

**Oracle® Banking Enterprise Default  
Management**  
Customization Guide  
Release 2.10.0.0.0  
**F29509-01**

April 2020

Oracle Banking Enterprise Default Management Customization Guide, Release 2.10.0.0.0

F29509-01

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

<b>Convention</b>	<b>Meaning</b>
	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:

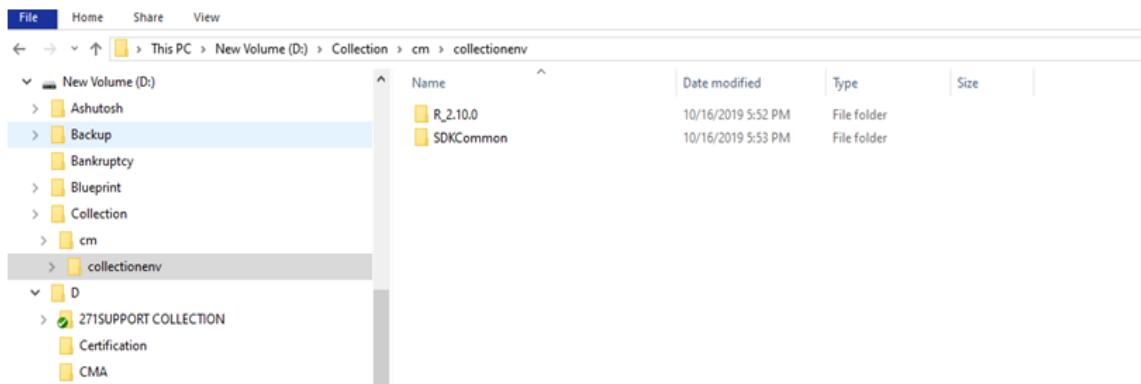
- Jdk1.8 178 bit is installed
- Weblogic Server 12.2.1.3.0 is installed

## 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\_2.10.0** folders to <installationDirectory>/collectionenv.

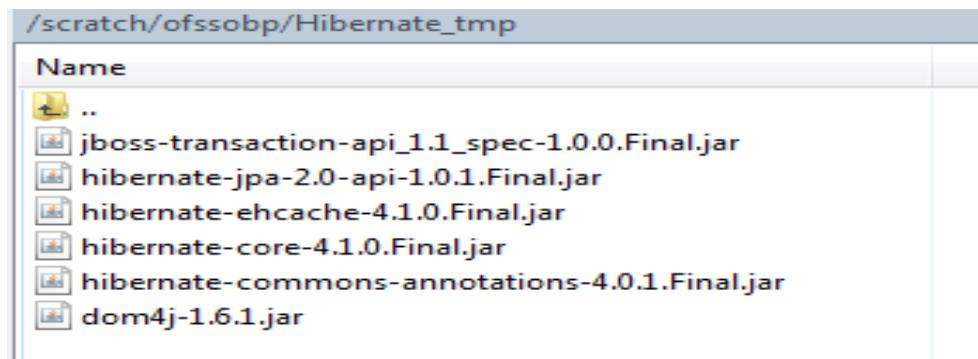
*Figure 2–1 Copy SDKCommon and R\_2.10.0*



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 2.10.0.0.0 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**

Name	Date modified	Type	Size
data	2018-04-26 5:33 PM	File folder	
collectioninstaller.jar	2018-03-20 7:26 PM	Executable Jar File	121 KB
collectionupgradeinstaller.jar	2018-03-20 7:26 PM	Executable Jar File	92 KB
config.properties	2018-03-20 7:26 PM	PROPERTIES File	2 KB
Install.sh	2018-03-20 7:26 PM	SH File	19 KB
Install_Silent.sh	2018-03-20 7:26 PM	SH File	23 KB
OBEC_V262.zip	2018-03-20 7:28 PM	ZIP File	1,054,086 KB
ouaf.properties	2018-03-20 7:26 PM	PROPERTIES File	1 KB

5. Change the **IS\_DEV\_ENV** property in config.properties to *True*.

**Figure 2–4 Config.properties**

```

config.properties - Notepad
File Edit Format View Help
IS_DEV_ENV=true
OBP_HOST_LIB=ob.host.app/ob.app.host.coll/APP-INF/lib
OBP_THIRDPARTY_LIB=ob.host.app/ob.app.host.tp/APP-INF/lib
IS_UI_ENABLED=Y
#TNTTTAI nFTATI

```

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

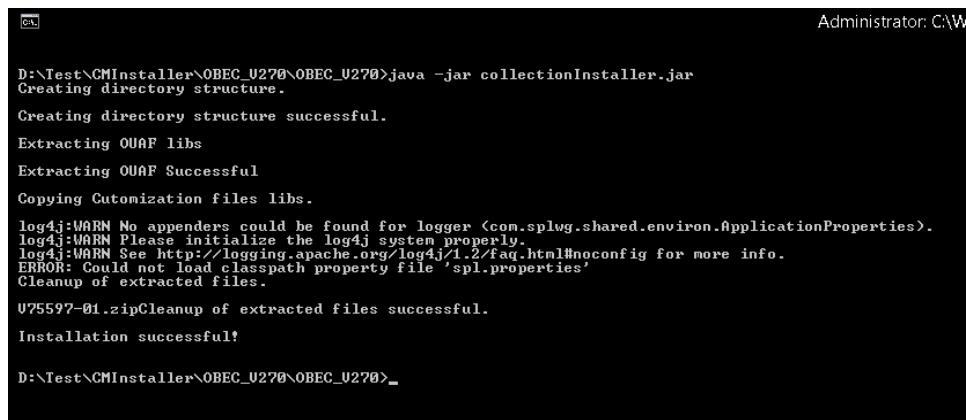
```

- 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/obpininstall/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/obpininstall/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/obpininstall/obp/fclogs/logs
JAVA_HOME=/scratch/app/product/jdk1.8.0_172
HIBERNATE_JAR_DIR=/scratch/offsobp/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/obpininstall/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
TARGETJMSERVER=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).

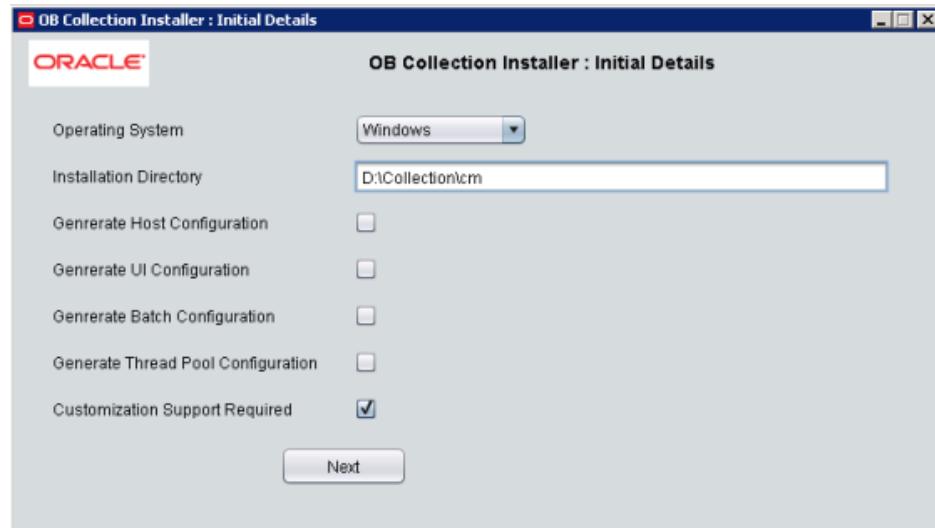
**Figure 2–6 Silent Installation**

```
Administrator: C:\W
D:\Test\CMSInstaller\OBEC_U270\OBEC_U270>java -jar collectionInstaller.jar
Creating directory structure.
Creating directory structure successful.
Extracting OUAF libs
Extracting OUAF Successful
Copying Customization files libs.
log4j:WARN No appenders could be found for logger <com.splwg.shared.environ.ApplicationProperties>.
log4j:WARN Please initialize the log4j system properly.
log4j:WARN See http://logging.apache.org/log4j/1.2/faq.html#noconfig for more info.
ERROR: Could not load classpath property file 'spl.properties'
Cleanup of extracted files.
U75597-01.zipCleanup of extracted files successful.
Installation successful?

