

BPEL Process Deployment
Oracle FLEXCUBE Investor Servicing
Release 12.0.3.0.0
[April] [2014]



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1. Introduction

1.1 Scope of the Document

This Document details FCIS BPEL Process Deployment

1.2 Intended Audience

The Document is intended for the following audience:

- Implementation team.

1.3 Abbreviations and Terms

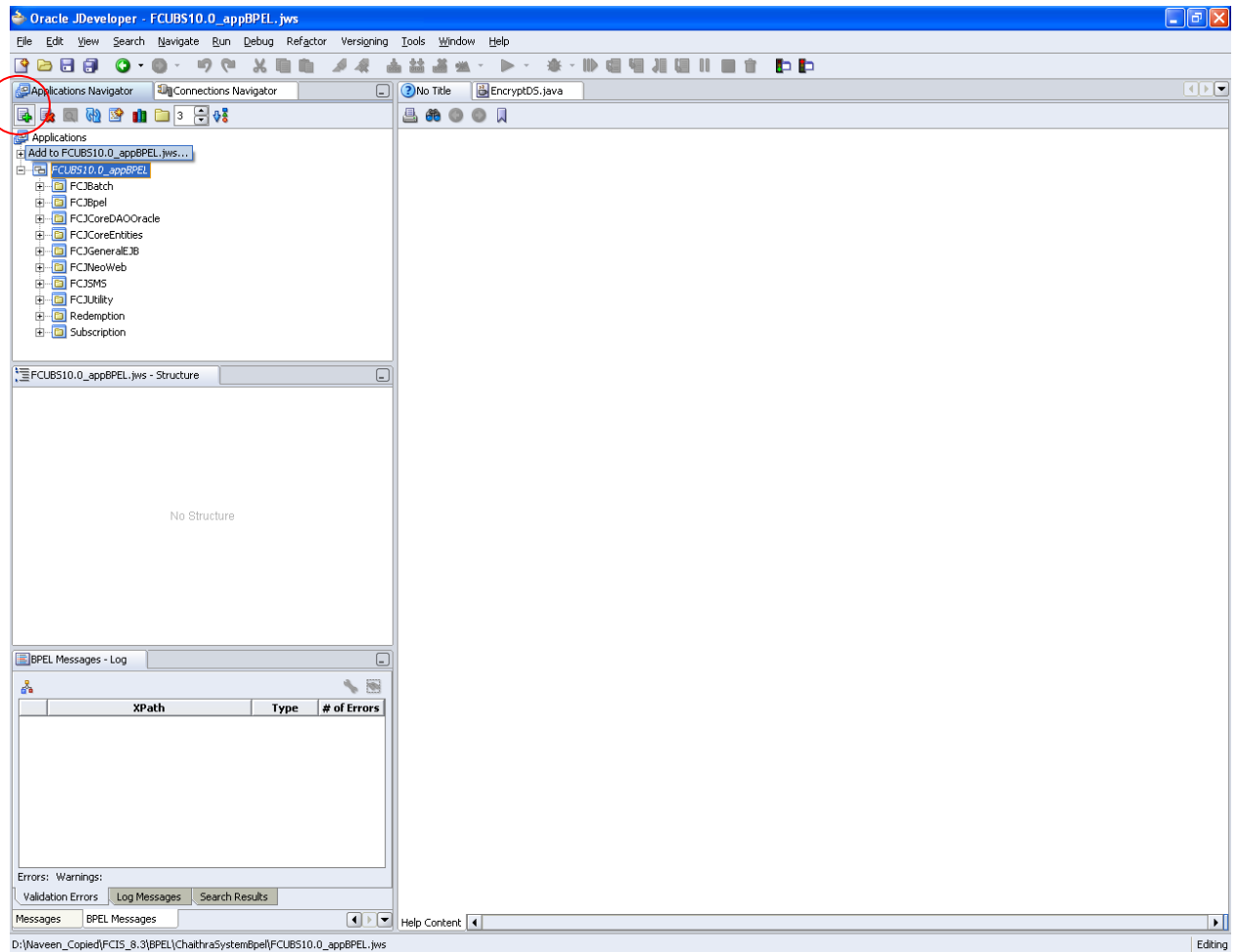
Abbreviation	Description
FCIS	Oracle FLEXCUBE Investor Servicing.
BPEL	Business Process Execution Language.
SOA	Service Oriented Architecture

Copy the whole folder BPEL from the installation CD into some folder on local machine.

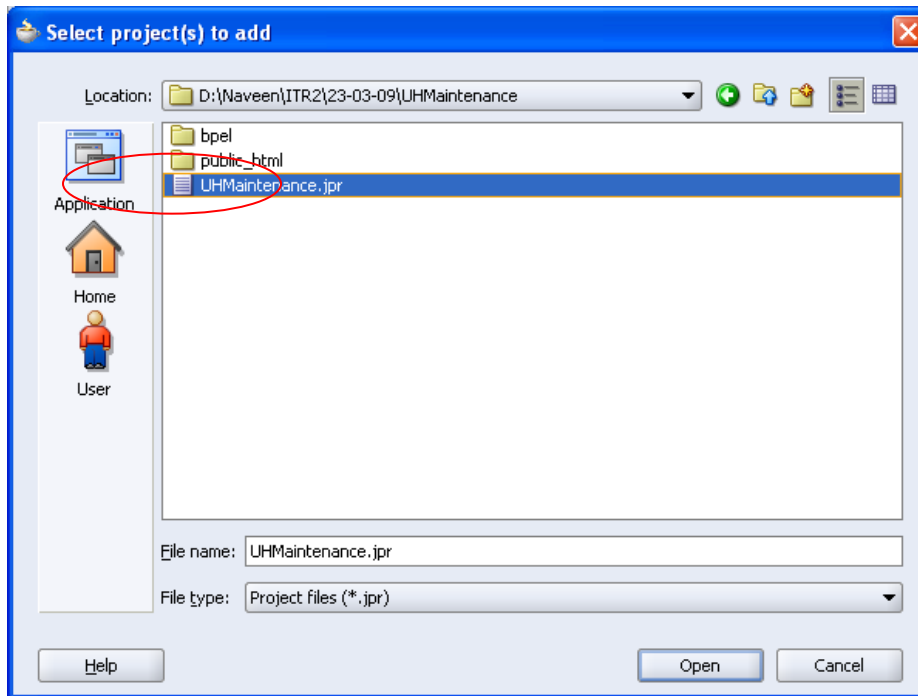
2. BPEL Process Deployment

2.1 Deployment through BPEL Console

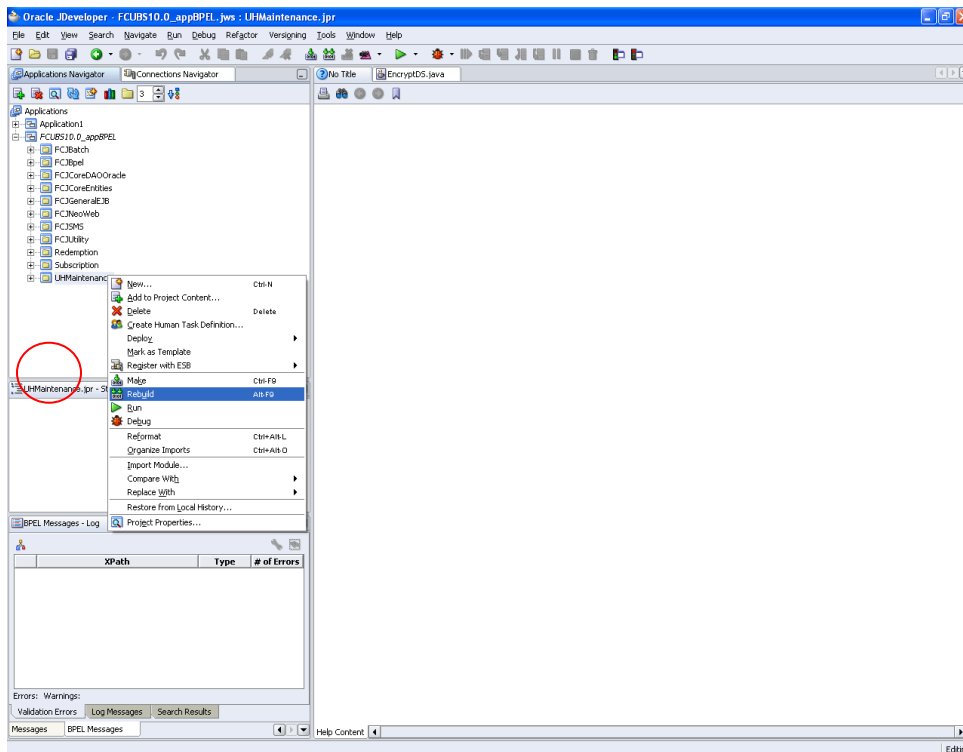
Launch the Oracle JDeveloper, click on Add button in Application Navigator.



Browse to the location where we have copied the UHMaintenance Process and select the UHMaintenance.jpr.

