

FCIS Process Flow Deployment Prerequisites for Oracle
FLEXCUBE Installer
Oracle FLEXCUBE Investor Servicing
Release 14.5.4.0.0
[May] [2022]



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1. Introduction

1.1 Background

This document provides detailed description on deploying FCIS BPEL process flows onto a weblogic server configured with SOA suite components.

This document will cover different approaches for deploying a process.

The audience for this document will be the deployment teams of FCIS BPEL process flows.

1.2 Organization of the Document

The first chapter of this document gives an introduction with brief background and organization of the document.

Subsequent chapters of this document will give the details of the various deployment options.

1.3 Acronyms and Abbreviations

BPEL	BPEL Process Flow
BAM	Business Activity Monitoring
SOA Application	With Fusion middleware 12c BPEL process flows becomes part of a SOA Composite application.

2. Oracle JDeveloper IDE

2.1 Introduction

Oracle JDeveloper is the IDE used for BPEL process design and development. It's recommended that the version of JDeveloper used should be in sync with the Oracle SOA suite that is used for BPEL runtime. For instance, Oracle SOA suite – 12.1.3 + Oracle JDeveloper 12.1.3. Though different versions of Oracle SOA suite and JDeveloper might be compatible it is recommended to go through the releases notes and documentation prior to their usage.

2.2 Obtaining JDeveloper IDE

Oracle JDeveloper IDE can be downloaded from oracle website, the hyperlink provided might have been updated. Please check appropriate location prior to download and refer installation and release notes documentation of Oracle JDeveloper for Installation instructions.

<http://www.oracle.com/technetwork/middleware/bpm/downloads/index.html>

3. Creating Application Server Connection

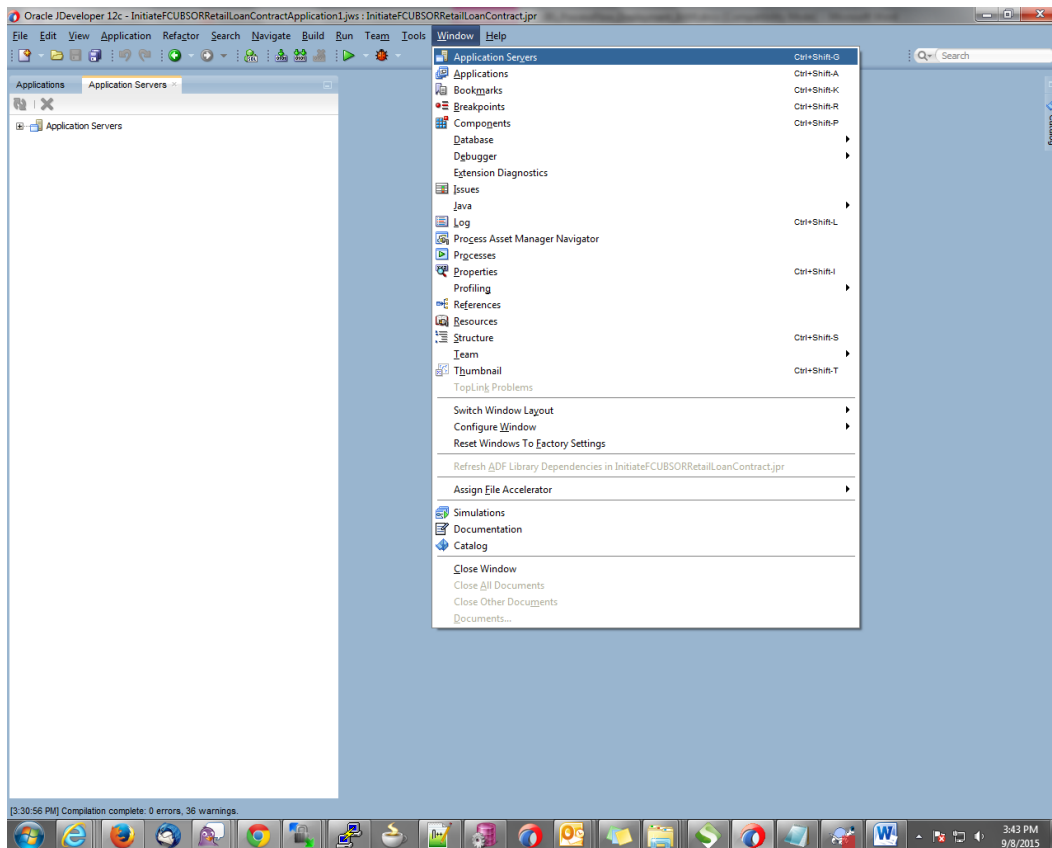
3.1 Introduction

Oracle JDeveloper supports deployment of BPEL process flows to WebLogic application servers via JDeveloper application server connection.

3.2 Application Server Connection

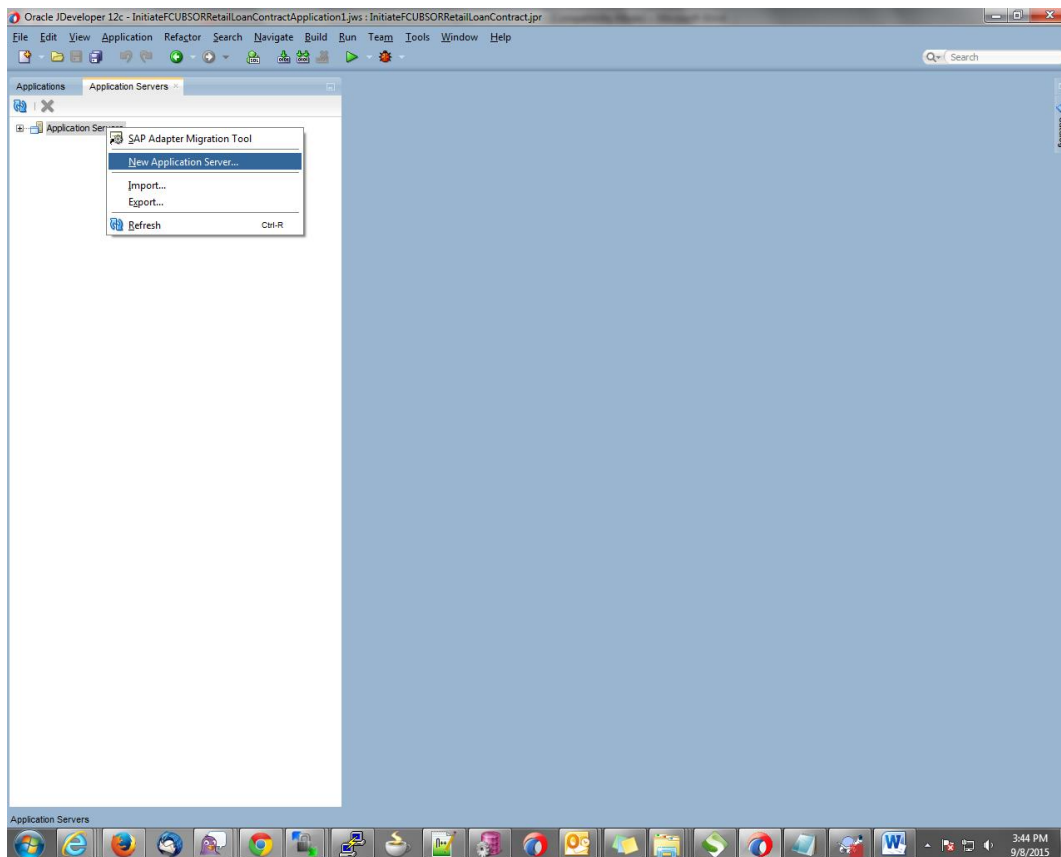
After JDeveloper has been updated with SOA extension, The IDE can be launched from 'Programs' menu or installation location.

- After JDeveloper is launched
- Click on → Windows → Application Servers Navigator



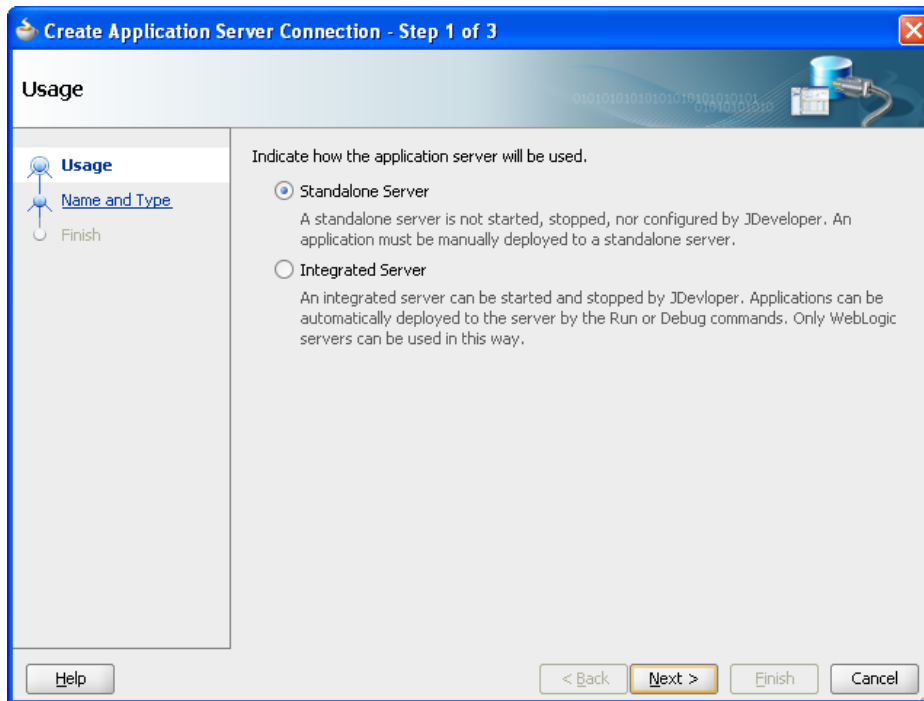
- To create a new WebLogic server connection
- Right click 'Application Servers'

- Click on → New Application Server

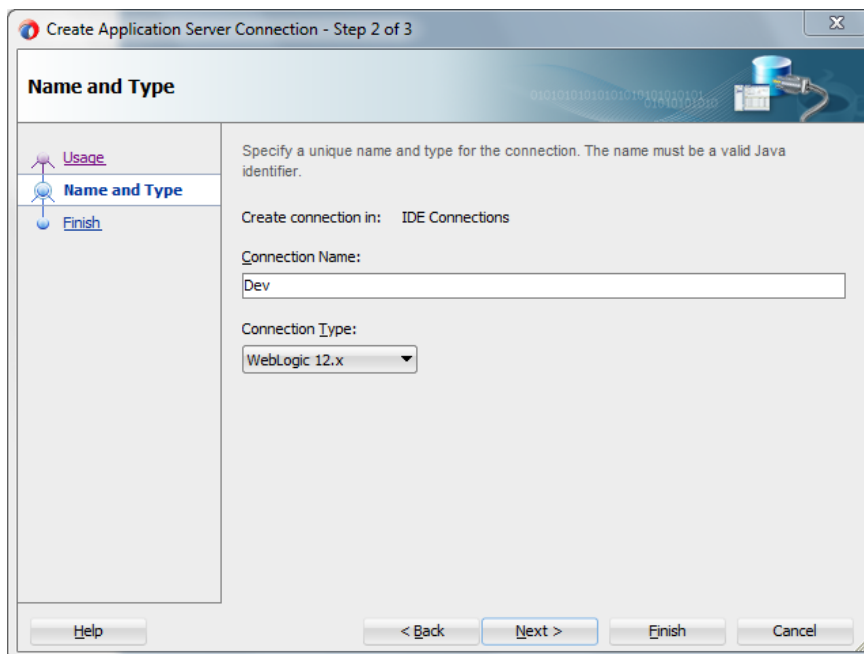


- The “Create Application Server Connection” wizard is launched as shown below.
- Select the Radio button “Standalone Server”

- Click “Next” to proceed with the configuration



- Provide “Connection Name” to identify the server connection.
- Provide “Connection Type” to identify the server type.
- Select “WebLogic server <version>”
- Click “Next” to proceed with the configuration



- Provide username / password to connect to the server
- The same username / password that was used while configuring the server is used.
- Click “Next” to proceed with the configuration

Create Application Server Connection - Step 3 of 6

Authentication

Specify a username and password to authenticate the connection.

Username: weblogic

Password:

< Back Next > Finish Cancel

- Provide the WebLogic server hostname and the port number of the Admin server.
- Provide the domain name under which the server has been configured.
- Click “Next” to proceed with the configuration

The screenshot shows a Windows-style dialog box titled "Create Application Server Connection - Step 4 of 6". The main area is titled "Configuration". On the left, a vertical navigation pane shows steps: Usage, Name and Type, Authentication, Configuration (highlighted with a blue circle), Test, and Finish. The main content area contains the following text and fields:

WebLogic Server connections use a host name and port to establish a connection. The Domain of the target will be verified ☐

WebLogic Hostname (Administration Server):

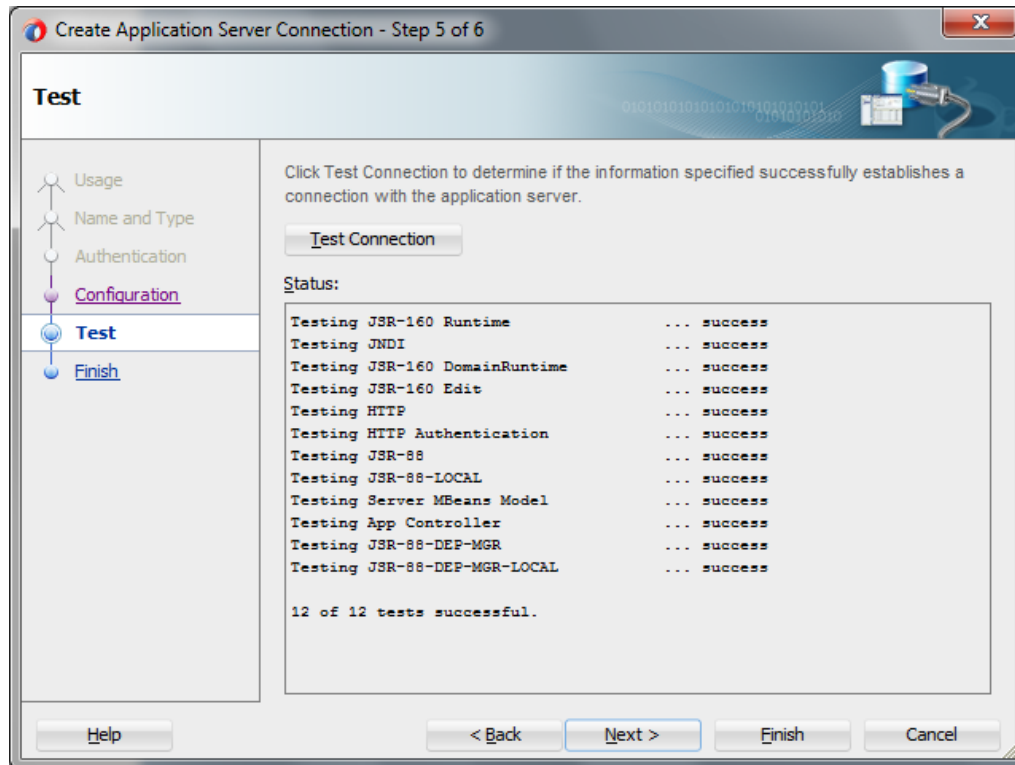
Port: SSL Port:

☐ Always use SSL

WebLogic Domain:

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

- Click on the 'Test Connection' to ensure the configuration is done correctly.
- All the tests should go thru and indicate "success" as shown below that will indicate a correct configuration
- Click "Finish" to proceed and complete the configuration



4. Loading FCIS Process flows in Oracle JDeveloper

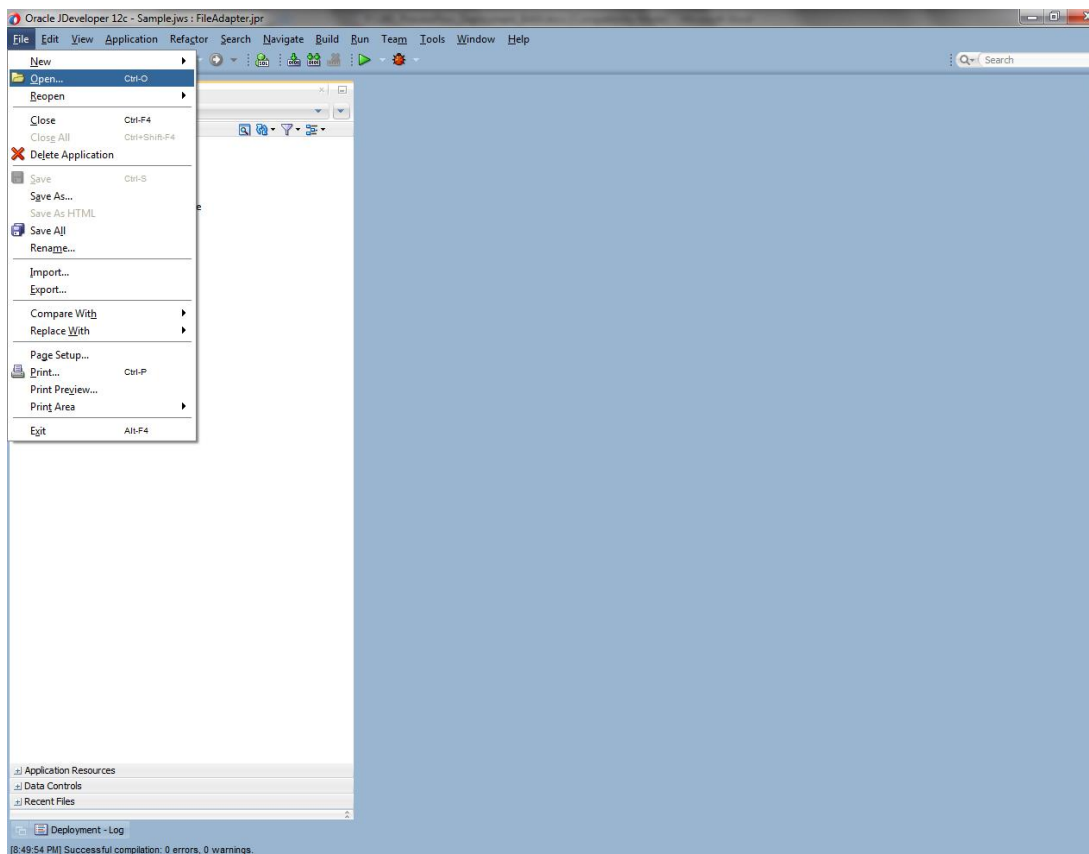
4.1 Introduction

The FCIS BPEL process flows that are to be deployed needs to be obtained from the release area and unzipped into a folder location.

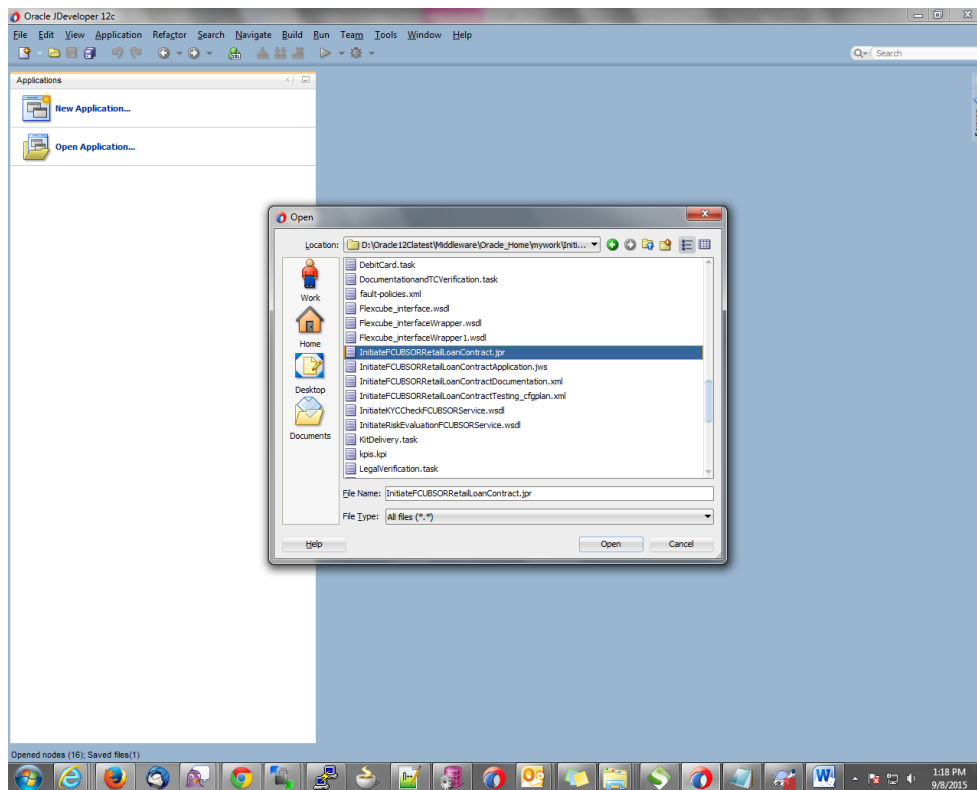
4.2 Loading the Process

After JDeveloper IDE is launched from 'Programs' menu or installation location

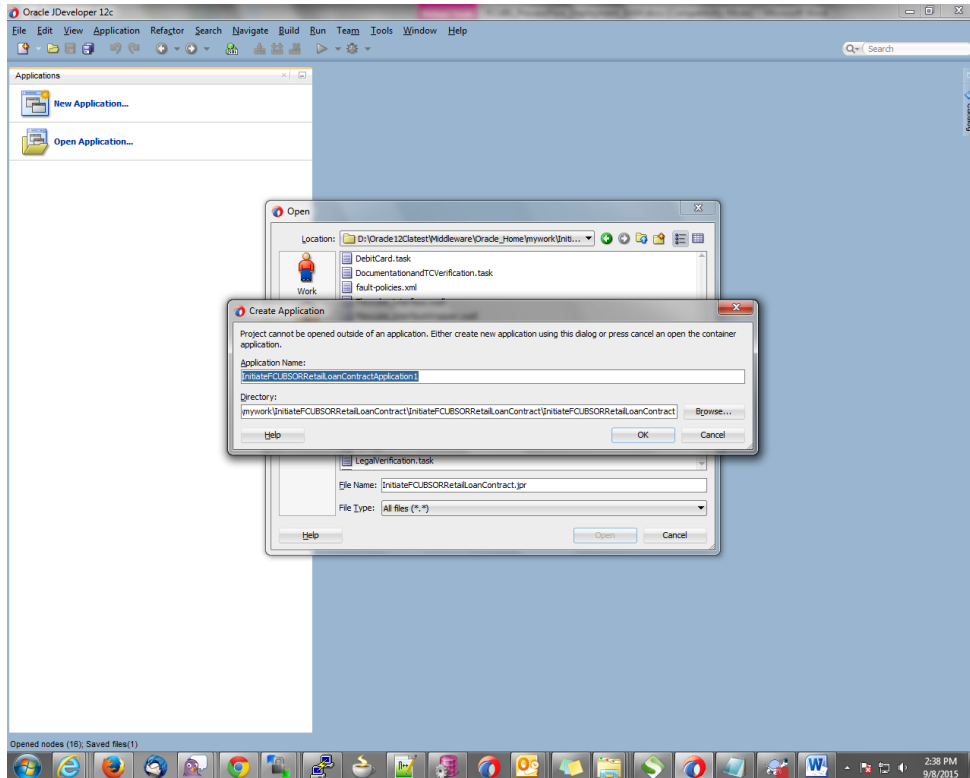
- Click on → File → Open



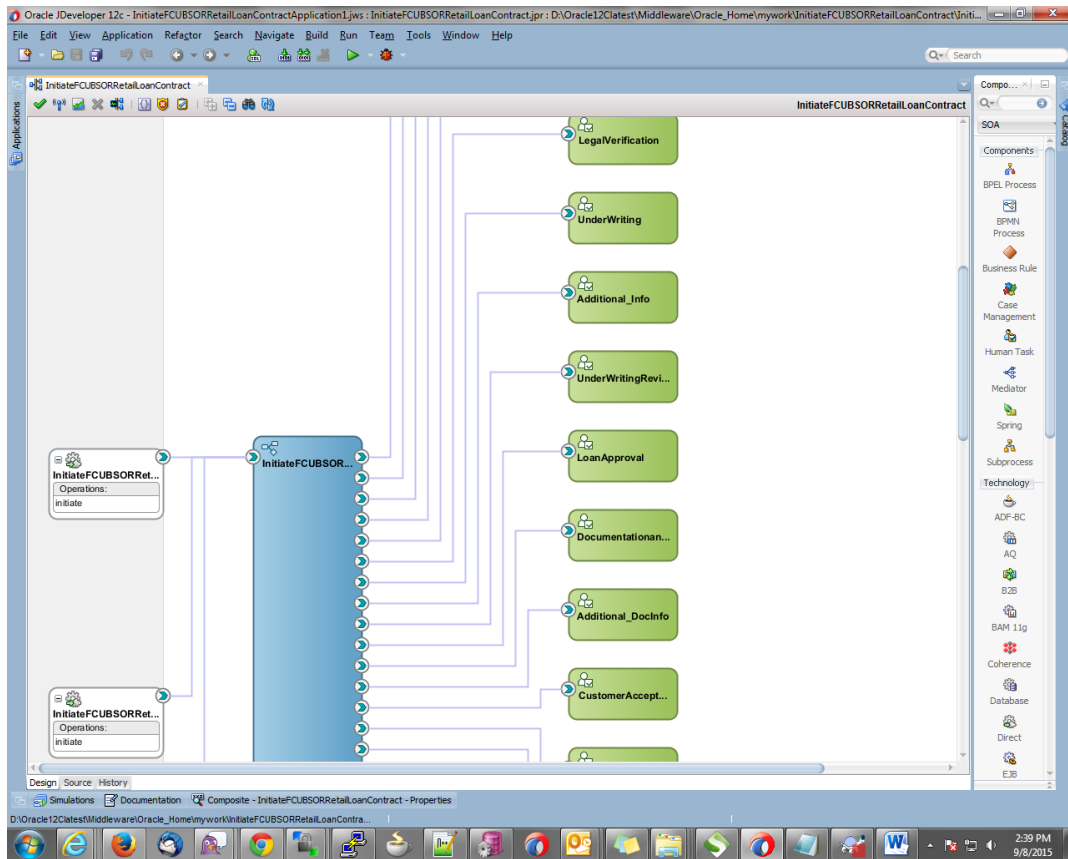
- Navigate to the folder where process flow is deployed
- Locate and select the “.jpr” file under the folder <process_name>
- Click ‘Open’ to load the process flow in JDeveloper



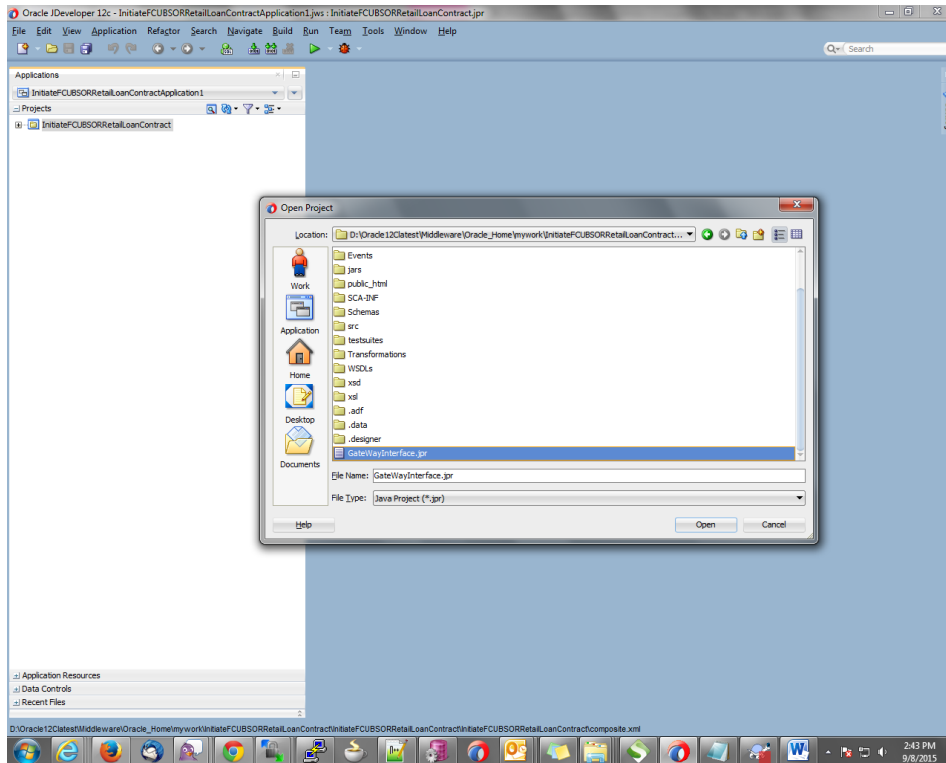
- If this is the first Process flow that is being loaded JDeveloper will prompt for an Application Name and Location where the application file will be stored
- Provide an application name and folder path for the same.
- Click in “Ok” to proceed with loading of the process flow.



- The process flow is loaded into JDeveloper and is displayed as given below
- Clicking on the “composite.xml” under “SOA Content” in Design mode will display the process flow as illustrated in the screen shot.



- All the required process flow can be loaded in the similar fashion from File Menu into the same application.



- After all the necessary process flows are loaded, all process flows will be displayed in the “Application Navigator” menu as illustrated in the screen shot.

In case of Dependent Process Flows like InitiateFCUBSORRetailLoanContract, having other Process Flows as services and subprocesses the composite.xml file has to be modified with the runtime wsdl location of the subprocess (like BIPUtility). The Runtime wsdl is obtained from the em console as shown in the screen shot.

- In the em console, click the process for which runtime wsd is required and click on Test.

The screenshot displays the Oracle Enterprise Manager Fusion Middleware Control interface. The left pane shows a tree of application deployments under 'soa-infra (soa_server1)'. The right pane shows the 'BIPUtility [1.0]' process details, including a 'Test' button and a table of services and references.