D:\Test\CMSInstaller\OBEC_U270\OBEC_U270>
```

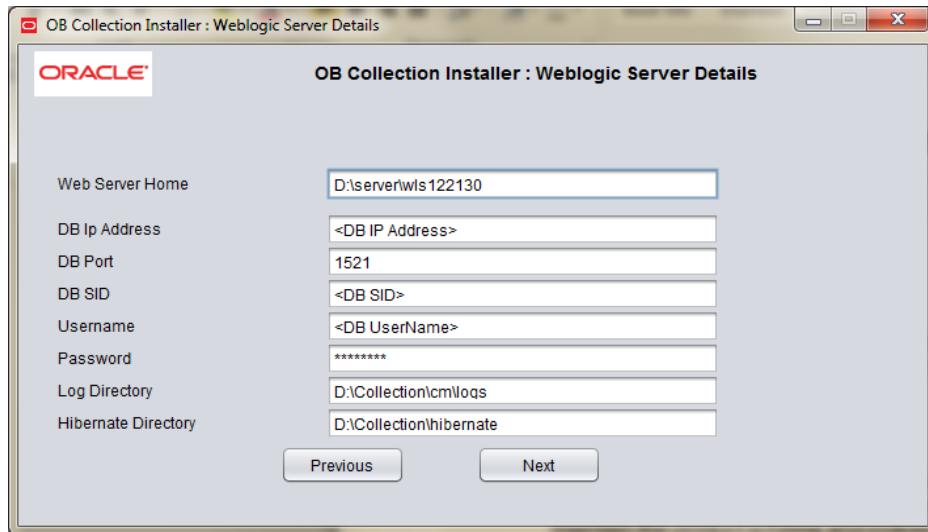
**■ GUI Mode**

- 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**



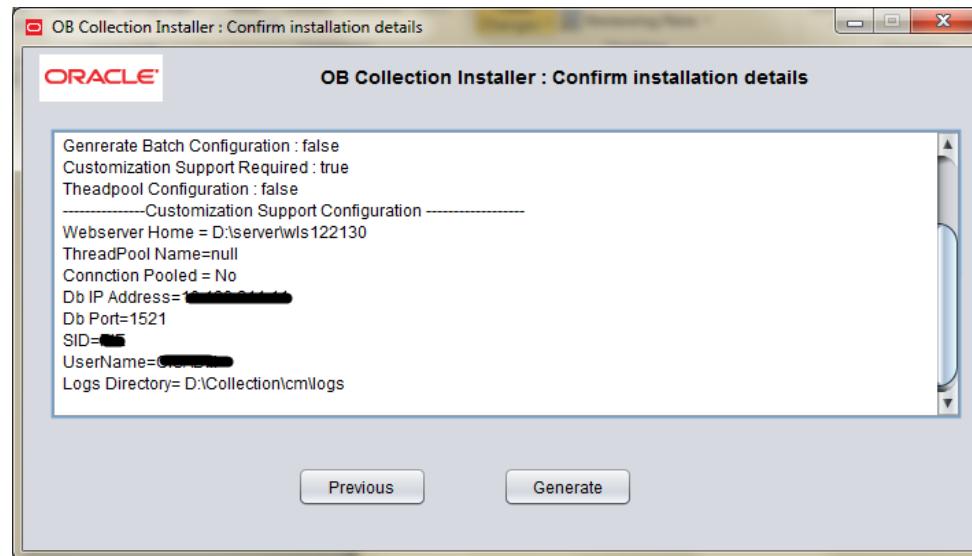
- e. In Server Details dialog box, enter required details and click **Next**.

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

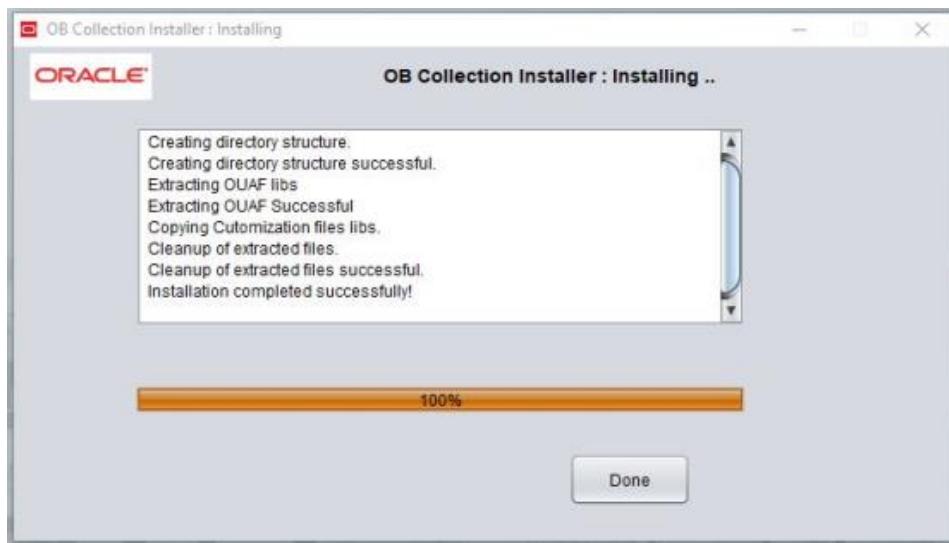
Username/Password: Credentials of the DB

- 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.

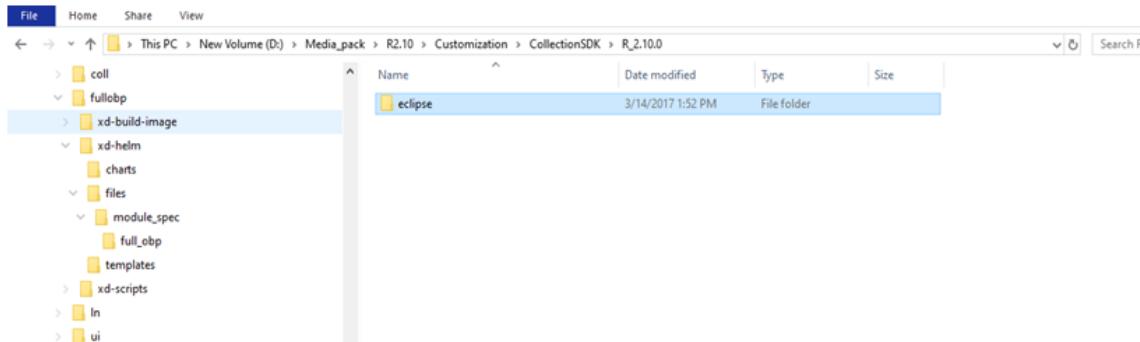
### 2.4.1 Downloading Eclipse

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](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\_2.10.0 folder.
3. Copy Plugins from SDKCommon to Eclipse plugin folder.

From location : \SDKCommon\plugins

To location : \R\_2.10.0\Eclipse\plugins

**Figure 2–11 Copy Eclipse 4.4**

## 2.4.2 Downloading Required Jars

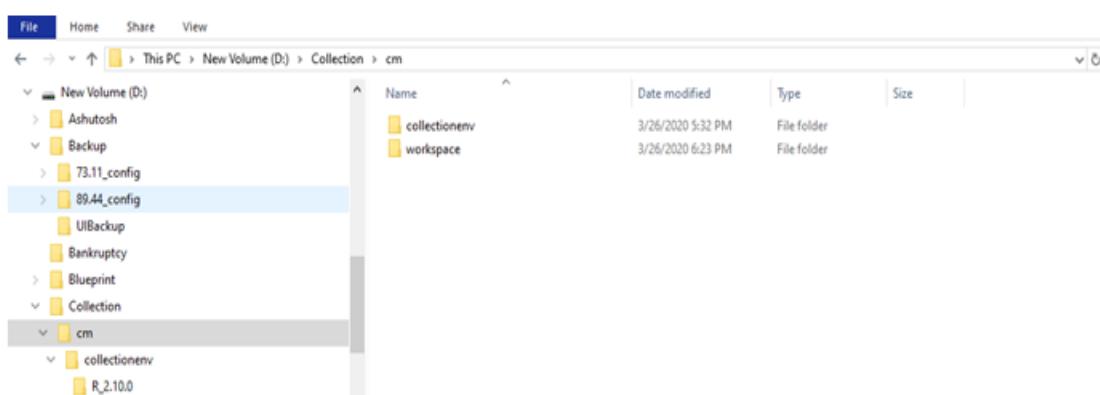
1. Download json-rpc jar from the following  