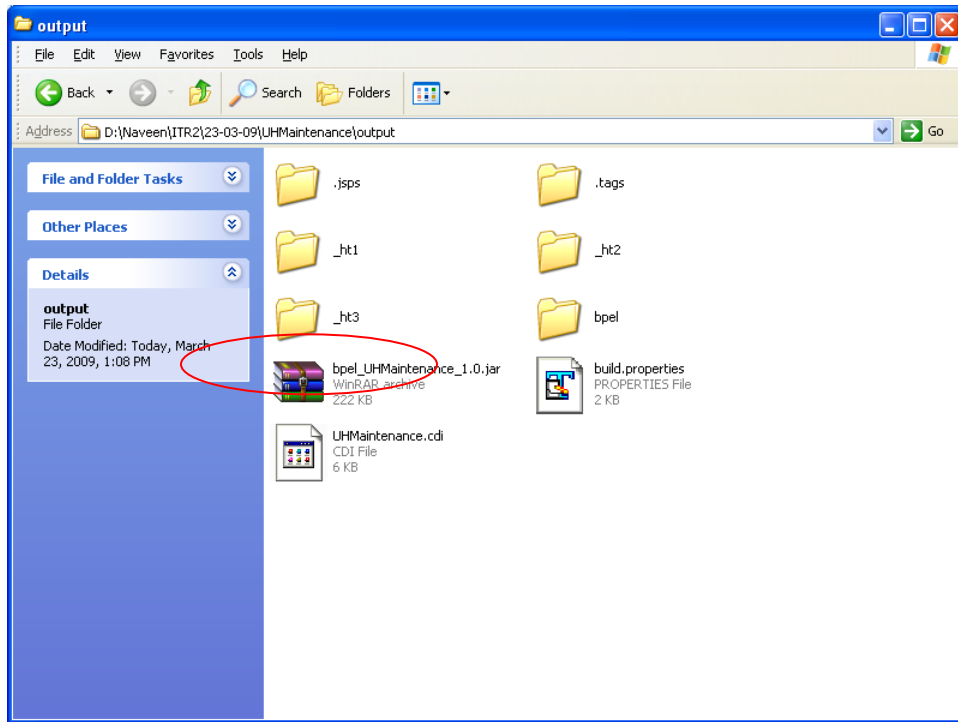


Now right-click on the UHMaintenance Process and Rebuild



Once the rebuild is done, a folder output is created in the corresponding location from where we have selected the UHMaintenance.jpr

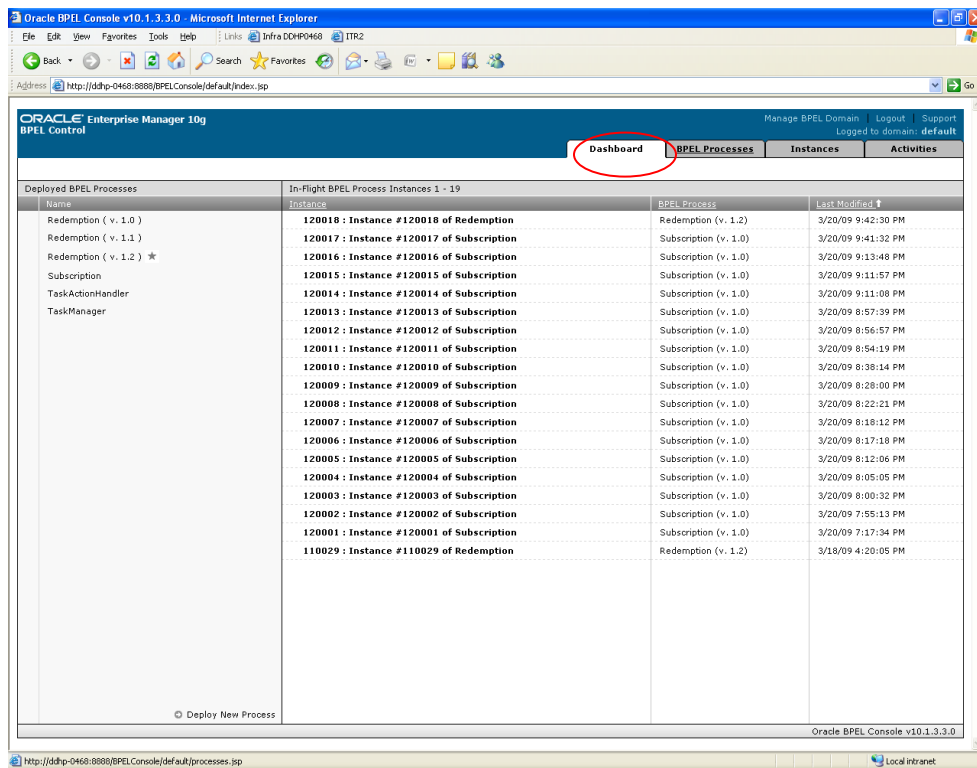
Inside that output file a jar file (bpel_UHMaintenance_1.0.jar) will be created as shown below



