Oracle® Banking Enterprise Default Management

Customization Guide

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Preface

This document describes the various software and configuration options required to customize Oracle Banking Enterprise Collections and Oracle Banking Enterprise Recovery.

This preface contains the following topics:

- Audience
- Documentation Accessibility
- Organization of the Guide
- Conventions

Audience

This document is intended for the users customizing Oracle Banking Enterprise Collections and Oracle Banking Enterprise Recovery.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/us/corporate/accessibility/index.html.

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Organization of the Guide

This document contains:

Chapter 1 About this Guide

This chapter provides details about applicability of this guide.

Chapter 2 Customizing Collections and Recovery

This chapter describes the steps to be performed to configure Collections and Recovery.

Conventions

The following text conventions are used in this document:

Convention	Meaning
Boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
Italic	Italic type indicates book titles, emphasis, or placeholder variables for which you

Convention	Meaning
	supply particular values.
`Monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

1 About this Guide

This guide is applicable for the following products:

- Oracle Banking Platform (Oracle Banking Collections and Oracle Banking Recovery)
- Oracle Banking Enterprise Default Management (Oracle Banking Enterprise Collections and Oracle Banking Enterprise Recovery)

References to Oracle Banking Platform or OBP in this guide apply to all the above mentioned products.

2 Customizing Collections and Recovery

This chapter describes the steps to be performed to configure Oracle Banking Enterprise Collections and Oracle Banking Enterprise Recovery.

2.1 Prerequisites

Following are the prerequisites:

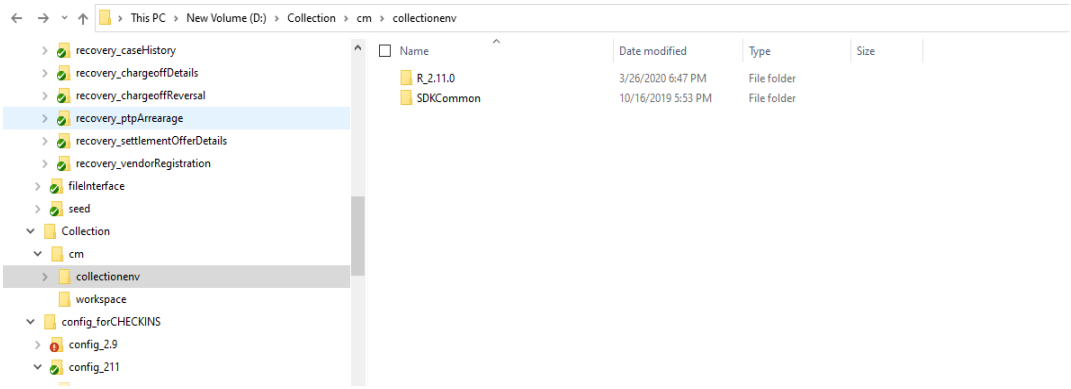
- Jdk1.8.0_231 bit is installed
- Weblogic Server 12.2.1.4.0 is installed

2.2 Customizing Collections and Recovery

To customize Oracle Banking Enterprise Collections and Oracle Banking Enterprise Recovery:

1. Download **CollectionSDK.rar** from the following location:
   http://edelivery.oracle.com/
2. Make an installation directory(Example used in the document is D:\Collection\cm).
3. Make collectionenv directory in installation directory.
4. Unzip the CollectionSDK.rar on your D: drive.
5. Copy the **SDKCommon** and **R_2.11.0** folders to <installationDirectory>/collectionenv.

   Figure 2–1 Copy SDKCommon and R_2.11.0



6. Download hibernate-release-4.1.0.Final.zip from below link.

   http://sourceforge.net/projects/hibernate/files/hibernate4/

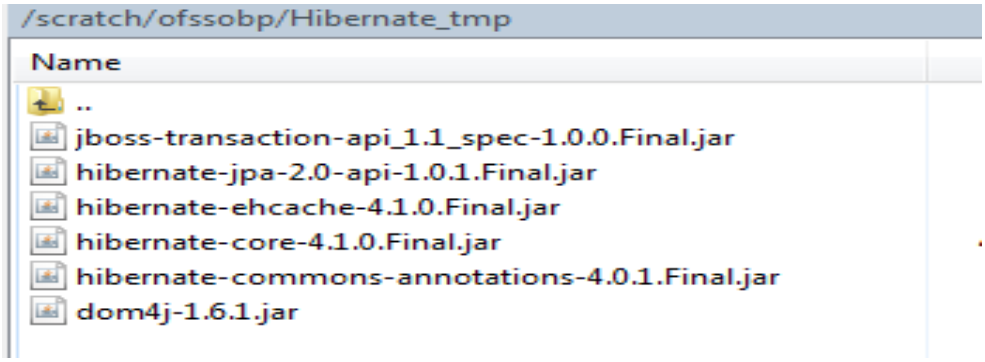
7. Create a hibernate directory at D:/Collection and follow the below steps:
   a. Extract downloaded hibernate-release-4.1.0.Final.zip package in D: drive.
   b. Copy below jars from extracted hibernate-release-4.1.0/lib/required folder to created hibernate path.

i. hibernate-commons-annotations-4.0.1.Final.jar
ii. hibernate-core-4.1.0.Final.jar
iii. hibernate-jpa-2.0-api-1.0.1.Final.jar
iv. jboss-transaction-api_1.1_spec-1.0.0.Final.jar
v. dom4j-1.6.1.jar

c. Copy below jar from extracted hibernate-release-4.1.0/ lib/optional/ehcache folder to create hibernate path.

i. hibernate-ehcache-4.1.0.Final.jar

Figure 2–2 Hibernate folder



2.3 Using the Oracle Banking Enterprise Collections and Oracle Banking Enterprise Recovery Installer

To use Installer for customization setup:

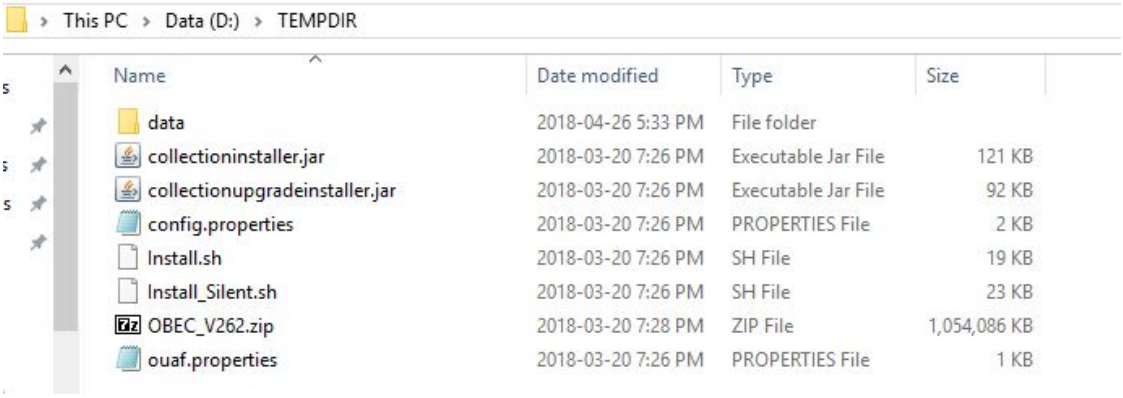
1. Download the Installer from the following location:
   http://edelivery.oracle.com/
2. Copy the Oracle Banking Enterprise Collections and Oracle Banking Enterprise Recovery 2.11.0.0.0 installation package, Collection_V[Build_ Number].zip, which you have downloaded from the edelivery to a TEMP location.
3. Extract the zip.
4. Uncompress the Collection_V[Build_Number].zip file using the following command:

   cd <PATH>/TEMPDIR unzip Collection_V[Build_Number].zip

   Where, <PATH> is the path where the TEMPDIR folder is located.

   The contents of the zip file are extracted in the TEMPDIR folder.

Figure 2–3 TEMPDIR Content



5. Change the **IS_DEV_ENV** property in config.properties to *True.*

Figure 2–4 Config.properties

6. Installer operates in two modes, go with either mode.
   - Silent mode
     a. Update config.properties in the TEMPDIR directory, set:

```
OPERATING_SYSTEM=Windows
IS_UI_ENABLED=N
HOST_CONFIG=N
UI_CONFIG=N
BATCH_CONFIG=N
CUSTOM_SUPPORT=Y
THREADPOOL_CONFIG=N
```

b. Also, update the below sections in config.properties file.

- DB CONFIGURATION
- CUSTOMIZATION CONFIGURATION

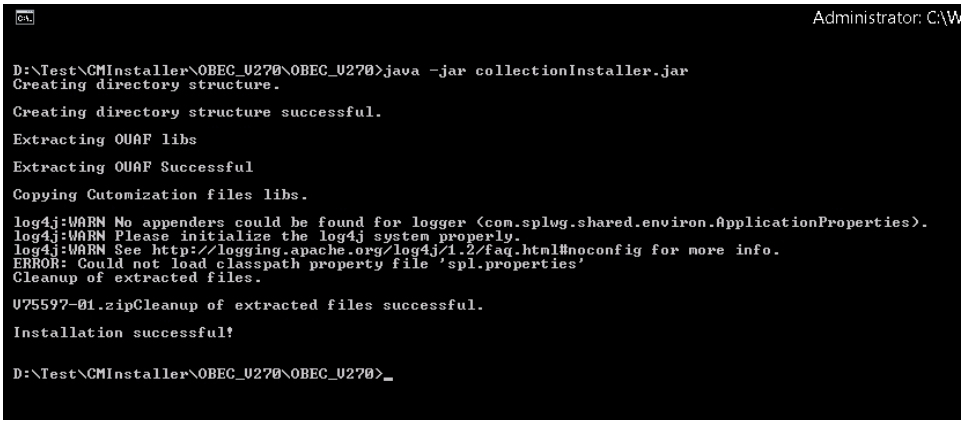
Figure 2–5 Config.properties

```
OPERATING_SYSTEM=Windows
INSTALL_DIR=/scratch/app/product/fmw/obpinstall/obp
HOST_CONFIG=N
UI_CONFIG=N
BATCH_CONFIG=N
CUSTOM_SUPPORT=Y
THREADPOOL_CONFIG=N
DOMAINNAME=
#UI CONFIGURATION
UI_LOG_DIR=/scratch/app/product/fmw/obpinstall/obp/fclogs/logs
UI_IP_ADDRESS=UI_IP
UI_PORT=8001
UI_WEBLOGIC_USERNAME=weblogic
UI_WEBLOGIC_PASSWORD=password
UI_DATASOURCE=jdbc/FCBDataSource_NonXA
UI_ADMINSERVERPORT=7001
#HOST CONFIGURATION
HOST_IP_ADDRESS=HOST_IP
HOST_PORT=8001
HOST_LOG_DIR=/scratch/app/product/fmw/obpinstall/obp/fclogs/logs
JAVA_HOME=/scratch/app/product/jdk1.8.0_172
HIBERNATE_JAR_DIR=/scratch/ofssobp/Hibernate_tmp
HOST_WEBLOGIC_USERNAME=weblogic
HOST_WEBLOGIC_PASSWORD=password
HOST_DATASOURCE=jdbc/FCBDataSource_NonXA
HOST_ADMINSERVERPORT=7001
#DB CONFIGURATION
DB_IP_ADDRESS=[redacted]
DB_PORT=1521
DB_SID=P26184B
DB_USERNAME=COL27
DB_PASSWORD=[redacted]
#BATCH CONFIGURATION
THREADPOOL_NAME=MT
NUMBER_OF_THREADS=5
BATCH_USER=SYSUSER
BATCH_LOG_DIR=/scratch/app/product/fmw/obpinstall/obp/fclogs/logs
#THREADPOOL CONFIGURATION
WEBLOGIC_SERVER_HOME=/scratch/app/product/fmw/wlserver
RMI_PORT=2020
DOMAIN_PATH=/scratch/app/product/fmw/user_projects/domains/
DOMAIN_NAME=host_domain
CLUSTER_NAME=IUT2
CLUSTER_MULTICAST_LISTNER_IP_ADDRESS=232.0.0.1
CLUSTER_MULTICAST_LISTNER_PORT=6660
TARGETTYPE=2
TARGETJMSSERVER=obphost_cluster1
#CUSTOMIZATION CONFIGURATION
CM_INSTALL_DIR=D:/Collection/cm
CM_WLS_HOME_DIR=D:/server/wls12213
CM_LOG_DIR=D:/Collection/cm/logs
CM_HIBERNARE_DIR=D:/Collection/hibernate
```

c. Ensure backward slashes (/) are used in path. (Eg : D:/Collection/cm)

d. Run the executable jar (java -jar collectioninstaller.jar).