Target Navigation

- Application Deployments
 - SOA
 - soa-infra (soa_server1)
 - default
 - AmendFCUBSORRetailLoanContract [1.0]
 - AmendFCUBSORRetailLoanContract [1.0]
 - AmendRetailLoanContractFCUBSORService [1.0]
 - AmendRetailLoanContractFCUBSORService [1.0]
 - AmendRetailLoanContractFCUBSORService [2.0]
 - AmendRetailLoanContractFCUBSORService [3.0]
 - AMLChecks [1.0]
 - BIPInvoke [1.0]
 - BIPUtility [1.0]**
 - BPELCOLLATProcess [1.0]
 - BPELCOLLATProcess [2.0]
 - BPELCPRClosureProcess [1.0]
 - BPELCPRCProcess [1.0]
 - BPELCPRCProcess [10.0]
 - bpelcompProcess [1.0]
 - BPELLimitReview [1.0]
 - CIBLProcess [1.0]
 - CloseFCUBSORRetailLoanContract [1.0]
 - CloseRetailLoanContractFCUBSORService [1.0]
 - COLLATProcess [5.0]
 - CorporateLending [3.0]
 - CovenantPoller [1.0]
 - CRDCProcess [1.0]
 - CreateCorporateCustomer [2.0]
 - CreditBureauBPEL [1.0]
 - CreditBureauHandler [1.0]
 - CRMUtility [1.0]
 - CRPClosureProcess [1.0]
 - CRPClosureProcess [10.0]
 - CRPProcess [1.0]
 - CRPProcess [2.0]
 - DBPoller [1.0]
 - DBUtility [1.0]
 - DBUtility [2.0]
 - DeburseFCUBSORRetailLoanContract [1.0]

BIPUtility [1.0]

SOA Composite

Active | Retire... | Shut Down... | **Test** | Settings... | Related Links

Dashboard | Composite Definition | Flow Instant | **Test Service** | JMS | Policies

Components

Name	Component Type
BIPUtility	BPEL

Services and References

Name	Type	Usage	Total Messages	Average Processing Time (sec)
client	Web Service	Service	1	0.000
GetReportDetails	JCA Adapter	Reference	1	0.472
InsertReportDetails	JCA Adapter	Reference	0	0.000
FCDSmsService	Web Service	Reference	0	0.000

ofss22212227401/em/faces/ai/soa/composite/targets/Domain_dev_domain/dev_domain/soa_server1/default/BIPUtility=[1.0]&type=oracle_soa_composite#

2:47 PM
9/8/2015

- We can obtain the runtime wsdl for the process as shown below in the screen shot.

The screenshot displays the Oracle Enterprise Manager Fusion Middleware Control 12c interface. On the left, the 'Target Navigation' pane shows a tree view of SOA components, with 'BIPUtility [1.0]' selected. The main pane shows the 'Test Web Service' configuration for 'BIPUtility [1.0]'. The 'Endpoint URL' is set to 'http://ofss221222.in.oracle.com:7403/soa-infra/services/default/BIPUtility/c'. The 'Security' section is set to 'None'. The 'Input Arguments' section shows a table with one row: 'payload'.

Name	Type	Value
payload	payload	

-
- Oracle Developer 12c - Application Refactor Search Navigate Build Run Source Team Tools Window Help
- File Edit View Application Refactor Search Navigate Build Run Source Team Tools Window Help
- Applications
- Find
- ```

<?xml version="1.0" encoding="UTF-8"?>
<wsdl:definitions name="InitiateFCUBSORRetailLoanContract" targetNamespace="http://schemas.oracle.com/soap/infrastructure/services/default/InitiateFCUBSORRetailLoanContract" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
 <wsdl:import namespace="http://schemas.oracle.com/soap/infrastructure/services/default/InitiateFCUBSORRetailLoanContract" location="InitiateFCUBSORRetailLoanContract.wsdl" />
 <wsdl:service name="InitiateFCUBSORService" base="http://schemas.oracle.com/soap/infrastructure/services/default/InitiateFCUBSORService" binding="initiatefcuborservice" />
 <wsdl:binding name="initiatefcuborservice" type="wsdl:soap" />
 <wsdl:message name="InitiateFCUBSORServiceInitiateFCUBSORService" />
 <wsdl:port name="InitiateFCUBSORService" type="wsdl:soap" />
 <wsdl:fault name="InitiateFCUBSORServiceFault" type="wsdl:soap" />
</wsdl:definitions>

```
- composites reference bindings.ws
- Design Source History
- 471:193/87
- Simulations Documentation binding.ws - Properties
- 2:53 PM 9/8/2015

## 5. Deployment Profile and Configuration Plan

### 5.1 Introduction

A deployment profile is automatically created for all FCIS Process flows. The application profile includes the JAR files of SOA projects.

The configuration plan enables us to define the URL and property values to use in different environments. During process deployment, the configuration plan is used to search the SOA project for values that must be replaced to adapt the project to the target environment.

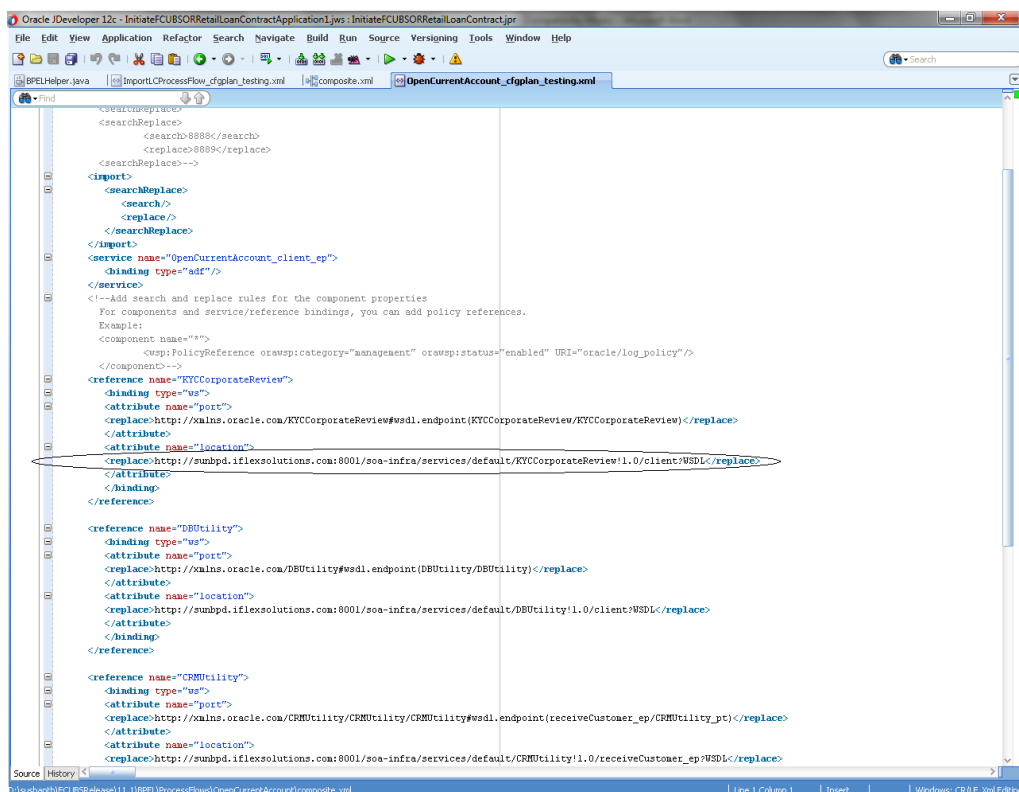
### 5.2 Updating Configuration Plan

All the FCIS process flows has been developed with three configuration plans with the following naming convention for development, testing & production environments. If there are no configuration plans in any process flow it simply means there are no replacement values that needs to be replaced in the project and that project can be deployed without any config plans.

<processflow\_name>\_cfgplan\_dev.xml

<processflow\_name>\_cfgplan\_testing.xml

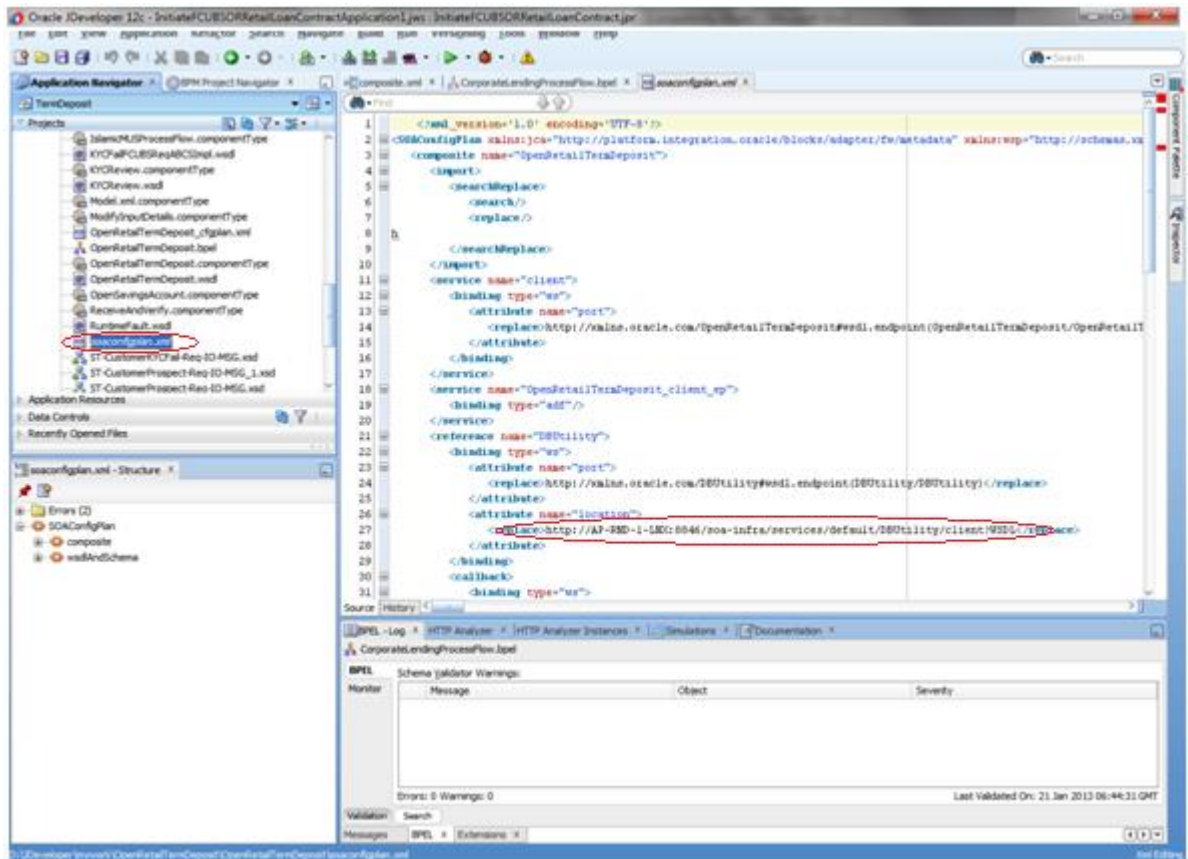
<processflow\_name>\_cfgplan\_production.xml



In the configuration plan we need to give the latest runtime wsdl location of the sub processes if present. The runtime wsdl location is obtained as mentioned earlier from the em console.

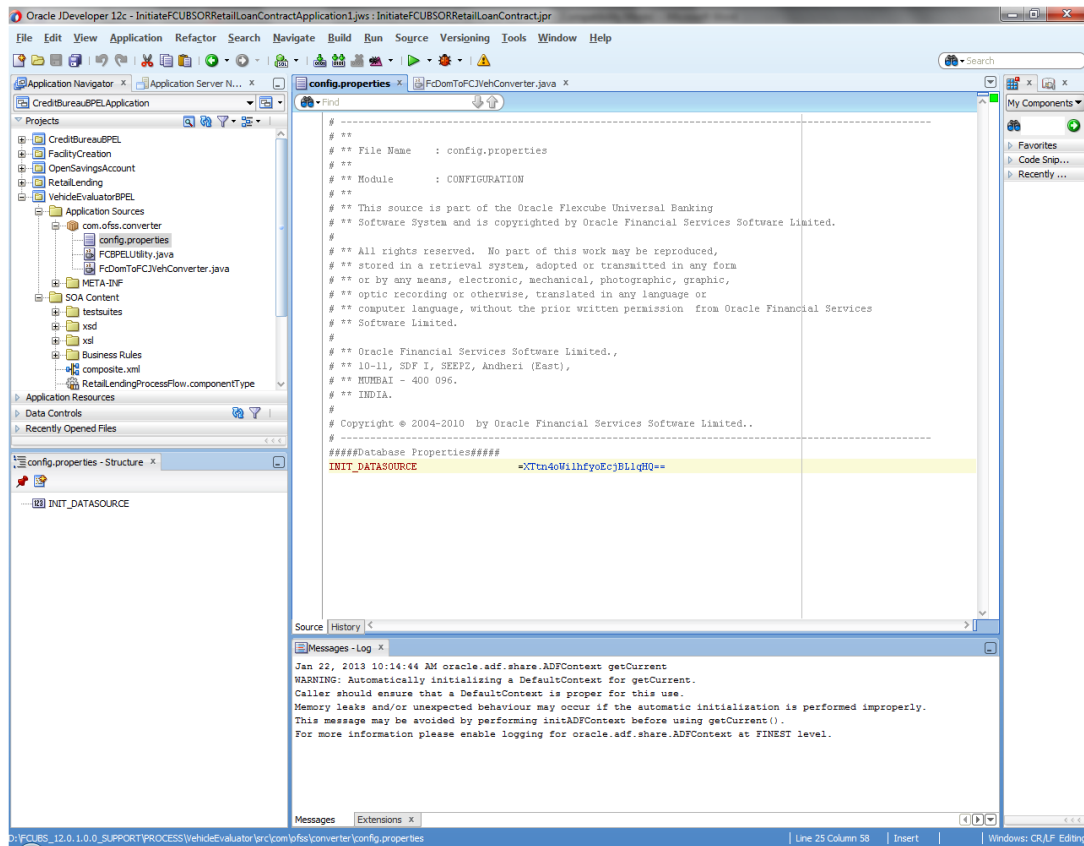


**The soaconfigplan.xml, if present in the project also have to be updated with the runtime wsdl location of the subprocesses since this will be referred by the process in runtime.**



## 5.3 Updating the Datasource Name

The config.properties file, if present in the project of any of the sub processes, has the encrypted datasource name. This should be same as the one given in the fcubs.properties file while building the EAR.