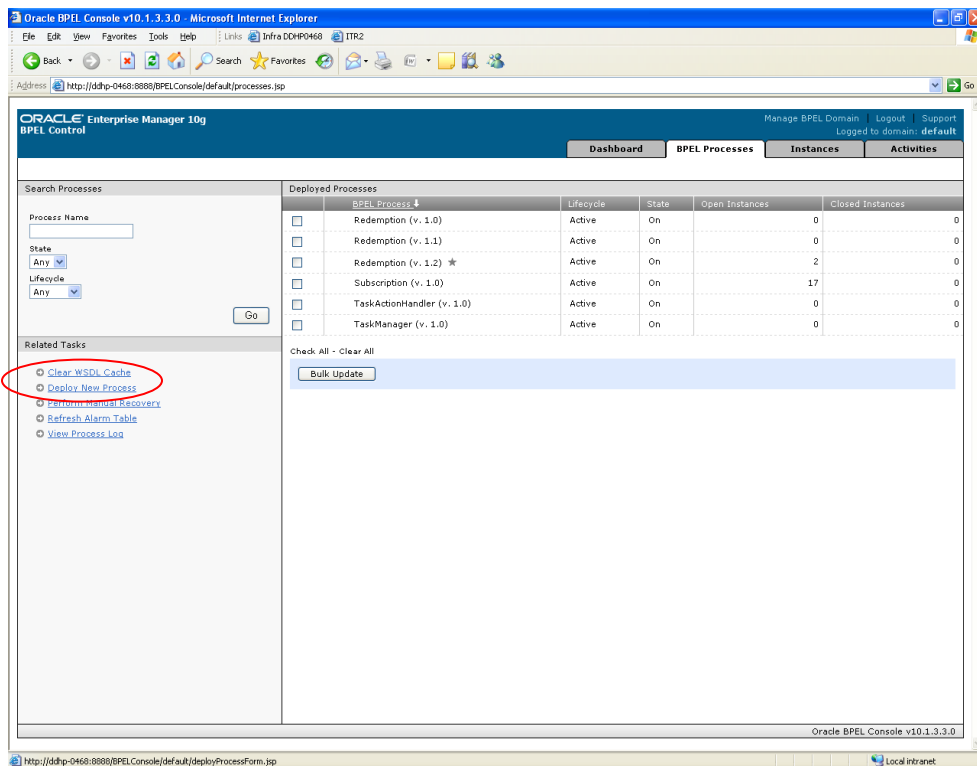
Now Log into the BPEL Console



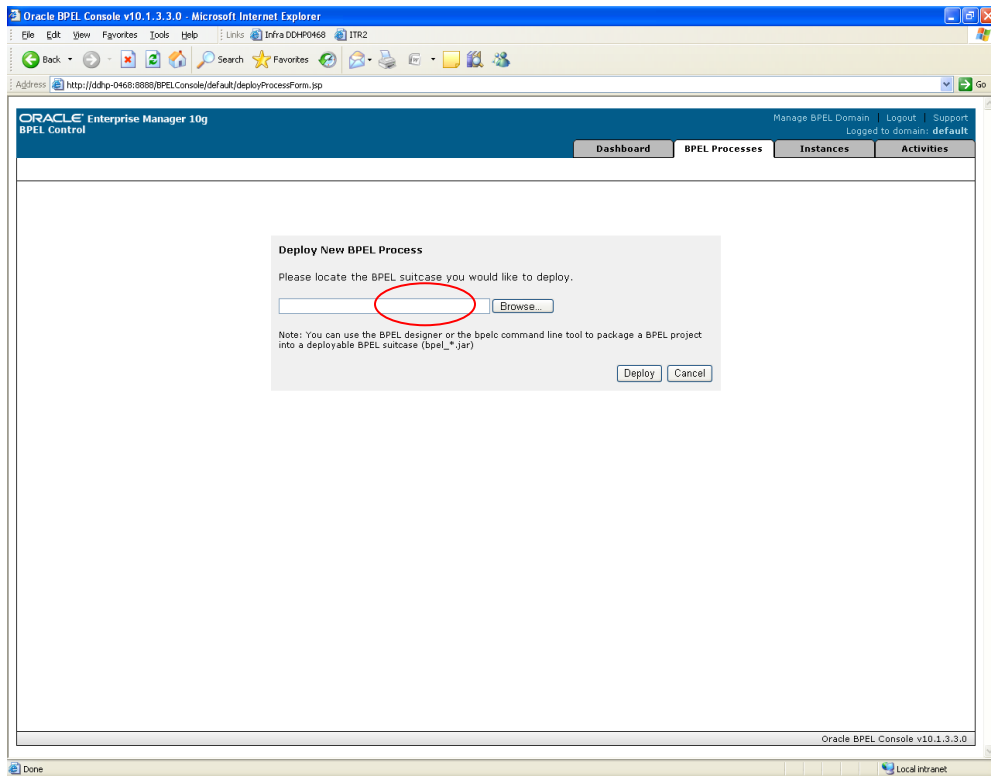
Click on BPEL Processes tab



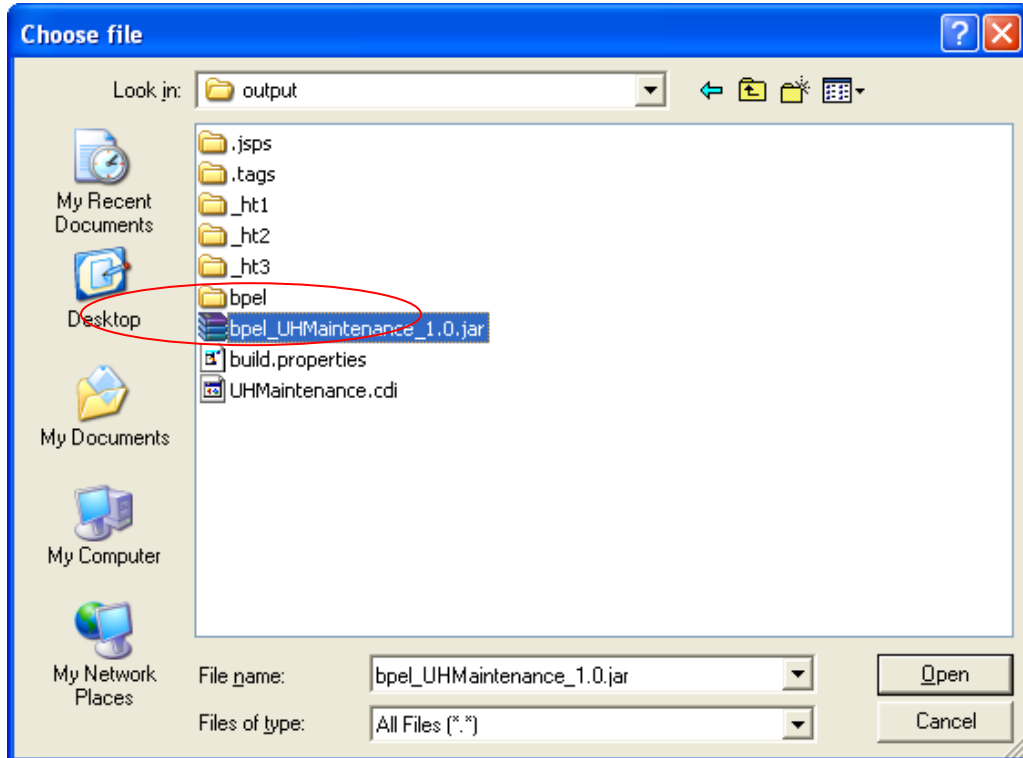
Click on Deploy New Process



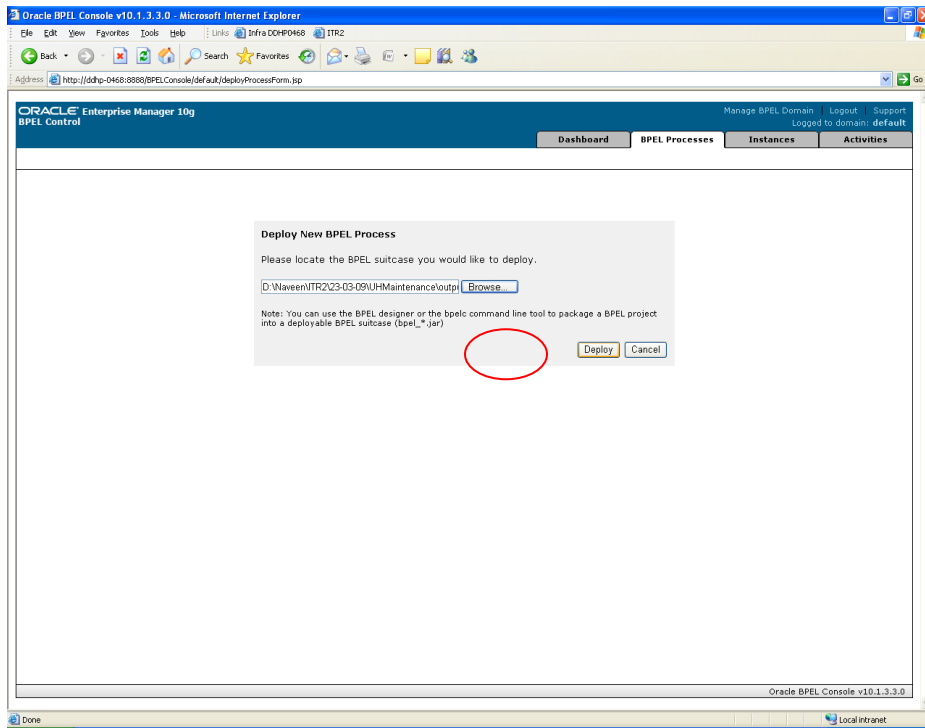
Click on Browse



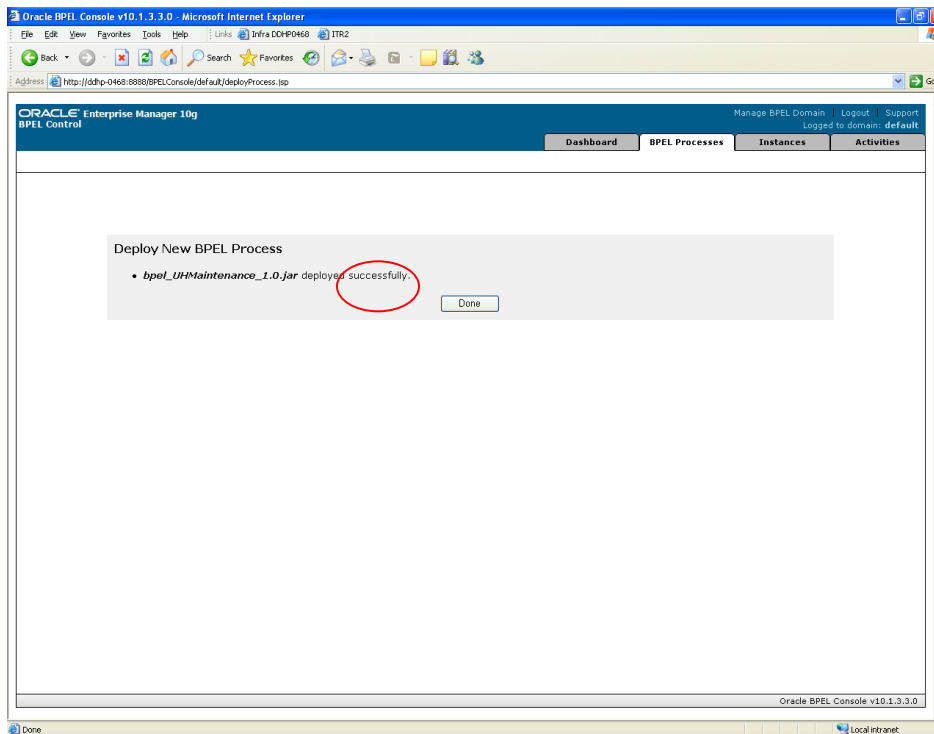
Select bpel_UHMaintenance_1.0.jar file which is created earlier and click open.



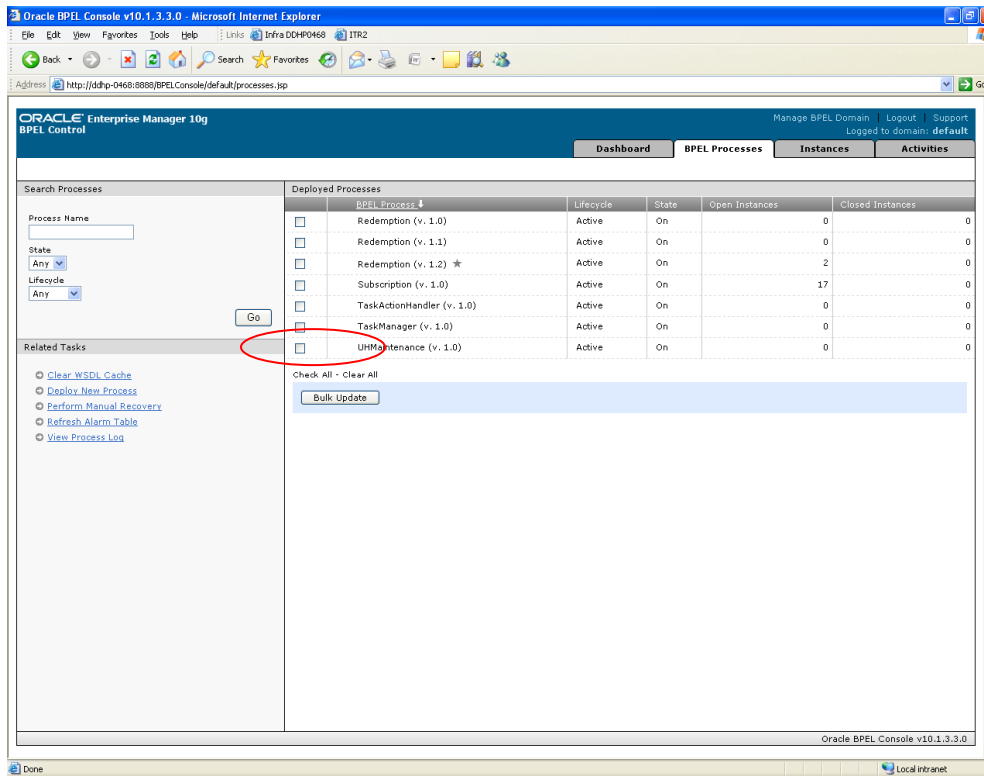
Now Click on Deploy



Once the process is been deployed we get the below screen click on done.



Now we can see our process is been deployed, now we may logout

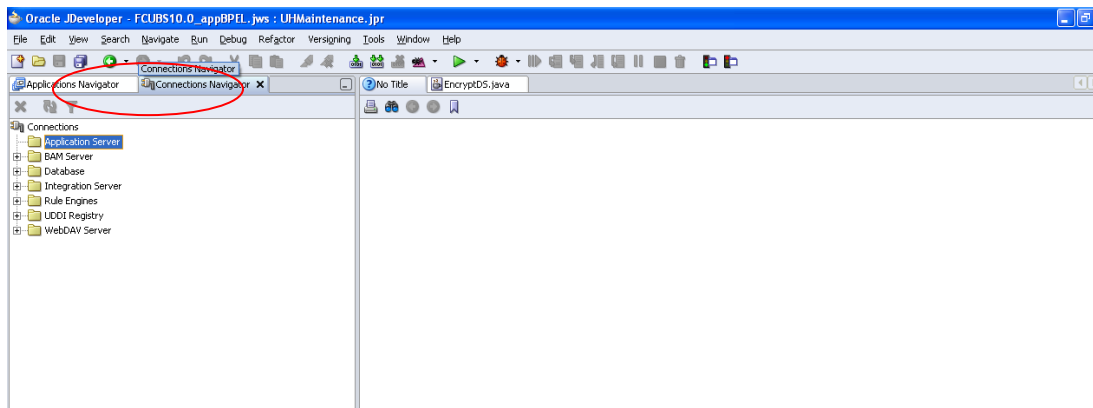


This Completes the BPEL Process Deployment through BPEL Console.

