Oracle® Enterprise Manager Ops Center

Installing and Updating Local Software Packages

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

Introduction

In Oracle Enterprise Manager Ops Center, you can install and update local software packages for an operating system. After an operating system is installed, you can download and provision additional software packages and use patches to update existing components.

The software packages are stored in software libraries provisioned by Oracle Enterprise Manager Ops Center. You can install a component that is part of a software library in a discovered and managed operating system. Before you install a local software package, verify that the version of the software is adequate for the operating system and the type of server where you intend to install it.

This example describes how to install the Apache Ant 1.7.1 version software package for Oracle Solaris 10, running in an Oracle VM Server for SPARC. The example then describes how to update the Apache Ant software to the 1.8.2 version.

In this example, the local software package is installed by using an update profile and a deployment plan, and it is updated by modifying a system catalog.

For Oracle Solaris 11, the **View/Modify Catalog** action is not supported.

See Related Articles and Resources for links to related information and articles.

What You Will Need

You will need the following to install and update the local software package:

- Enterprise Controller installed and configured in connected mode.

- A user with the Storage Admin role to import software packages, and Update Admin role to update the Oracle Solaris 10 operating system.

- An Oracle VM Server for SPARC with Oracle Solaris 10 OS provisioned.

- A Linux and Oracle Solaris 8-10 Software Update Library to store the software package.

- Download and save the Apache Ant 1.7.1 and 1.8.2 versions for Oracle Solaris 10 (SPARC) software in pkg format in the `/var/tmp` directory on the Enterprise Controller system. You can download the `ant.1.7.1.SPARC.64bit.Solaris.10.pkg` and

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`ant.1.8.2.SPARC.64bit.Solaris.10.pkg` files from
http://www.ibiblio.org/pub/packages/solaris/sparc/.

Installing Local Software Packages

The following are the tasks to install and update a local software package for Oracle Solaris 10 OS:

- Uploading a Local Software Package
- Creating an Update Profile
- Creating a Deployment Plan
- Applying the Deployment Plan
- Updating the Local Software Package

Uploading a Local Software Package

In Oracle Enterprise Manager Ops Center, software packages are stored in software libraries. For Oracle Solaris 10, 9, and 8 and for Oracle Linux, a dedicated software library called Linux, Solaris 8-10 Software Update Library contains the packages, updates, and site-specific scripts and configuration files for these operating systems.

In this example, the `ant.1.7.1.SPARC.64bit.Solaris.10.pkg` and `ant.1.8.2.SPARC.64bit.Solaris.10.pkg` packages that are saved locally in the system where Enterprise Controller is installed, are uploaded to the Linux, Solaris 8-10 Software Update Library. The `ant.1.7.1.SPARC.64bit.Solaris.10.pkg` file is used to install the Apache Ant 1.7.1 version and the `ant.1.8.2.SPARC.64bit.Solaris.10.pkg` file is used later to update the software to the 1.8.2 version.

The following procedure details the steps required to upload the software package:

1. Expand **Libraries** in the Navigation pane, select **Software Libraries** and then select **Linux, Solaris 8-10 Software Update Library**.

2. Click **Upload Local Software Packages** in the Actions pane.
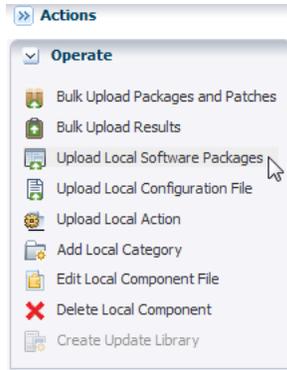
3. In the Tag as security fix option select **No**.