url:<https://mvnrepository.com/artifact/com.metaparadigm/json-rpc/1.0>
2. Copy the jar file to the following location:  
\SDKCommon\tools

## 2.4.3 Configuring eclipse Project

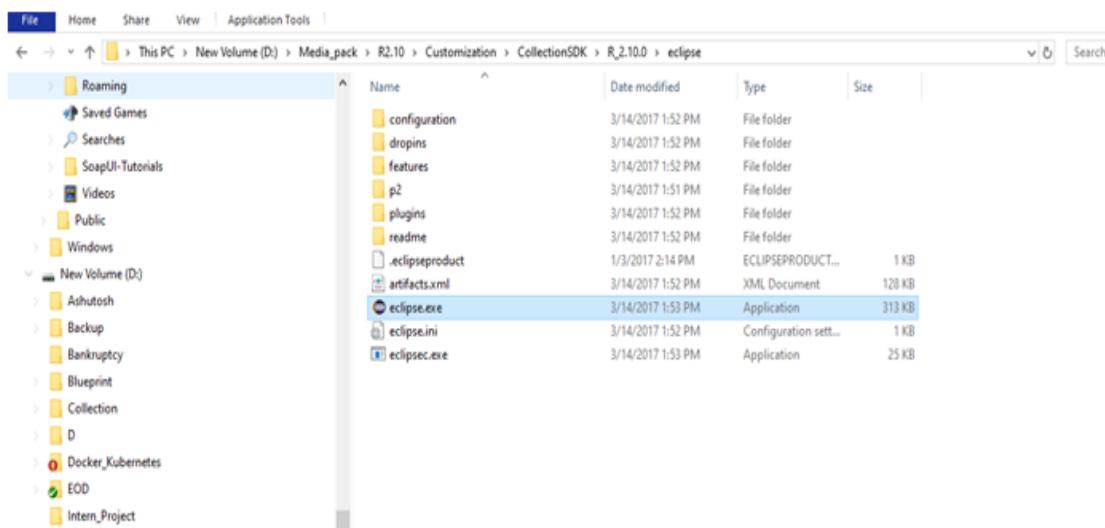
To select and configure eclipse Project:

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\collectionenv\R\_2.10.0\eclipse
3. Double-click **Eclipse.exe**.

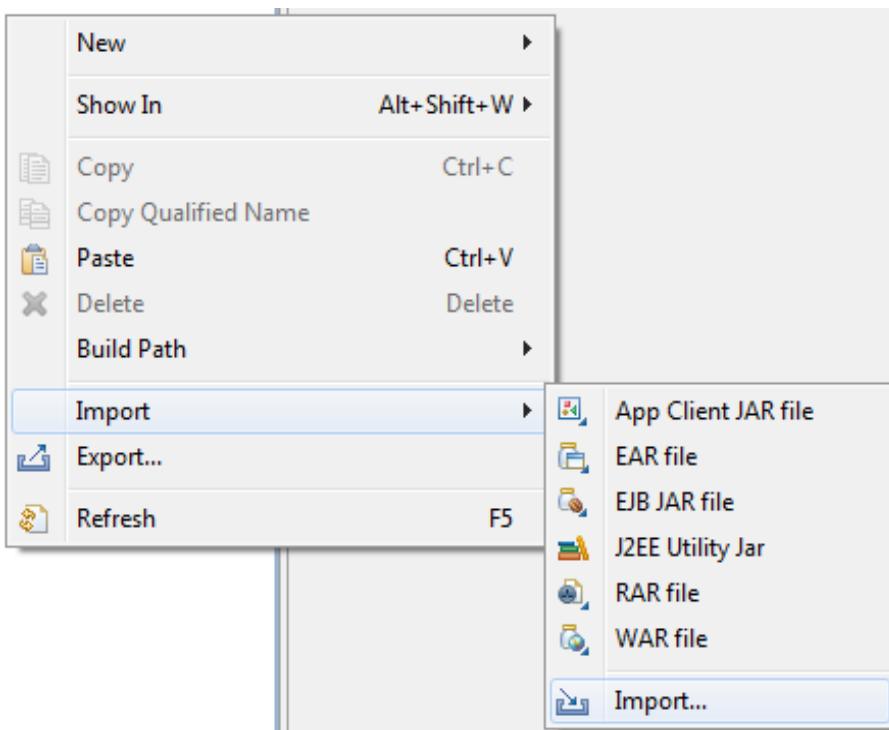
**Figure 2–13 Double-click Eclipse.exe**

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

**Figure 2–14 Workspace Launcher**

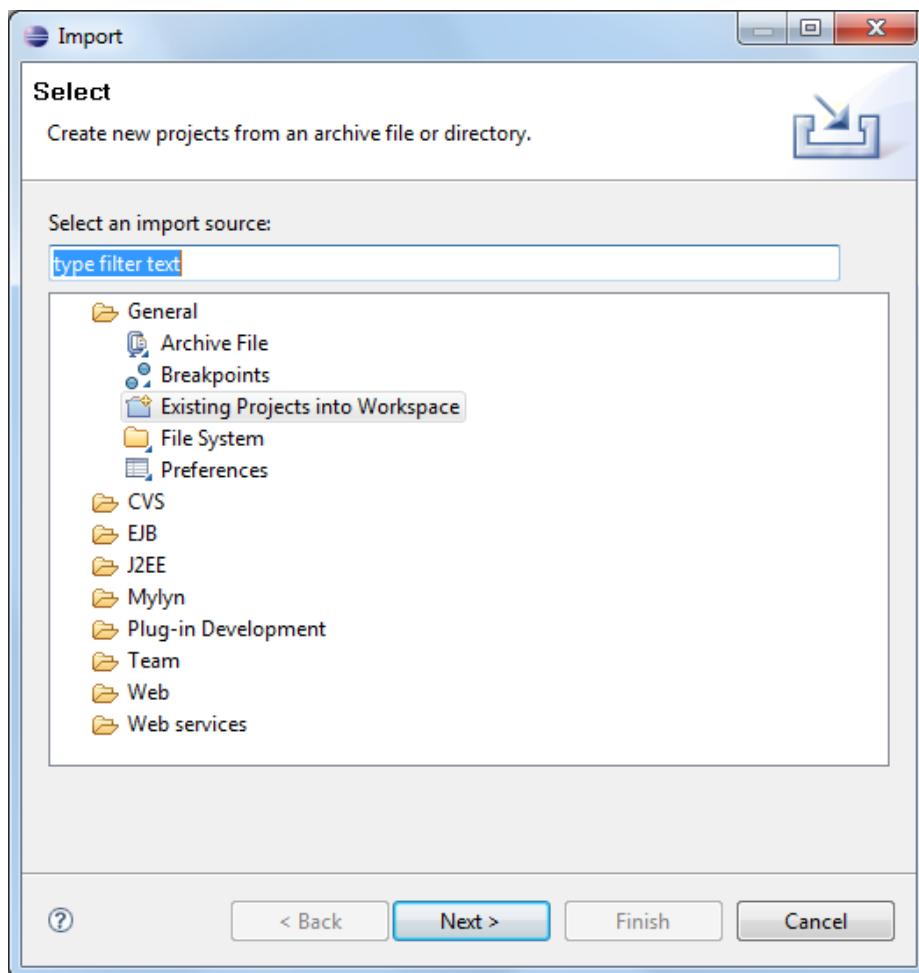
5. Click **OK**.
6. Right-click the Project Explorer, and select **Import --> Import**.

**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

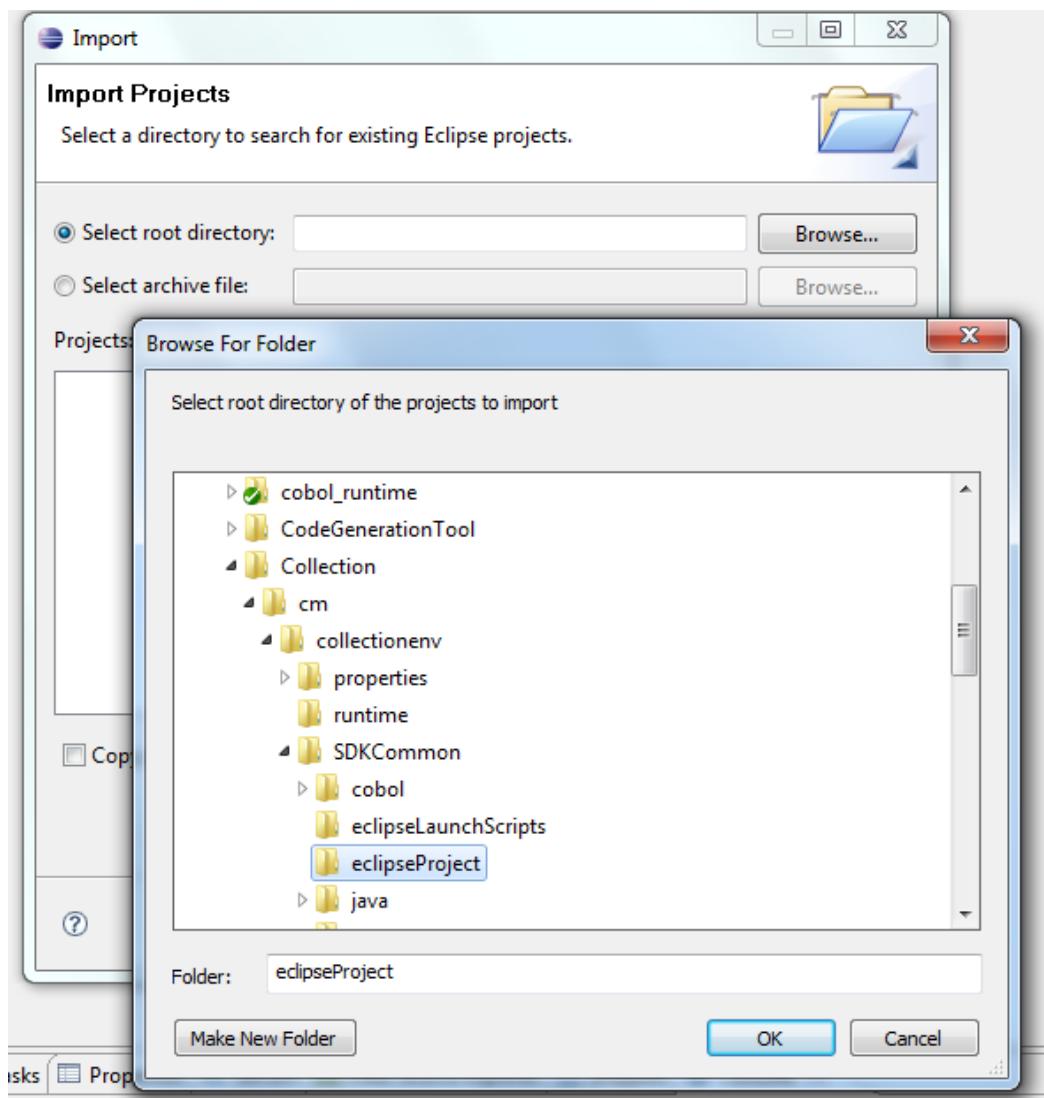


8. Click **Next**.
9. In the Import dialog box, select **Select root directory** option, and click **Browse**.
10. In the **Browse For Folder**, select **eclipseProject**.

You can locate the eclipseProject at:

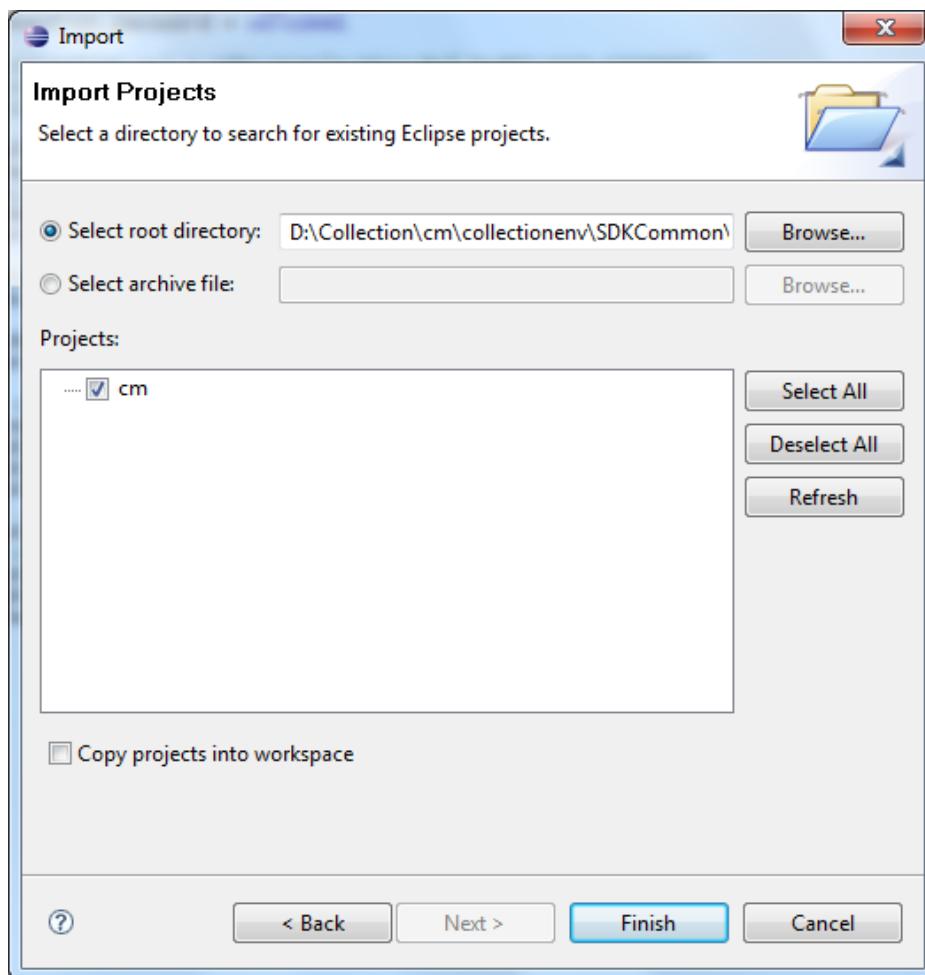
{Collection Environment Directory}\SDKCommon\workspace\

Figure 2–17 Browse and Locate *eclipseProject*



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

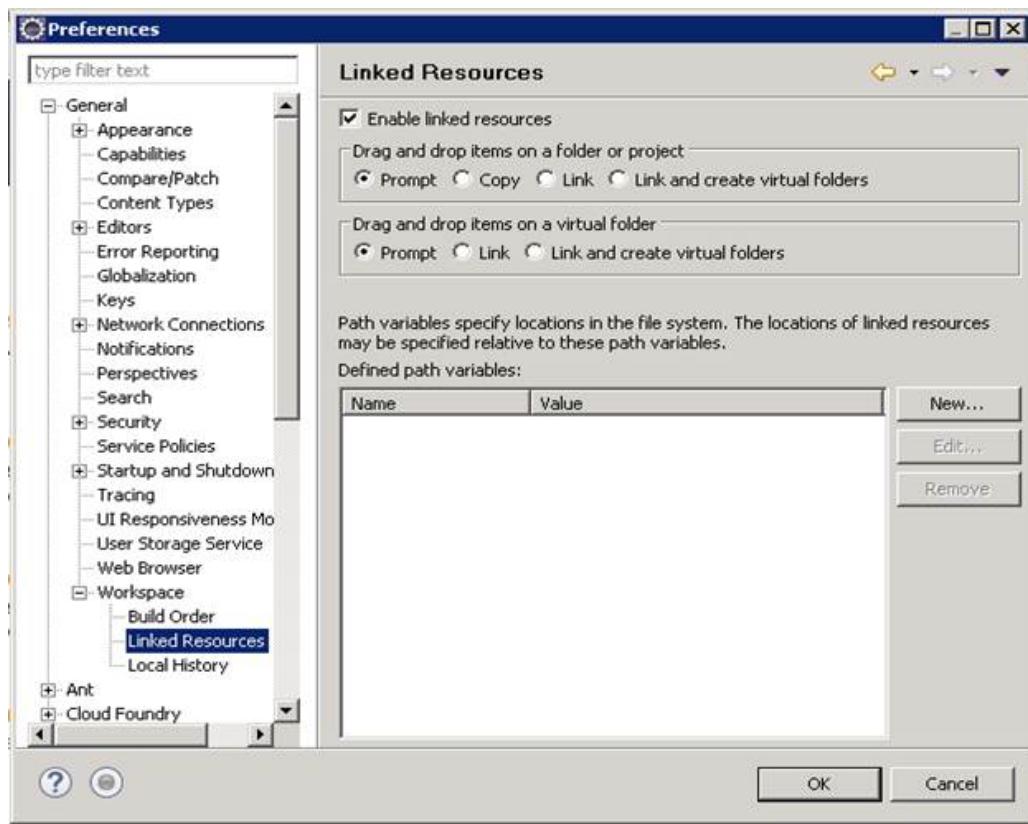
Figure 2–18 Import Projects - Finish



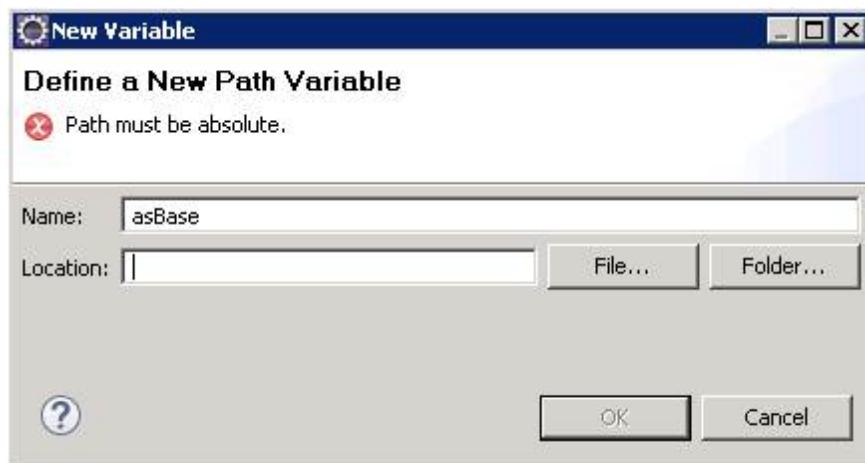
#### 2.4.4 Creating Linked Resource

To create linked resource:

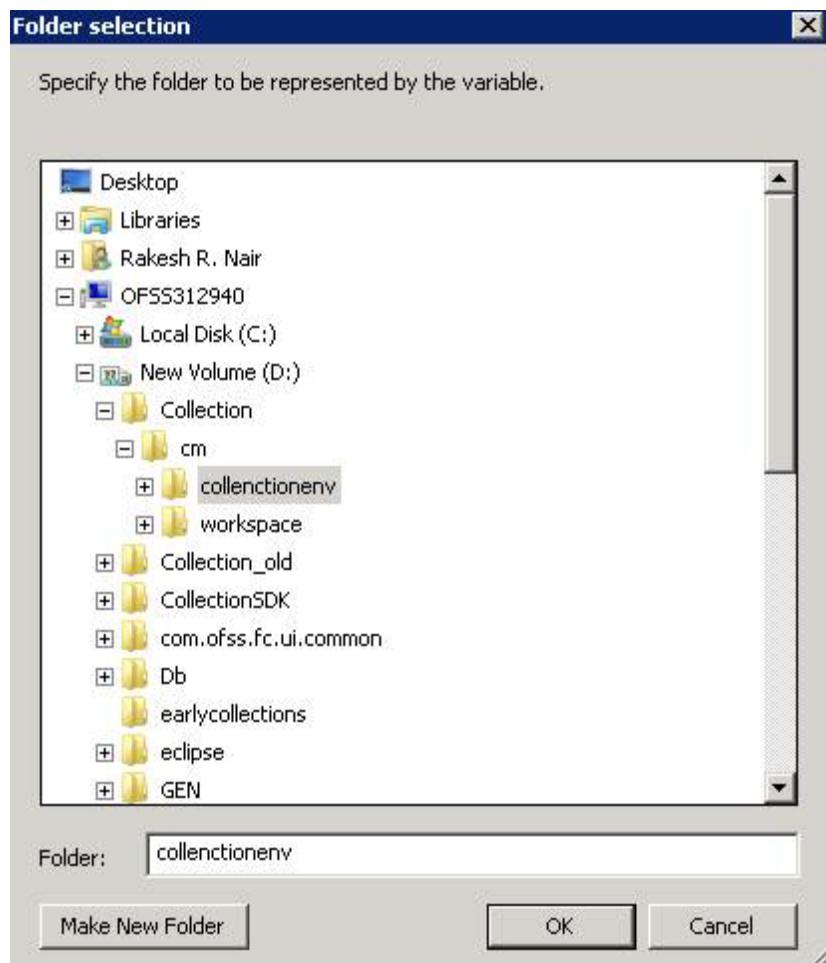
1. Navigate to **Window --> Preferences**.
2. In the **Preferences** dialog box, go to **General --> Workspace --> Linked Resource**.

**Figure 2–19 Linked Resources**

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

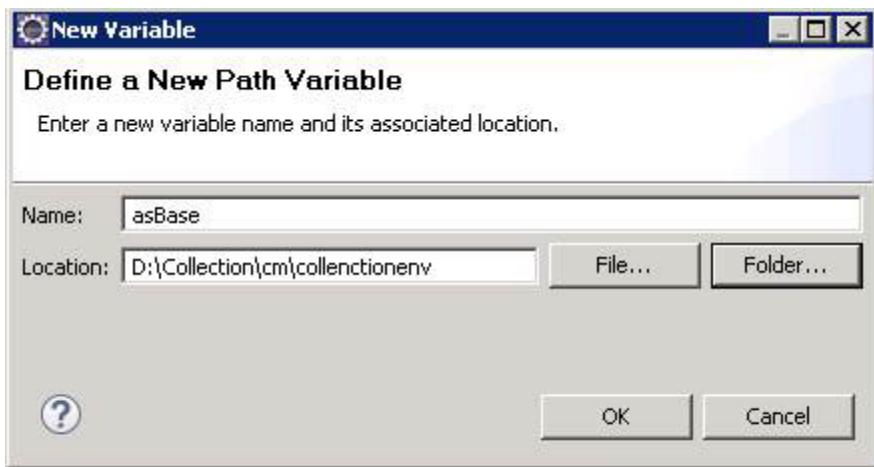
**Figure 2–20 New Variable asBase**

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

**Figure 2–21 Select Folder**

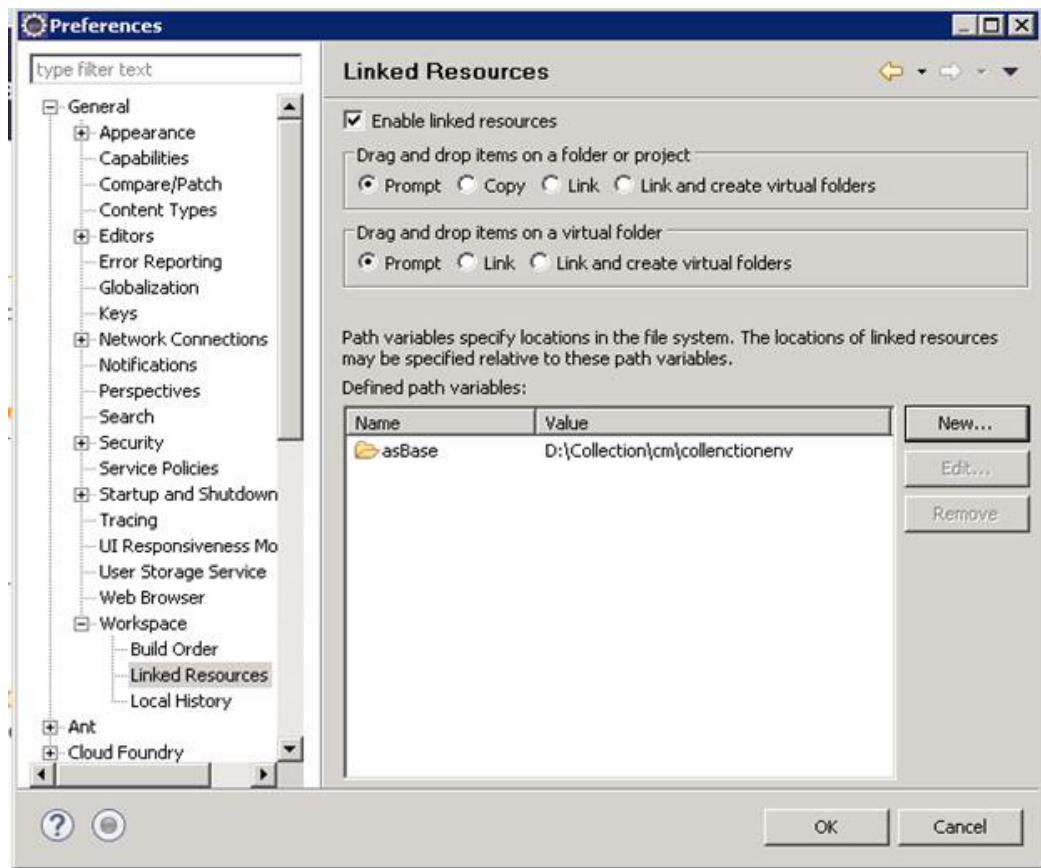
6. Click **OK**. The new variable name and location is set.

**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**