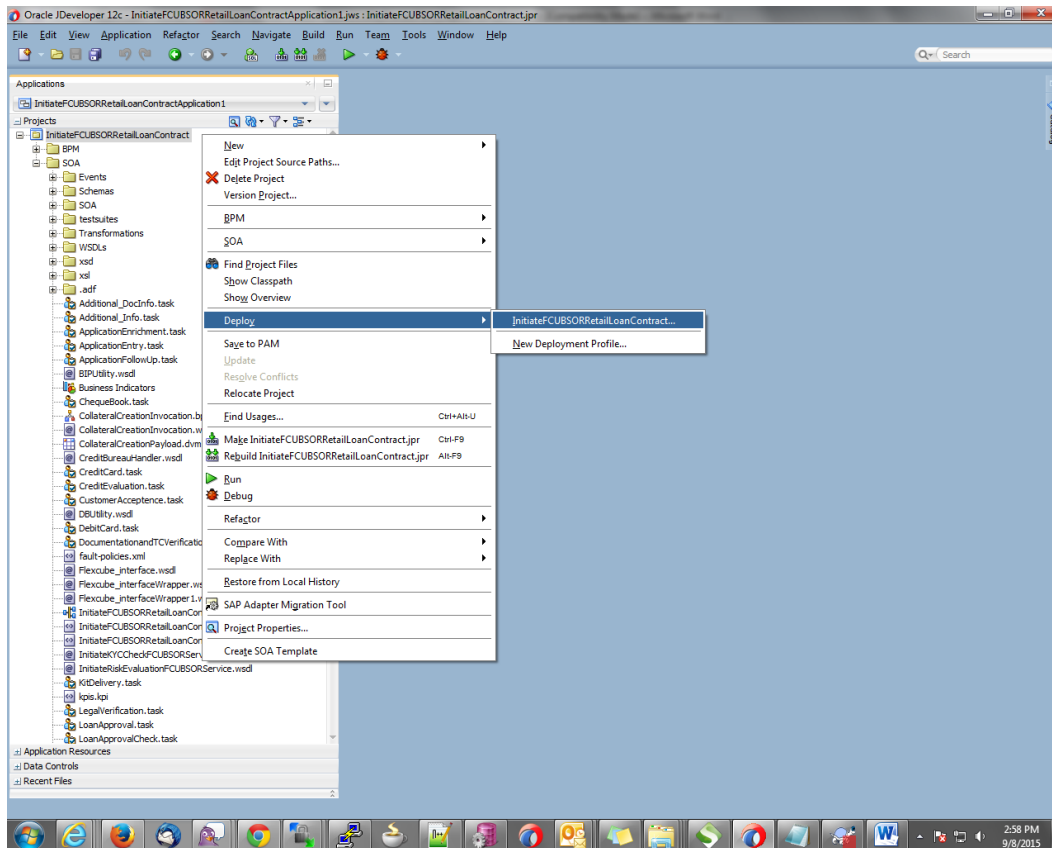
## 6. Deploying a Single Composite application using JDeveloper

### 6.1 Introduction

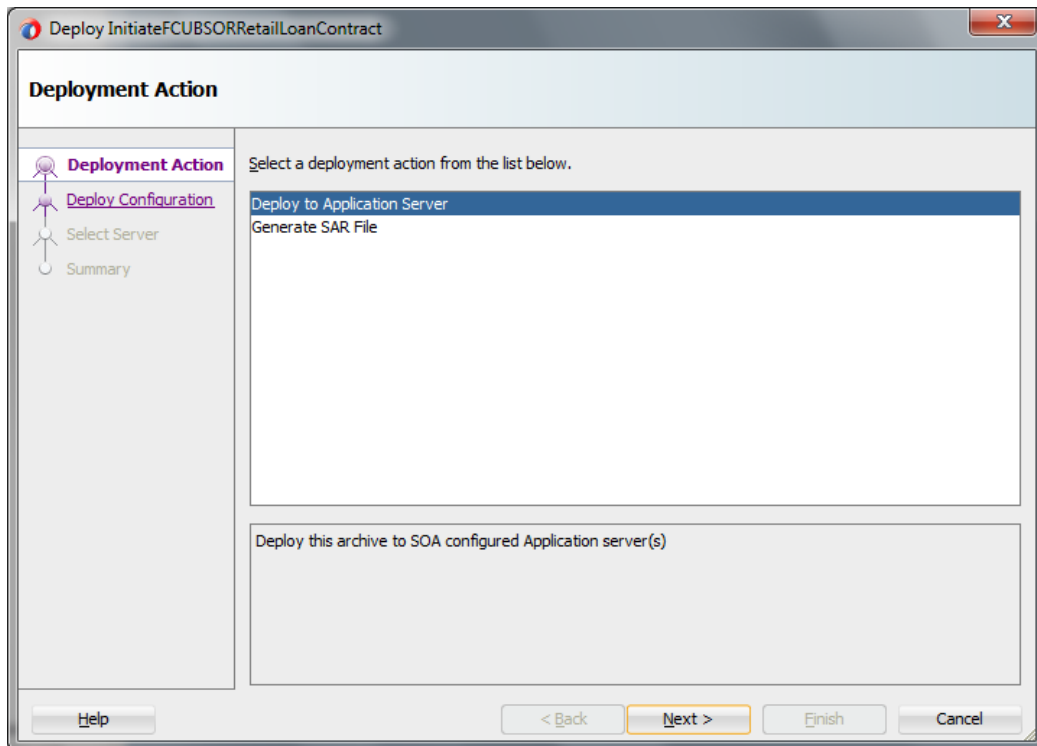
This section describes how to deploy a single SOA composite application with Oracle JDeveloper after completing updating of config plans with respective target environment replacement values.

### 6.2 Deploying the Application

- Right click on the Application that needs to be deployed.
- Select 'Deploy' and then click on the default deployment profile which is the same as the application name.
- This will result in the deployment wizard screen being launched.



- The wizard shows the “Deployment Action” screen .Select ‘Deploy to Application server’ and click ‘Next’



- Deployment configuration is done as illustrated in the below screen shot
- Select a Revision with which the deployment should happen
- Select a " Configuration Plan" that was updated as given in Section 5
- Provide a new revision ID. It should be always higher than the earlier revision of the process flow like 1.0, 2.0,3.0 etc
- Check the checkbox "Mark composite revision as "default"
- Uncheck the checkbox "Overwrite any existing composites with the same revision ID"

- Click “Next” to proceed with the deployment.

Deploy InitiateFCUBSORRetailLoanContract

### Deploy Configuration

Deployment Action  
Deploy Configuration  
Select Server  
Summary

InitiateFCUBSORRetailLoanContract

**Composite Revision ID**

Project: InitiateFCUBSORRetailLoanContract

Current Revision ID: 1.0

New Revision ID: 2.0

**SOA Configuration Plan**

☐ Do not attach

☒ InitiateFCUBSORRetailLoanContractTesting\_cfgplan.xml

☒ Mark composite revision as default.

☐ Overwrite any existing composites with the same revision ID.

☐ Keep running instances after redeployment.

☐ Use the following SOA configuration plan for all composites:

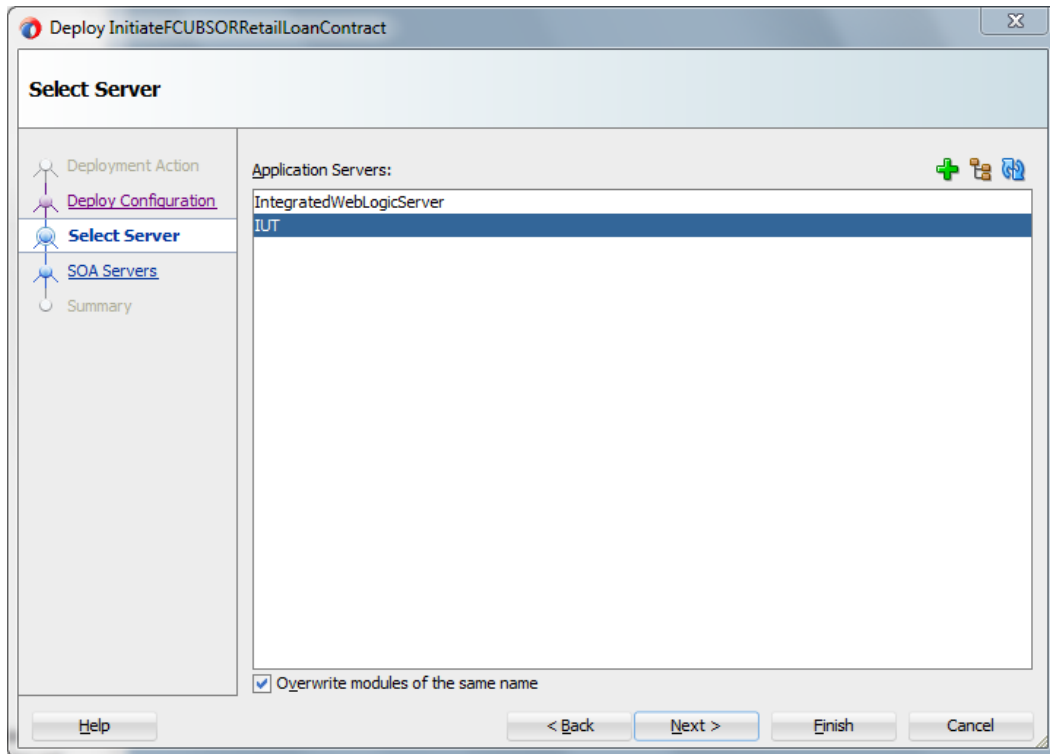
Browse

Help < Back Next > Finish Cancel

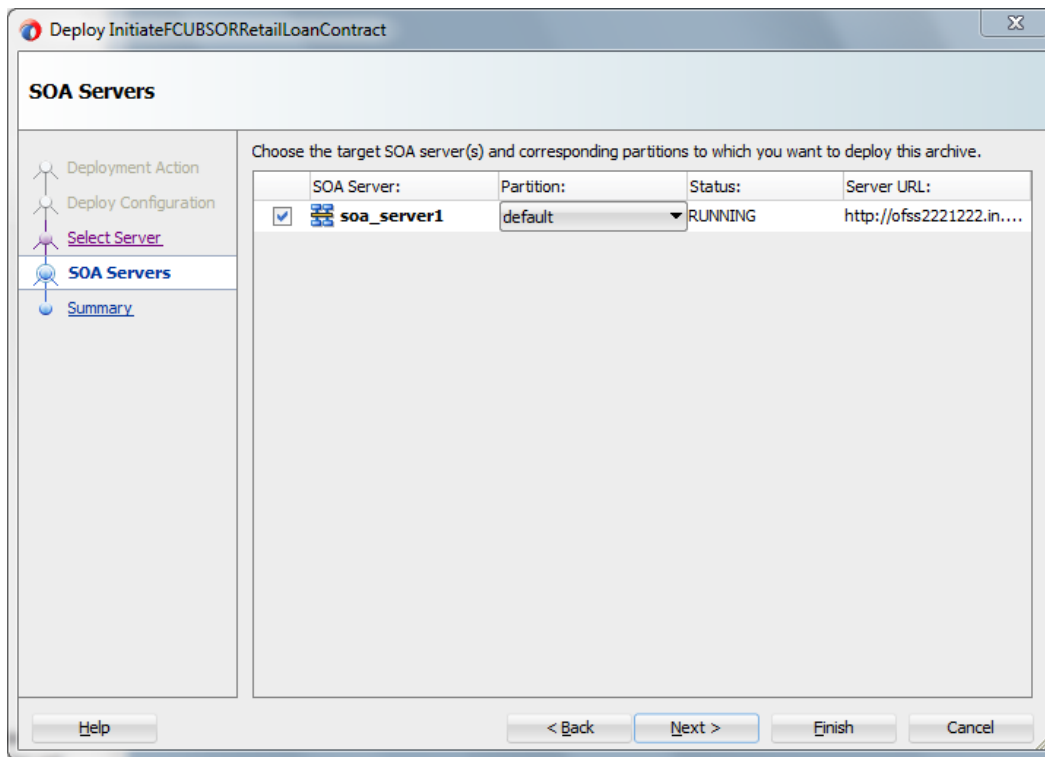
- Select the Application server ‘Server Connection’ configured that was done in Section 3 to which the deployment needs to be done
- Click ‘Next’ to proceed with the deployment.



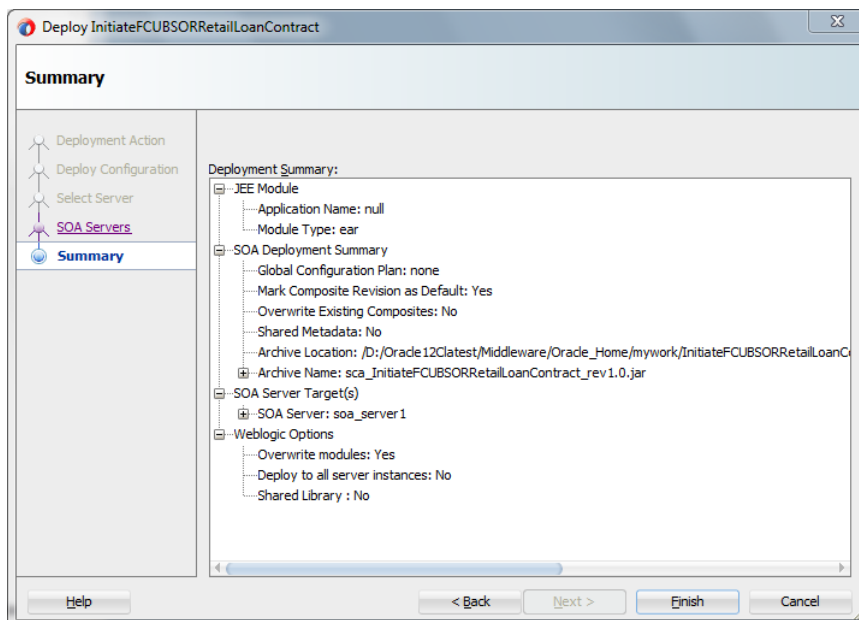
In case “Overwrite any existing composites with the same revision ID” checkbox is checked during the deployment, the active tasks which are currently running on the current revision of the process flow will be moved to “Stale” task status. The tasks which are in “Stale” status will not be displayed in the Oracle FLEXCUBE Application (under Task tab). Make sure that, before deploying the process, the “Overwrite any existing composites with the same revision ID” checkbox should be unchecked.



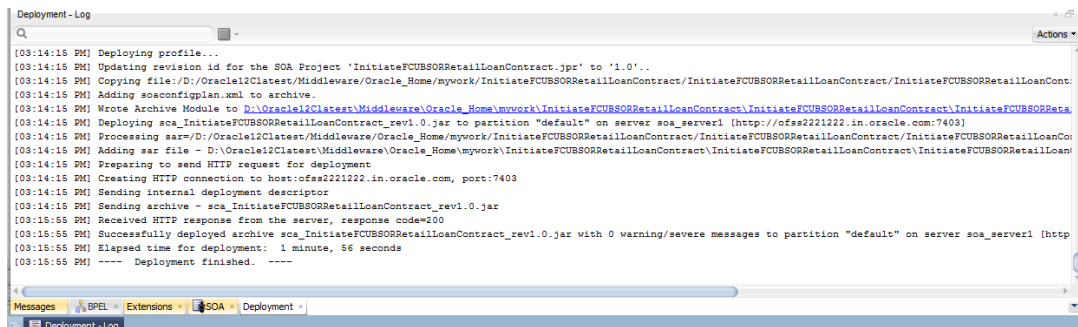
- Select the Application 'server' to which the deployment needs to be done.



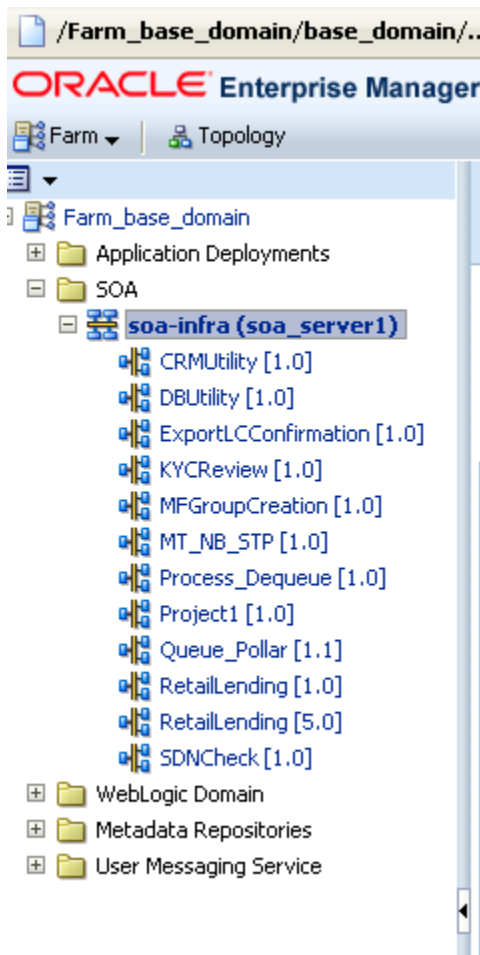
- View the summary of the deployment details and click 'Finish' to complete the deployment.