4. Select **SOLARIS10_SPARC** from the **Distribution** list.

5. In the **Parent Category** section, click **Browse** to locate a category.
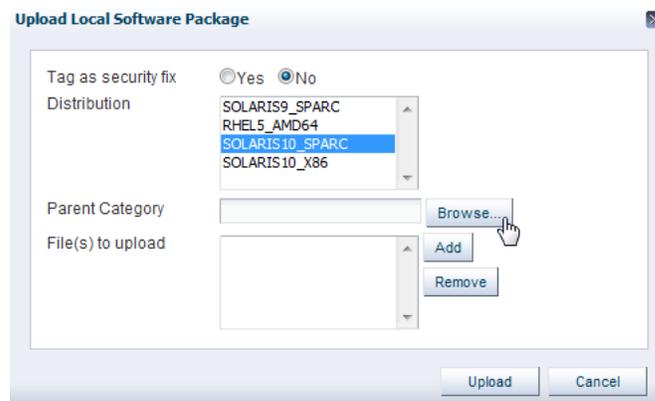
6. Select **SOLARIS10_SPARC** from the **Distribution** list, and select the **Local PKGs** option. Click **OK** to confirm the parent category.
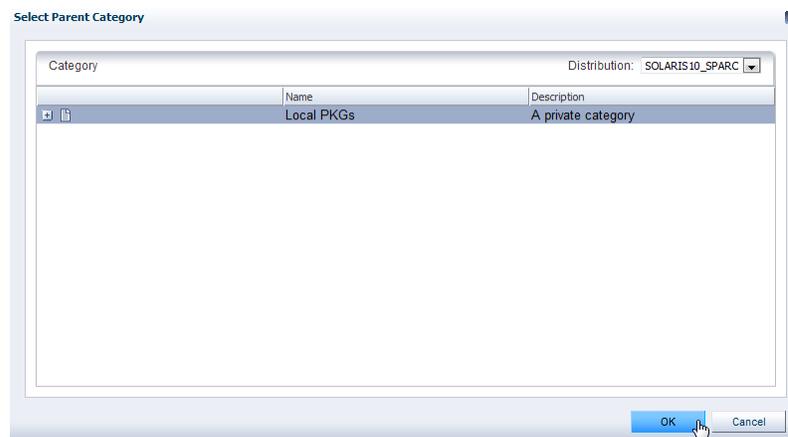
7. In the Files section, click **Add** to see the list of files. Locate the `ant.1.7.1.SPARC.64bit.Solaris.10.pkg` file in your system. In this example the file is located in `/var/tmp`. Select the file and click **OK**.
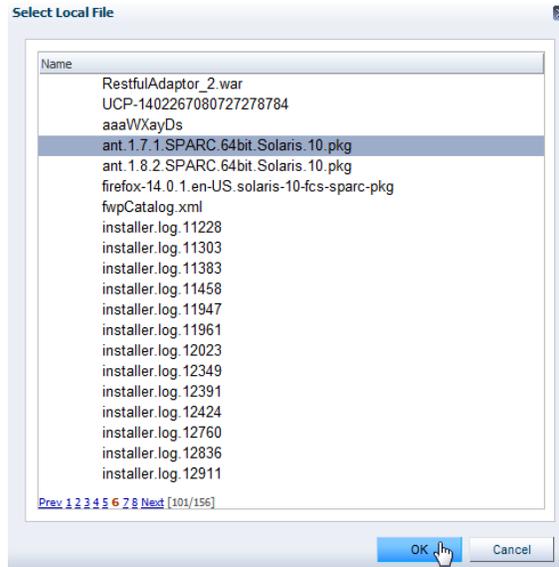
8. Click **Add** and locate the `ant.1.8.2.SPARC.64bit.Solaris.10.pkg` file. Select the file and click **OK**.
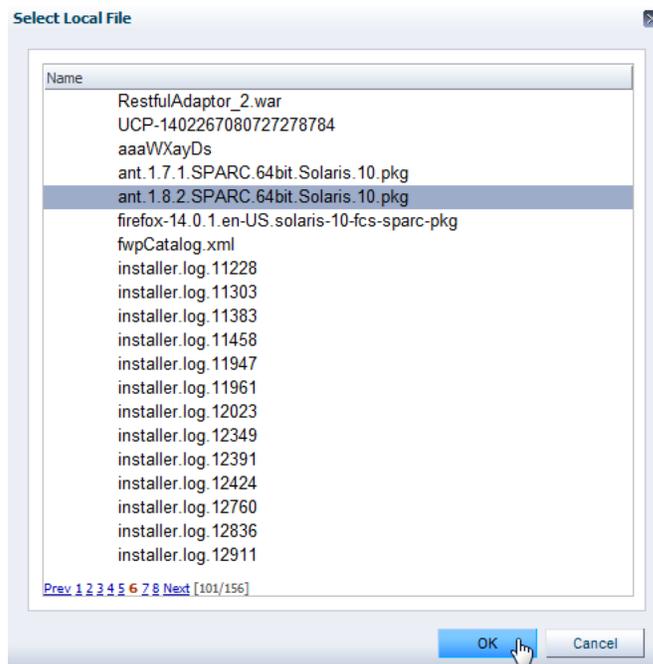
9. Click **Upload**. The file is uploaded to the Linux, Solaris 8-10 Software Update Library in the category you specified.

After you upload the software package, the `ant-1.7.1-0 [02/17/2011]` and `ant-1.8.2-0 [02/17/2011]` components are added to the list of components for the SOLARIS10_SPARC distribution:

Creating an Update Profile

Oracle Enterprise Manager Ops Center provides the option to create Update Profiles that help define which components must be installed or updated.

In this example an update profile is created and the `ant-1.7.1-0 [02/17/2011]` component is selected to be installed.

