Oracle® Enterprise Manager Ops Center

Deploy Storage Libraries Workflow

12*c* Release 2 (12.2.0.0.0)
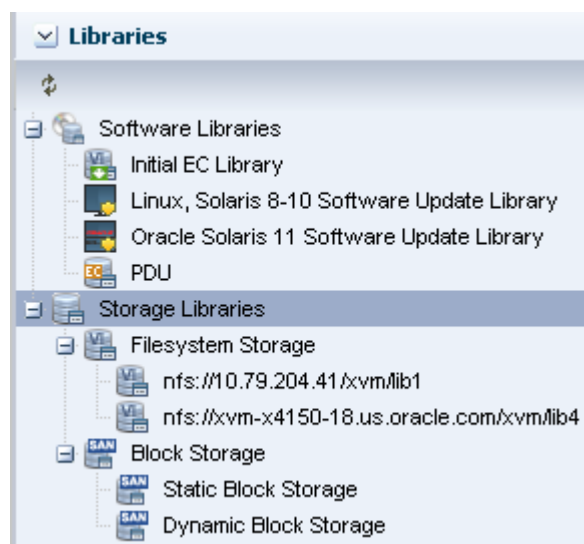
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This workflow provides an end-to-end example for how to use Oracle Enterprise Manager Ops Center. Workflows are divided into two categories: Deploy and Operate. Each workflow is a compilation of several examples.

Introduction

This Deploy workflow shows how to use Oracle Enterprise Manager Ops Center to deploy the storage infrastructure that stores the metadata of virtualization hosts and guests and for storing the data from operations.

The virtualization hosts and server pools store their metadata and their operational data in storage libraries. The storage libraries support Oracle Solaris Zones, Oracle VM Servers for SPARC, Oracle VM Servers for x86, their server pools, guests, and virtual datacenters. The storage libraries are displayed in the Libraries section of the Assets pane, as shown in Figure 1.

Figure 1   Storage Libraries

A storage library can use file system or block storage:

- **Filesystem Storage**: Filesystem storage libraries are either on a local filesystem on the Enterprise Controller or a share on an NFS server.

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- **Block Storage**: Stores groups of Logical Unit Numbers (LUNs) that you associate with the virtualization technologies. Block storage is backed by Fibre Channel disks or iSCSI disks in the form of LUNs. Block storage is either static or dynamic:

  - **Static Block Storage**: You use the storage device's user interface to create, edit, and delete the LUNs. You can use these LUNs in the Oracle Enterprise Manager Ops Center software.

  - **Dynamic Block Storage**: You can use Oracle Enterprise Manager Ops Center to create, resize, delete, and clone LUNs. You create a dynamic block storage library when you use Oracle Enterprise Manager Ops Center to discover and manage a storage device that has iSCSI LUNs.