- The deployment status can be verified in the deployment status Log window.



- The deployed process can be verified by checking if the process is showing up in the SOA Suite enterprise manager console.
- Login to <http://<hostname>:<port>/em>
- Expand SOA - >SOA-infra and view all deployed applications



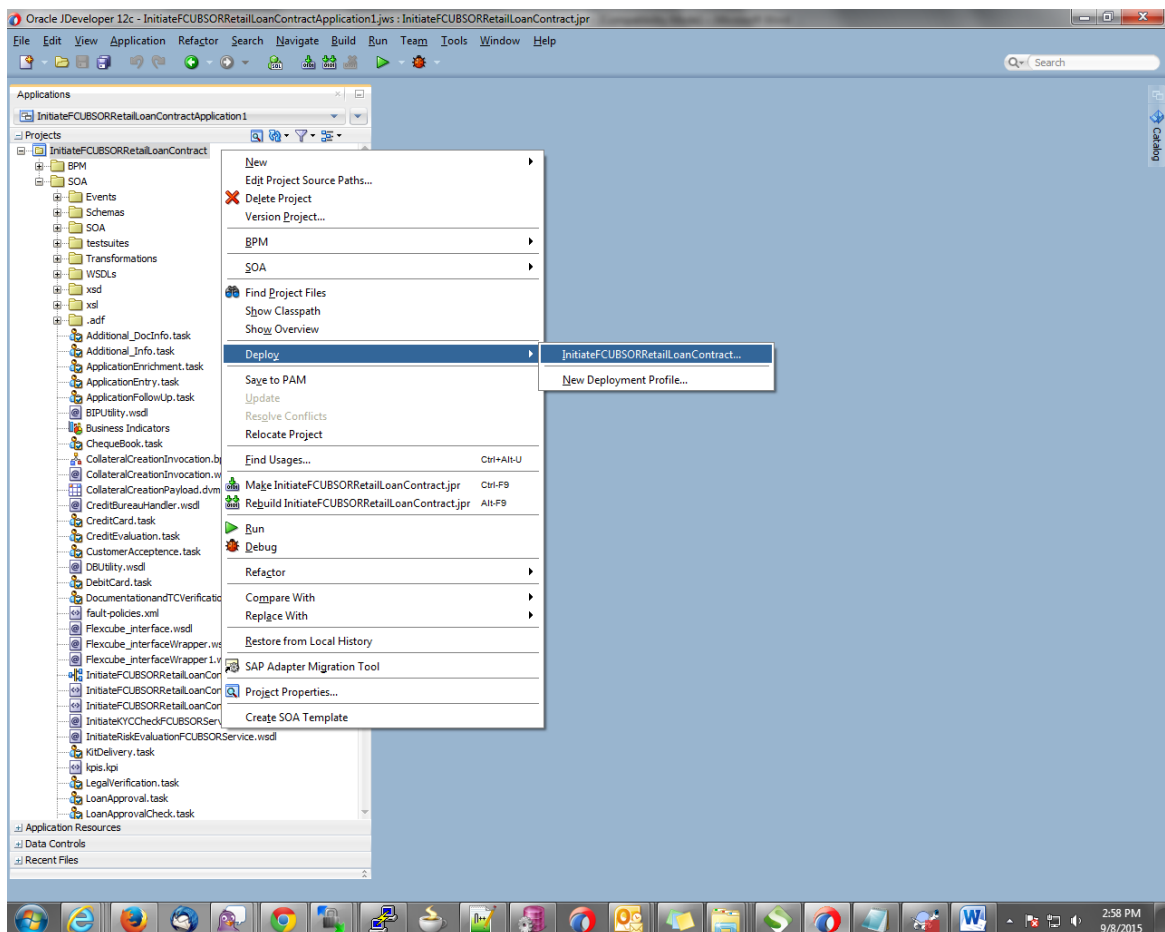
## 7. Deploying a Single Composite Application via Enterprise Manager Console

### 7.1 Introduction

This section describes how to build a SAR file for a single SOA composite application with Oracle JDeveloper and deploy the same via enterprise manager console.

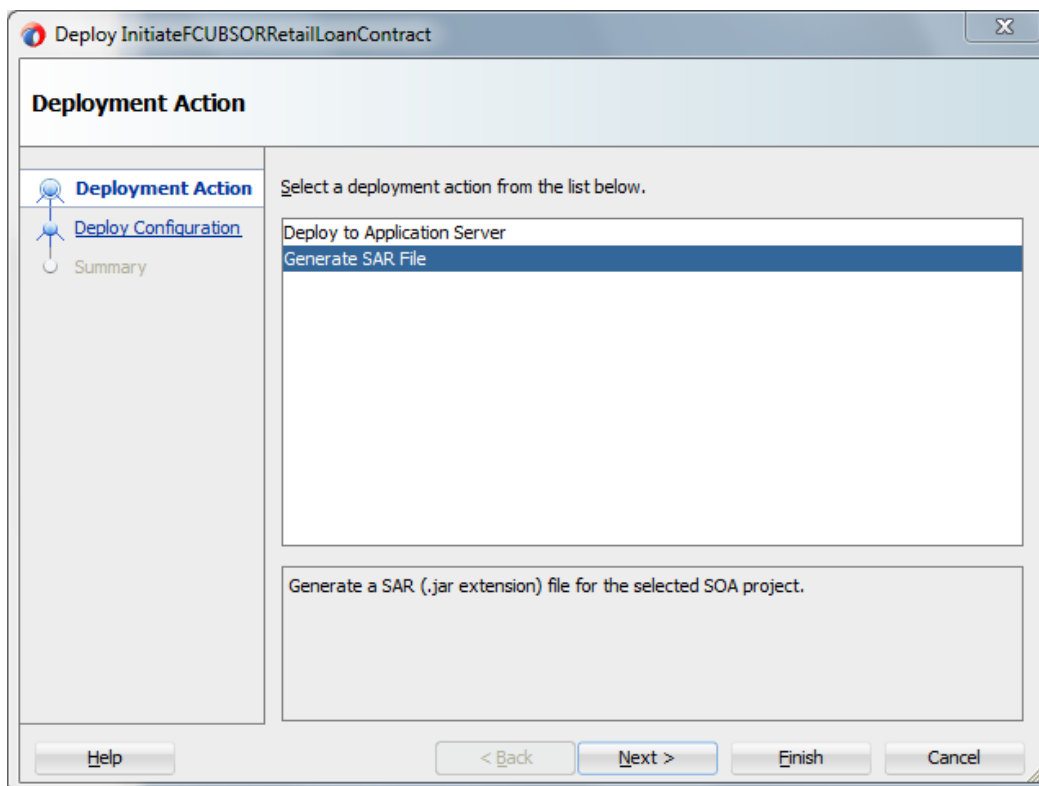
### 7.2 Deploying the Application

- Right click on the Application that needs to be deployed.
- Select 'Deploy' and then click on the default deployment profile which is the same as the application name.
- This will result in the deployment wizard screen being launched.



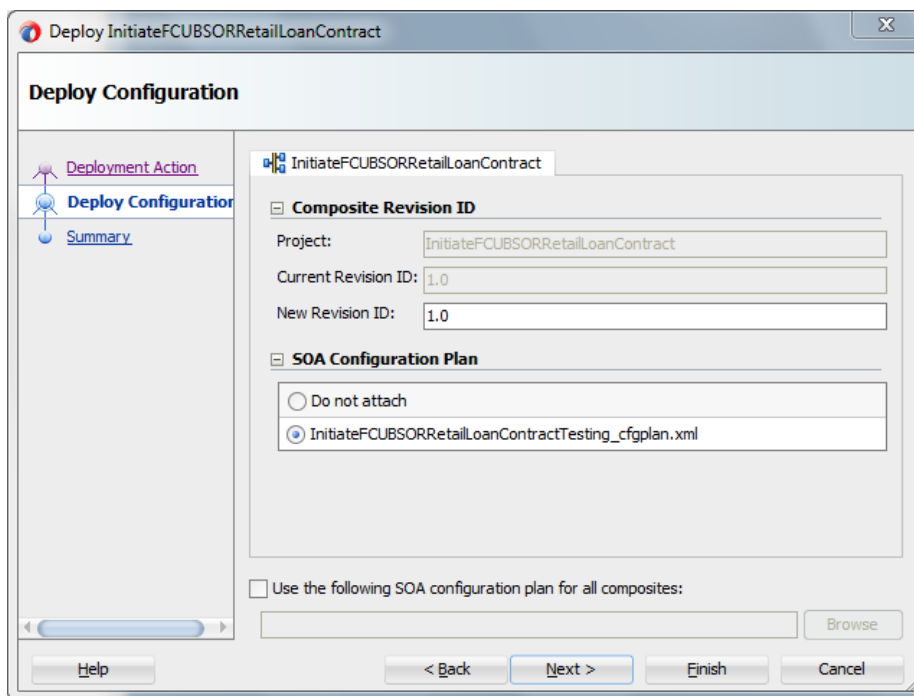
- In deployment action screen choose 'Deploy to SAR'

- Click 'Next' to proceed with the deployment.

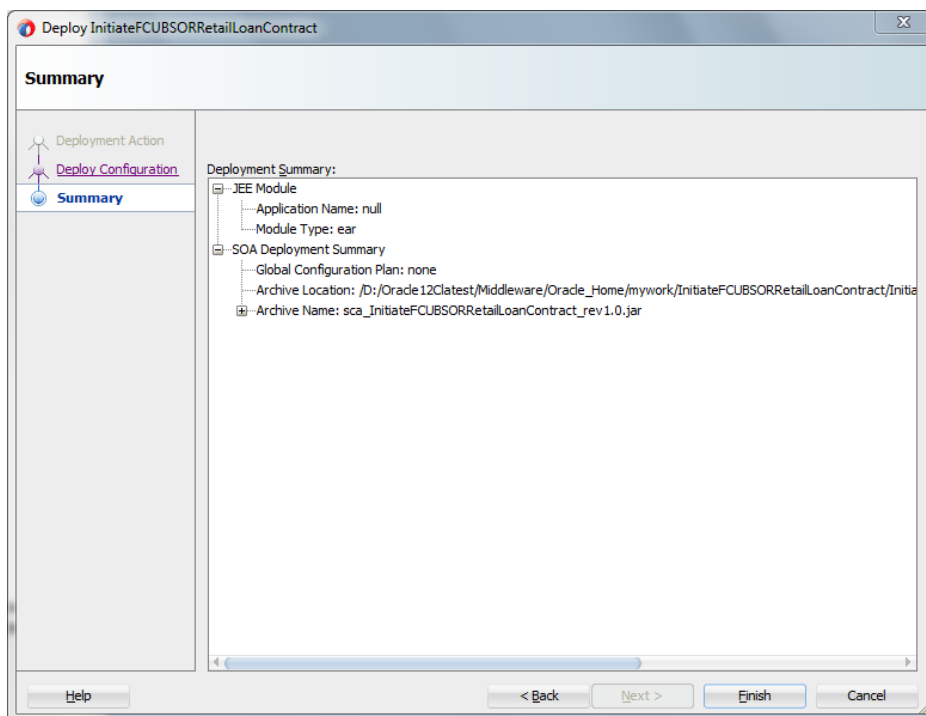


- In deployment configuration screen enter the revision
- Select the configuration plan.

- Click “Next” to proceed with the deployment.

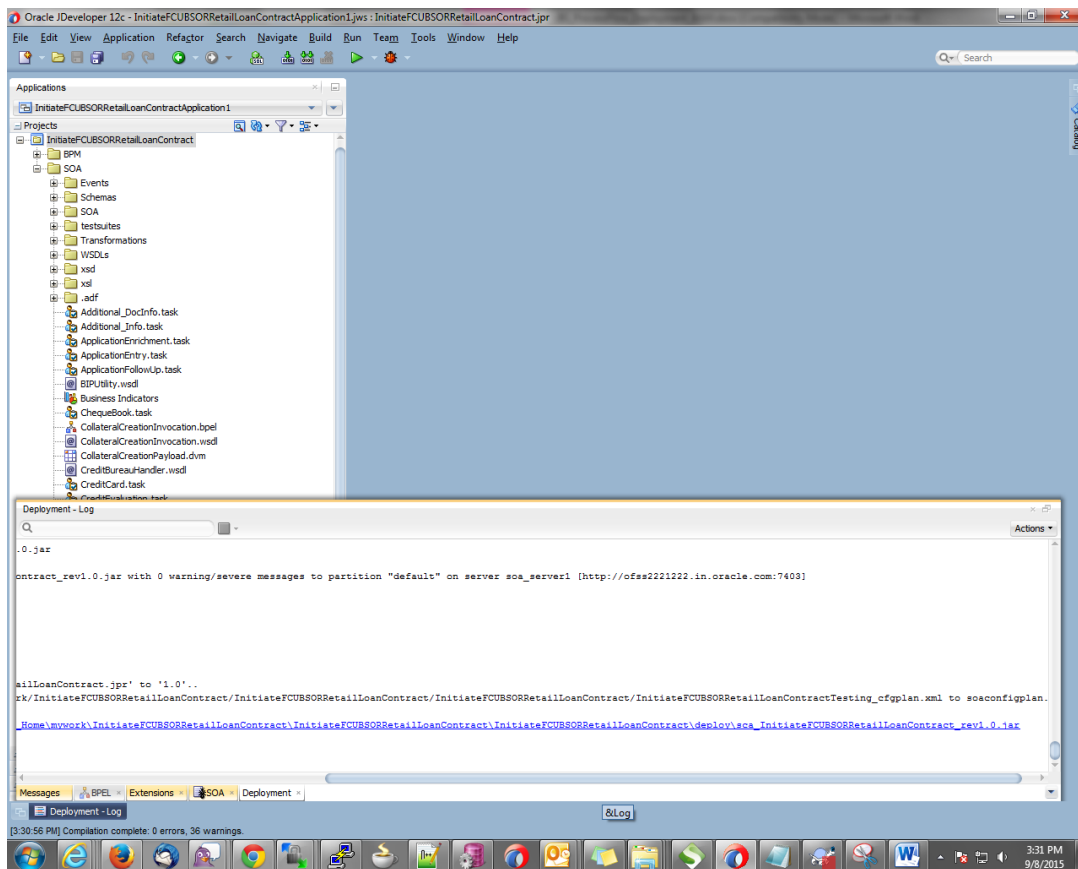


- Review the deployment summary screen
- Click “Finish” to proceed with the deployment.



- Review the deployment log

- It shows the folder onto which the SAR file is written.