The following procedure details the steps required to create the update profile:

1. Expand **Plan Management** in the Navigation pane and select **Profiles and Policies**.

2. Click **Update Profiles**.

3. Click **New Profile** in the Actions pane.
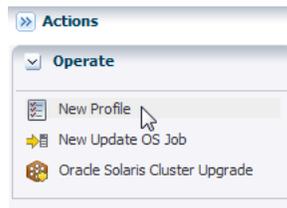
4. Enter the following information:

   ■ Name – Enter the name of the profile

   ■ Type – Enter the type as Install

   ■ Description – Enter the description of the profile

5. In the Search Criteria menu, select **SOLARIS10_SPARC** from the Distribution list, **all** from the Category list, and **All Versions** from the Version list

6. Type **ant** in the Search field and click the **Search** icon.
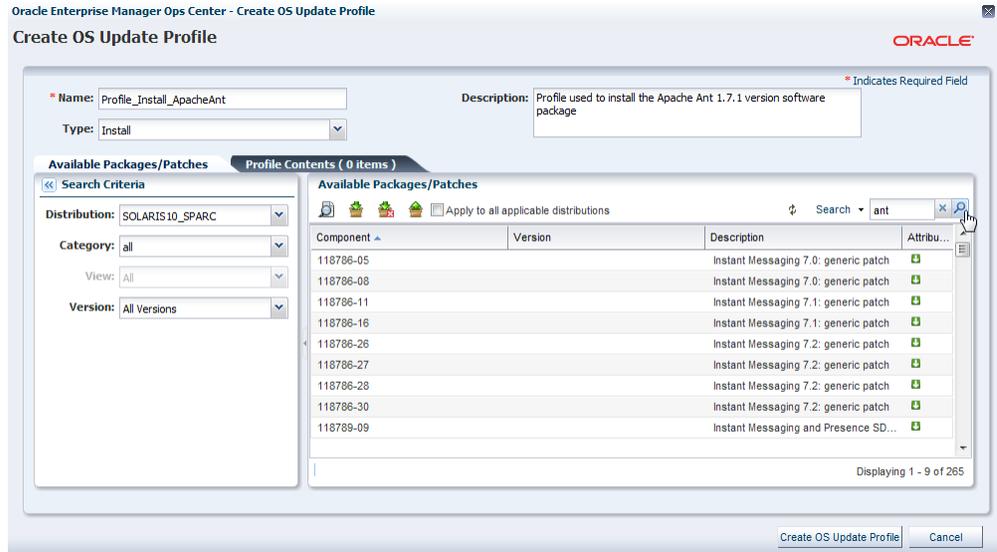
7. Locate and select the `ant-1.7.1-0 [02/17/2011]` component from the Component tree and click the **Install** icon to add the selected component in the Profile Contents.
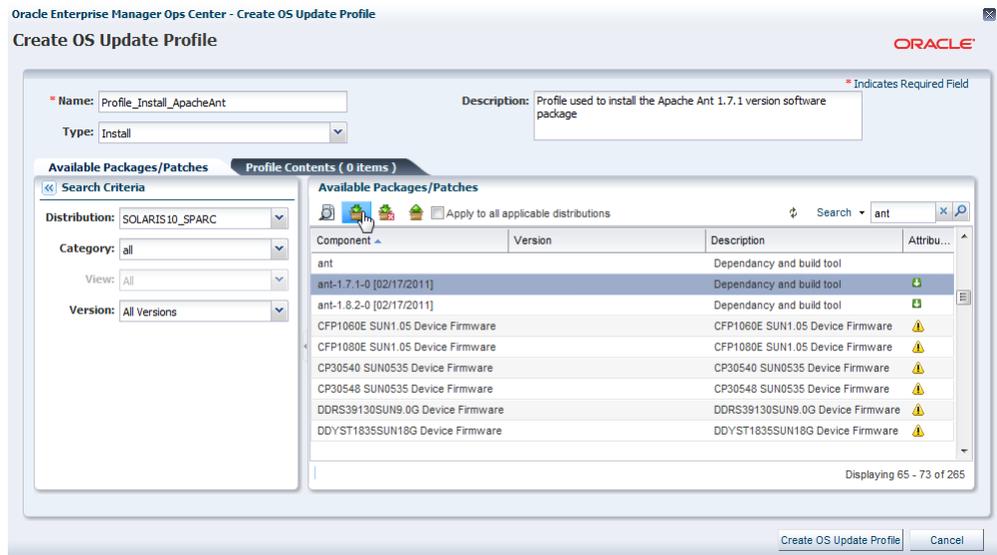
8. Click **Create OS Update Profile** to create the profile.

After the profile is created, you can view the profile in the center pane.

Creating a Deployment Plan

Deployment plans enable you to automate a variety of detailed workflows into a single plan. The deployment plan used to install or update a local software package for Solaris 10 is the Software Deployment / Update deployment plan.