Figure 2–6 Silent Installation

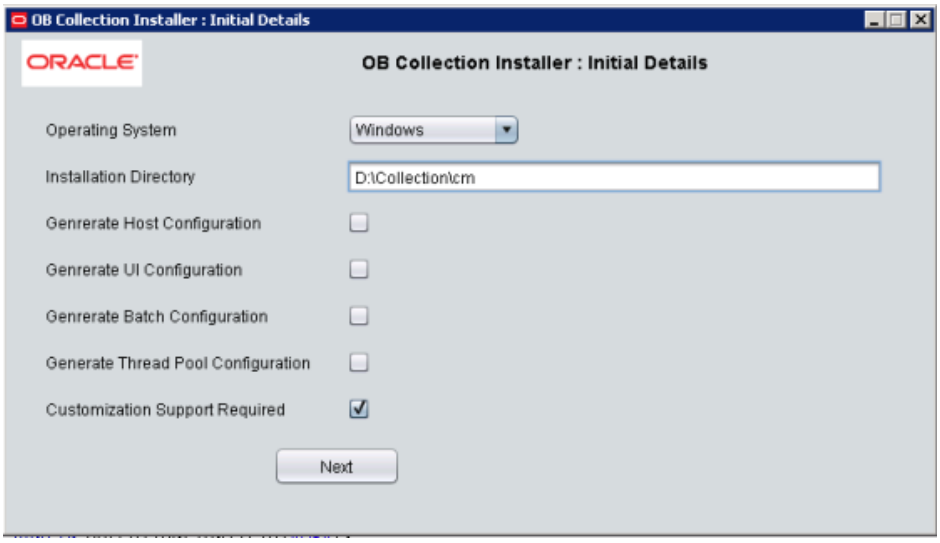


- GUI Mode

  a. Run the executable jar (java -jar collectioninstaller.jar). The Installer opens.

  b. In the Initial Details dialog box, enter the **Installation Directory** as *D:\Collection\cm* as the location where it is to be installed.

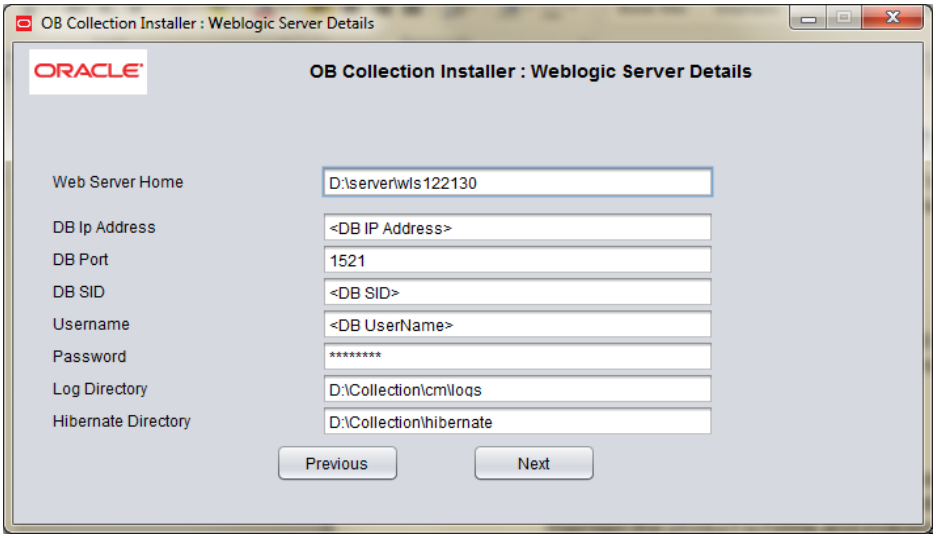
Figure 2–7 Collection and Recovery Installer: Initial Details



  c. Select the **Customization Support Required** checkbox.

  d. Click **Next.**

Figure 2–8 Collection and Recovery Installer: Weblogic Server Details



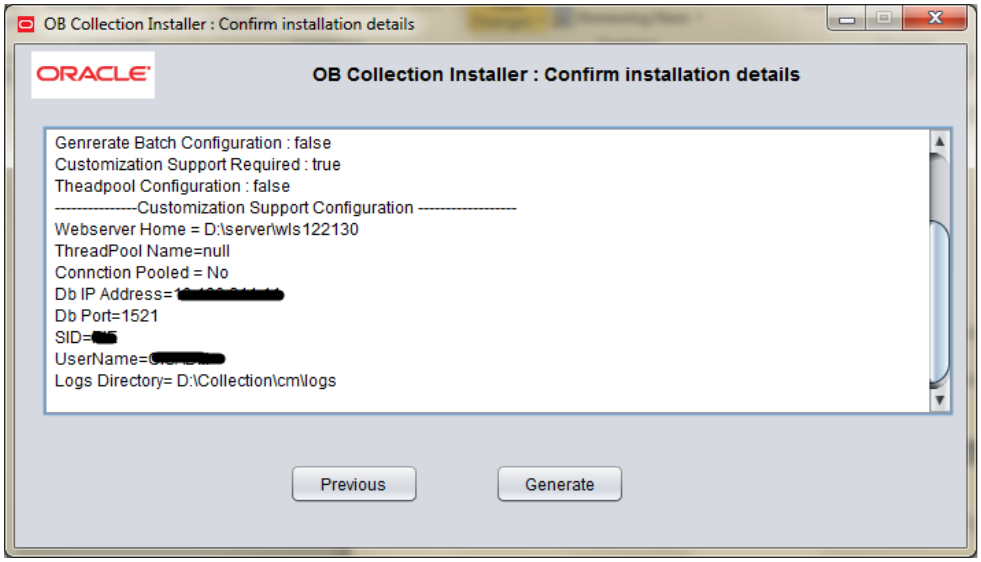
e. In Server Details dialog box, enter required details and click **Next**.

   Web Server Home: Path to the Weblogic home directory (Example : D:\server\wls122130)

   Username/Password: Credentials of the DB

f. Click **Generate.**

Figure 2–9 Collection and Recovery Installer: Confirm Installation Details



g. Click **Done.**

Figure 2–10 Collection and Recovery Installer: Installation Complete

2.4 Downloading and Configuring Software and Jar Files

This section provides information on downloading and configuring the requisite software and jar files.

2.4.1 Downloading Eclipse

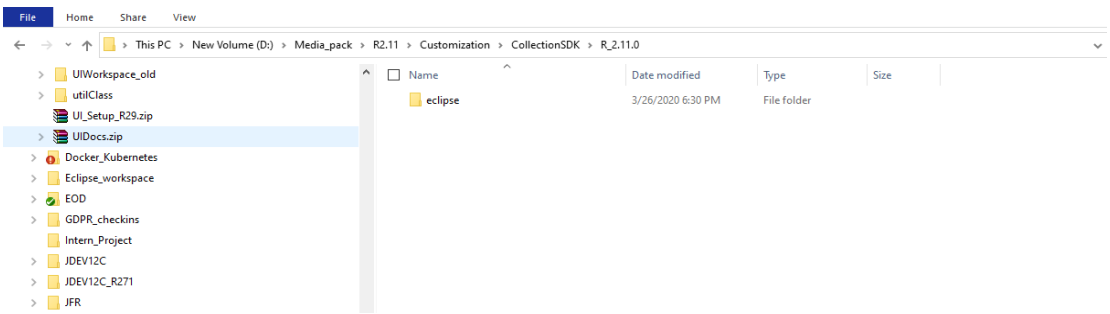
To download Eclipse:

1. Download Eclipse Neon from the following location:
   http://www.eclipse.org/downloads/download.php?file=/technology/epp/downloads/release/neon/3/eclipse-java-neon-3-win32-x86_64.zip
2. Copy the downloaded Eclipse folder to the R_2.11.0 folder.
3. Copy Plugins from SDKCommon to Eclipse plugin folder.

   From location : \SDKCommon\plugins

   To location : \R_2.11.0\Eclipse\plugins

Figure 2–11 Copy Eclipse 4.4



2.4.2 Downloading Required Jars

1. Download json-rpc jar from the following url:https://mvnrepository.com/artifact/com.metaparadigm/json-rpc/1.0
2. Copy the jar file to the following location:

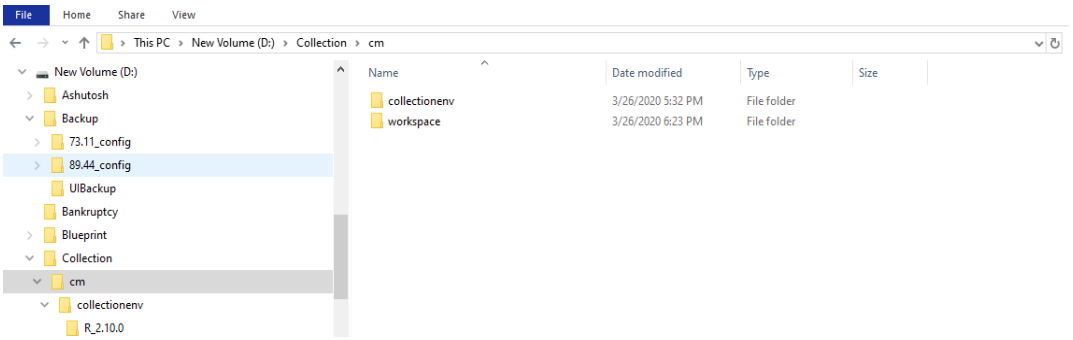
   \SDKCommon\tools

2.4.3 Configuring eclipse Project

To select and configure eclipse Project:

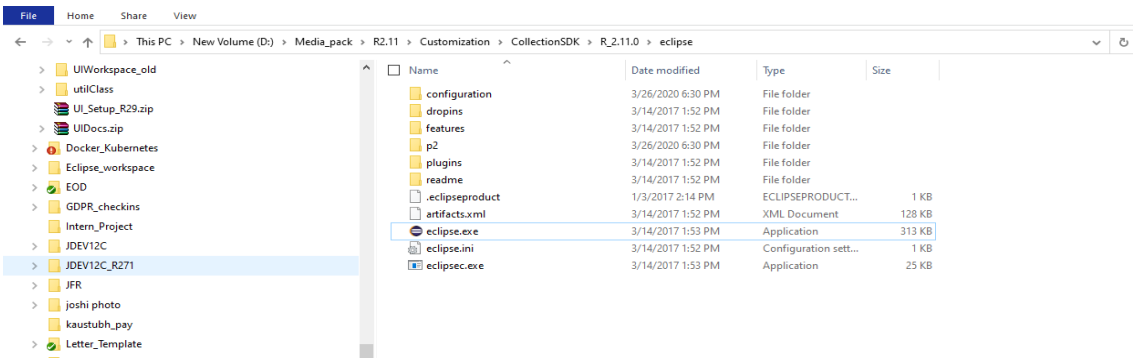
1. Create a new folder named **Workspace** where you have installed the environment.