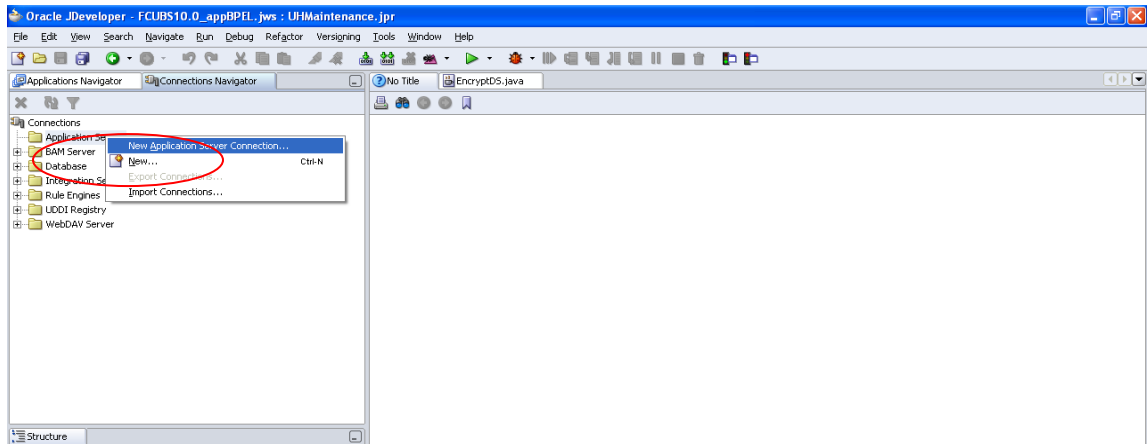
2.2 Deployment through Oracle JDeveloper

In order to deploy BPEL Process from Oracle JDeveloper, initially we have to set the Application Server Connection and Integration Server Connection in the Connection Navigator of the Oracle JDeveloper.

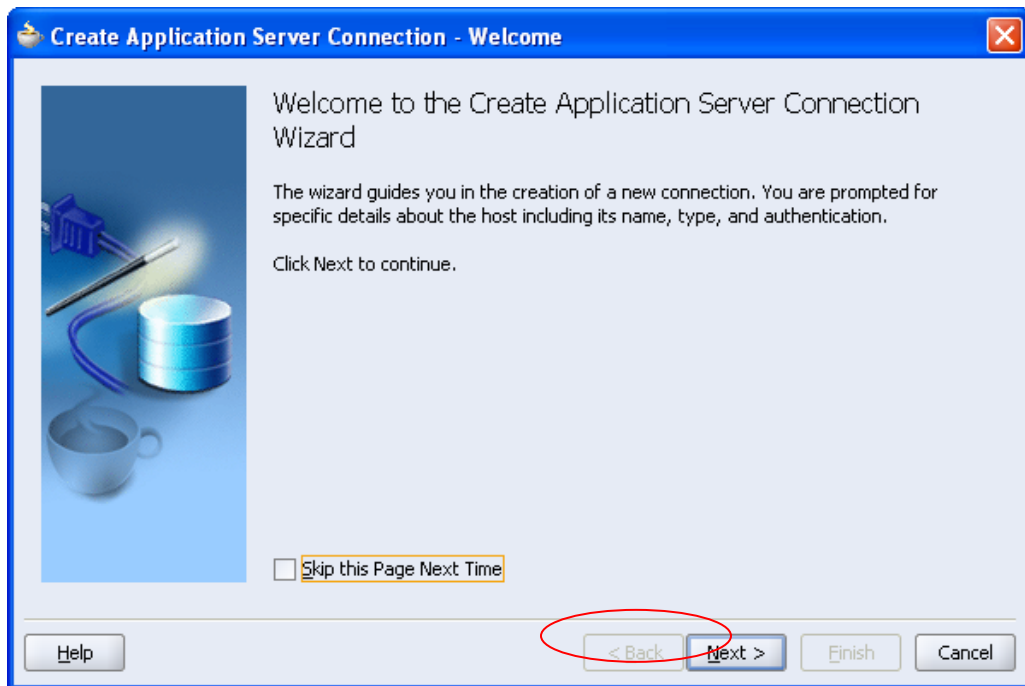
Click on Connection Navigator, select application Server



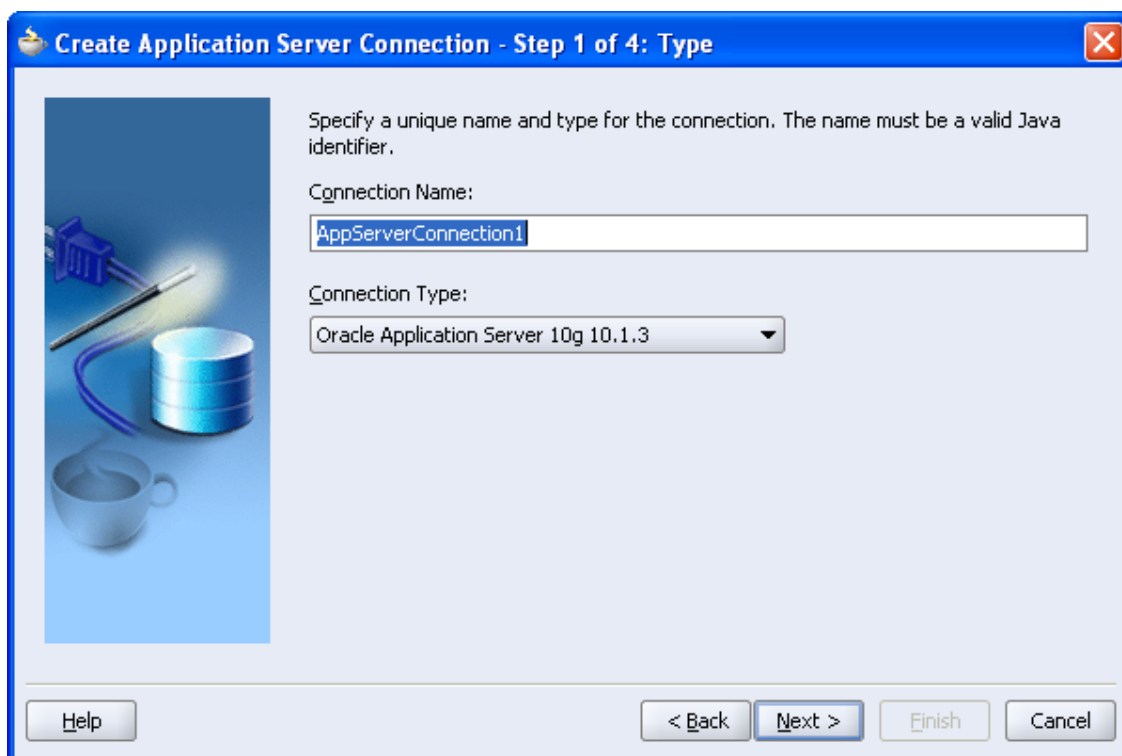
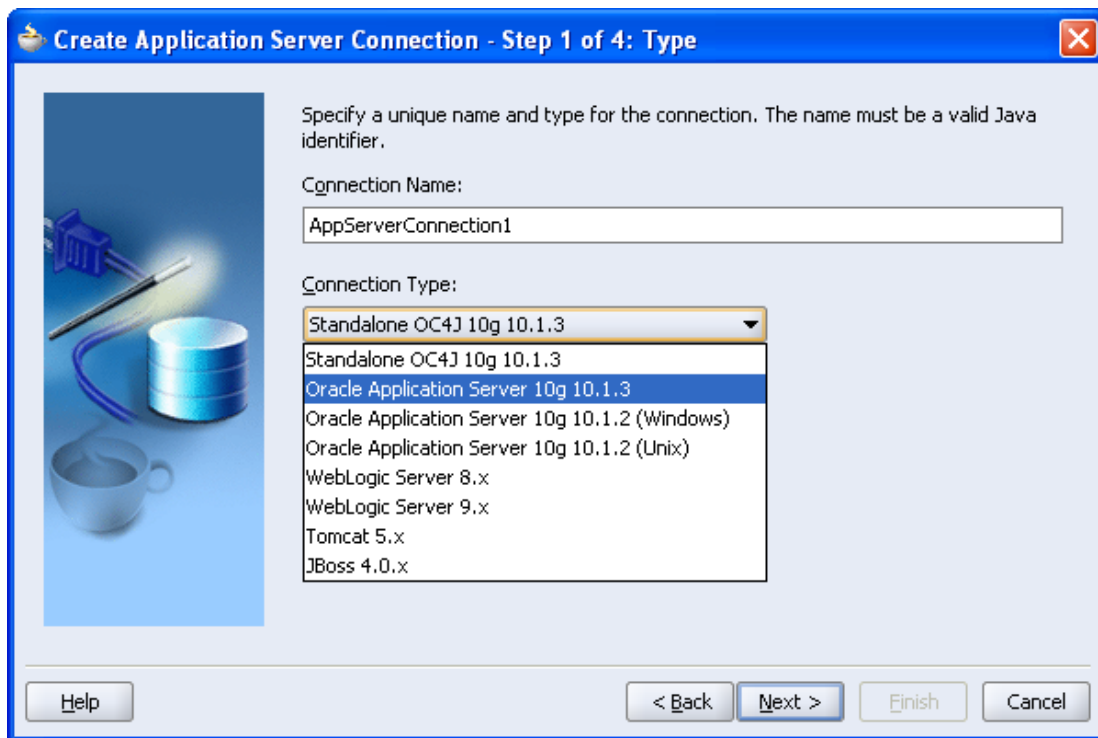
Right click on Application Server and select “New Application Server Connection”.