The following procedure details the steps required to create a deployment plan:

1. Expand **Plan Management** in the Navigation pane and the select **Software Deployment / Update**.
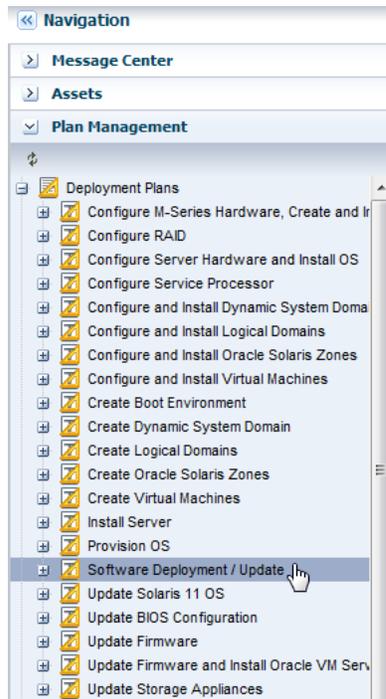
2. Click **Create Plan from Template** in the Actions pane.
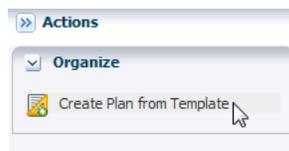
3. Enter a plan name and the plan description. Select the Failure Policy as **Complete as much as possible**.

4. Select **Install Software from the Deployment Plan Steps** table. In the Associated Profile/Deployment Profile column, select the update profile that you created in the previous procedure. Click **Save** to create the deployment plan.
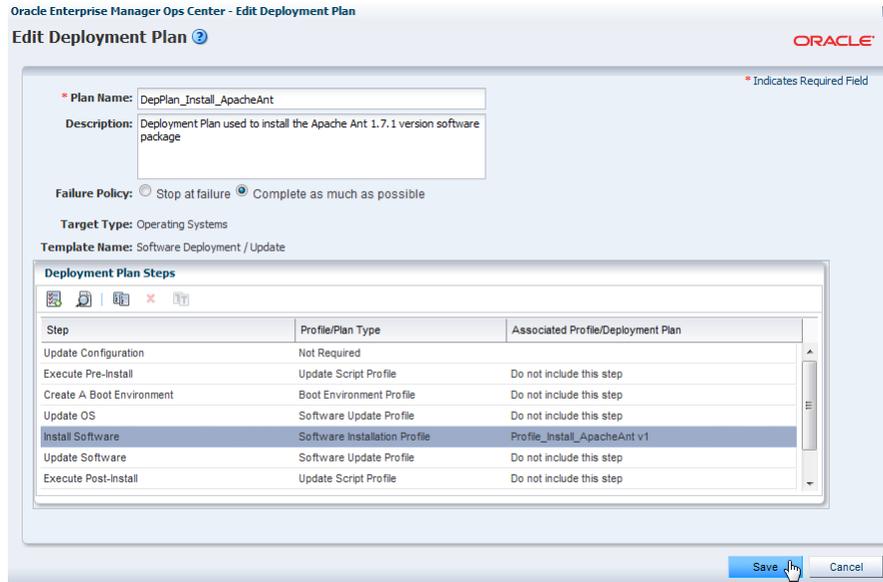
5. After the plan is created, you can view the plan in the center pane.
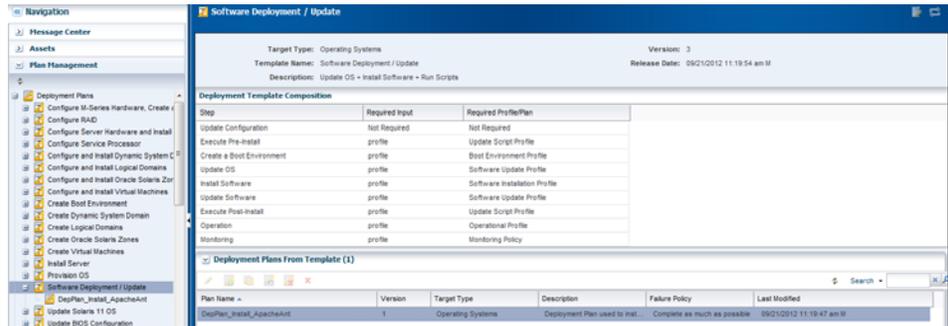
Applying the Deployment Plan

After you create a deployment plan, select the target asset for the deployment plan to install the local software package.

The following procedure details the steps to apply the deployment plan:

1. Expand **Plan Management** in the Navigation pane and select **Software Deployment / Update**. Select the deployment plan that you created in the previous procedure.
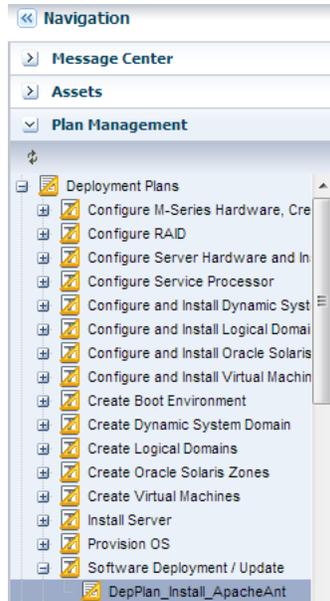
2. Click **Apply Deployment Plan** in the Actions pane.
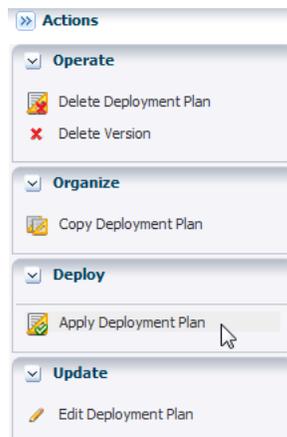
3. Select the **Oracle Solaris 10 OS** asset and click **Add to Target List**. Select **Apply the plan with minimal interaction**. Click **Next** to review the values of the deployment steps.
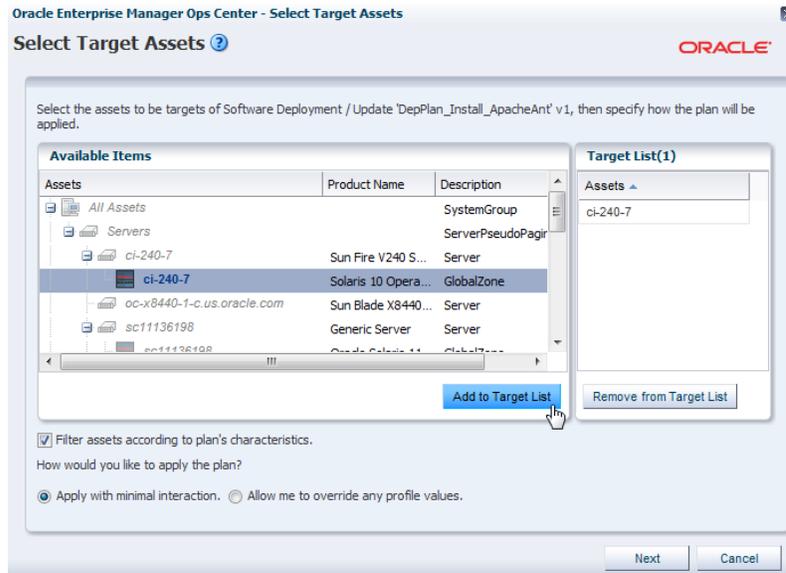
4. Select the **Do not review steps that are not included in the plan** option and click **Next**.