Figure 2–12 Create Workspace Folder



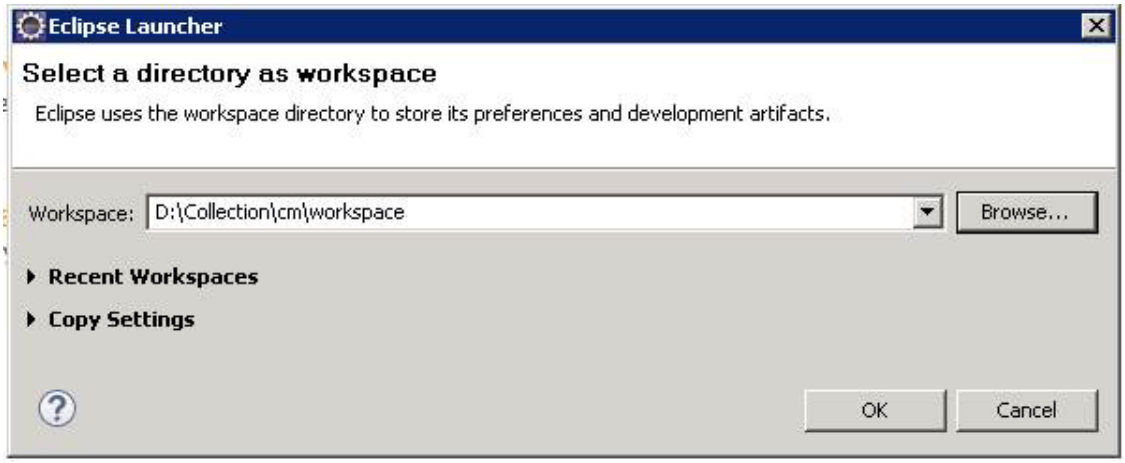
2. Navigate to the following location: D:\Collection\cm\collenctionenv\R_2.11.0\eclipse
3. Double-click **Eclipse.exe.**

Figure 2–13 Double-click Eclipse.exe



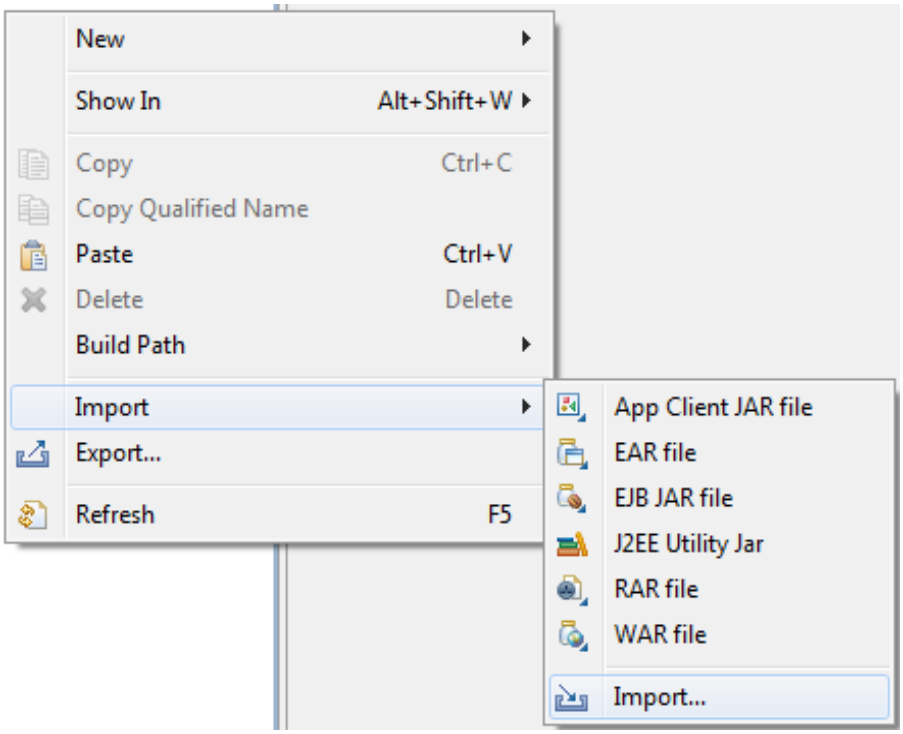
4. In the Workspace Launcher dialog box, click **Browse**, and locate the path where you have created workspace folder.

Figure 2–14 Workspace Launcher



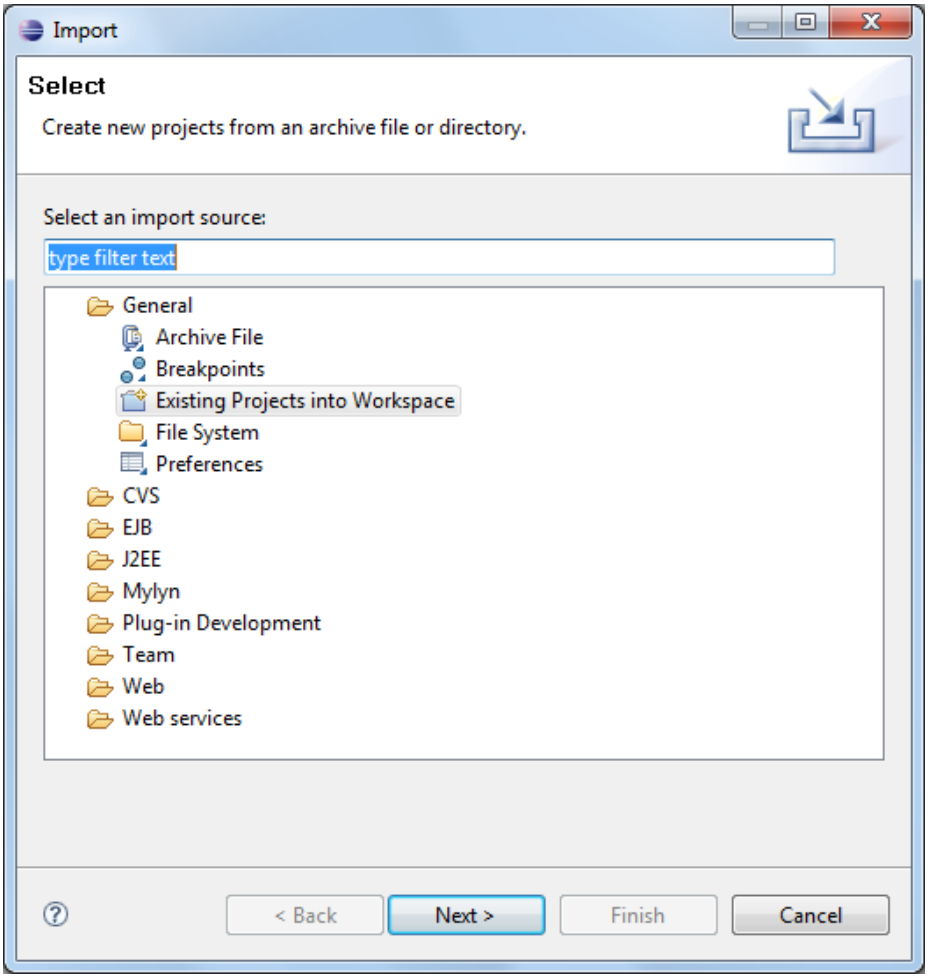
5. Click **OK.**
6. Right-click the Project Explorer, and select **Import --> Import.**

Figure 2–15 Project Explorer - Import



7. In the Import dialog box, select the **Existing Projects into Workspace** option.

Figure 2–16 Select Existing Projects into Workspace

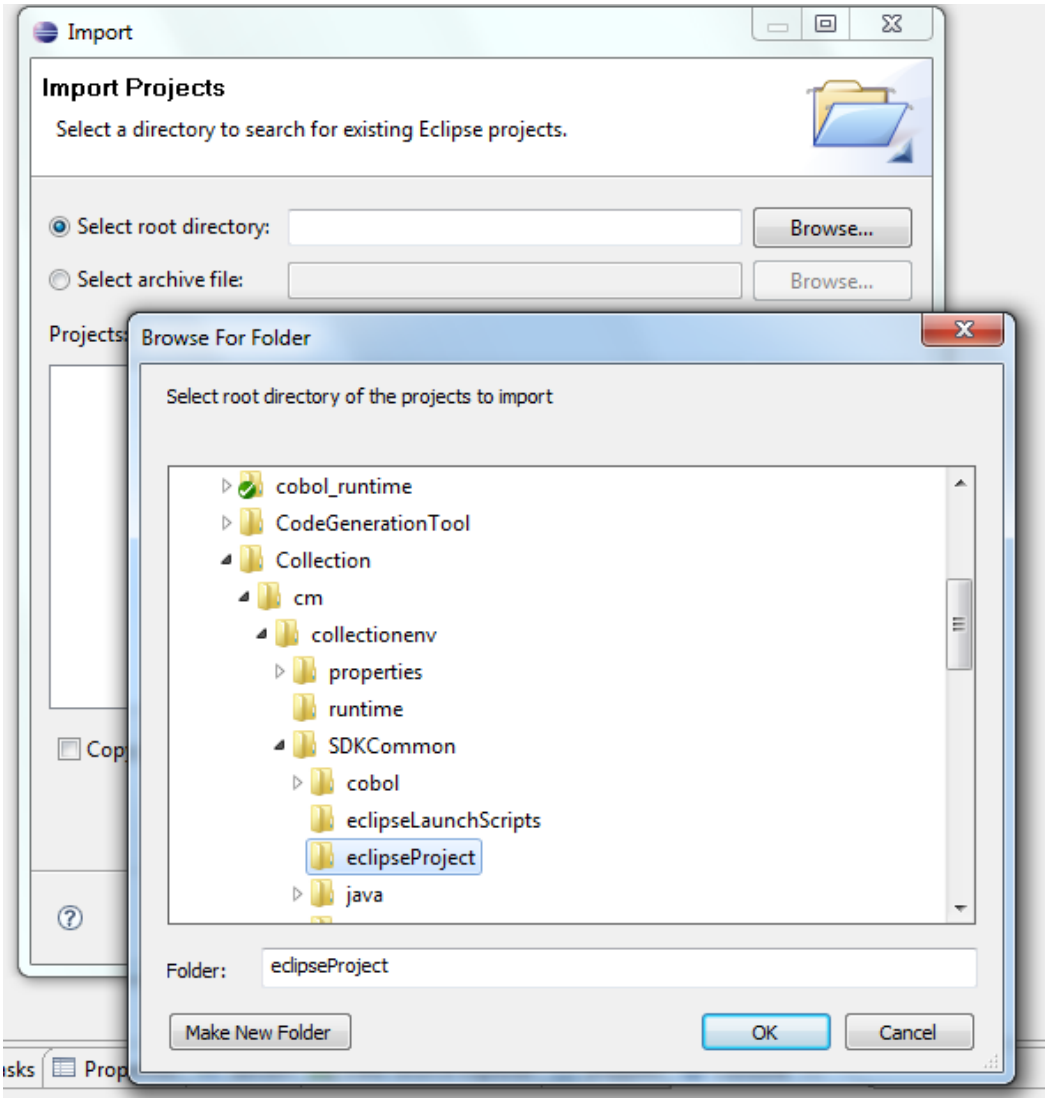


8. Click **Next.**
9. In the Import dialog box, select **Select root directory** option, and click **Browse.**
10. In the **Browse For Folder**, select **eclipseProject**.