- Login to the enterprise manager console.
- Login to <http://<hostname>:<port>/em>



- After logging in from the left pane - Expand 'SOA'
- Right click on SOA-infra



- ORACLE Enterprise Manager Fusion Middleware Control 12c**

WebLogic Domain ▾

### Change Center

Changes ▾ Recording ▾

### Target Navigation

View ▾

  - Application Deployments
  - SOA
    - soa-infra (soa\_server1)
      - [default] Home ▾
        - AmendFC Monitoring
        - AmendFC Logs
        - AmendRI SOA Deployment ▾
          - Deploy... (1)
          - Manage Partitions
          - Undeploy...
          - Redeploy...
        - AmendRI Work Manager Groups
        - AMLChecks Resequencing Groups
        - BPMInvoke Service Engines
        - BPUtility Bindings
        - BPELCOL Services and References
        - BPELCRP Business Events
        - BPELCRP SOA Administration
        - BPELCRP Security
        - bpeplncm Administration
        - BPELIntl Target Information
        - CIBProc CloseFUSIORetailLoanContract [1.0]
        - CloseRetailLoanContractFUSIORService [1.0]
        - COLLATProcess [5.0]
        - CorporateLending [3.0]
        - CovenantPoller [1.0]
        - CRDOPProcess [1.0]
        - CreateCorporateCustomer [2.0]
        - CreditBureauBPEL [1.0]
        - CreditBureauHandler [1.0]
        - CRMUtility [1.0]
        - CRPClosureProcess [1.0]
        - CRPClosureProcess [10.0]
        - CRPProcess [1.0]
        - CRPProcess [2.0]
        - manager [1.0]

**dev\_domain** Logged in as weblogic

Page Refreshed Sep 8, 2015 3:32:10 PM IST

### Summary

General

Administration Server AdminServer  
 Administration Server Host ofs2221222.n.oracle.com  
 Administration Server Listen Port 7401  
 Support Workbench Problems 50

Tools

To configure and manage the WebLogic Domain, use the [WebLogic Server Administration Console](#).

### Servers

| Name        | Status   | Server Type           | Host        |
|-------------|----------|-----------------------|-------------|
| AdminServer | Running  | Administration Server | ofs2221222. |
| bam_server1 | Down (9) | Configured            | ofs2221222. |
| soa_server1 | Up (2)   | Configured            | ofs2221222. |

93% Up (2) 7% Down (9)

### Clusters

No Clusters found

### Deployments

| Name                  | Status  | Deployed On |
|-----------------------|---------|-------------|
| soa-infra             | Running | soa_server1 |
| [default]             | Running |             |
| AmendFCBUSORIFRe      | Running |             |
| AmendFCBUSORIRet      | Running |             |
| AmendIFRetaLoanC      | Running |             |
| AmendRetaLoanCon      | Running |             |
| AmendRetaLoanCon      | Running |             |
| AMLChecks [1.0]       | Running |             |
| BPMInvoke [1.0]       | Running |             |
| BPUtility [1.0]       | Running |             |
| BPELcollatProcess     | Running |             |
| BPELcollatProcess     | Running |             |
| BPELCRPclosurePro     | Running |             |
| BPELCRPProcess [1.0]  | Running |             |
| BPELCRPProcess [10.0] | Running |             |
| bpecmprocces [1.0]    | Running |             |

### Oracle WebLogic Domain Resource Center

**Before You Begin**

  - What is a WebLogic Domain?
  - Manage Oracle WebLogic Server with Fusion Middleware Control
  - Manage Oracle WebLogic Server with the Administration Console

**Typical Administration Tasks**

  - Starting and Stopping Oracle WebLogic Servers
  - Deploying an Application Using Fusion Middleware Control
  - Additional Fusion Middleware Control Common Tasks

- The screenshot shows the Oracle Enterprise Manager Fusion Middleware Control interface. The top navigation bar includes "ORACLE Enterprise Manager Fusion Middleware Control 12c" and links for "Help" and "Log Out". A breadcrumb trail at the top left reads "soa-infra > Select Archive > Select Target > Confirmation".

### Deploy SOA Composite : Select Archive

This wizard lets you create a runtime environment for SOA composite applications. Once this operation is performed, these applications can be administered using Oracle Enterprise Manager. A single composite revision or a bundle containing revisions of multiple SOA composites can be deployed.

Select the archive and configuration plan to deploy a single revision of a SOA composite. Or specify a ZIP file.

**Archive or Exploded Directory**

You can deploy a Service archive (SAR) or a ZIP file or a directory of files. You can also select a Service archives (SARs). Ensure that the selected archive is valid.

  - ☒ Archive is on the machine where this web browser is running.
  - ☐ Archive on the server where Enterprise Manager is running.

**Configuration Plan**

The configuration plan is a file that contains the deployment settings for a SOA composite revision.

  - ☒ No external configuration plan is required.
  - ☐ Configuration plan is on the machine where this web browser is running.
  - ☐ Configuration plan is on the server where Enterprise Manager is running.

An overlay window titled "File Upload" is open, showing a file explorer view. The address bar indicates the path: "InitiateFCUBSORRetailLoanContract\_rev1\_0.jar". The file list shows various folders like Middlew..., Oracle\_H..., coheren..., em, invento..., jdevelo..., logs, mnt, myworl..., ELCV, Gatev..., Initiat..., Gat, Initi..., a, and d. The file name field at the bottom contains "mrosc\_rev1\_0.jar" and the file type is set to "All Files (\*.\*)". Buttons for "Open" and "Cancel" are visible.

- Click on 'Next' to proceed with the deployment.

**ORACLE Enterprise Manager** Fusion Middleware Control 12c

soa-infra

Select Archive Select Target Confirmation

**Deploy SOA Composite : Select Target**

WebLogic Server or Cluster

Based on the context from which you launched this wizard, the selected composite will be deployed to the WebLogic server or cluster shown below. If you wish to deploy to a different target, click Cancel to exit this wizard, navigate to a different WebLogic server or cluster or to the WebLogic Domain, and select Deploy again.

Deployment Target: /Domain\_dev\_domain/dev\_domain/soa\_server1  
Type: Oracle WebLogic Server  
SOA Composites Deployed: 89

**Token Configurations**

As a good practice, configure the global token variables referenced by this composite before deploying it. Else the composite may not run properly, once it is deployed. Global token variables are used to resolve environment specific URIs when a composite is moved to another environment. Before starting the deployment operation, ensure that all the tokens referenced by the selected composite are configured. The Token Configurations page can be found in the SOA Administration section of the SOA Infrastructure target menu.  
[More Info...]

**SOA Partition**

Partitions are logical groupings of composites that help you manage large deployments. The selected composite will be deployed to the partition shown below. If you wish to deploy to a different partition, select it from the list below.

\* default

- Select default partition.
- Select the default revision option if this deployment needs to be the default one

**ORACLE Enterprise Manager** Fusion Middleware Control 12c

soa-infra

Select Archive Select Target Confirmation

**Deploy SOA Composite : Confirmation**

You are deploying the following SOA composite revision. Click "Deploy" to continue or click "Cancel" to cancel this operation.

Composite Name: InitiateFCUBSORRetailLoanContract  
Composite Revision: 1.0  
Archive Location: sca\_InitiateFCUBSORRetailLoanContract\_rev1.0.jar  
Configuration Plan: No external plan specified  
Deployment Target: /Domain\_dev\_domain/dev\_domain/soa\_server1  
SOA Partition: default

**Default Revision**

The above revision will be deployed as the new default revision of the composite. If you wish to keep the current default version, please choose the "Do not change" option below. You can set a different default revision later at any time in the Deployed Composites page that can be accessed from the SOA Infrastructure target menu.

☒ Deploy as default revision  
☐ Do not change the default revision

- 

**ORACLE Enterprise Manager** Fusion Middleware Control 12c

WebLogic Domain SOA Infrastructure

### Target Navigation

- Application Deployments
- SOA
  - soa-infra (soa\_server1)
    - default
      - AmendFCUBSORRetailLoanContract [1.0]
      - AmendFCUBSORRetailLoanContract [1.0]
      - AmendNFRetailLoanContractFCUBSORService [1.0]
      - AmendRetailLoanContractFCUBSORService [1.0]
      - AmendRetailLoanContractFCUBSORService [2.0]
      - AmendRetailLoanContractFCUBSORService [3.0]
      - AMLChecks [1.0]
      - BIPInvoke [1.0]
      - BIPUtility [1.0]
      - BPELCOLLATPProcess [1.0]
      - BPELCOLLATPProcess [2.0]
      - BPELCRPPProcess [1.0]
      - BPELCRPPProcess [10.0]
      - bpelevnprocess [1.0]
      - BPELLimitReview [1.0]
      - CIBLPProcess [1.0]
      - CloseFCUBSORRetailLoanContract [1.0]
      - CloseRetailLoanContractFCUBSORService [1.0]
      - COLLATPProcess [5.0]
      - CorporateLending [3.0]
      - CovenantPoller [1.0]
      - CRDOPProcess [1.0]
      - CreateCorporateCustomer [2.0]
      - CreditBureauBP [1.0]
      - CreditBureauHandler [1.0]
      - CRMUtility [1.0]
      - CRPClosureProcess [1.0]
      - CRPClosureProcess [10.0]
      - CRPProcess [1.0]
      - CRPProcess [2.0]
      - DBPoller [1.0]
      - DBUtility [1.0]
      - DBUtility [2.0]
      - DeburseFCUBSORRetailLoanContract [1.0]

### InitiateFCUBSORRetailLoanContract [1.0]

SOA Composite

Logged in as weblogic | ofss221222.n.oracle.com  
Page Refreshed Sep 8, 2015 3:41:08 PM IST

Active Retire ... Shut Down... Test Settings... Related Links

#### Dashboard

- Composite Definition
- Flow Instances
- Unit Tests
- Policies

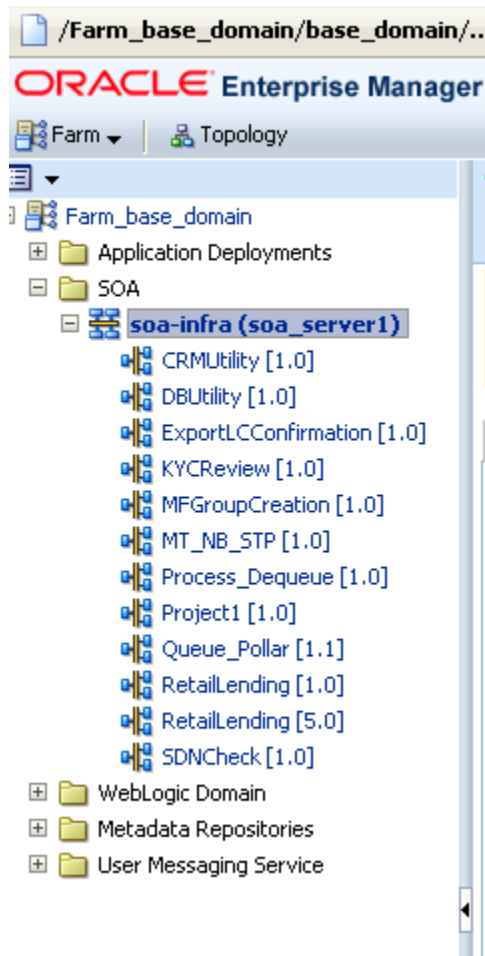
#### Components

| Name                              | Component Type |
|-----------------------------------|----------------|
| CustomerAcceptance                | Human Workflow |
| CreditCard                        | Human Workflow |
| CollateralCreationInvocation      | BPEL           |
| ChequeBook                        | Human Workflow |
| InitiateFCUBSORRetailLoanContract | BPMN           |

#### Services and References

| Name                                         | Type           | Usage     | Total Messages | Average Processing Time (sec) |
|----------------------------------------------|----------------|-----------|----------------|-------------------------------|
| InitiateFCUBSORRetailLoanContract_clientAdf  | ADF            | Service   | 0              | 0.000                         |
| InitiateFCUBSORRetailLoanContract_WebService | Web Service    | Service   | 0              | 0.000                         |
| InitiateFCUBSORRetailLoanContract_client_adp | Direct Binding | Service   | 0              | 0.000                         |
| Collateral_Service                           | Web Service    | Reference | 0              | 0.000                         |

- Check the deployed process from the enterprise manager console



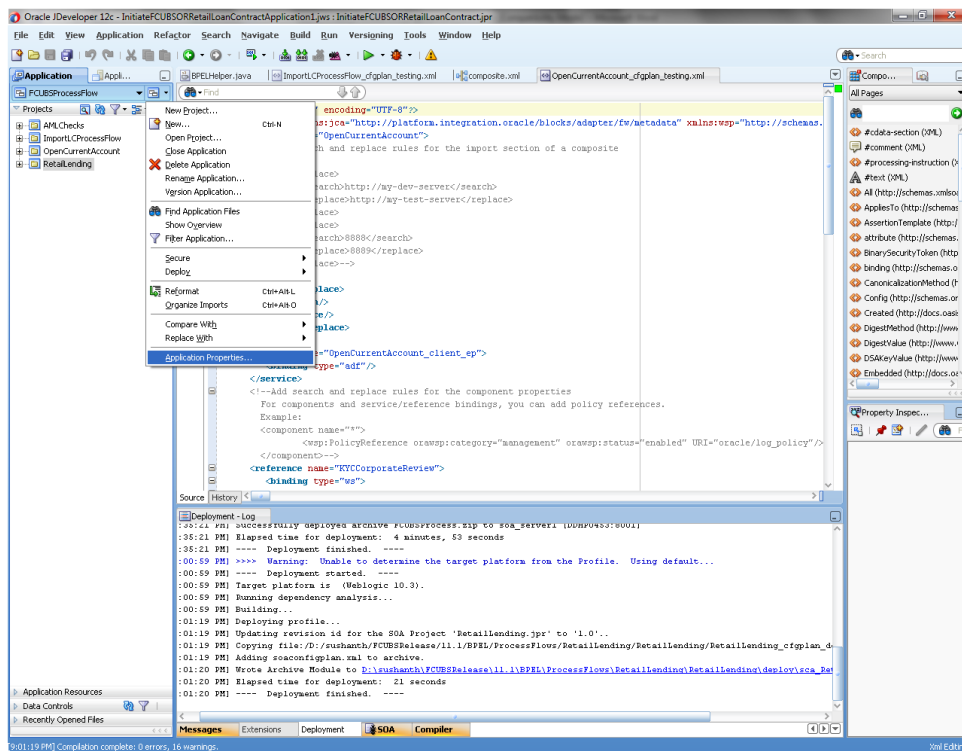
## 8. Deploying Multiple Composite Application using JDeveloper

### 8.1 Introduction

This section describes how to deploy a multiple SOA composite application with Oracle JDeveloper after completing updating of config plans with respective target environment replacement values.