5. For the Global Update Settings window, select the Execution Mode as **Perform Update**, then click **Next**.
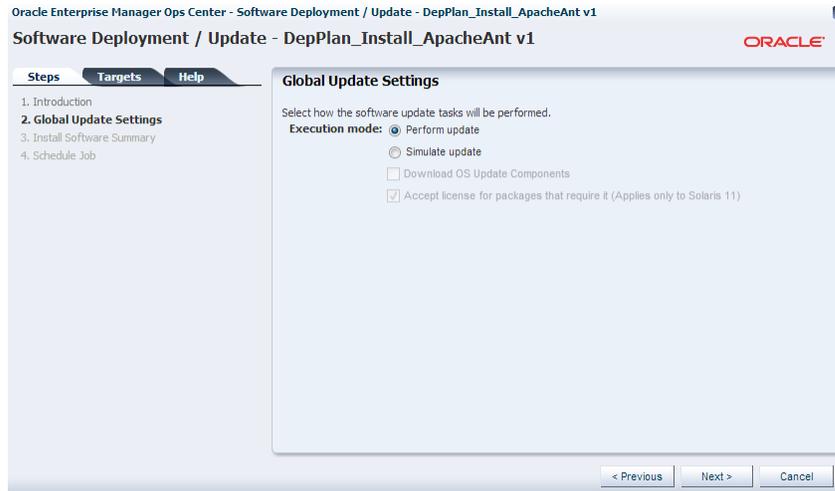
6. You can review the profile to be applied. Click **Next**.
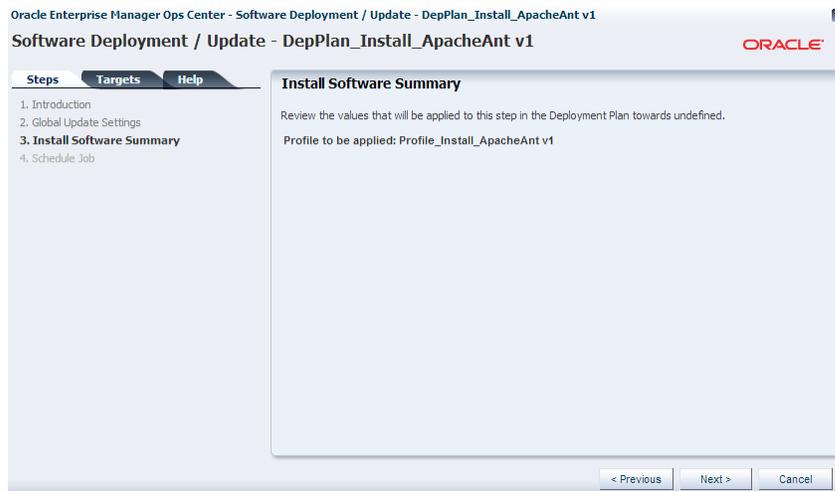
7. Select **Now** to execute the deployment plan on the selected targets and click **Apply** to submit the job and execute the deployment plan.
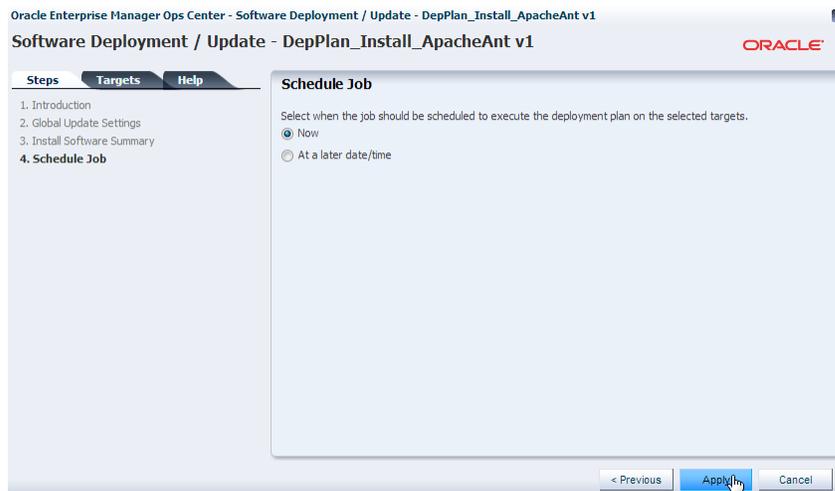
After the job is complete, you can open a terminal window and verify that Apache Ant 1.7.1 version is installed.
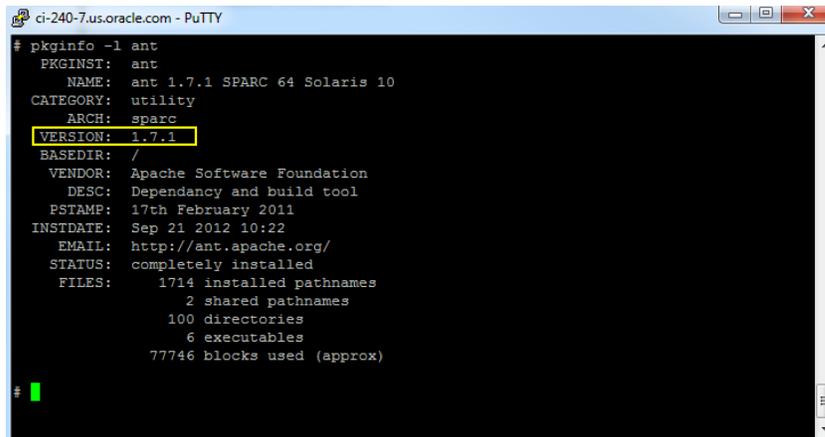
Updating the Local Software Package

You can update a software package that is already installed in an operating system. The patches or update packages necessary to update the software must be downloaded and saved locally in the machine where the Enterprise Controller is installed.

In this example, the Apache Ant software is updated from the 1.7.1 version to the 1.8.2 version. The update package was uploaded to the library as part of the Uploading a Local Software Package task.

In this example, the Apache Ant software package is updated by modifying a system catalog of the software system where the software is installed. A system catalog is a list of operating system software components that are installed on a managed system.

The following procedure details the steps required to update a local software package by modifying a system catalog:

1. Select the target operating system from the Assets section in the Navigation pane.
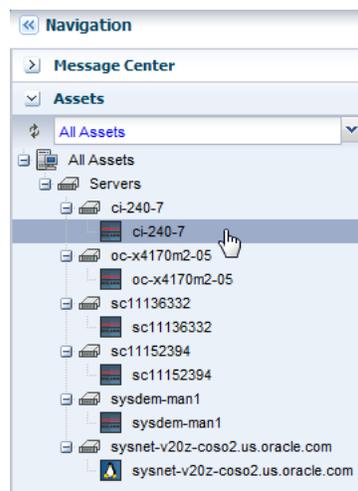
2. Click **View/Modify Catalog** in the Actions pane.
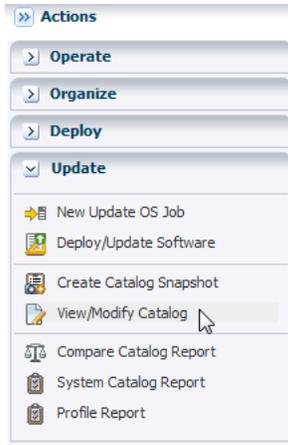
3. In the Search Criteria menu, select **Current Inventory** from the Catalog list, **SOLARIS10_SPARC** from the Distribution list, **all** from the Category list, **All** from the View list, **All Version**s from the Version list, and **All** from the State list.