    You can locate the eclipseProject at:

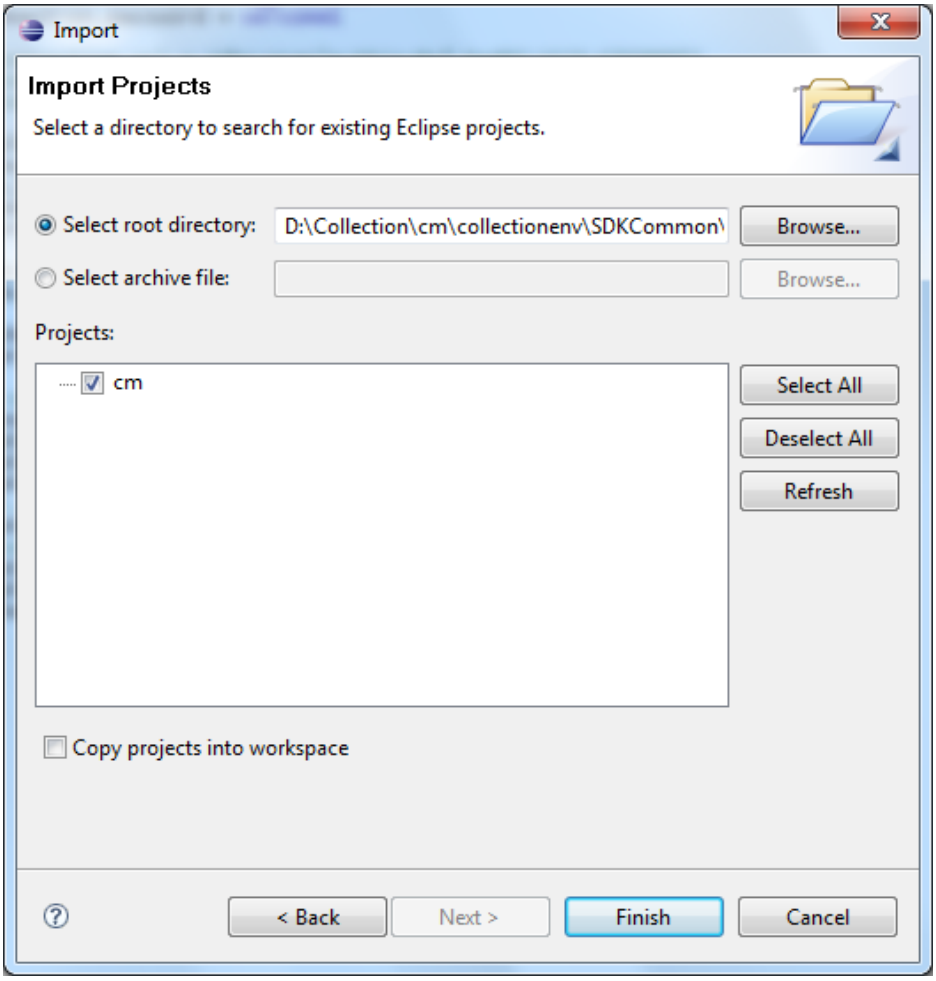
    {Collection Environment Directory}\SDKCommon\eclipseProject

Figure 2–17 Browse and Locate eclipseProject



11. Click **OK.**
12. In the Import dialog box, click **Finish.**

Figure 2–18 Import Projects - Finish

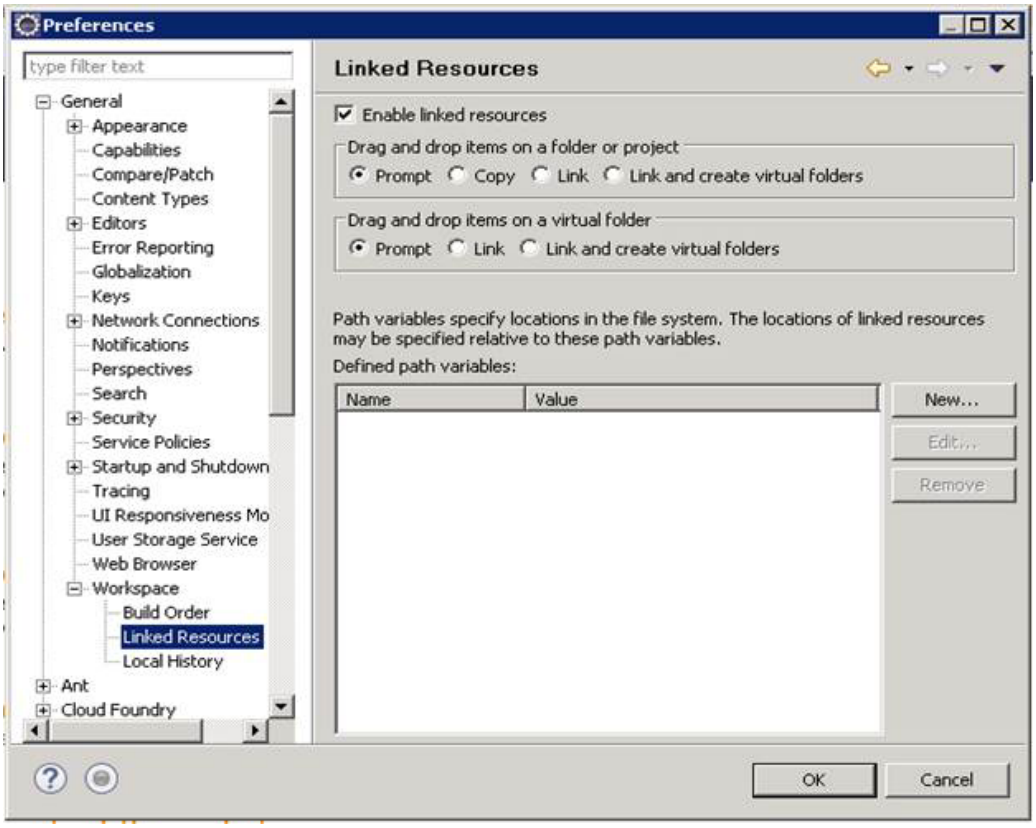


2.4.4 Creating Linked Resource

To create linked resource:

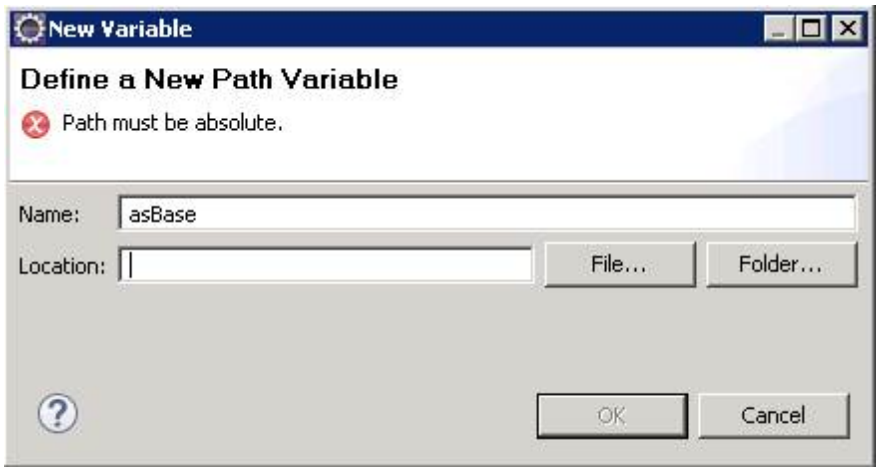
1. Navigate to **Window --> Preferences.**
2. In the **Preferences** dialog box, go to **General --> Workspace --> Linked Resource.**

Figure 2–19 Linked Resources



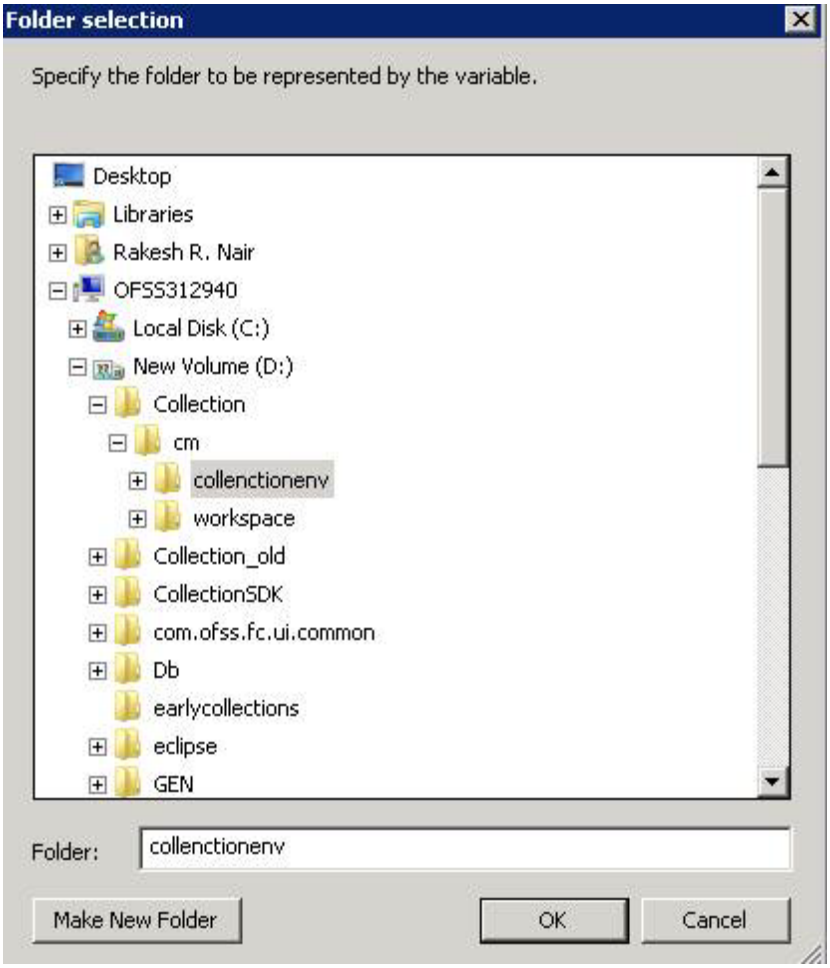
3. Click **New.**
4. In the **New Variable** dialog box, type *asBase* in the **Name** field.

Figure 2–20 New Variable asBase



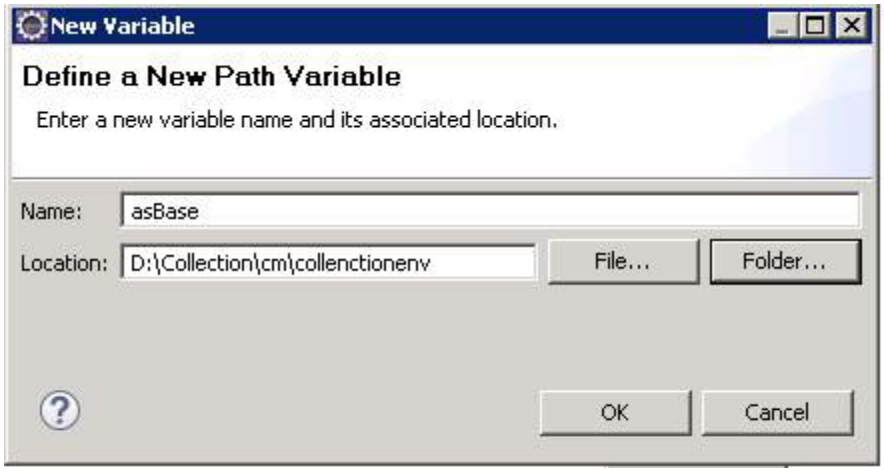
5. To specify location, click **Folder** and select the location where you have installed the environment.