Click on next



Now give the Connection Name which is been defaulted and select the Connection Type as "Oracle Application Server 10g 10.1.3" and then click on next.



Enter the SOA Suite Application Server Control Username and Password, check the Deploy Password then click on next.

Create Application Server Connection - Step 2 of 4: Authentication

Specify a username and password to authenticate the connection. To bypass authentication at runtime, select Deploy Password.

Username:

Password:

☒ Deploy Password

Help < Back Next > Finish Cancel

Select the Connect to Single Instance, enter the Host Name of the Application Server and OPMN Port as "6003" and OC4J Instance Name as "home". Now click on next.

Create Application Server Connection - Step 3 of 4: Connection

Please provide the host name and OPMN port for the OPMN instance and the name of the OC4J instance, component, or group being managed by OPMN. This information is used to assemble an URL used to create a JMX connection to the server.

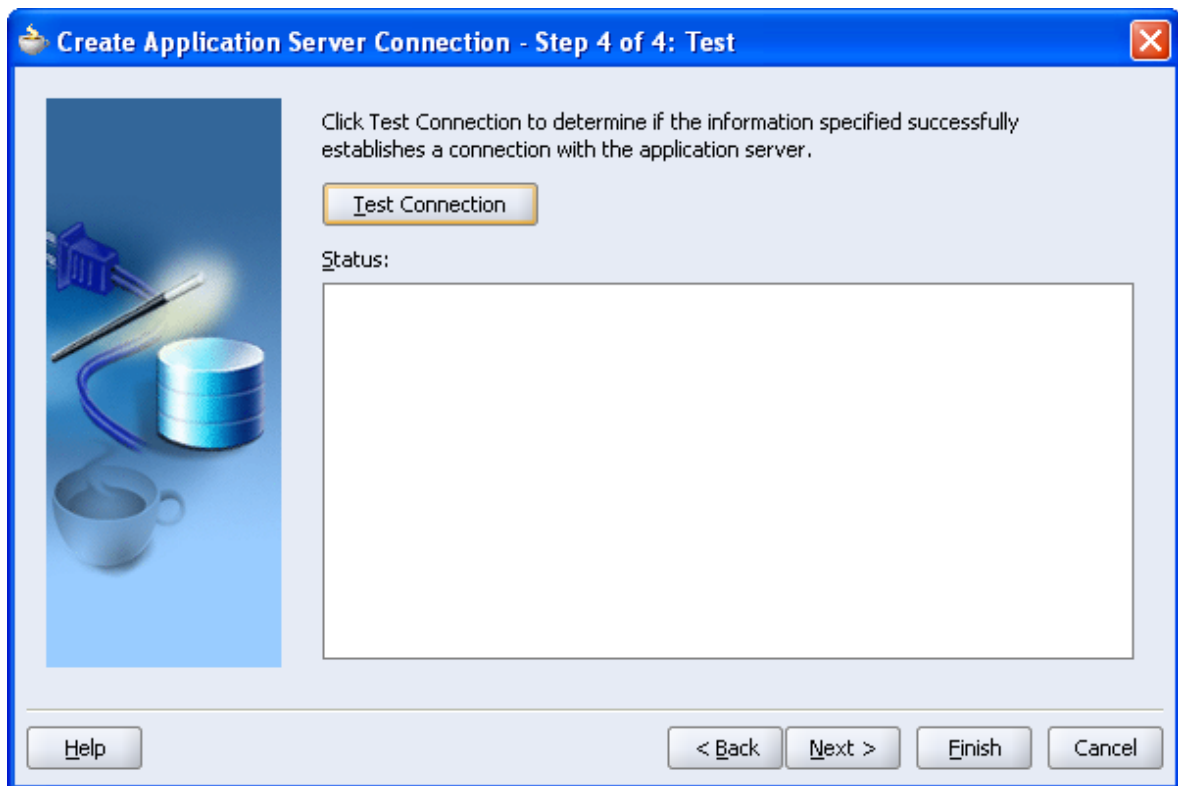
Connect To: ☒ Single Instance ☐ Group

Host Name: OPMN Port:

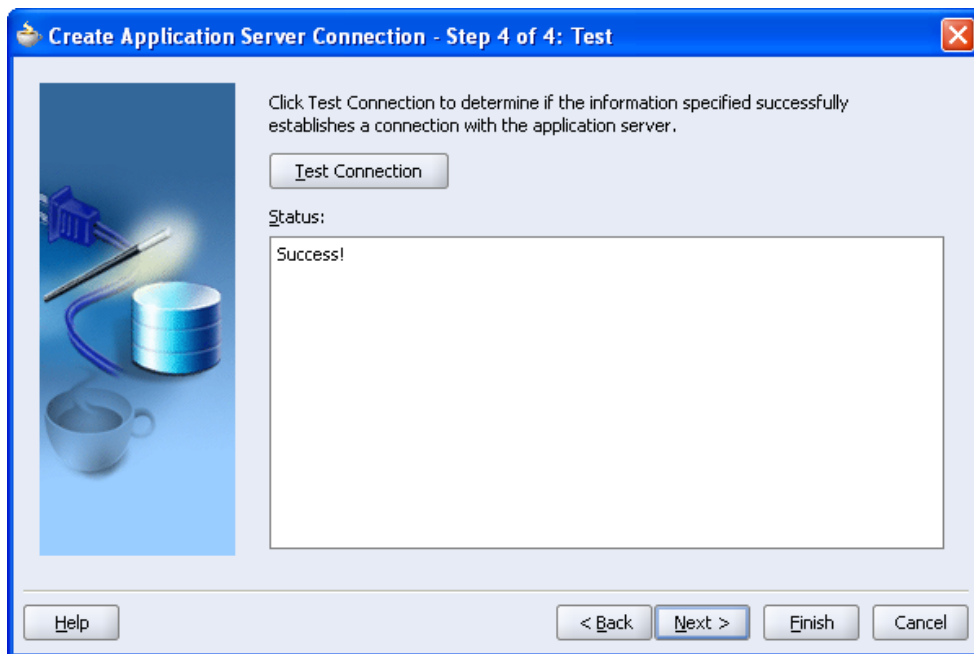
OC4J Instance Name:

Help < Back Next > Finish Cancel

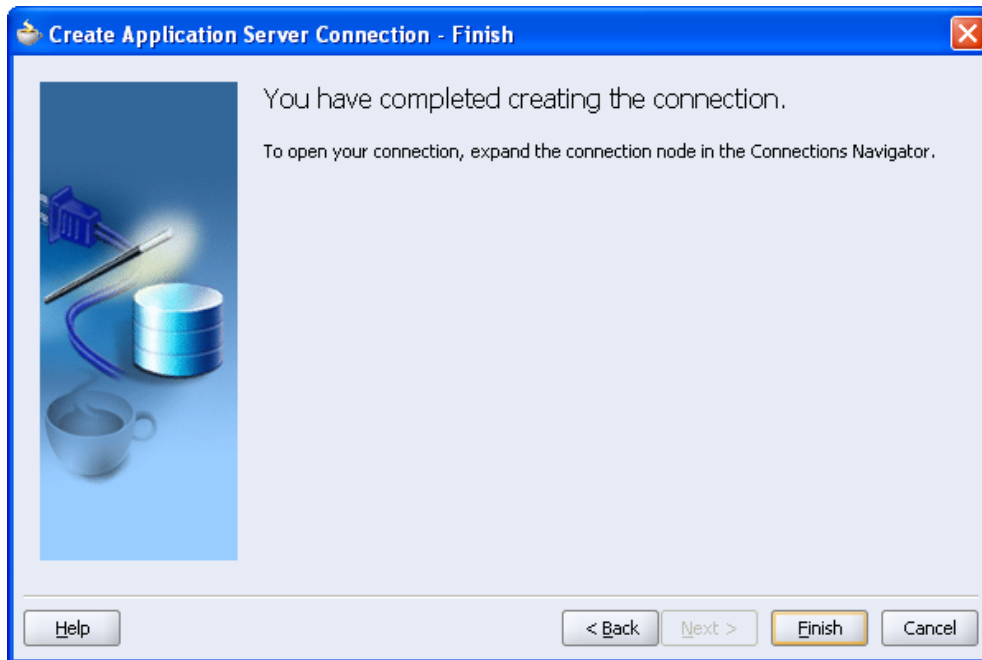
Now Click on Test Connection



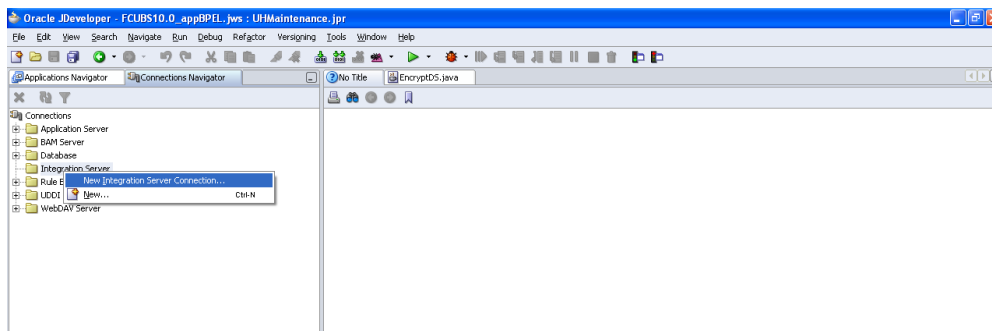
Now we get Success in the Status. Click on next.



Now Click on Finish.