```

5     ...
6         call "%DOMAIN_HOME%\bin\setStartupEnv.cmd"
7     )
8
9 @REM Set user overrides, if available.
10
11 if exist "%DOMAIN_HOME%\bin\setUserOverrides.cmd" (
12     call "%DOMAIN_HOME%\bin\setUserOverrides.cmd"
13 )
14
15 @REM IF USER_MEM_ARGS the environment variable is set, use it to override ALL MEM_ARGS
16 set USER_MEM_ARGS=-Xms128m -Xmx3072m %MEM_DEV_ARGS% %MEM_MAX_PERM_SIZE%
17 if NOT "%USER_MEM_ARGS%"==""
18     set MEM_ARGS=%USER_MEM_ARGS%
19
20
21 set JAVA_PROPERTIES=-Dwls.home=%WLS_HOME% -Dweblogic.home=%WLS_HOME%
22
23
24
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1513
1514
1
```

**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**

Settings for cm\_domain

**Configuration** Monitoring Control Security Web Service Security ZDT Control Notes

General **JTA** Concurrency JPA EJBs Web Applications Logging Log Filters Batch

**Save**

Use this page to define the Java Transaction API (JTA) configuration of this WebLogic Server domain.

Timeout Seconds:	300
Abandon Timeout Seconds:	86400
Before Completion Iteration Limit:	10
Max Transactions:	10000
Max Unique Name Statistics:	1000
Checkpoint Interval Seconds:	300

Write recovery logs when determiners configured

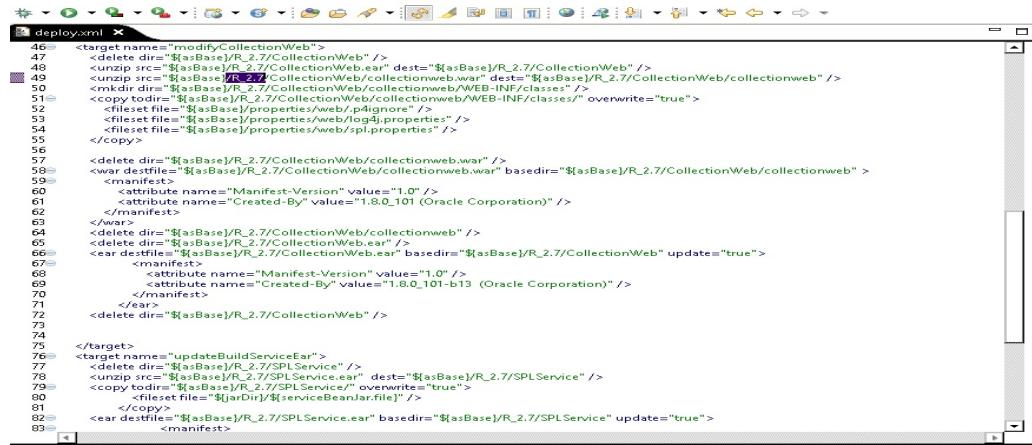
## 2.4.6 Updating deploy.xml

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**



```

<target name="modifyCollectionWeb">
<delete dir="${asBase}/R_2.7/CollectionWeb"/>
<unzip src="${asBase}/R_2.7/CollectionWeb.ear" dest="${asBase}/R_2.7/CollectionWeb" />
<copytodir "${asBase}/R_2.7/CollectionWeb/collectionweb" />
<copytodir "${asBase}/R_2.7/CollectionWeb/collectionwebWEB-INF/classes" />
<chiset file="${asBase}/properties/web/p4ignore" />
<chiset file="${asBase}/properties/web/log4j.properties" />
<chiset file="${asBase}/properties/web/spl.properties" />
</target>
<target name="updateBuildServiceEar">
<delete dir="${asBase}/R_2.7/SPLService"/>
<unzip src="${asBase}/R_2.7/SPLService.ear" dest="${asBase}/R_2.7/SPLService" />
<copytodir "${asBase}/R_2.7/SPLService" />
<chiset file="${jarDir}/$serviceBeanJar.file" />
<copytodir "${asBase}/R_2.7/SPLService.ear" basedir="${asBase}/R_2.7/SPLService" update="true">
<manifest>
<attribute name="Manifest-Version" value="1.0" />
<attribute name="Created-By" value="1.8.0_101 (Oracle Corporation)" />
</manifest>
</copytodir>
<ear destfile="${asBase}/R_2.7/CollectionWeb.ear" basedir="${asBase}/R_2.7/CollectionWeb" update="true">
<manifest>
<attribute name="Manifest-Version" value="1.0" />
<attribute name="Created-By" value="1.8.0_101-b13 (Oracle Corporation)" />
</manifest>
</ear>
<delete dir="${asBase}/R_2.7/CollectionWeb" />
</target>
<target name="updateBuildServiceEar">
<delete dir="${asBase}/R_2.7/SPLService"/>
<unzip src="${asBase}/R_2.7/SPLService.ear" dest="${asBase}/R_2.7/SPLService" />
<copytodir "${asBase}/R_2.7/SPLService" />
<chiset file="${jarDir}/$serviceBeanJar.file" />
<copytodir "${asBase}/R_2.7/SPLService.ear" basedir="${asBase}/R_2.7/SPLService" update="true">
<manifest>