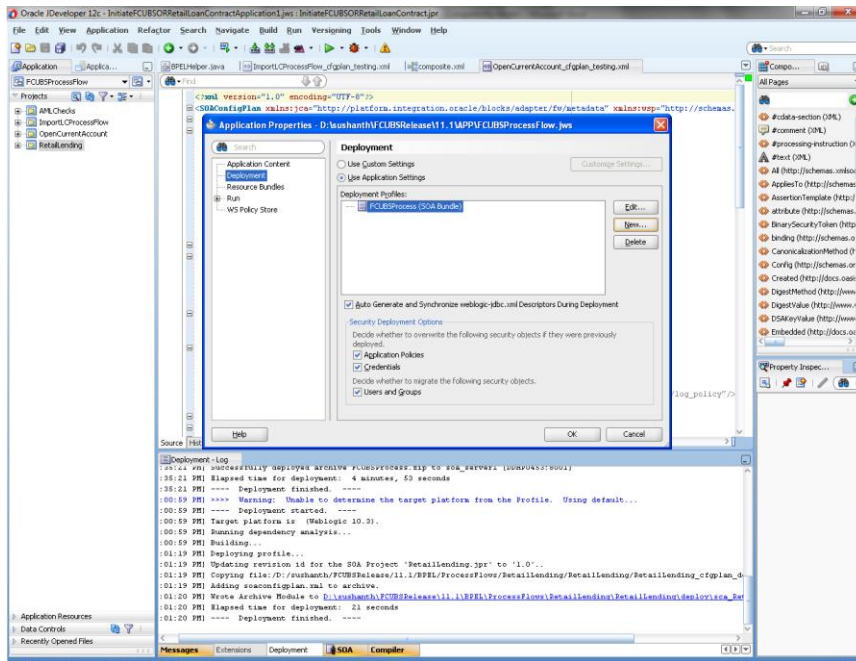
### 8.2 Creating the Deployment Profile

From the application menu select 'Application Properties' as illustrated in the screen shot.

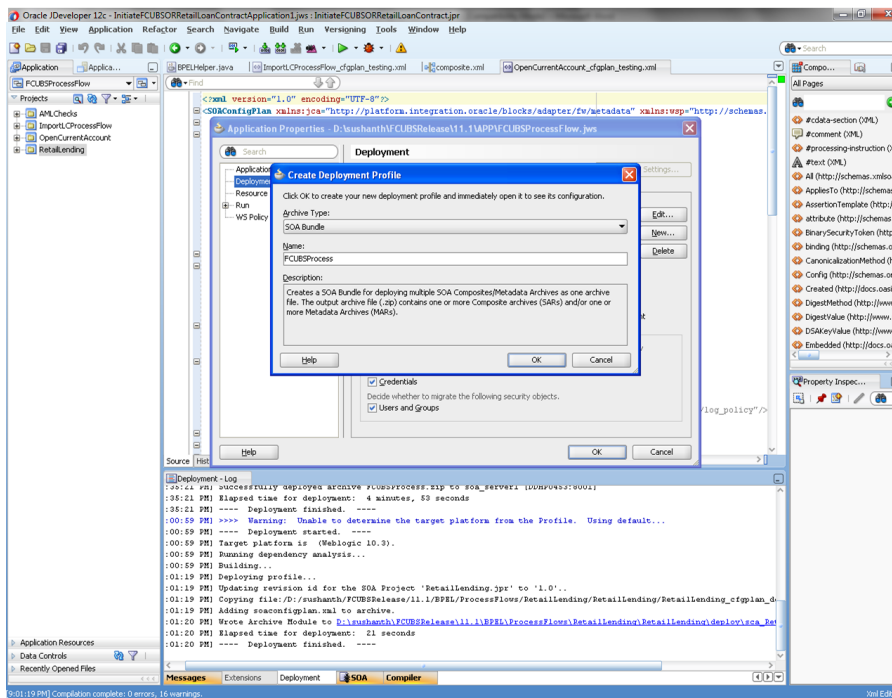


- In the Application Properties dialog, click Deployment.

- Click New.



- The Create Deployment Profile dialog appears.
- In the Archive Type list, select SOA Bundle.
- In the Name field, enter a name and click 'OK'.



- In the navigator on the left, select the Dependencies node.

- 
- The screenshot displays the Oracle IDE interface. On the left, the 'Projects' pane shows a project named 'FOCUSProcessFlow' with sub-projects 'ANLChecks', 'ImportCProcessFlow', 'OpenCurrentAccount', and 'RetailLending'. The main editor area shows the 'SOA Bundle Deployment Profile Properties' dialog box. The 'Dependencies' tab is selected, showing a tree of Java EE Modules. The tree includes 'ImportCProcessFlow.jar', 'ImportCProcessFlow', 'ser1', 'ANLChecks.jar', 'ANLChecks', 'OpenCurrentAccount.jar', 'OpenCurrentAccount', 'RetailLending.jar', and 'RetailLending'. The 'Deployment-Log' window at the bottom shows the deployment process, including warnings about the target platform and dependency analysis.
- SOA Bundle Deployment Profile Properties**
- Specify dependencies on other SAR/PMR deployment profiles.
- Java EE Modules:
- ImportCProcessFlow.jar
    - ImportCProcessFlow
      - ser1
  - ANLChecks.jar
    - ANLChecks
  - OpenCurrentAccount.jar
    - OpenCurrentAccount
  - RetailLending.jar
    - RetailLending
- Deployment-Log**
- ```

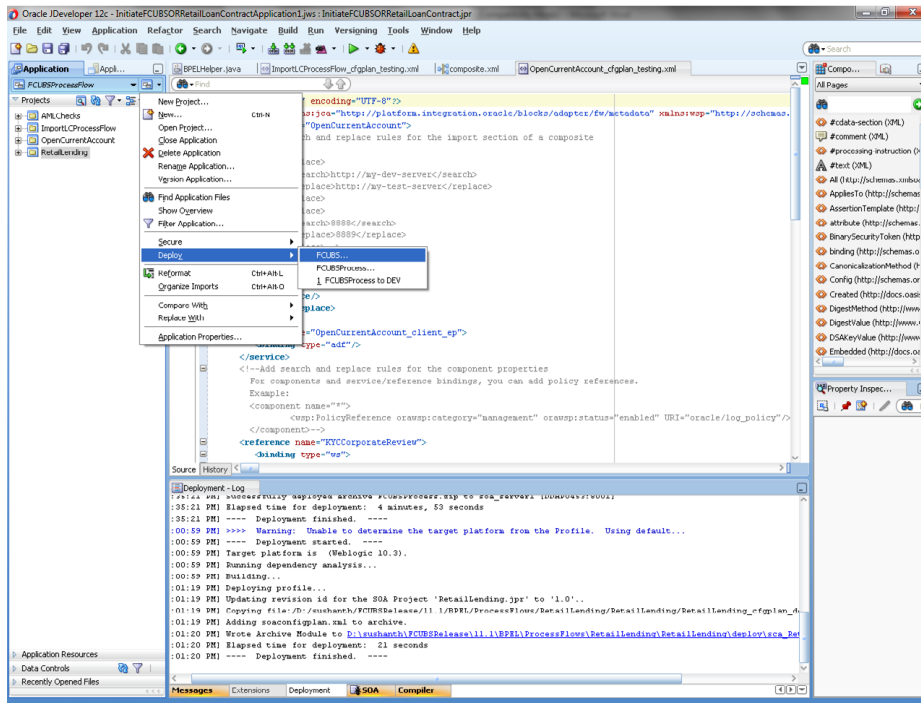
10:11:01 PMI Successfully deployed archive \rumsources.zip to sda_server: [wms005:6001]
10:11:21 PMI Elapsed time for deployment: 4 minutes, 53 seconds
10:11:21 PMI ---- Deployment finished. ----
00:00:59 PMH >>> Warning: Unable to determine the target platform from the Profile. Using default...
00:00:59 PMH ---- Deployment started. ----
00:00:59 PMH Target platform is (Weblogic 10.3).
00:00:59 PMH Running dependency analysis...
00:00:59 PMH Building...
00:10:19 PMH Deploying profile...
00:10:19 PMH Updating revision id for the SOA Project 'RetailLending.jpr' to '1.0'.
00:10:19 PMH Copying file D:\rumsources\FOCUS\Release\1.1\BPEL\ProcessFlow\RetailLending\RetailLending_cfpplan_d
00:10:19 PMH Adding soaconfigplan.xml to archive.
00:10:20 PMH Wrote Archive Module to D:\rumsources\FOCUS\Release\1.1\BPEL\ProcessFlow\RetailLending\RetailLending_deployable.jar
00:10:20 PMH Elapsed time for deployment: 21 seconds
00:10:20 PMH ---- Deployment finished. ----
  
```
- At the bottom of the IDE, the status bar shows: 00:01:19 PM Compilation complete: 0 errors, 16 warnings.

-
- The screenshot displays the Oracle Developer 12c IDE interface. The main window shows the 'Application Properties' dialog for the 'FCBSPProcessFlow' application. The 'Deployment' tab is selected, showing the 'FCBSPProcess (SOA Bundle)' profile. The 'Security Deployment Options' section is expanded, showing 'Application Policies', 'Credentials', and 'Users and Groups' are checked. The 'Messages' window at the bottom shows the deployment log, indicating successful deployment of the archive 'FCBSPProcessFlow.jar' to the SOA server.
- Application Properties - D:\xushanh\FCBSPRelease\11.1\APP\FCBSPProcessFlow.jar**
- Deployment**
- ☐ Use Custom Settings
☐ Use Application Settings
- Deployment Profiles:**
- ☒ FCBSPProcess (SOA Bundle)
 - ☐ FCBSP (SOA Bundle)
- ☒ Auto Generate and Synchronize weblogic-jdbc.xml Descriptors During Deployment
- Security Deployment Options**
- Decide whether to overwrite the following security objects if they were previously deployed.
- ☒ Application Policies
 - ☒ Credentials
 - ☒ Users and Groups
- Messages**
- ```

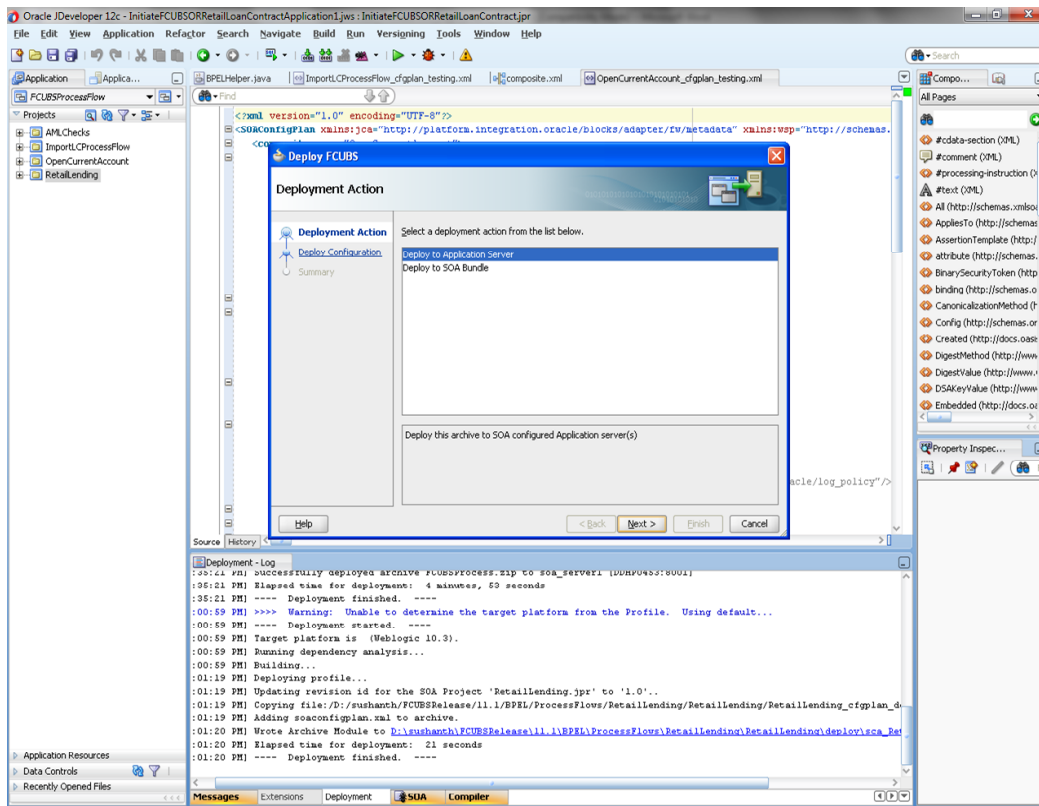
00:01:19 PM Deployment Log
00:01:19 PM Successfully deployed archive 'FCBSPProcessFlow.jar' to SOA server 'D:\ORACLE\12c\SOA\server1'
00:01:19 PM Elapsed time for deployment: 4 minutes, 55 seconds
00:01:19 PM ---- Deployment started ----
00:01:19 PM Warning: Unable to determine the target platform from the Profile. Using default...
00:01:19 PM ---- Deployment started ----
00:01:19 PM Target platform is 'Weblogic 10.3'.
00:01:19 PM Running dependency analysis...
00:01:19 PM Building...
00:01:19 PM Deploying profile...
00:01:19 PM Updating revision id for the SOA Project 'RetailingDemo.jar' to '1.0.1'.
00:01:19 PM Copying file: D:\xushanh\FCBSPRelease\11.1\APP\ProcessFlow\RetailingDemo\RetailingDemo_cifplan_d_
00:01:19 PM Added recent_cifplan.xml to archive.
00:01:20 PM Wrote Archive Module to D:\xushanh\FCBSPRelease\11.1\APP\ProcessFlow\RetailingDemo\RetailingDemo_deploy_soa_
00:01:20 PM Elapsed time for deployment: 21 seconds
00:01:20 PM ---- Deployment finished. ----

```

- ORACLE®

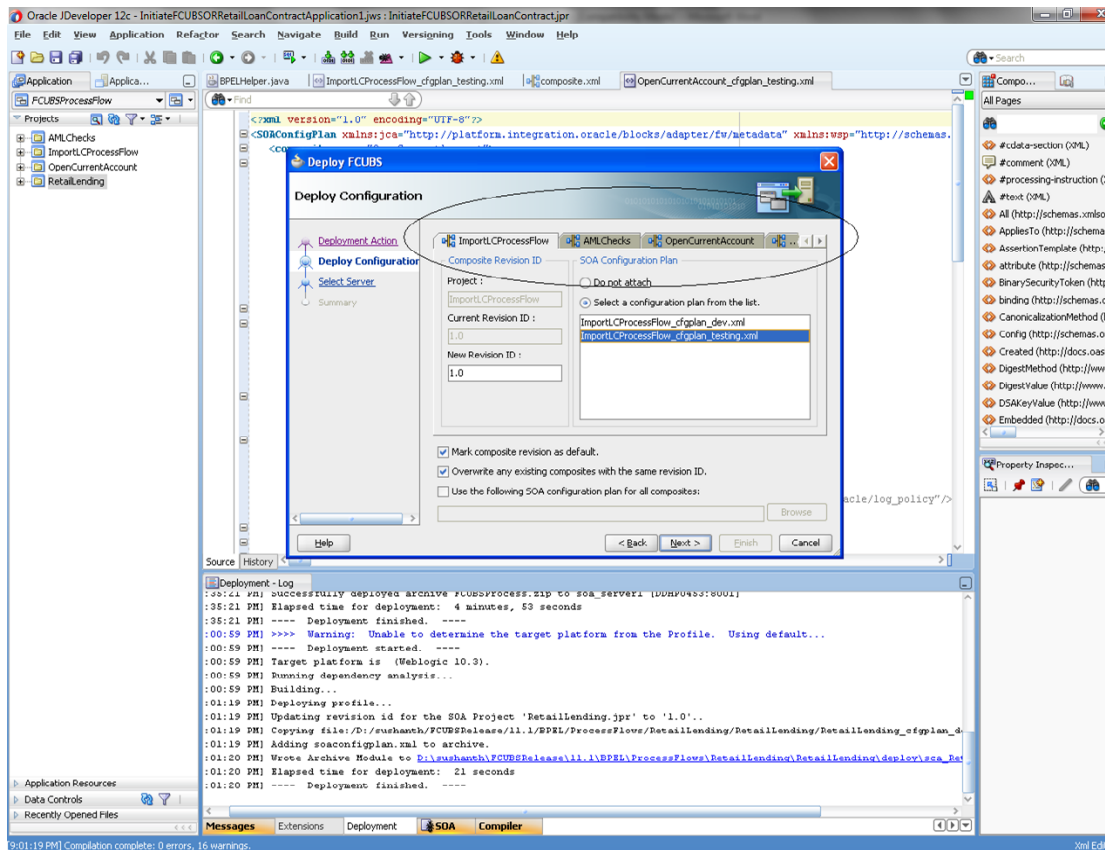


- Deployment screen is launched , Select 'Deploy to Application Server'



