

Oracle® Enterprise Manager Ops Center

Deploying Software Libraries on the Enterprise Controller

12c Release 2 (12.2.0.0.0)

E41135-01

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

Introduction

A software library stores images for operating system and when you apply a deployment plan that provisions an operating system, Oracle Enterprise Manager Ops Center retrieves the images from this software library.

During product installation, the location of the library and the connection to the Oracle site is established. When the software library is initialized, the Enterprise Controller downloads the OS images and then maintains the content of the software library by downloading any available updates periodically. Use the procedures in this document to establish the library after installation. If you are unsure whether the library has been created or whether the downloading of OS files has completed, see [Viewing the State of an OS Update Library](#).

About the Content For Oracle Solaris 11

The Oracle Solaris 11 Package Repository includes OS images and metadata, such as package dependencies, package compatibilities, withdrawn updates, and deployment rules. During its installation, Oracle Enterprise Manager Ops Center creates a local Image Packaging System (IPS) repository named Oracle Solaris 11 Update Library and establishes the connection to the Oracle Solaris 11 Package Repository so that the library can be updated.

About the Content For Oracle Solaris 10, 9, and 8, and Linux

The Oracle Knowledge Base includes OS images and metadata, such as package dependencies, package compatibilities, withdrawn updates, and deployment rules for Oracle Solaris 10, 9, and 8, and Linux. During its installation, Oracle Enterprise Manager Ops Center creates a local software library named Linux, Oracle Solaris 8-10 Update Library and establishes the connection to the Oracle Knowledge Base so that the library can be updated.

What You Will Need

You will need the following to create and maintain a local software library:

- Enterprise Controller running in Connected mode.
- You must have the role of Storage Admin to create software libraries.

- You must add My Oracle Support (MOS) credentials to Oracle Enterprise Manager Ops Center's authentications. The MOS credentials are necessary to access the Knowledge Base and download content for Oracle Solaris 10, 9, and 8, and Linux.
- To create an Oracle Solaris 11 Update Library, the systems that run the Enterprise Controller and the Proxy Controllers must use Oracle Solaris 11.
- The Oracle Solaris 11 Package Repository resides at the Oracle site: <http://pkg.oracle.com/solaris/release/>.

The Support Repository Updates (SRUs) for Oracle Solaris 11 are released monthly and contain bug fixes or minor feature enhancements. This repository is available to users with a support contract at <https://pkg.oracle.com/solaris/support>.

These repositories have the role of Publisher and Parent for your local repository.

Other parent repositories, such as Oracle Solaris Cluster, are available. For a list of available Oracle repositories and to download the key-certificate pair, see the <https://pkg-register.oracle.com> site.

- You must provide the full path for the library's location.

Creating and Maintaining a Software Library

The following tasks create a new local software library that accepts the routine download operations:

- [Creating an Oracle Solaris 11 Update Library](#)
- [Creating an Oracle Solaris 8-10, and Linux Update Library](#)
- [Viewing the State of an OS Update Library](#)

Creating an Oracle Solaris 11 Update Library

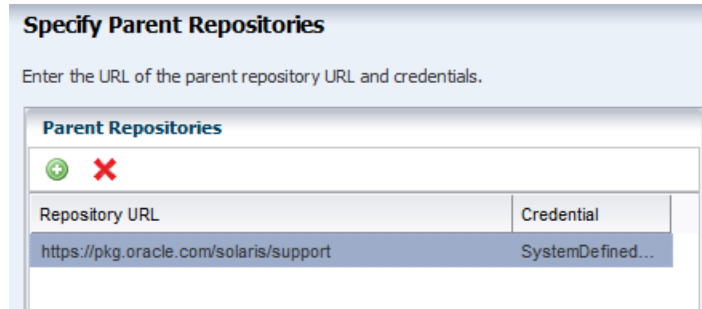
1. Expand Libraries in the Navigation pane.
2. Click **Software Libraries**.



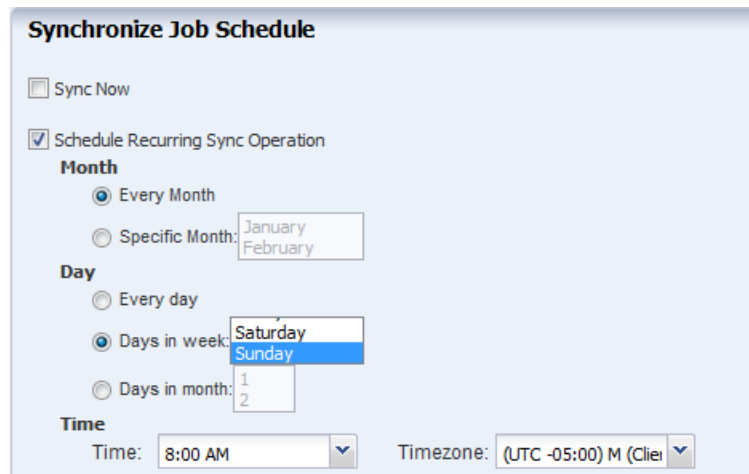
3. Click **Initialize Solaris 11 Software Update Library** in the Action pane.
4. Specify the location you want to use for the software library.

 A screenshot of a dialog box titled 'Specify Library Location'. It contains a text input field with a red asterisk next to the label '* Specify Library Location:'. Below the field, there is explanatory text: 'For a local library, specify a path in the root directory. For an NFS Local Library, specify the path to the NFS server.' Two example paths are provided: 'Example Local Path: file:///export/virtlibs/lib0/' and 'Example NFS Path: nfs://192.168.1.1:7272/iso/'. A mouse cursor is visible over the bottom right of the dialog.