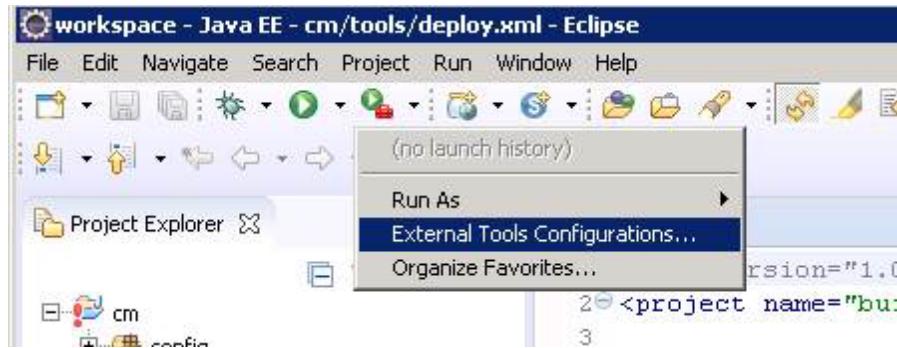
```

## 2.4.7 Setting Variable in cmDeploy

To set asBase variable in cmDeploy ant script:

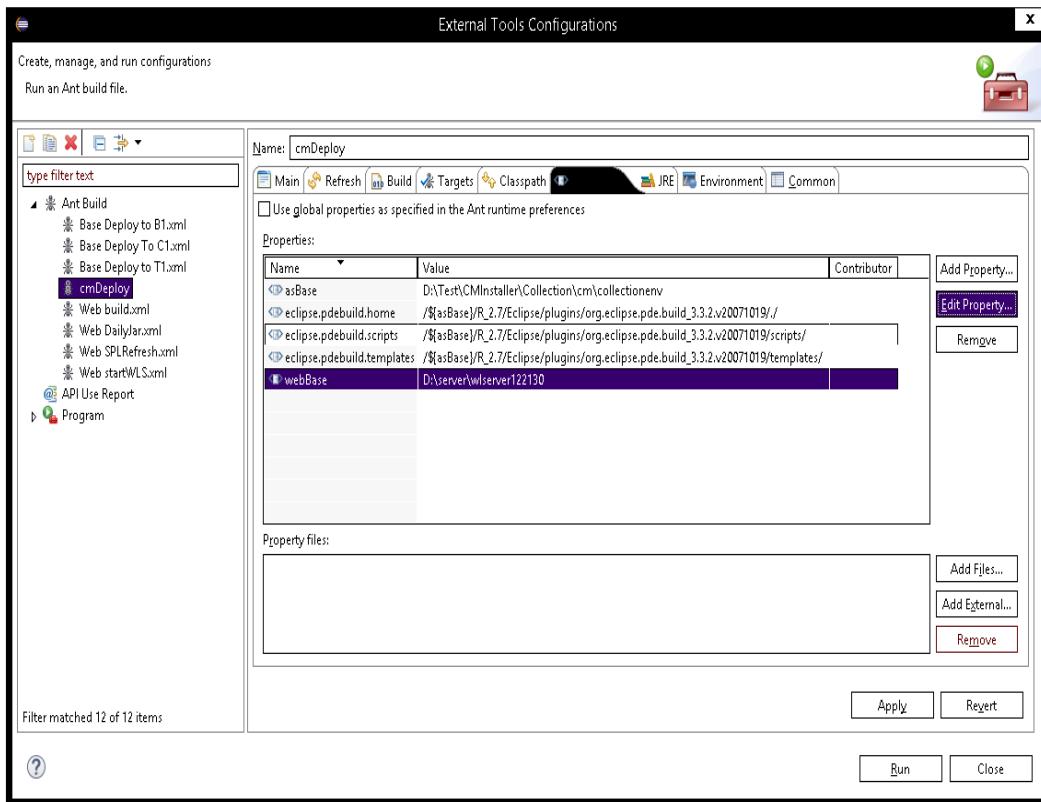
1. Navigate to **Open External Tools Dialog** by clicking Run -> External Tools -> ExternalTools Configurations.

**Figure 2–28 Open External Tools Dialog**



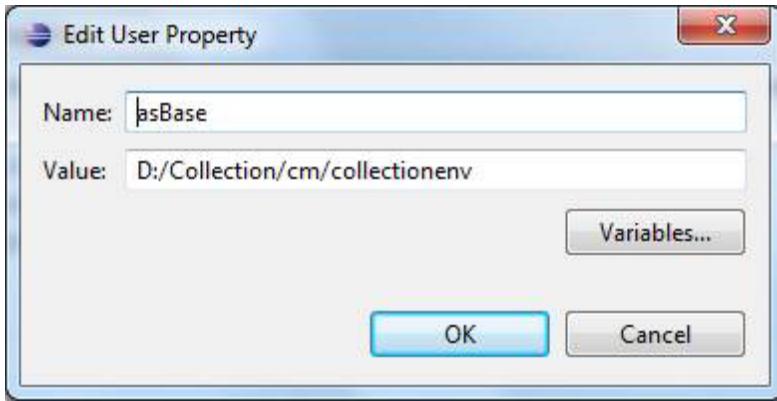
2. In the **External Tools** dialog box, select **cmDeploy** and edit asBase and webBase property.

**Figure 2–29 External Tools - asBase**

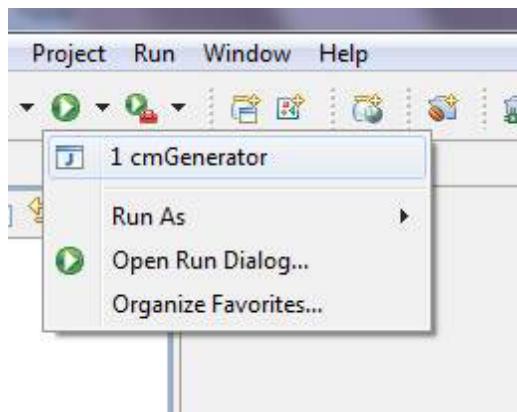


- Click **Edit Property** and specify the path where you have installed collection environment.

**Figure 2–30 asBase - Edit User Property**



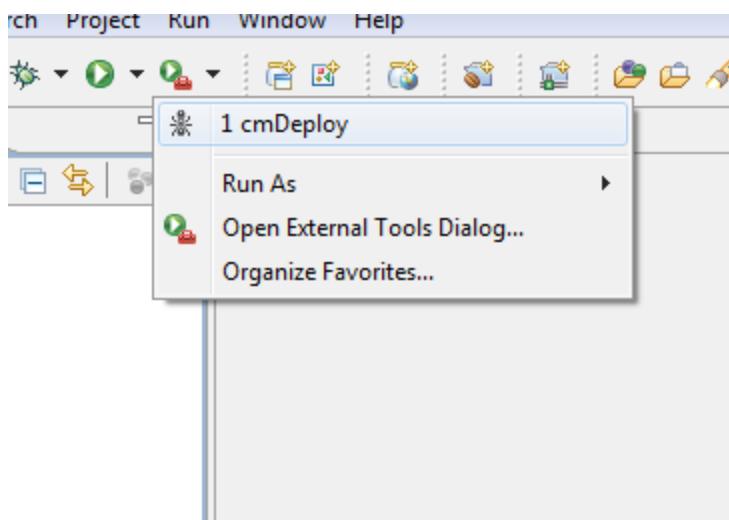
- Click **Ok** and apply.
- Run the artifact generator to ensure that the setup runs correctly.

**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

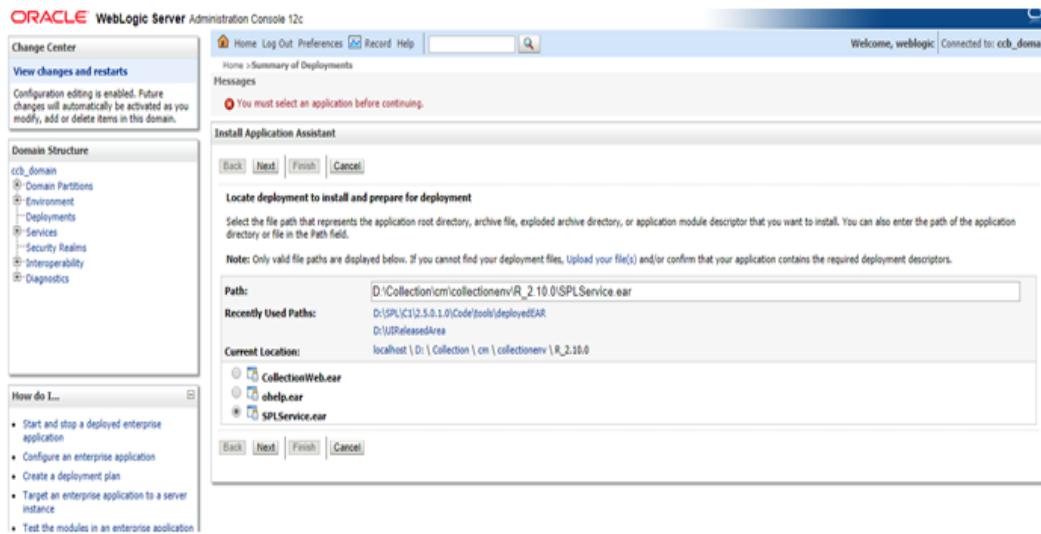
Deploy the CollectionWeb application to the newly created domain.

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\_2.10.0**

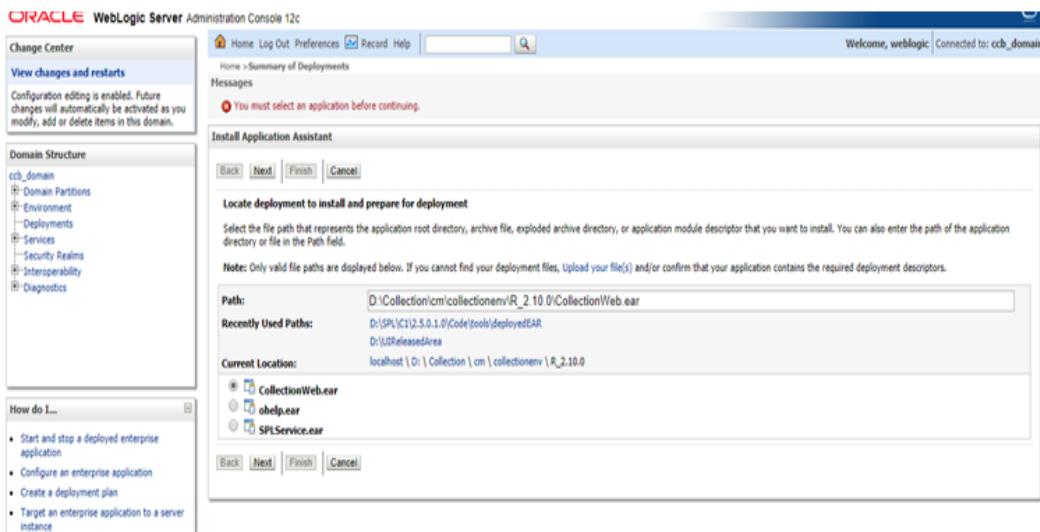
**Figure 2–33 Deploy SPLService.ear**



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