Figure 2–21 Select Folder



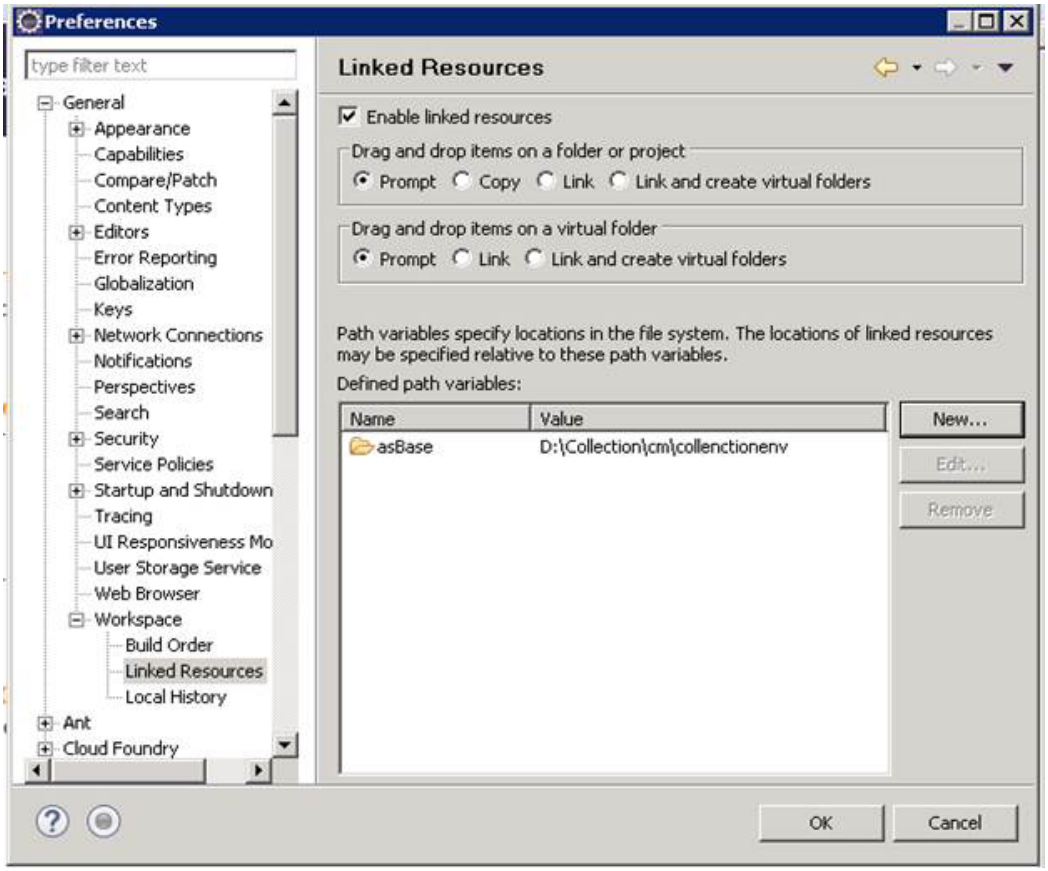
6. Click **OK.** The new variable name and location is set.

Figure 2–22 New Variable Name and Location



7. Click **OK.**

Figure 2–23 Linked Resources - Path Variables



8. Click **OK.**

9. Refresh project.

2.4.5 Creating weblogic domain

This section provides information on creating a new weblogic domain.

1. Open the weblogic installation directory.
2. Execute wlstpy.cmd.
3. New domain **<weblogic_root>/user_projects/domains/cm_domain** will be generated.
4. Remove jar **cglib.cglib-nodep.jar** from the location **<weblogic_root>/wlserver/modules.**
5. Edit **<weblogic_root>/user_projects/domains/cm_domain/setDomainEnv.cmd**
   a. Search for @REM IF USER_MEM_ARGS
   b. Add below line next to it
6. Set USER_MEM_ARGS=-Xms128m -Xmx3072m %MEM_DEV_ARGS% %MEM_MAX_PERM_SIZE%

Figure 2–24 Edit setDomainEnv.cmd

```
        call "%DOMAIN_HOME%\bin\setStartupEnv.cmd"
    )
)

@REM Set user overrides, if available.

if exist %DOMAIN_HOME%\bin\setUserOverrides.cmd (
    call "%DOMAIN_HOME%\bin\setUserOverrides.cmd"
)

@REM IF USER_MEM_ARGS the environment variable is set, use it to override ALL MEM_ARGS
set USER_MEM_ARGS=-Xms128m -Xmx3072m %MEM_DEV_ARGS% %MEM_MAX_PERM_SIZE%
if NOT "%USER_MEM_ARGS%"=="" (
    set MEM_ARGS=%USER_MEM_ARGS%
)

set JAVA_PROPERTIES=-Dwls.home=%WLS_HOME% -Dweblogic.home=%WLS_HOME%
```

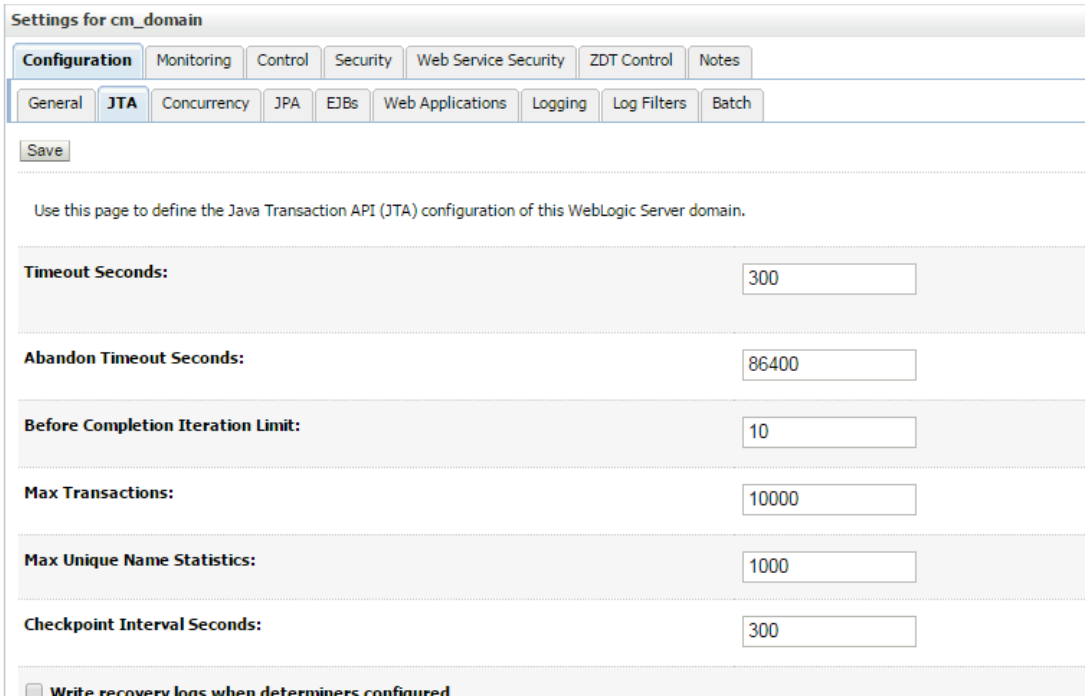
   a. Search for @REM PROFILING SUPPORT
   b. Add below line as show in screenshot and save setDomainEnv.cmd file
7. Set JAVA_OPTIONS=%JAVA_OPTIONS% -Djavax.xml.parsers.SAXParserFactory=com.sun.org.apache.xerces.internal.jaxp.SAXParserFactoryImpl

Figure 2–25 Edit setDomainEnv.cmd

```
@REM PROFILING SUPPORT

set JAVA_PROFILE=

set SERVER_CLASS=weblogic.Server

set JAVA_PROPERTIES=%JAVA_PROPERTIES% %WLP_JAVA_PROPERTIES%

set JAVA_OPTIONS=%JAVA_OPTIONS% %JAVA_PROPERTIES%

set JAVA_OPTIONS=%JAVA_OPTIONS%  -Djavax.xml.parsers.SAXParserFactory=com.sun.org.apache.xerces.internal.jaxp.SAXParserFactoryImpl

if "%PRODUCTION_MODE%"=="true" (
    set JAVA_OPTIONS= -Dweblogic.ProductionModeEnabled=true %JAVA_OPTIONS%
)
```

8. Run **<weblogic_root>/user_projects/domains/cm_domain/startWebLogic.cmd** to bring the adminserver up.
9. Open http://localhost:7001/console with default username/password: weblogic/weblogic1.
10. Open cm_domain ->JTA and increase the timeout seconds to 300.
11. Click Save.

Figure 2–26 JTA Timeout



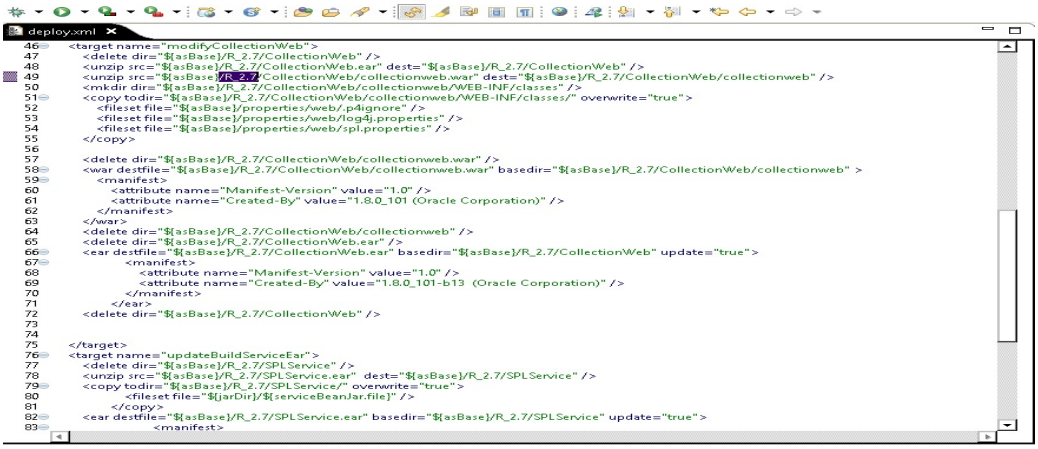
2.4.6 Updating deploy.xml

This section provides information on the various file updates required.

1. **Change deploy.xml.**
    a. Navigate to project **cm --> tools --> deploy.xml** and open it.
    b. Change the **asBase** variable to **{Collection Environment Directory}.**

c. Change the **webBase** variable to **{Weblogic server root directory}**.