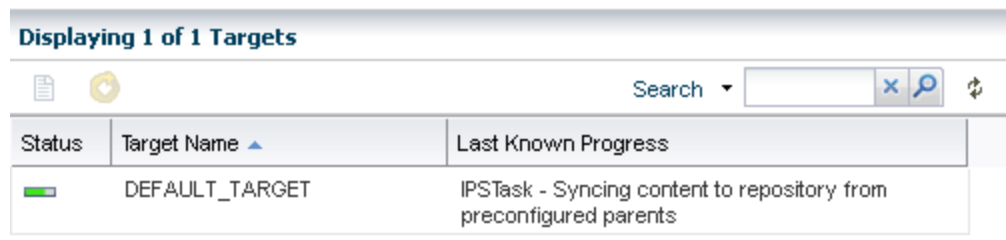
5. Enter the URL of the parent repository and enter your My Oracle Support credentials.



6. The download operation takes several hours. Check the Sync Now checkbox to start immediately and then specify a time when the Enterprise Controller's system is not busy to update the library.



7. Review your selections and click OK to start the download job.
8. To follow the progress of the job, view the job detail. Open the Jobs pane and select the Configure Software Update Libraries job.



9. When the job is completed, the state of the library is OK, as described in [Viewing the State of an OS Update Library](#).

Creating an Oracle Solaris 8-10, and Linux Update Library

1. Expand Libraries in the Navigation pane.
2. Click **Software Libraries**.

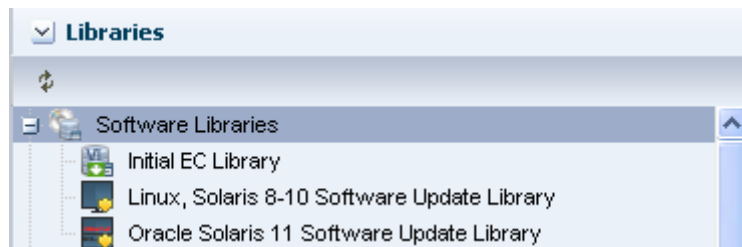
3. Click **Create Update Library** in the Action pane.
4. Specify the full path for the location of the new library.
5. Enter your My Oracle Support credentials to start the download process.

Viewing the State of an OS Update Library

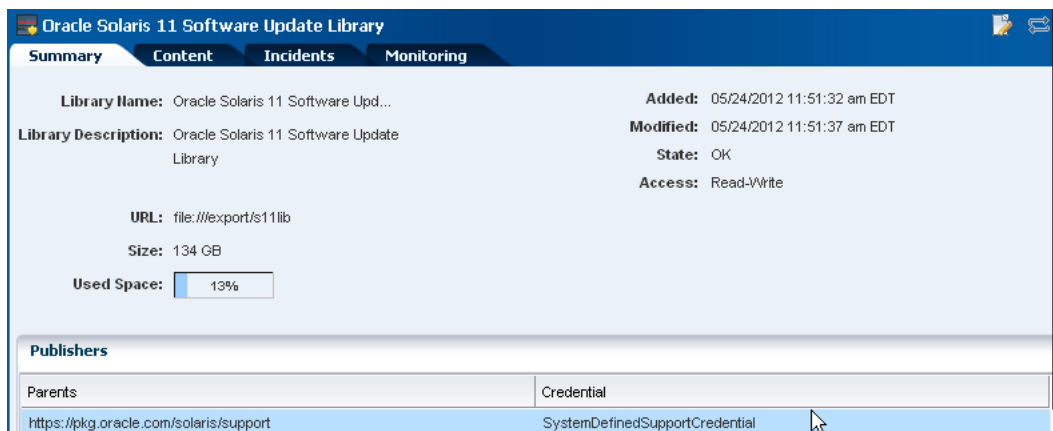
The download operation often takes several hours, so to follow the progress of the job or verify that there is no job in progress for this task, use the following procedure:

1. Expand Libraries in the Navigation pane.
2. Click **Software Libraries**.

If the job to create the library has been submitted, the name of the library is displayed in the Navigation pane.



3. Click the library and view the Summary tab in the center pane. The following figure shows the Summary tab for the Oracle Solaris 11 Software Update Library.



- If the State is OK, the library has been configured and the packages have been downloaded.
- If the State is Syncing, the library is in the process of updating the downloaded packages and is not available for provisioning operations. Wait for the state to return to OK.
- If the State is Configuring, the library is in the process of downloading the packages. Wait for the job to complete and the state to change to OK. To follow the progress of the job, view the job detail. Open the Jobs pane and select the Configure Software Update Libraries job.

- If the State is Unconfigured, the library was not created during product installation. You can create the library using the appropriate action in the Actions pane.

What's Next?

With OS images in their software libraries, you can now install operating systems. See the *Deploy Operating Systems Workflow* in the Deploy How To library at http://docs.oracle.com/cd/E40871_01/nav/deplohowto.htm

In addition to OS images, you can place firmware images in a software library. See *Keeping Your Firmware Up-to-Date* in the Operate How To library at http://docs.oracle.com/cd/E40871_01/nav/operatehowto.htm.

Related Articles and Resources

The Software Libraries chapter in the *Oracle Enterprise Manager Ops Center Feature Reference Guide* contains more information.

Oracle Enterprise Manager Ops Center Administration Guide has procedures for the harvester script.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

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