### Step 2 Deploy CollectionWeb.ear

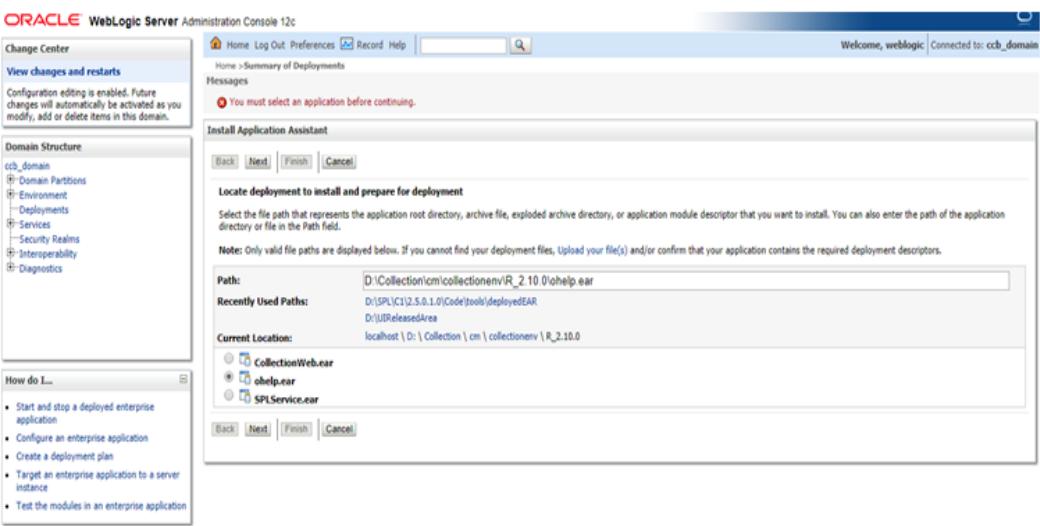
1. Navigate to **Deployments -> Install**
2. Specify CollectionWeb.ear path:  
**<Installation Directory>/collectionenv/R\_2.10.0/**

**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\_2.10.0/**

**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**

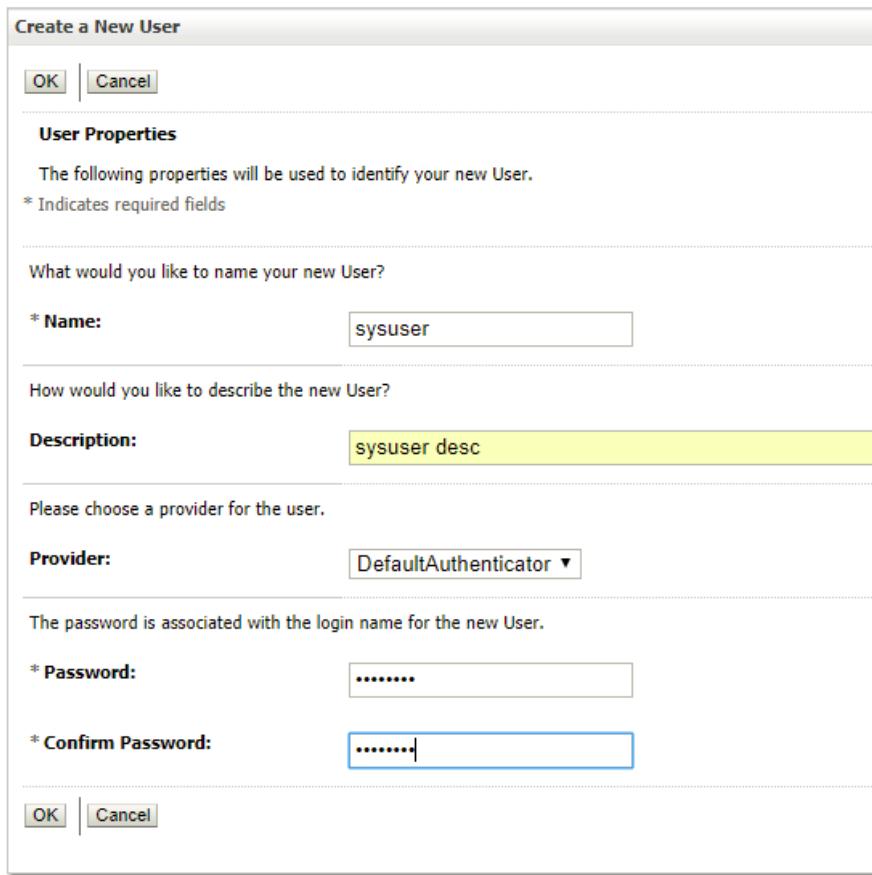
1. Navigate to **Deployment -> Install**
2. You can see State of both deployment will be Active.

#### **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**

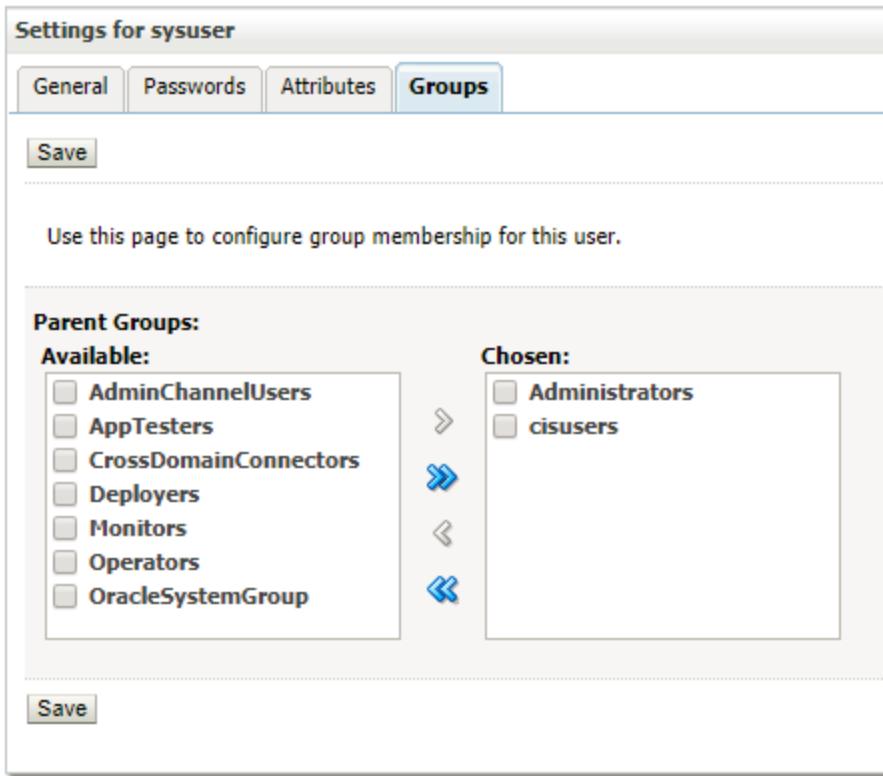


The screenshot shows a 'Create a New User' dialog box. At the top are 'OK' and 'Cancel' buttons. Below them is a section titled 'User Properties' with the note: 'The following properties will be used to identify your new User.' and a reminder: '\* Indicates required fields'. The 'Name' field is set to 'sysuser'. The 'Description' field contains 'sysuser desc' and is highlighted with a yellow background. The 'Provider' dropdown is set to 'DefaultAuthenticator'. The 'Password' and 'Confirm Password' fields both contain '.....'. At the bottom are 'OK' and 'Cancel' buttons.