Figure 2–27 deploy.xml

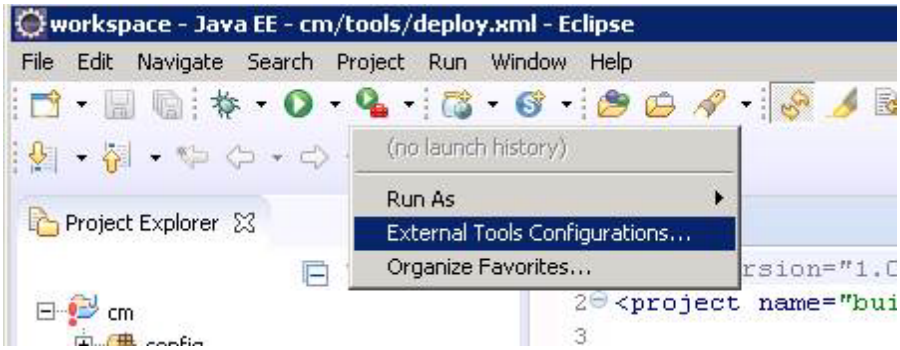


2.4.7 Setting Variable in cmDeploy

To set asBase variable in cmDeloy ant script:

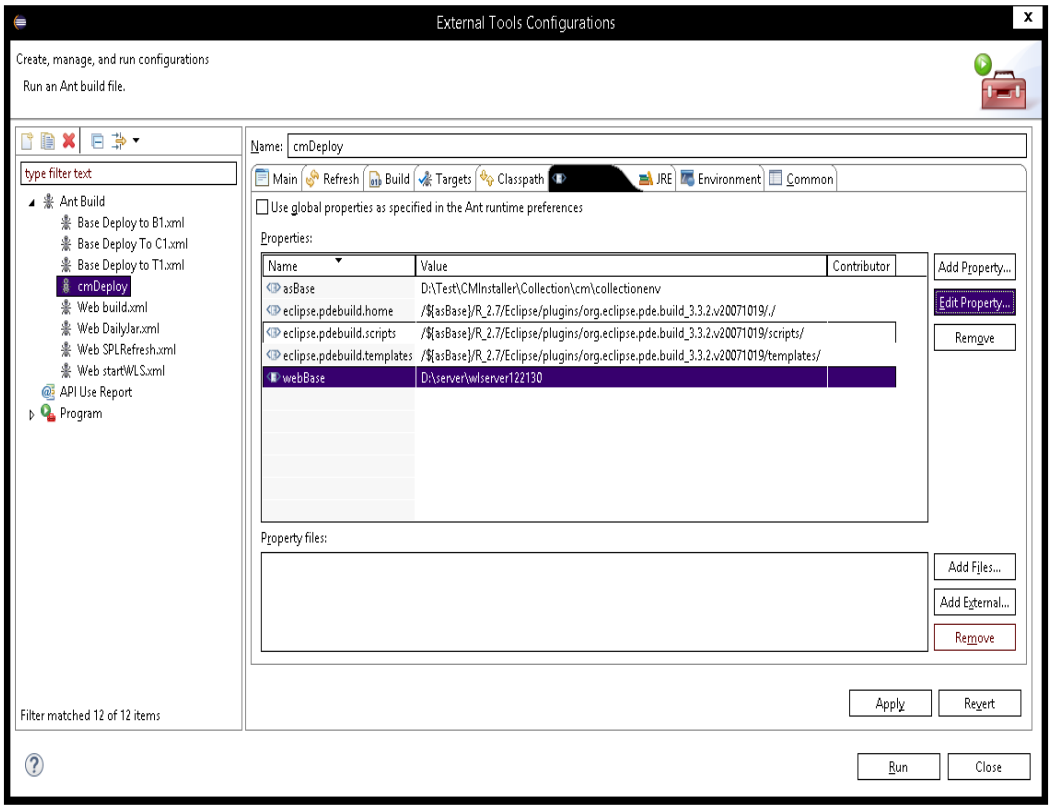
1. Navigate to **Open External Tools Dialog** by clicking Run -> External Tools -> ExternalTools Configurations.

Figure 2–28 Open External Tools Dialog



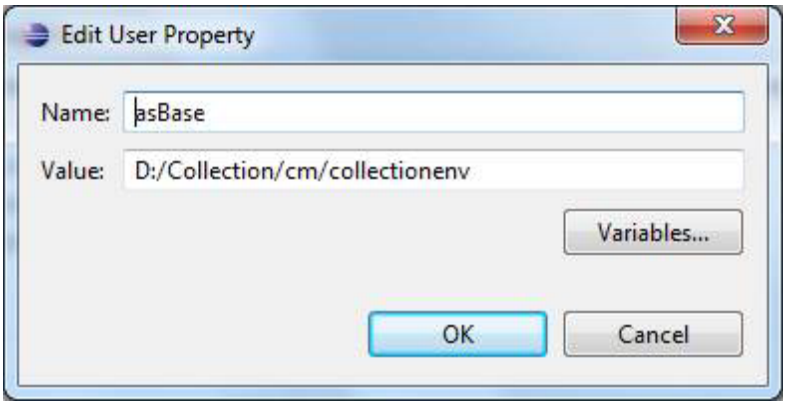
2. In the **External Tools** dialog box, select **cmDeploy** and edit asBase and webBase property.

Figure 2–29 External Tools - asBase



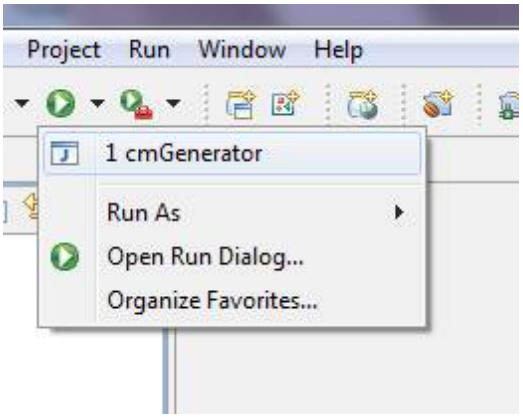
3. Click **Edit Property** and specify the path where you have installed collection environment.

Figure 2–30 asBase - Edit User Property



4. Click **Ok** and apply.
5. Run the artifact generator to ensure that the setup runs correctly.

Figure 2–31 Artifact Generator

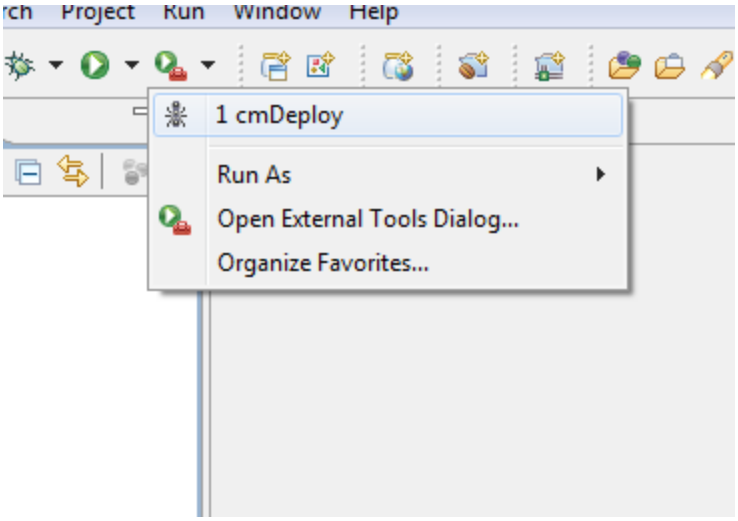


2.4.8 Creating and Deploying cm.jar

To create and deploy cm.jar:

1. Create cm.jar and SPLService.ear using cmDeploy Ant script.

Figure 2–32 cmDeploy



After you run the ant script, cm.jar is created at following location:

{Your collection environment}\standalone\lib\cm.jar

2.4.9 Deploying SPLService, CollectionWeb and ohelp

Deploy the CollectionWeb application to the newly created domain.

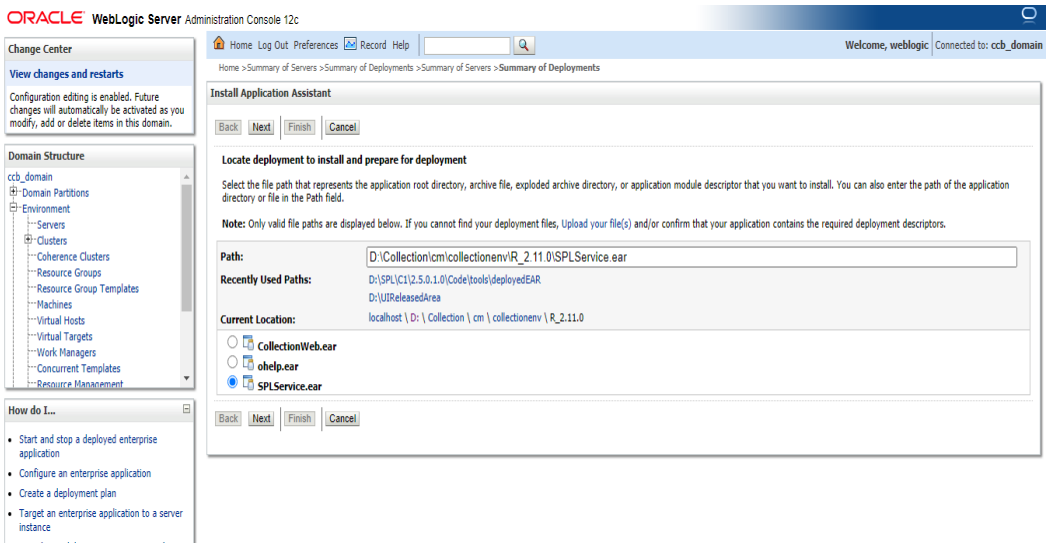
1. Stop weblogic server using below command :
    a. cd <**Installation Directory**>/user_projects/domains/cm_domain/bin
    b. stopWeblogic.cmd
2. Open http://localhost:7001/console with default username/password: weblogic/weblogic1

Step 1 Deploy SPLService.ear

1. Navigate to **Deployments -> Install**
2. Specify SPLService.ear path :

   <**Installation Directory**>/ collectionenv/R_2.11.0

   Figure 2–33 Deploy SPLService.ear



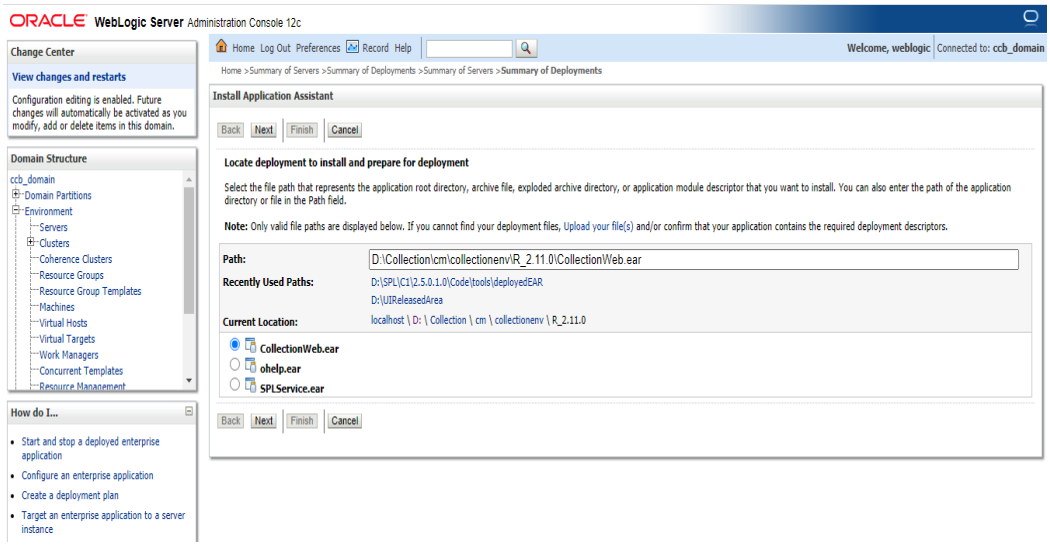
3. Select **SPLService.ear** ->Install as Applicaction
4. Click **Next -> Finish**
5. **Default Deployment Order: 100**
6. Click **Save**