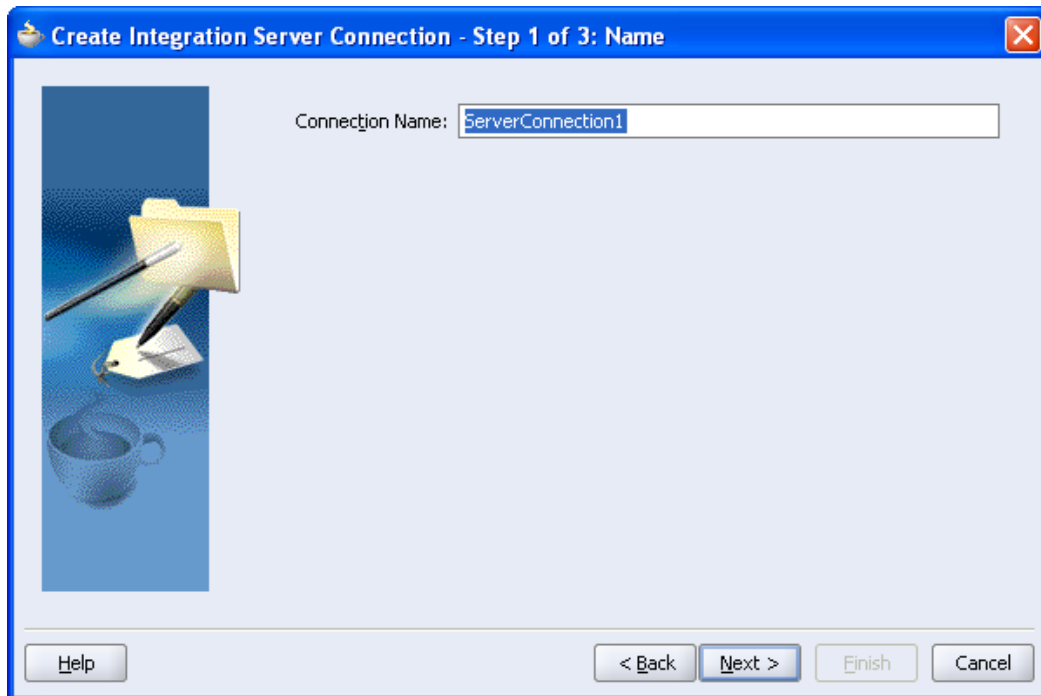
Now Select the Integration Server in the Connections Navigator, right click on the Integration Server and select “New Integration Server Connection”



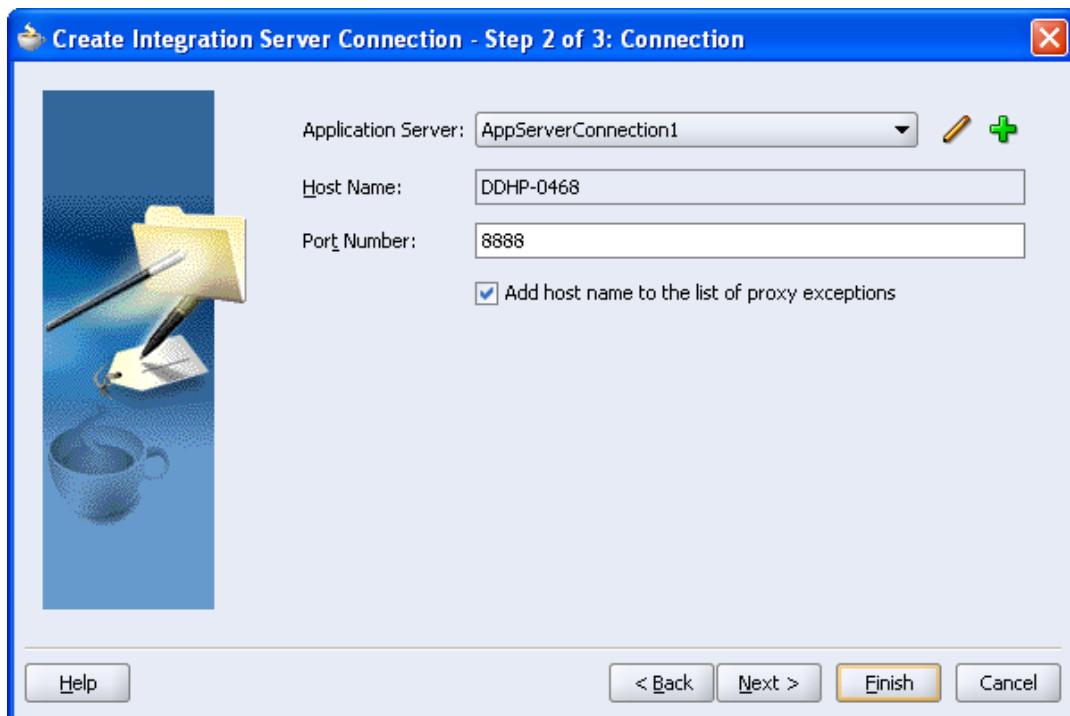
Click on Next



Enter the Connection Name which is been defaulted. Click on Next



Select the Application Server which we have created earlier and Port Number "8888" and Check the "Add host name to the list of proxy exceptions", then click on next

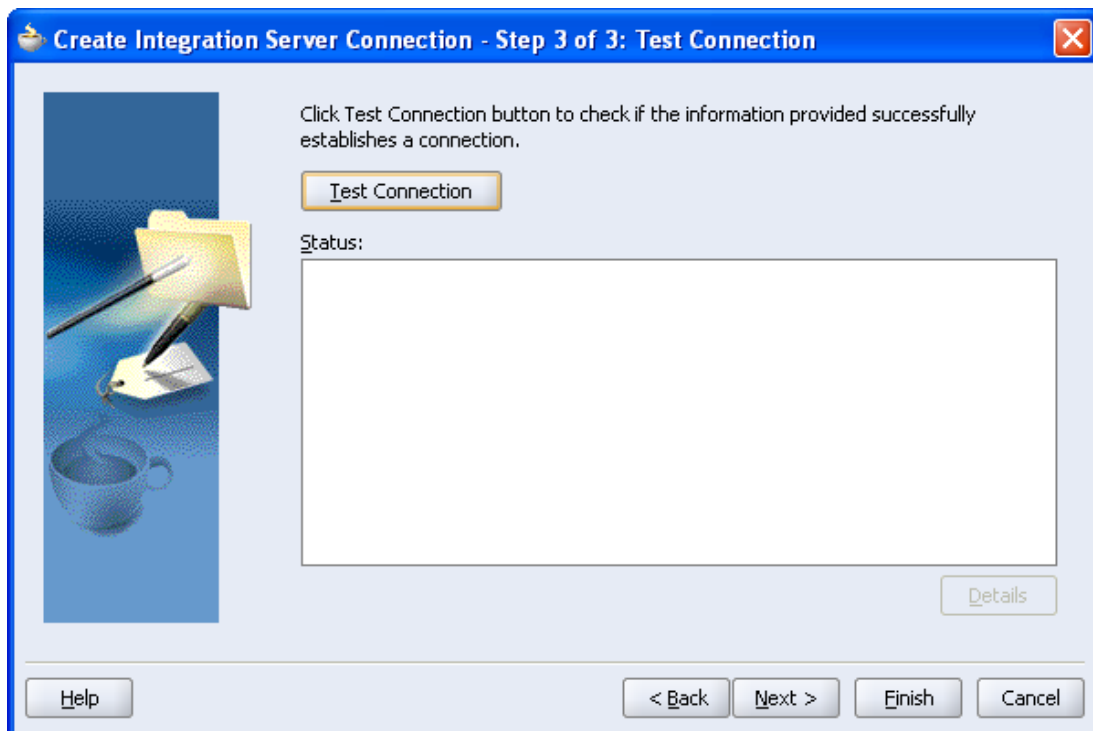


The screenshot shows a Windows-style dialog box titled "Create Integration Server Connection - Step 2 of 3: Connection". On the left is a vertical panel with a blue background and a graphic of a folder, a pen, and a cup. The main area contains the following fields and controls:

- Application Server:** A dropdown menu showing "AppServerConnection1" with a pencil icon and a green plus icon to its right.
- Host Name:** A text input field containing "DDHP-0468".
- Port Number:** A text input field containing "8888".
- ☒ **Add host name to the list of proxy exceptions**

At the bottom, there are four buttons: "Help", "< Back", "Next >", and "Finish" (highlighted in yellow). A "Cancel" button is also present on the far right.

Now Click on Test Connection

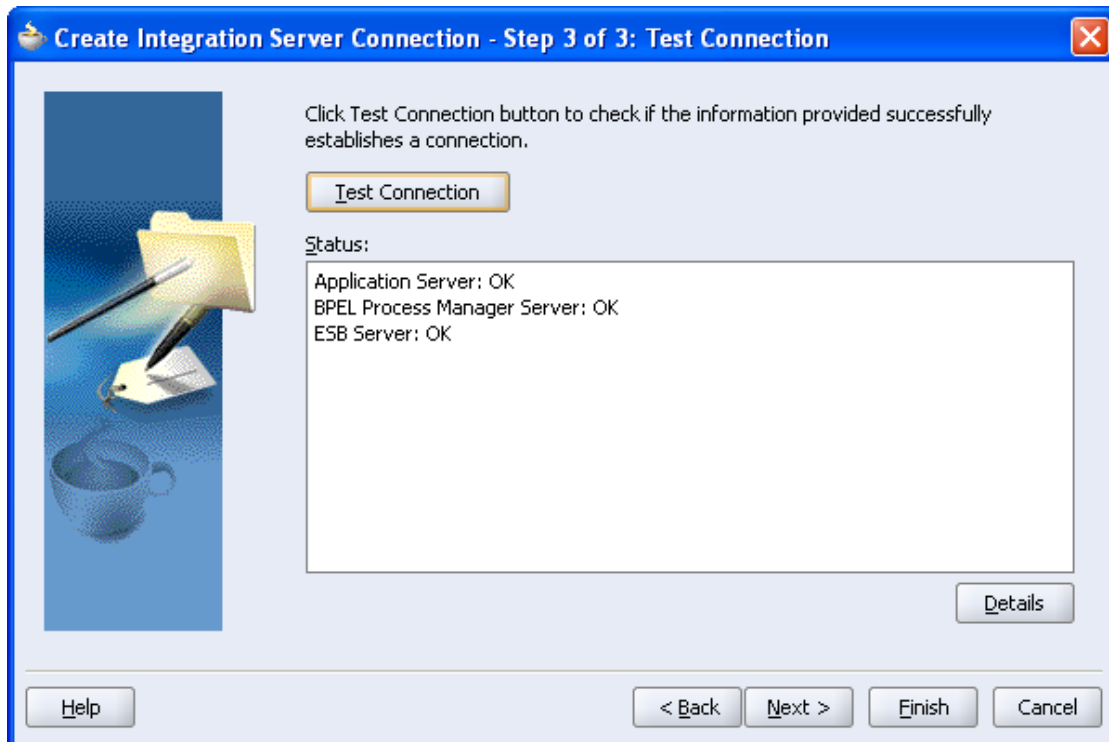


The screenshot shows a Windows-style dialog box titled "Create Integration Server Connection - Step 3 of 3: Test Connection". It features the same left-hand graphic panel as the previous window. The main area contains:

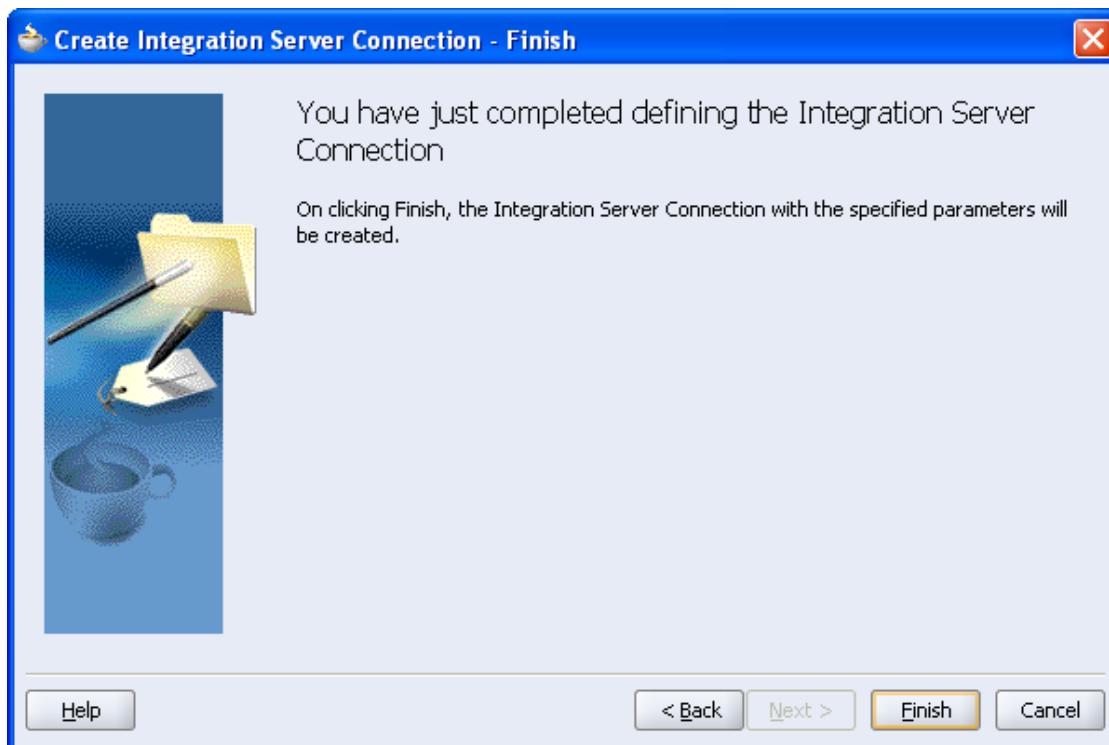
- Instructional text: "Click Test Connection button to check if the information provided successfully establishes a connection."
- Test Connection** button (highlighted in yellow)
- Status:** A large, empty rectangular text area for displaying results.
- Details** button (disabled)

At the bottom, there are four buttons: "Help", "< Back", "Next >", and "Finish" (highlighted in yellow). A "Cancel" button is also present on the far right.

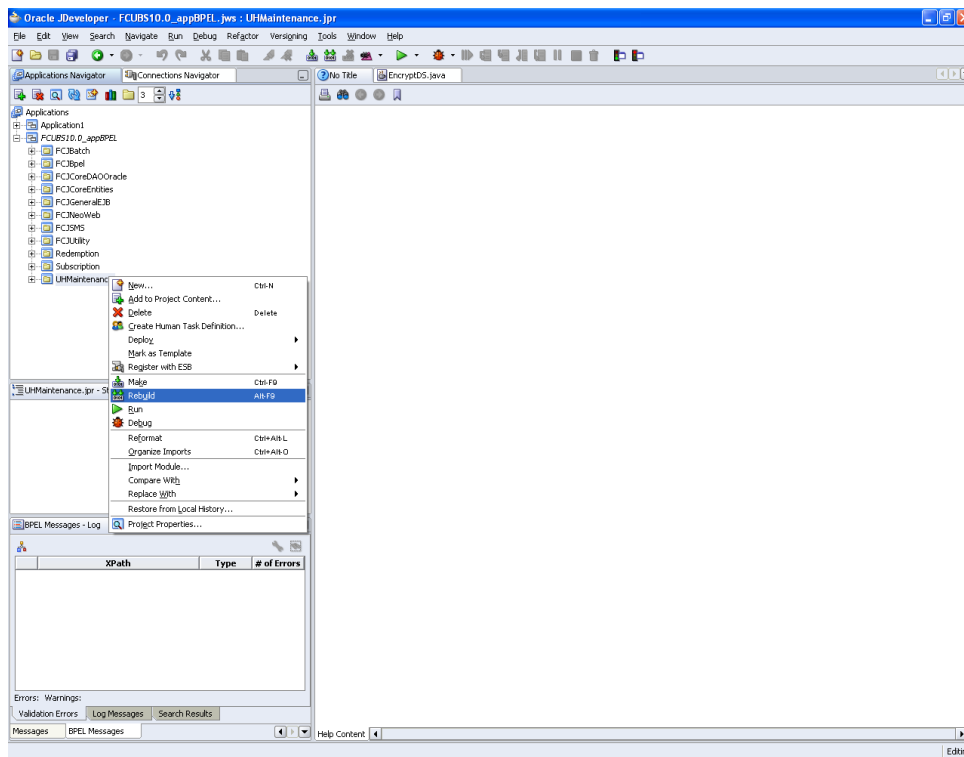
Now we get the below details in the Status. Now click on next



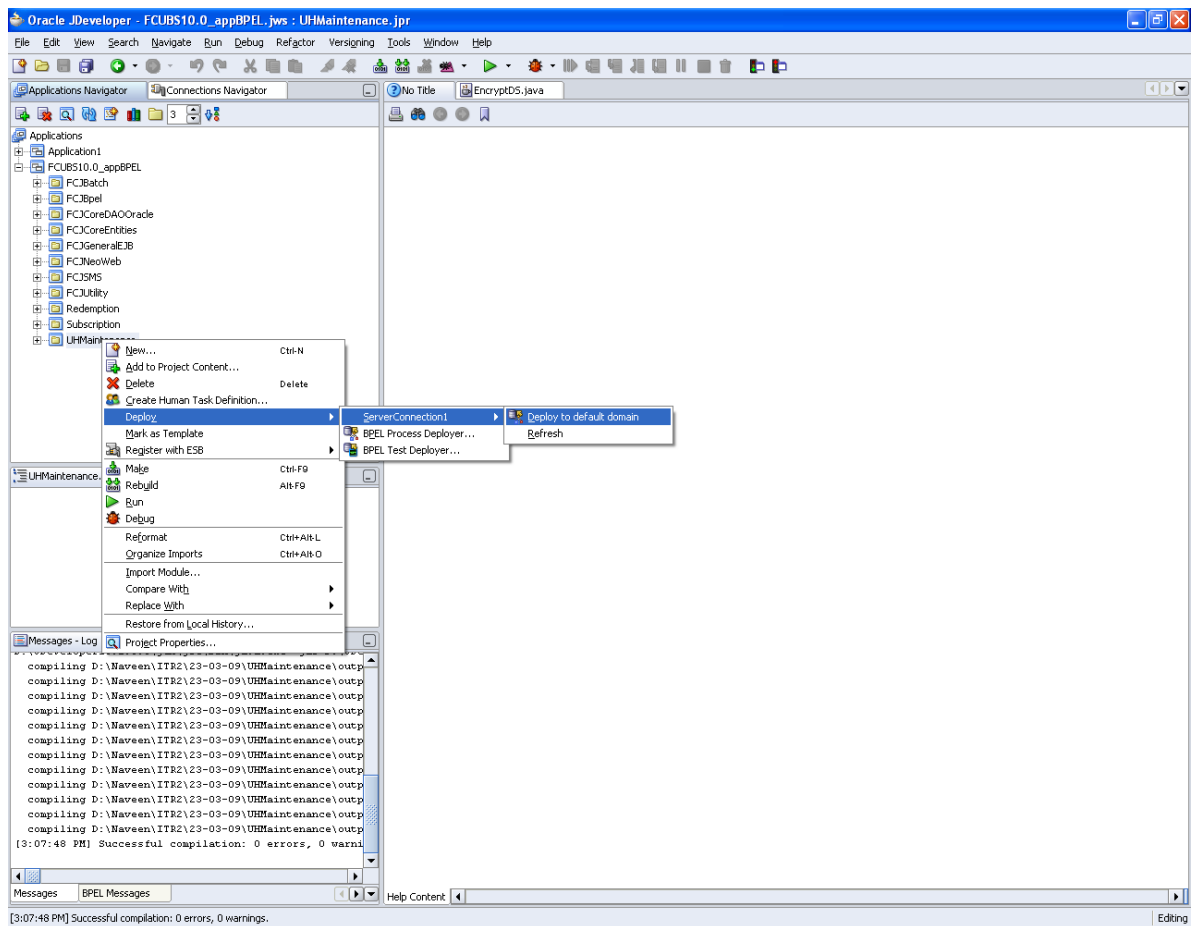
Now Click on Finish.