Required Permissions and Roles

The following permissions and roles are required to complete the tasks in the workflow:
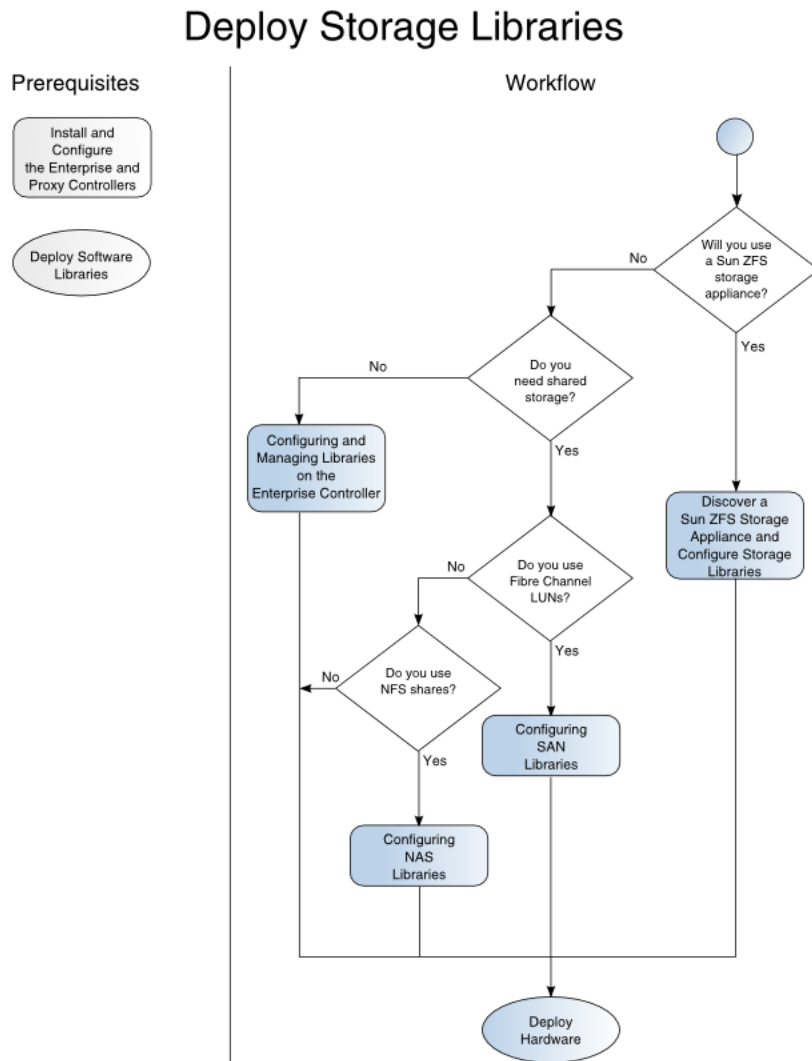
- Asset Admin
- Storage Admin

Workflow

Before you begin this workflow, ensure that Oracle Enterprise Manager Ops Center is installed and configured. The software libraries can be deployed during the installation or in a procedure at a later time.

The workflow in Figure 2 shows the prerequisites on the left and the tasks and decisions on the right. The following documents are referenced in Figure 2:

- Install and Configure the Enterprise and Proxy Controllers

  See the *Oracle Enterprise Manager Ops Center Installation Guide for Linux Operating Systems* or the *Oracle Enterprise Manager Ops Center Installation Guide for Solaris Operating Systems*.

- *Discover a Sun ZFS Storage Appliance and Configure Storage Libraries*
- *Configuring and Managing Libraries on the Enterprise Controller*
- *Configuring SAN Libraries*
- *Configuring NAS Libraries*

Figure 2   Deploy Storage Libraries Workflow

Deploy Storage Libraries

Prerequisites

- Install and Configure the Enterprise and Proxy Controllers
- Deploy Software Libraries

Workflow

Will you use a Sun ZFS storage appliance?
- No → Do you need shared storage?
  - No → Configuring and Managing Libraries on the Enterprise Controller
  - Yes → Do you use Fibre Channel LUNs?
    - No → Do you use NFS shares?
      - No
      - Yes → Configuring NAS Libraries
    - Yes → Configuring SAN Libraries
- Yes → Discover a Sun ZFS Storage Appliance and Configure Storage Libraries

Deploy Hardware

What's Next?

At the end of this workflow, you will have storage libraries available as the storage resource for virtualization technologies. See the *Deploy Hardware Workflow* for the instructions to add assets.

Related Articles and Resources

The Oracle Enterprise Manager Ops Center 12c documentation is located at http://docs.oracle.com/cd/E40871_01/index.htm. See the *Oracle Enterprise Manager Ops Center Feature Reference Guide* has information about storage libraries.

For more examples and workflows, see the Deploy How To library at http://docs.oracle.com/cd/E40871_01/nav/deployhowto.htm and the Operate How To library at http://docs.oracle.com/cd/E40871_01/nav/operatehowto.htm

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