Step 2 Deploy CollectionWeb.ear

1. Navigate **to Deployments -> Install**
2. Specify CollectionWeb.ear path:

   <**Installation Directory**>/collectionenv/R_2.11.0/

Figure 2–34 Deploy CollectionWeb



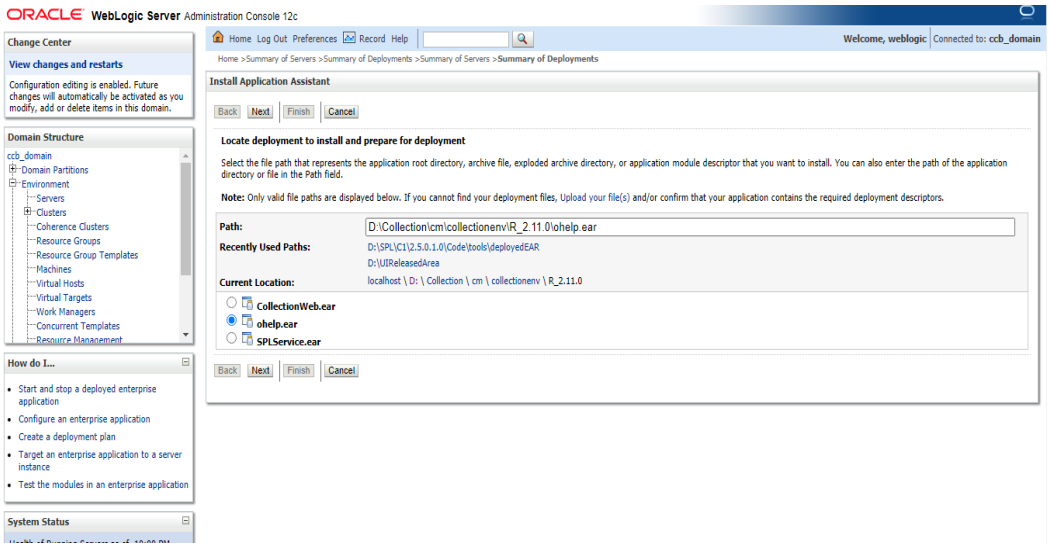
3. Select **CollectionWeb.ear**
4. Click **Next -> Finish**
5. **Set Deployment Order: 200**
6. Click **Save**

Step 3 Deploying ohelp.ear

1. Navigate to **Deployments -> Install**
2. Specify SPLService.ear path :

   <**Installation Directory**>/collectionenv/R_2.11.0/

Figure 2–35 Deploy ohelp.ear



3. Select **ohelp.ear**
4. Click **Next -> Finish**
5. **Set Deployment Order: 300**
6. Click **Save**

Step 4 Checking State of above deployments

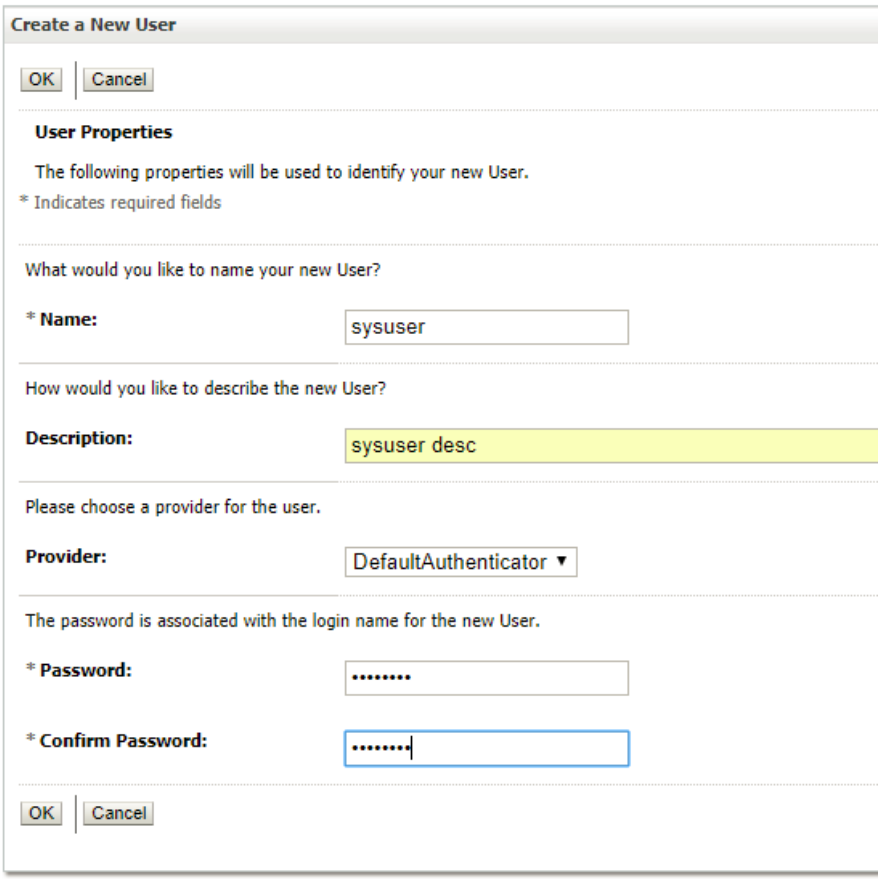
1. Navigate to **Deployment -> Install**
2. You can see State of both deployment will be Active.

Step 5 Configure User:

1. Open http://localhost:7001/console
2. Navigate to **Security Releams -> myrealm**
3. Open **User and Groups panel -> Groups -> new**
4. Create new group **cisuser** as shown below:
5. Click **OK**
6. Navigate to **Users panel -> new**
7. Create new user **sysuser** as shown below:

8. Associate password for user (For eg. welcome1).

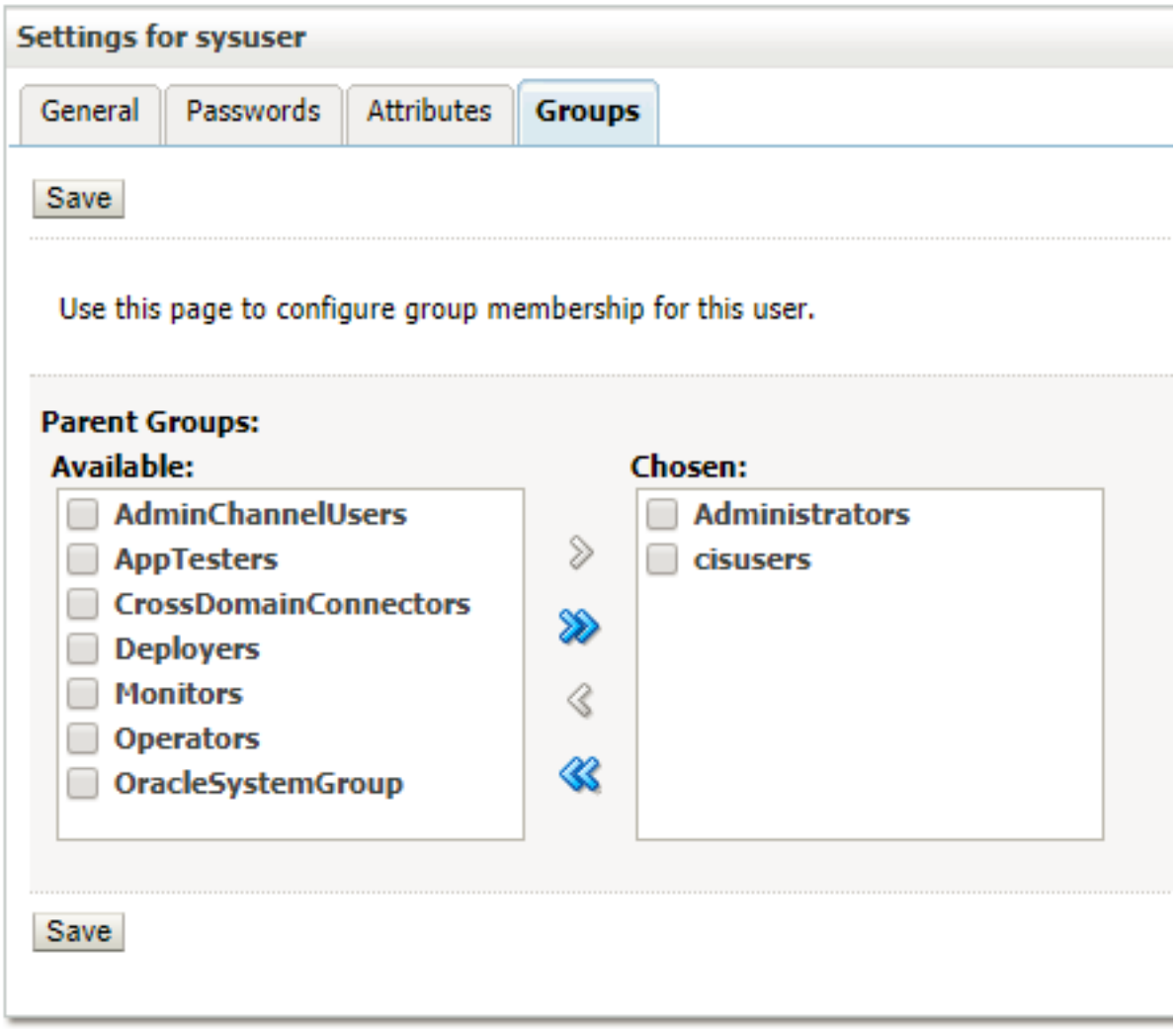
Figure 2–36 Creating new User



9. Click **OK**
10. Click on **sysuser -> Groups**

11. Select **Administrator** and **cisuser** and move to right as shown below:

Figure 2–37 Setting for new User



12. Click **Save**

Step 6 Open Admin Screen:

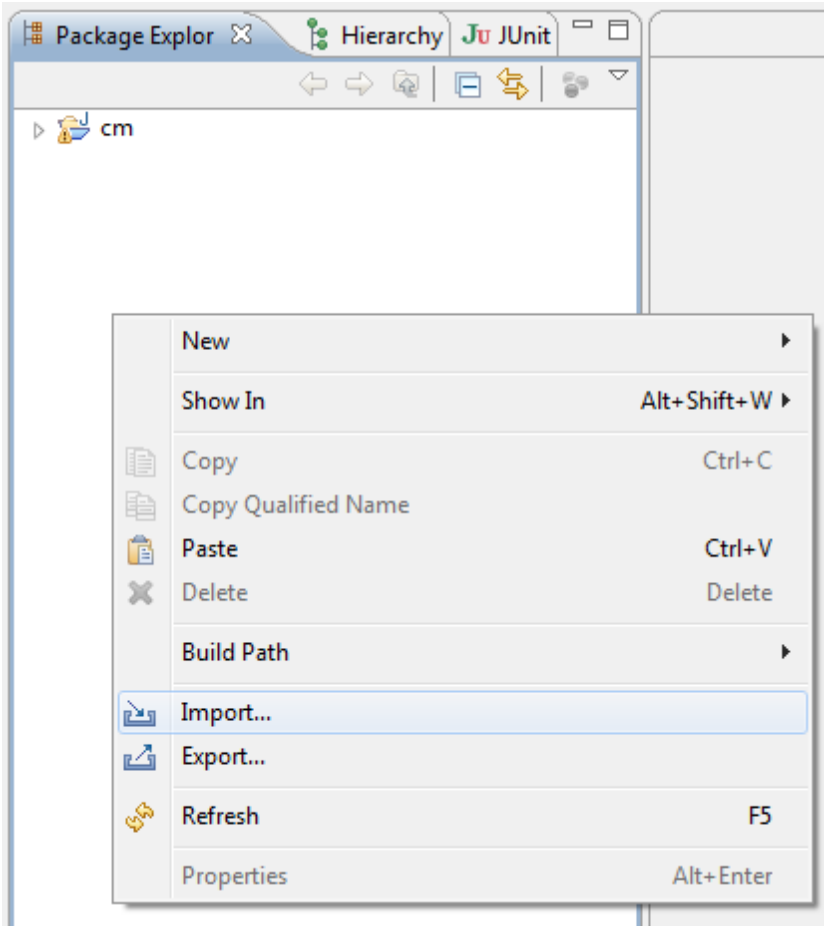
1. http://localhost:7001/CollectionAdmin.
2. Login using **sysuser** and **password** associated to user.

