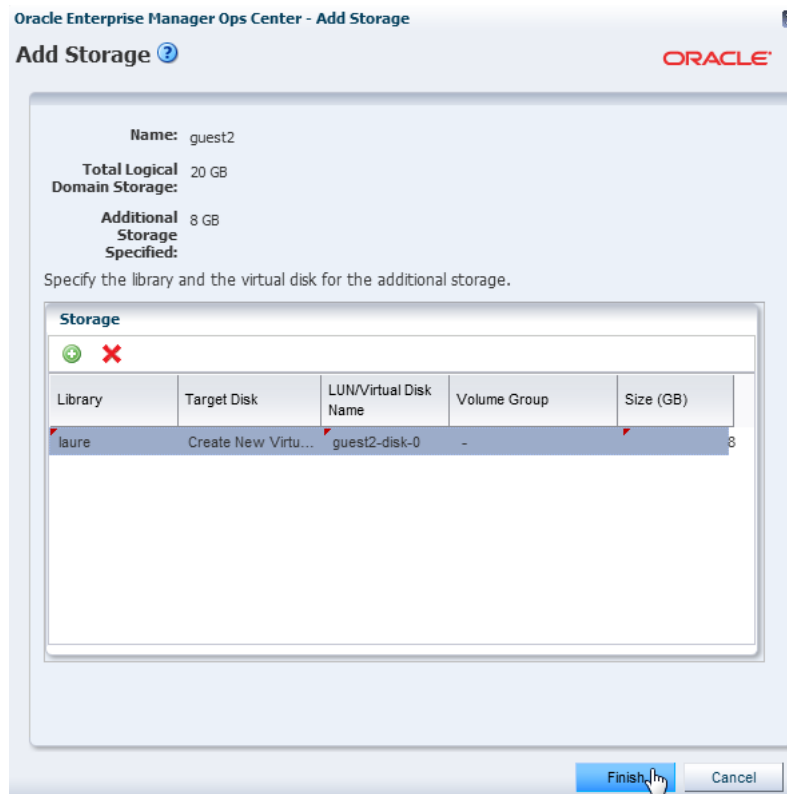


4. Click the Add icon to add storage.



The storage libraries associated with the server pool are listed. The library can be a local storage, NAS, local device, Dynamic Storage, or SAN library.

5. Select the NAS library from the list.
6. Enter a virtual disk name in the LUN/Virtual Disk Name field, and specify the size for the disk. The selection of virtual disks varies according to the library selected. Click Finish to add the specified storage to the guest.



The specified storage is added to the logical domain.

Virtual Disk Name	Library	Type	Size (GB)
600144f0d54400f500004f71b73d0004	SANLib-FC	SAN	20
guest2-disk-0	laure	NFS	8

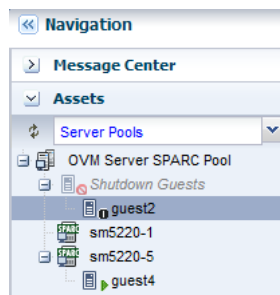
## Connecting a Logical Domain to a Network

A network enables logical domains to communicate with each other or with the Internet. When a network is assigned to a server pool, the network is accessible from each virtualization host in the pool. You can connect a logical domain to an accessible network assigned to a server pool.

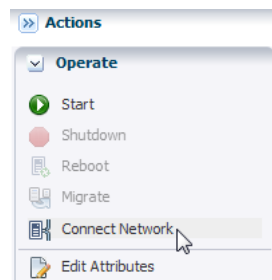
In this example, a logical domain, in shutdown state, is connected to a network.