4. Type **ant** in the Search field and click the **Search** icon.
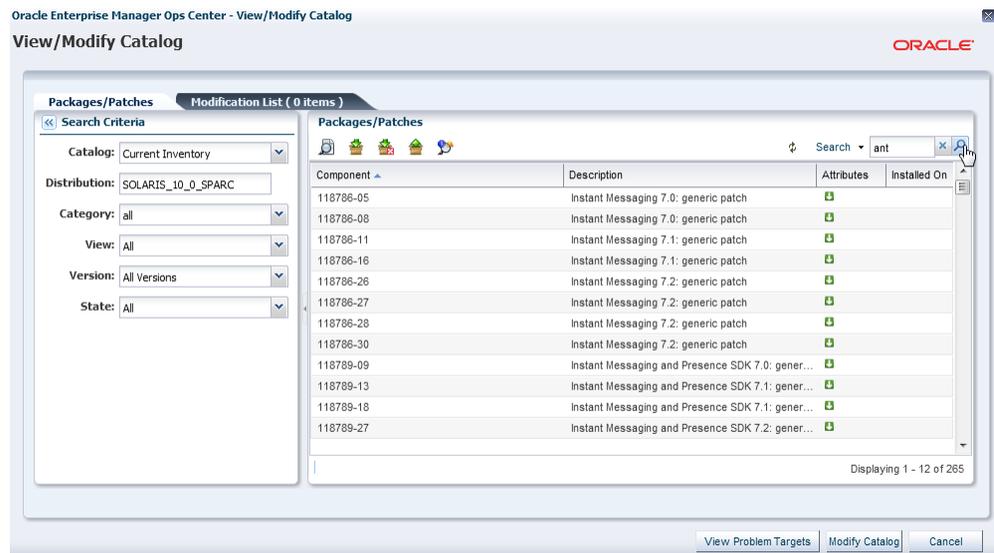
5. Locate and select the `ant-1.7.1-0 [02/17/2011]` component from the Component tree and click the **Upgrade** icon to add the selected component in the Modification List. The `ant-1.7.1-0 [02/17/2011]` component is updated to the `ant-1.8.2-0 [02/17/2011]` that is also displayed in the list of components.
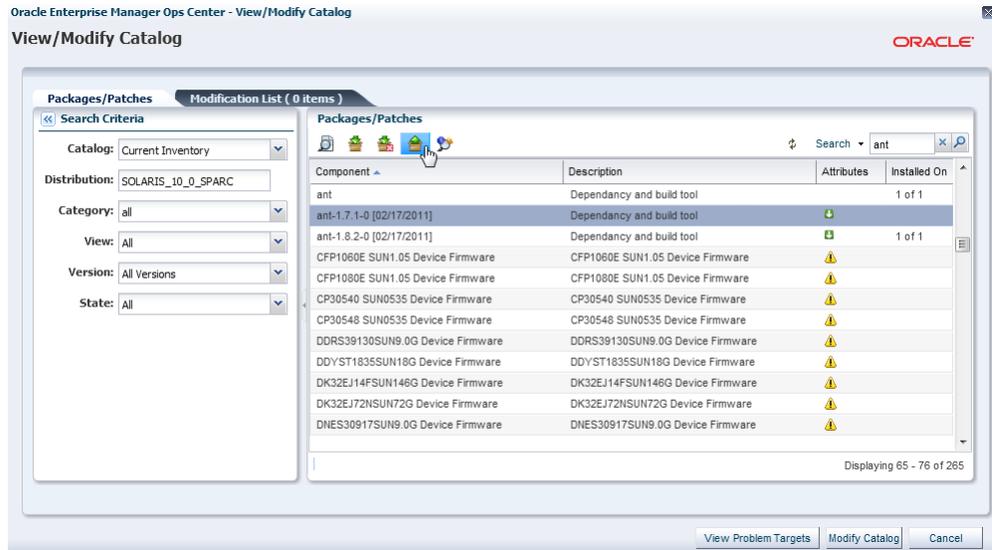
6. Click **Modify Catalog**. The New Update OS Job wizard is displayed.
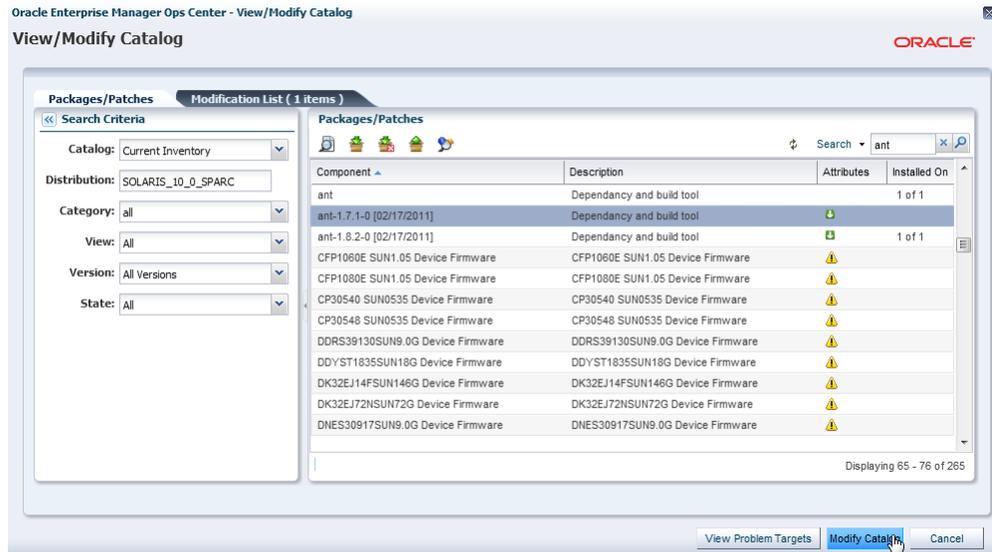
7. Enter a Job Name. Select **Use the same Targets for all tasks in the job** as the Target Setting, **Actual Run** as the Run Type, **Complete as much of the job as possible** as the Task Failure Policy, **Sequential** as the Task Execution Order. Click **Run Now** to start the job immediately.
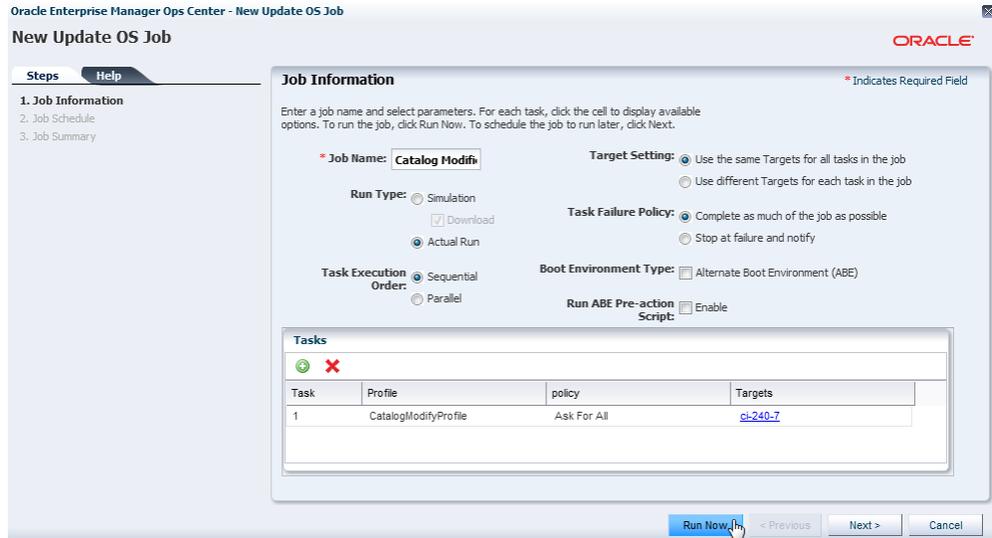
The job is launched to apply the update of the software package.