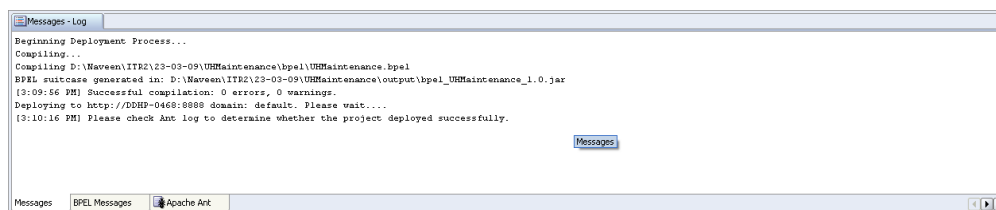
Now in the Application Navigator select UHMaintenance Process and right click on it and select rebuild



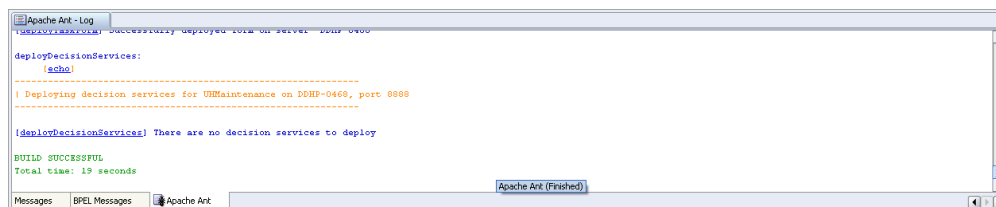
Again once it is been rebuild, right click on the UHMaintenance Process. Select Deploy→ServerConnection1→Deploy to default domain



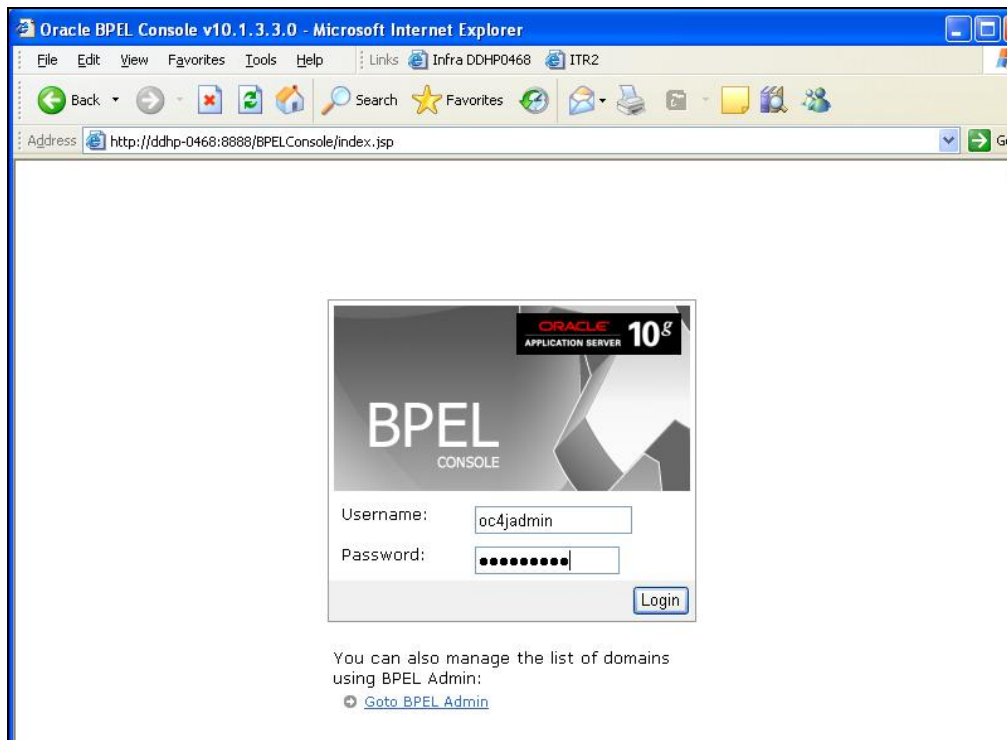
In the Messages we find the below once it is been successfully deployed



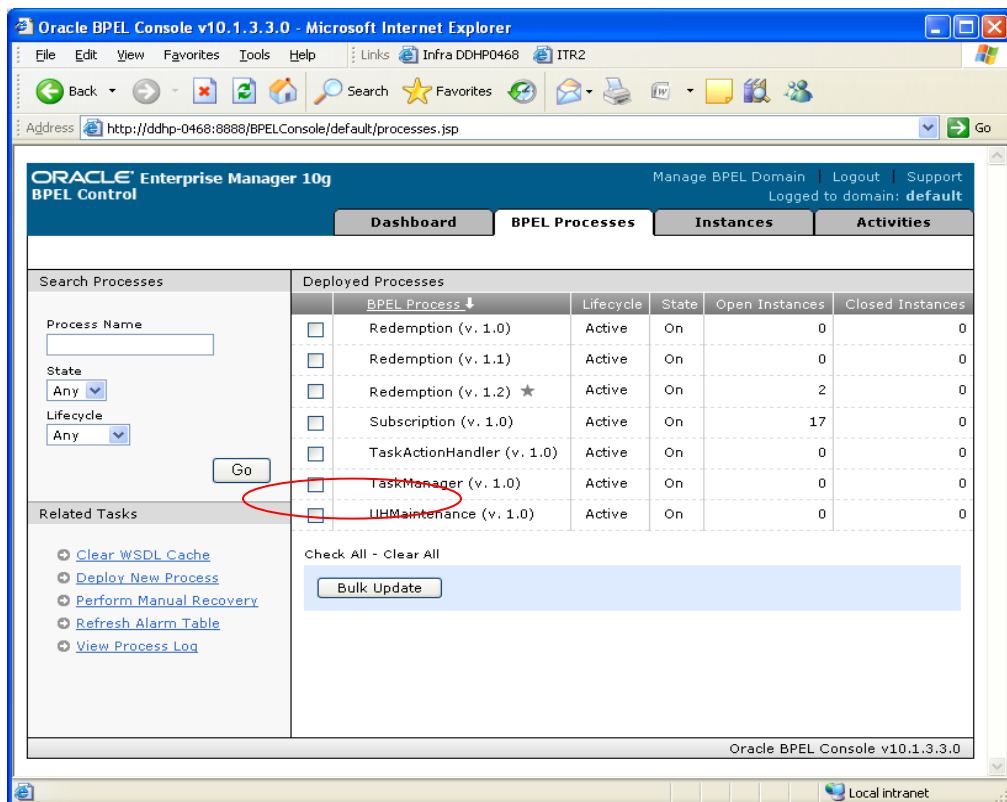
Apache Ant log



We can verify the Process have been deployed through, when we login to the BPEL Console



Now we can find our Process been deployed



This Completes the BPEL Process Deployment through Oracle JDeveloper.

2.3 BPEL Server Configuration

The following changes are needed in the BPEL server:

- Copy the FCUBS.properties file to <USER HOME> and rename it to FCJSMS.properties.
- In oracle AS/ SOA Suite installation path look for the folder “bpel\system\services\config”. In this folder the content of “is-config.xml” should be changed.

➤ Original content:

```
<?xml version = '1.0' encoding = 'UTF-8'?>
<ISConfiguration xmlns="http://www.oracle.com/pcbpel/identityservice/isconfig">
  <configurations>
    <configuration realmName="jazn.com">
      <provider providerType="JAZN" name="XML" service="Identity">
        <property name="usersPropertiesFile" value="users-properties.xml"/>
      </provider>
    </configuration>
  </configurations>
</ISConfiguration>
```

➤ New Content:

```
<?xml version = '1.0' encoding = 'UTF-8'?>
<ISConfiguration xmlns="http://www.oracle.com/pcbpel/identityservice/isconfig">
  <configurations>
    <configuration realmName="FLEXCUBE">
      <provider providerType="CUSTOM" name="FCDBProvider"
service="Identity" class="com.iflex.fcc.bpel.cis.CustomIdentityService">
        <connection url="" binddn="" password="Kp2Ldbj2RY8" encrypted="true"/>
      </provider>
    </configuration>
  </configurations>
</ISConfiguration>
```

- In the same path the content of the file “wf_client_config.xml” should be changed. In this case only the “ejb” node needs to be changed. Here CVRHP1176 refers to the app server name.

➤ Original content:

```
<ejb>
  <serverURL>ormi://cvrhp1176.i-flex.com/hw_services</serverURL> <!-- for
stand alone -->
  <!--serverURL>opmn:ormi://cvrhp1176.i-
flex.com:home/hw_services</serverURL--> <!-- for opmn managed instance -->
  <user>oc4jadmin</user>
  <password>welcome1</password>
  <initialContextFactory>oracle.j2ee.rmi.RMIInitialContextFactory</initialContextF
actory>
</ejb>
```

➤ Changed Content:

```
<ejb>
  <!--serverURL>ormi://cvrhp1176.i-flex.com/hw_services</serverURL--> <!-- for
stand alone -->
  <serverURL>opmn:ormi://cvrhp1176.i-
flex.com:6003/hw_services</serverURL> <!-- for opmn managed instance -->
  <user>oc4jadmin</user>
  <password>Soasuite1</password>
```

```
<initialContextFactory>oracle.j2ee.rmi.RMIInitialContextFactory</initialContextF
actory>
</ejb>
```

2.4 **Checklist for BEPEL Enablement in FCIS**

The following should be available in SMS Schema of FCIS:

- Task static data (LABELS) should be there in CSTB_ITEM_DESC and FBTB_ITEM_DESC.
- Static data for predefined roles (BPELUSER and BPELVERIFY) should be available in Role-Function mapping table (SMTB_ROLE_DETAIL) according to the requirement.
- Static data for User-Role should be available in SMTB_USER_ROLE.
- SMTB_MENU should have the new columns PROCESS_CODE and MASTER_FUNC_ID.
- Static Maintenance for process codes should be available in SMTM_PROCESS_CODES.



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