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:**

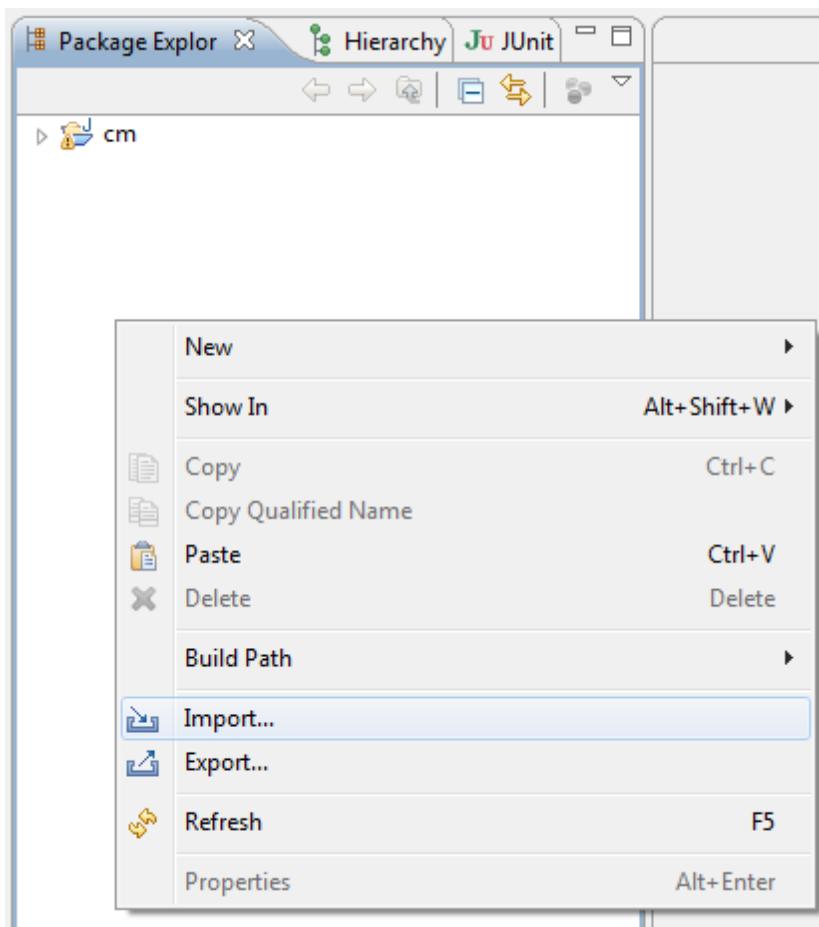
1. <http://localhost:7001/CollectionAdmin>.
2. Login using **sysuser** and **password** associated to user.

### **2.4.10 Importing Test Project into Customization Setup**

To import Test Project into customization setup:

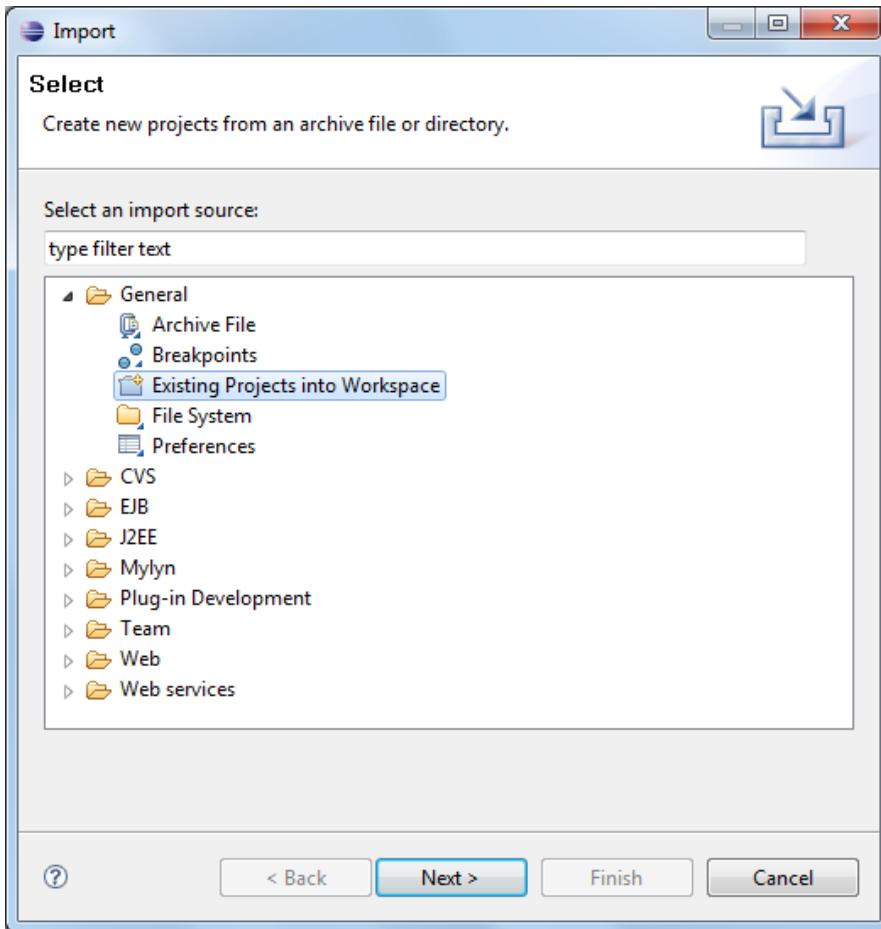
1. Right-click **Project Explorer**, and select **Import**.

Figure 2–38 Import



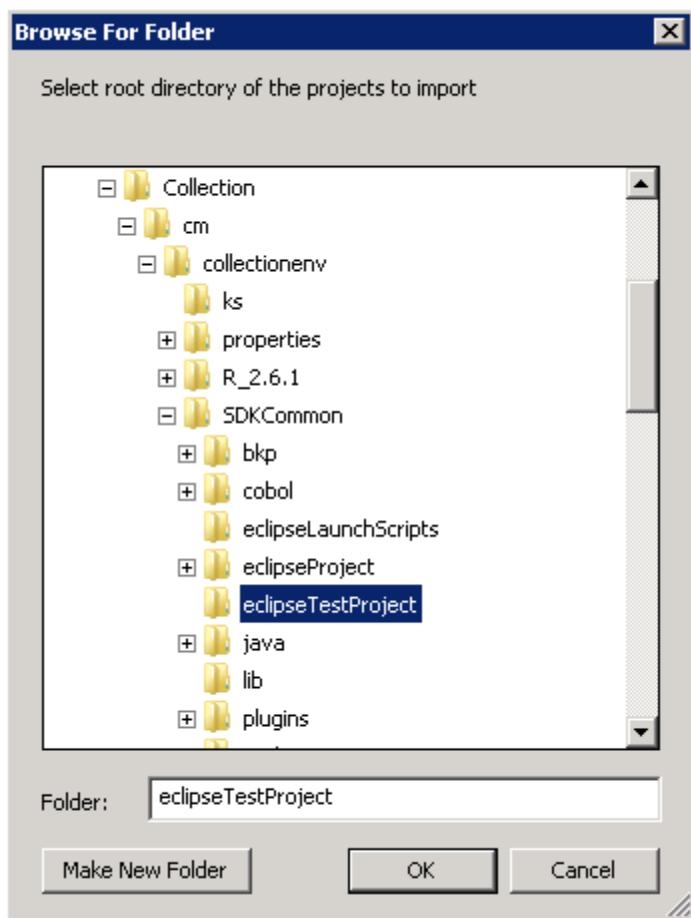
2. In the **Import** dialog box, select **Existing Projects into Workspace**.

*Figure 2–39 Select Existing Projects Into Workspace*



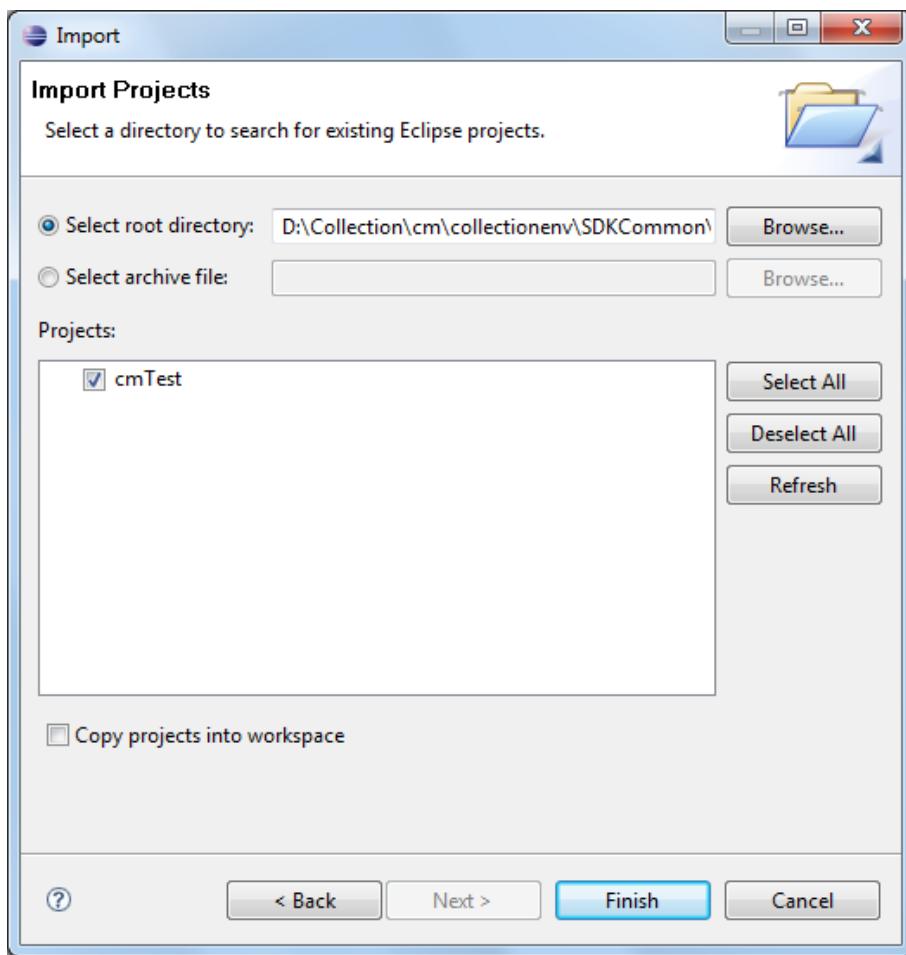
3. Click **Next**.
4. In the **Browse For Folder**, select **eclipseTestProject**.  
You can locate the **eclipseTestproject** at:  
`{Collection Environment Directory}\SDKCommon\{eclipseTestProject}`

Figure 2–40 Select **eclipseTestProject**



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

**Figure 2–41 Import Projects**



## 2.4.11 Troubleshooting JUnit

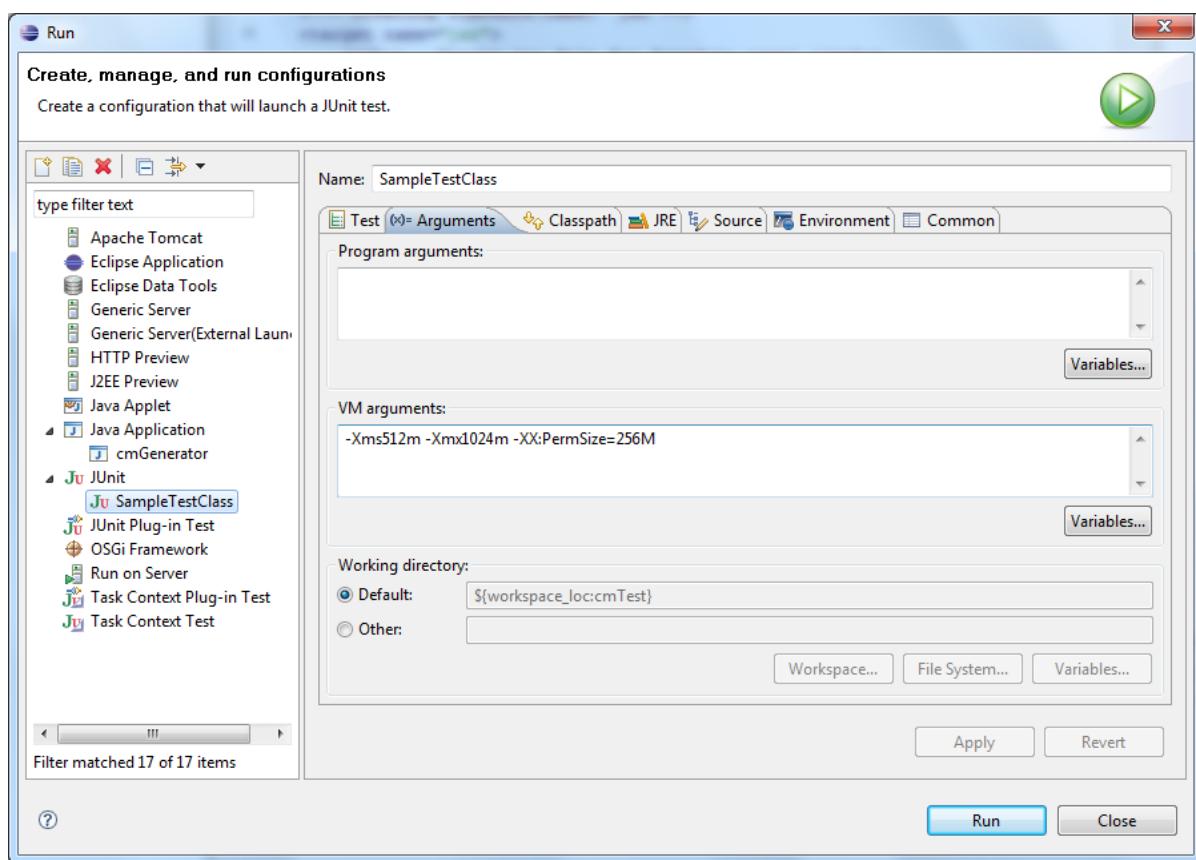
During execution of JUnit, following possible error scenarios are encountered:

- 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.