2.4.10 Importing Test Project into Customization Setup

To import Test Project into customization setup:

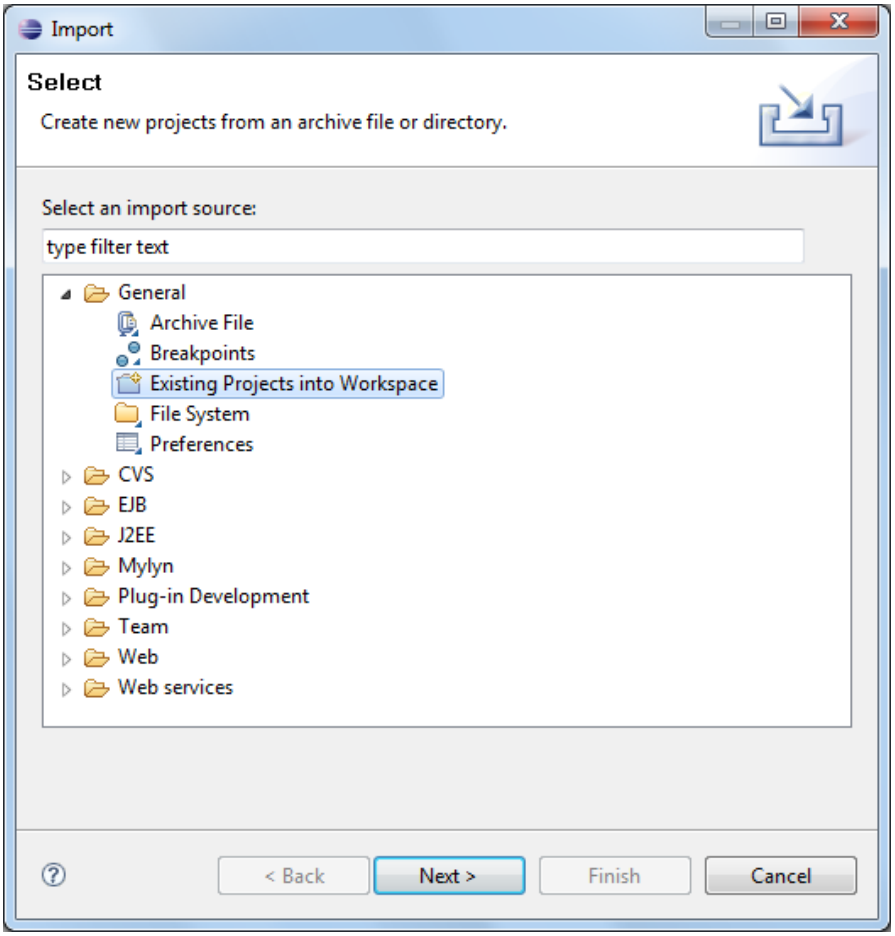
1. Right-click **Project Explorer**, and select **Import.**

Figure 2–38 Import



2. In the **Import** dialog box, select **Existing Projects into Workspace.**

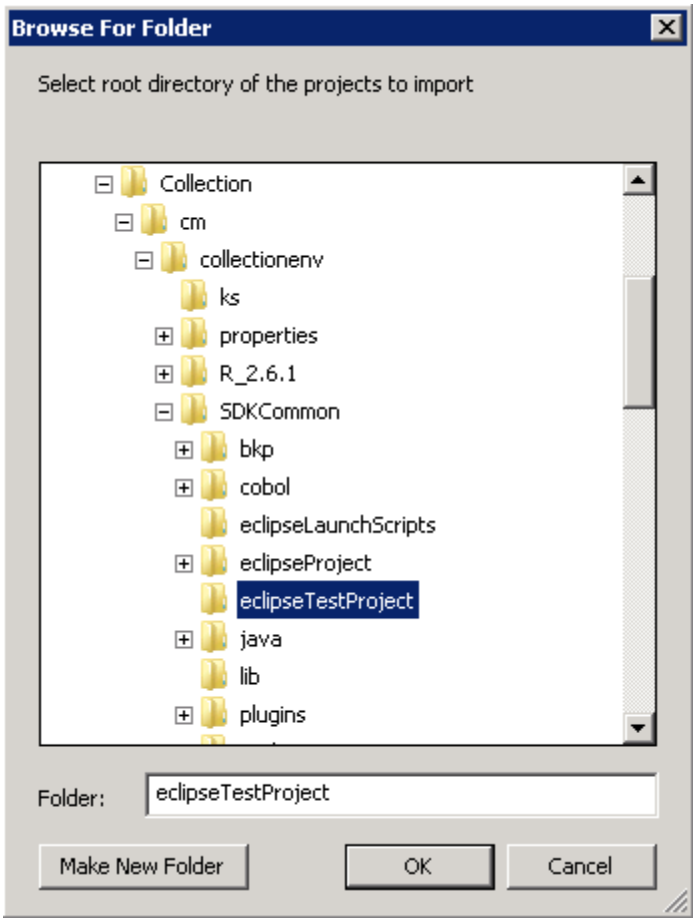
Figure 2–39 Select Existing Projects Into Workspace



3. Click **Next.**
4. In the **Browse For Folder**, select **eclipseTestProject.**
   You can locate the eclipseTestproject at:

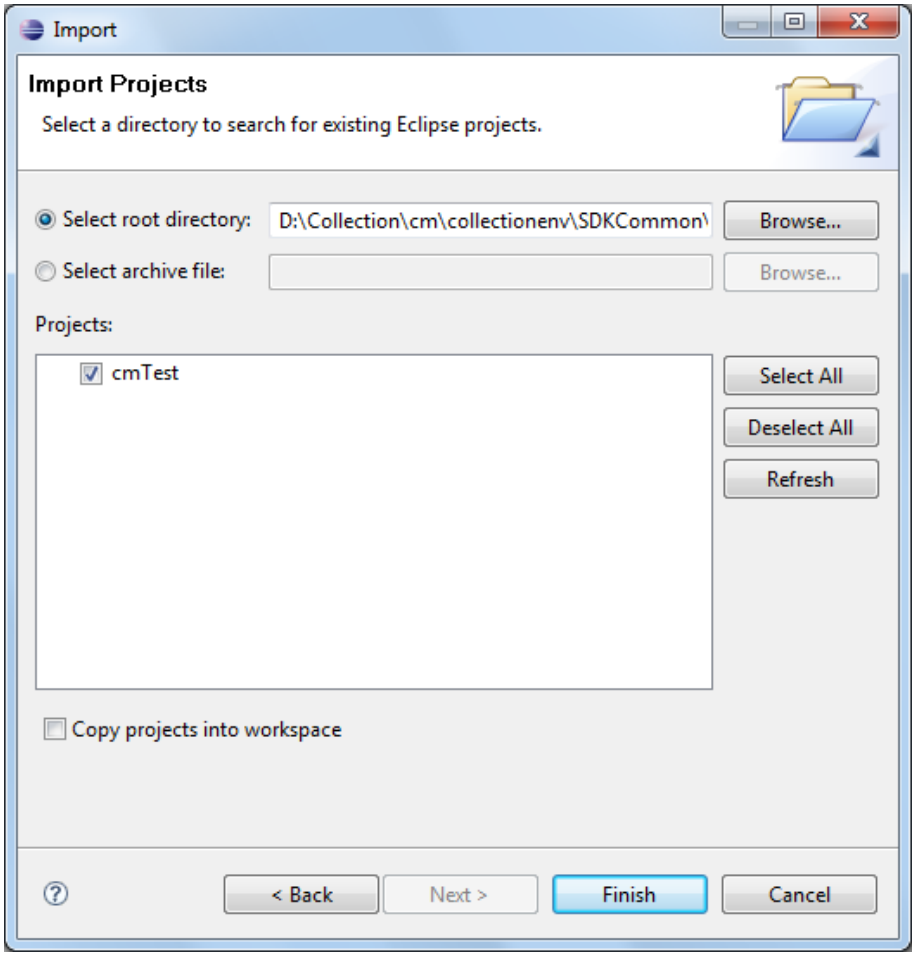
   {Collection Environment Directory}\SDKCommon\eclipseTestProject

Figure 2–40 Select eclipseTestProject



5. In the **Import Projects** dialog box, click **Finish.**

Figure 2–41 Import Projects



2.4.11 Troubleshooting JUnit

During execution of JUnit, following possible error scenarios are encountered:

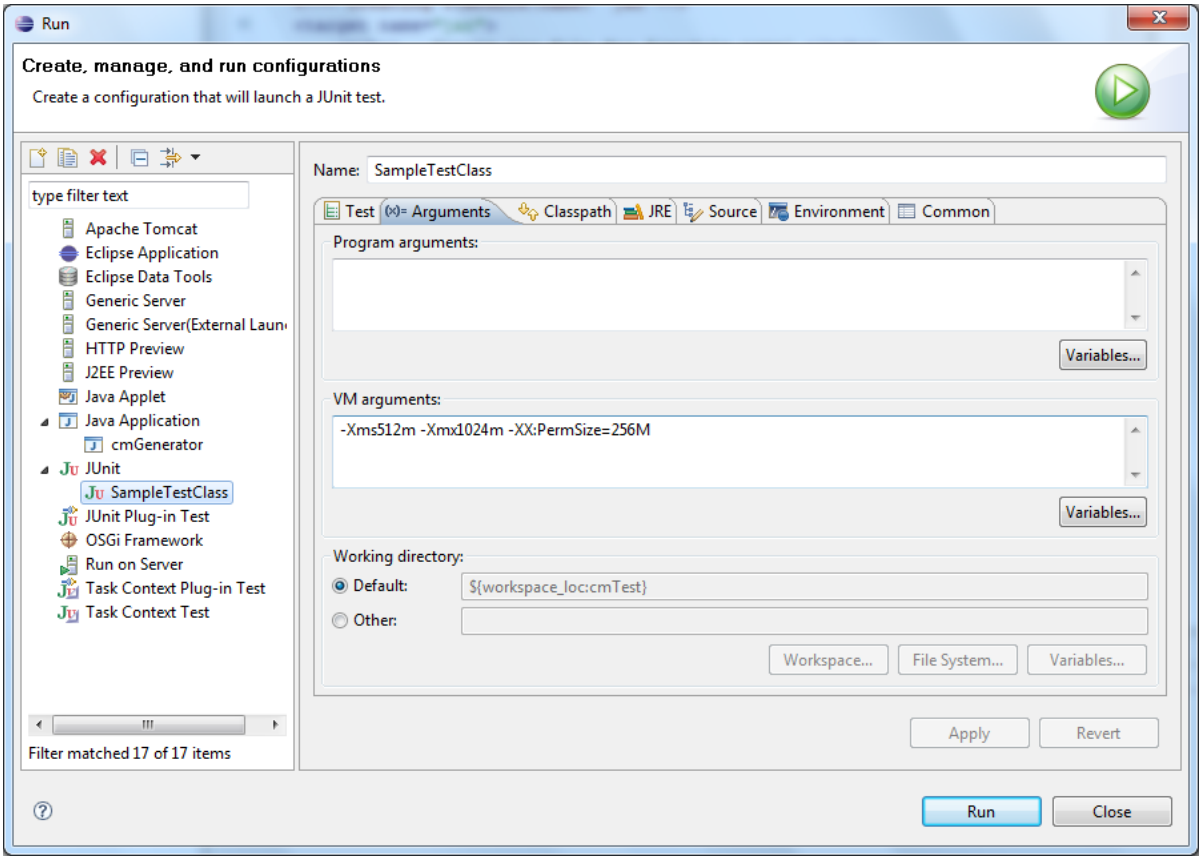
- Out of memory issue

To avoid these scenarios, the following settings need to be performed:

Out of Memory Issue

To address the Out of memory issue, set the VM arguments to **-Xms512m -Xmx1024m -XX:PermSize=256M**.

Figure 2–42 VM Arguments



Note

For running JUnit, ensure that you are using 64 bit JDK.