The following procedure describes the steps to connect a logical domain to a network:

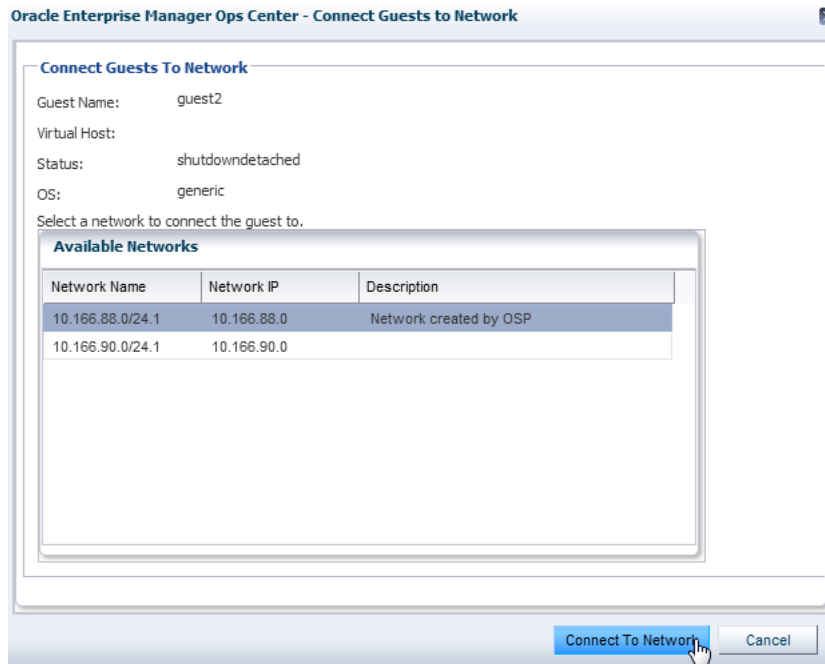
1. Select Server Pools from the Assets section in the Navigation pane.
2. Select the logical domain that is in shutdown state.



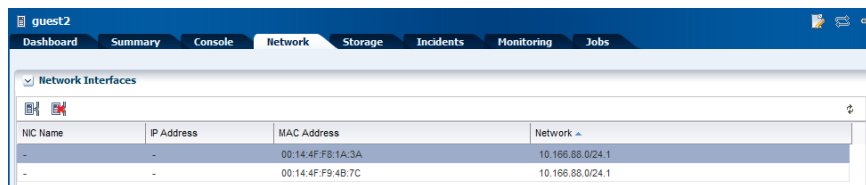
3. Click Connect Network in the Actions pane.



4. Only available networks that are not currently connected to the selected logical domain appear in a table. Select the networks to which you want to connect the guest, and click Connect To Network to finish.



The specified network is connected to the logical domain.



You can use the networks connected to the logical domain to create IPMP groups or link aggregations in the logical domain operating system.

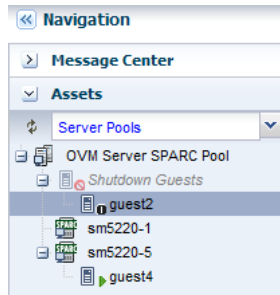
## Editing CPU and Memory Utilization

The CPU allocation and memory are defined when you create a logical domain. You can modify the configuration of a logical domain to change the CPU or memory resources.

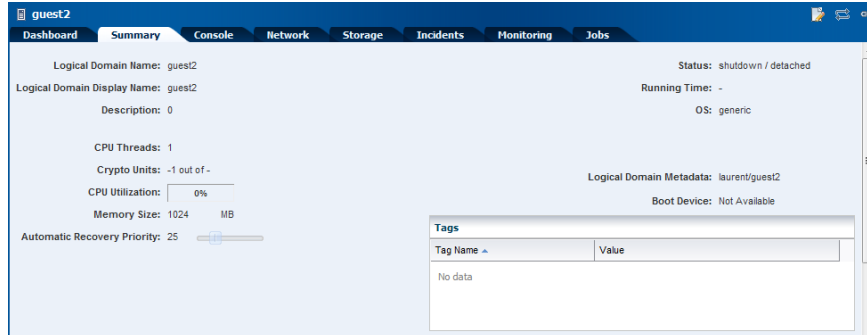
In this example, a logical domain's CPU threads and memory allocation are modified.