When the job is complete, you can open a terminal window and verify that Apache Ant 1.8.2 version is installed.
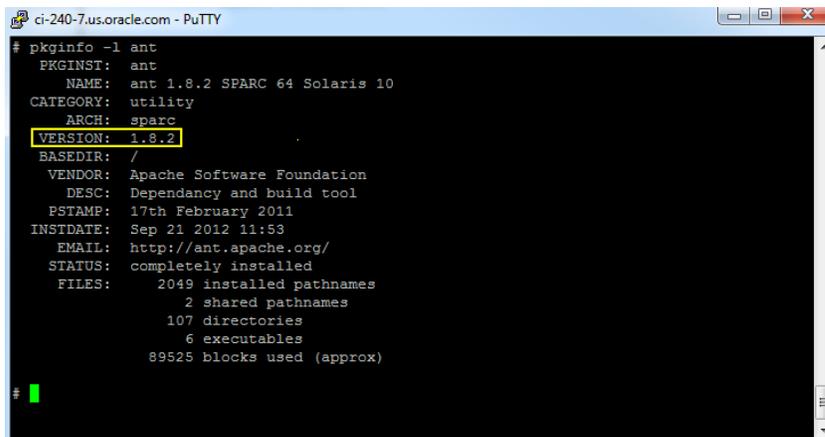
What's Next?

After installing the local software package you can use the software in the machine where you installed it to build Java applications. You can also install newer versions of the software or install other software packages.

Related Articles and Resources

The following chapters in the *Oracle Enterprise Manager Ops Center Feature Reference Guide* contain more information:

- Plans and Profiles
- Software Libraries
- Operating System Updates

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