The following procedure takes you through the steps to edit the CPU and memory utilization of a logical domain:

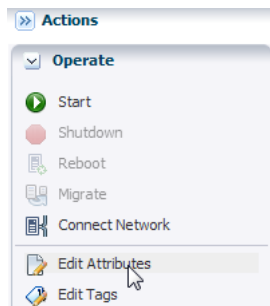
1. Select Server Pools from the Assets section in the Navigation pane.
2. Select the logical domain that is in shutdown state.



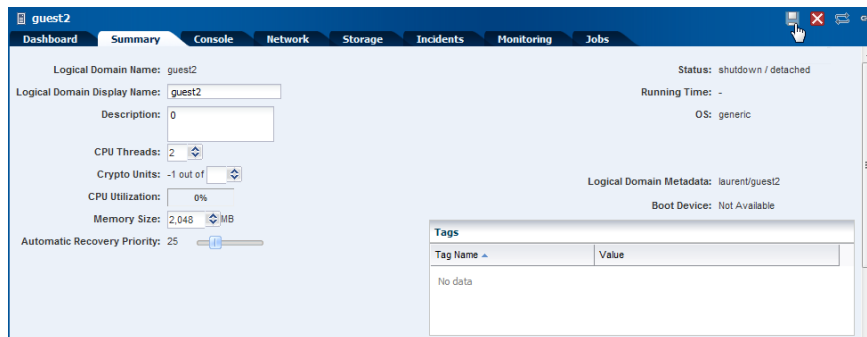
3. Click the Summary tab to see the logical domain's CPU and memory utilization.



4. Click Edit Attributes in the Actions pane.  
The information displayed in the Summary tab is now editable.

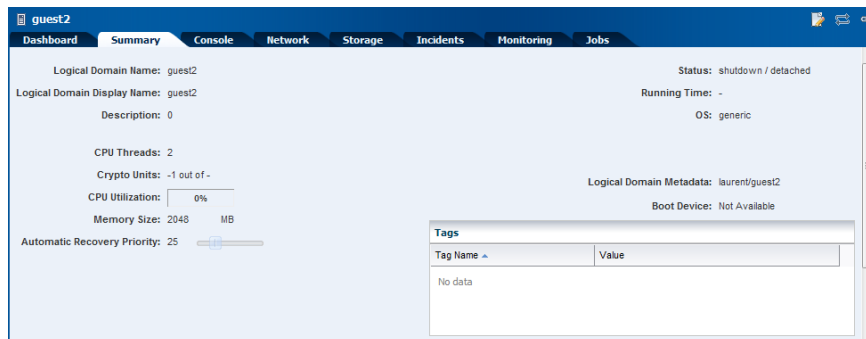


5. In this example, change the number of CPU threads from 1 to 2, and double the amount of memory that you want to assign to the logical domain. Click the Save icon to save changes.



The specified CPU and memory utilization information is applied to the logical domain. When supported, the change in the configuration is applied dynamically on a logical domain that is in a running state. If the logical domain is running on an Oracle

VM Server for SPARC version earlier than 2.0, you cannot dynamically modify the memory size of a logical domain. When dynamic change is not supported, a warning message appears. The logical domain is rebooted, and the change in the configuration is applied.



## What's Next?

After managing your logical domains configuration, you can manage their life cycle with operations such as shut down, start, suspend, resume, or reboot. You can also migrate your logical domains from one virtualization host to another virtualization host.

## Related Articles and Resources

The following chapters in the *Oracle Enterprise Manager Ops Center Feature Reference Guide* contain more information about logical domains and server pools:

- Oracle VM Server for SPARC
- Server Pools

Other examples are available at

[http://docs.oracle.com/cd/E27363\\_01/nav/howto.htm](http://docs.oracle.com/cd/E27363_01/nav/howto.htm).

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