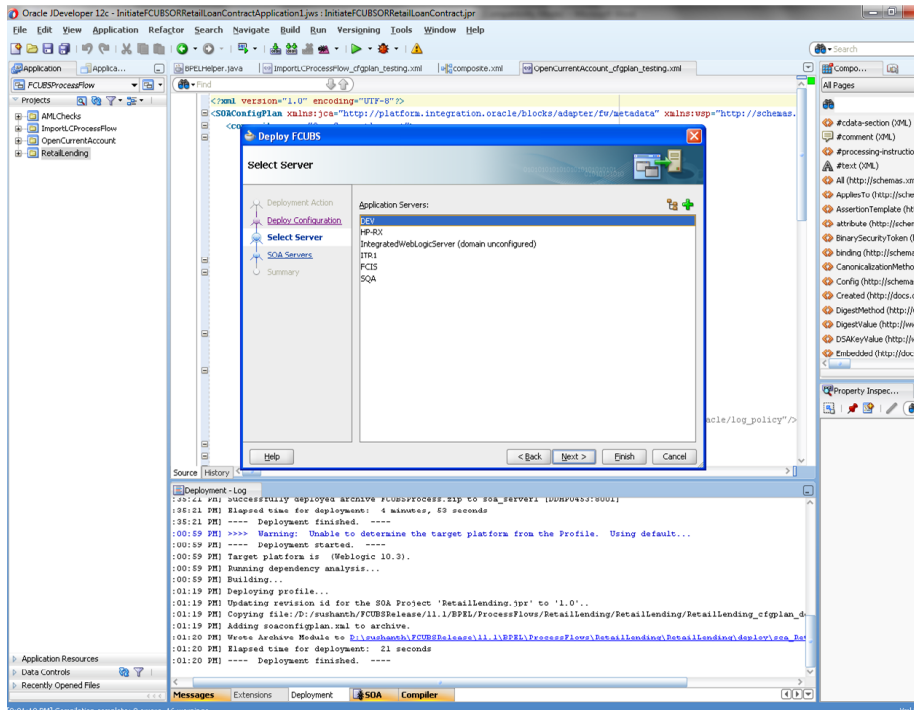


- Deployment configuration is done as illustrated in the below screen shot for each application which is displayed in the tab, application navigation can be done using the pointer provided at the end of the tab.
- Select a Revision with which the deployment should happen
- Select a " Configuration Plan" that was updated as given in Section 5
- Remember to check both the checkboxes
  - "Mark composite revision as 'default'"
  - "Overwrite any existing composites with the same revision ID"
- After all the applications are configured Click "Next" to proceed with the deployment.

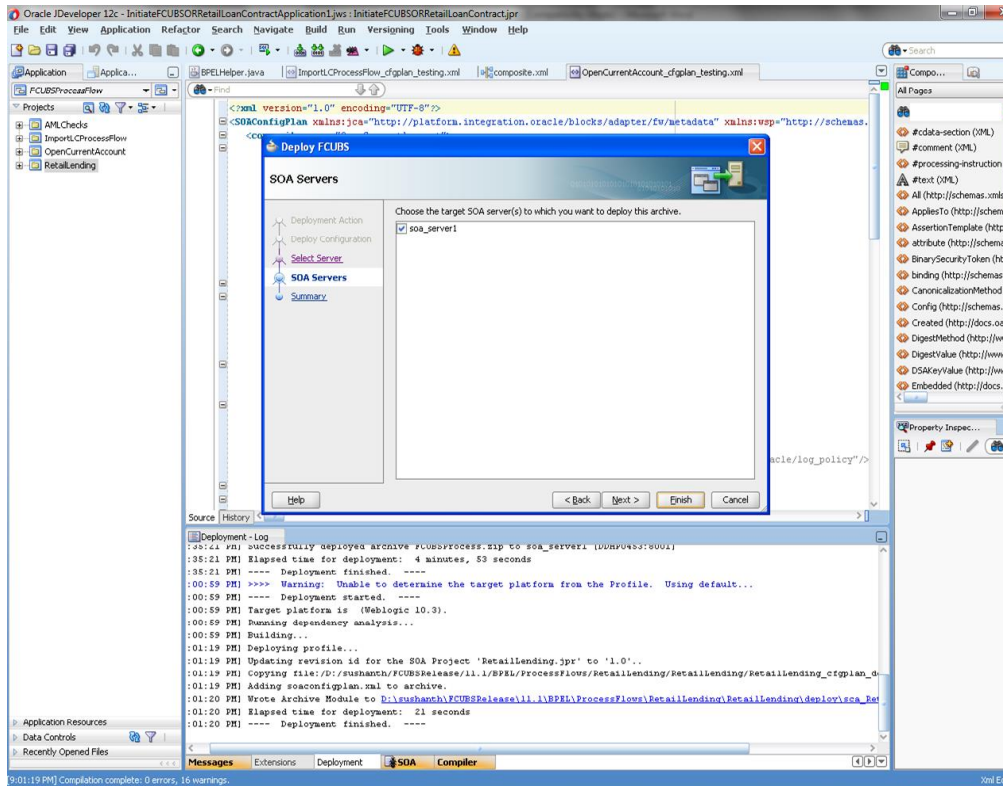


- Select the Application server 'Server Connection' configured that was done in Section 3 to which the deployment needs to be done

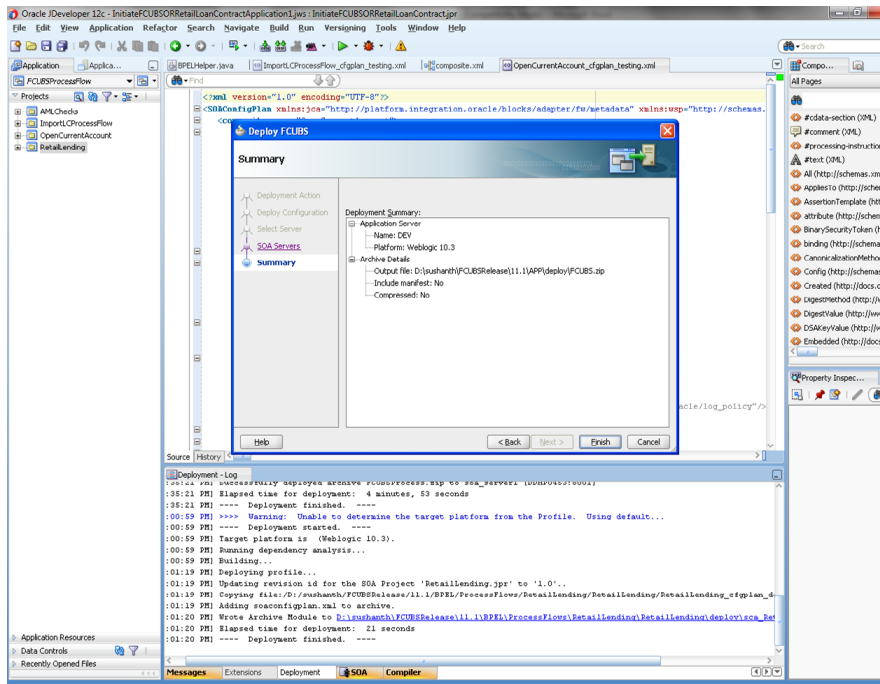
- Click 'Next' to proceed with the deployment.



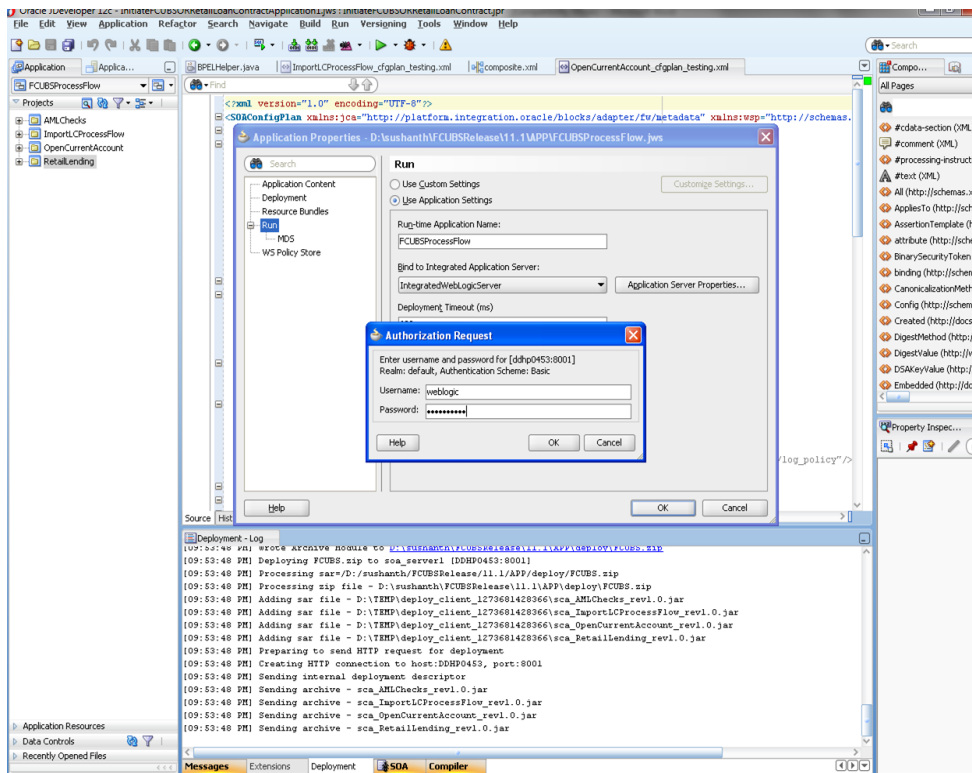
- Select the Application 'server' to which the deployment needs to be done.



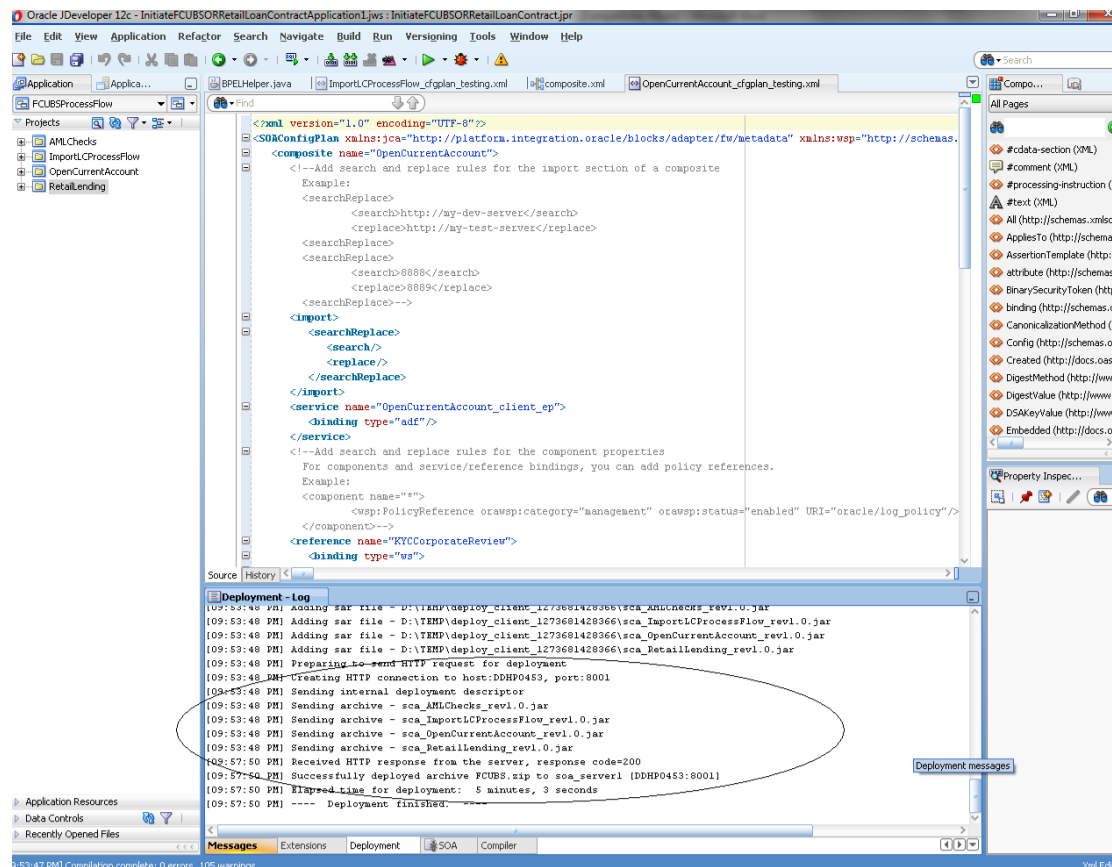
- View the summary of the deployment details and click 'Finish' to complete the deployment.



- If the server prompts for username / password provide the credentials for the server.

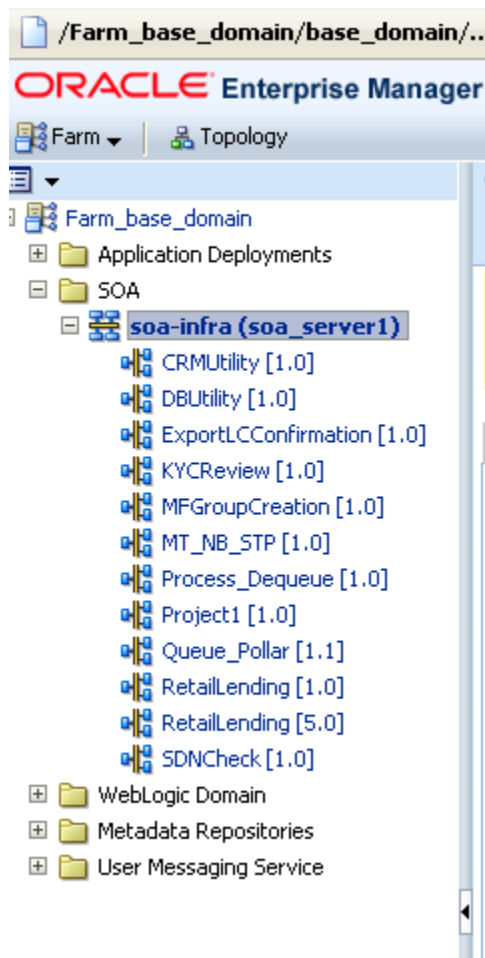


- The deployment status can be verified in the deployment status Log window.



- The deployed process can be verified by checking if the process is showing up in the SOA Suite enterprise manager console.
- Login to <http://<hostname>:<port>/em>

- Expand SOA - >SOA-infra and view all deployed applications



---

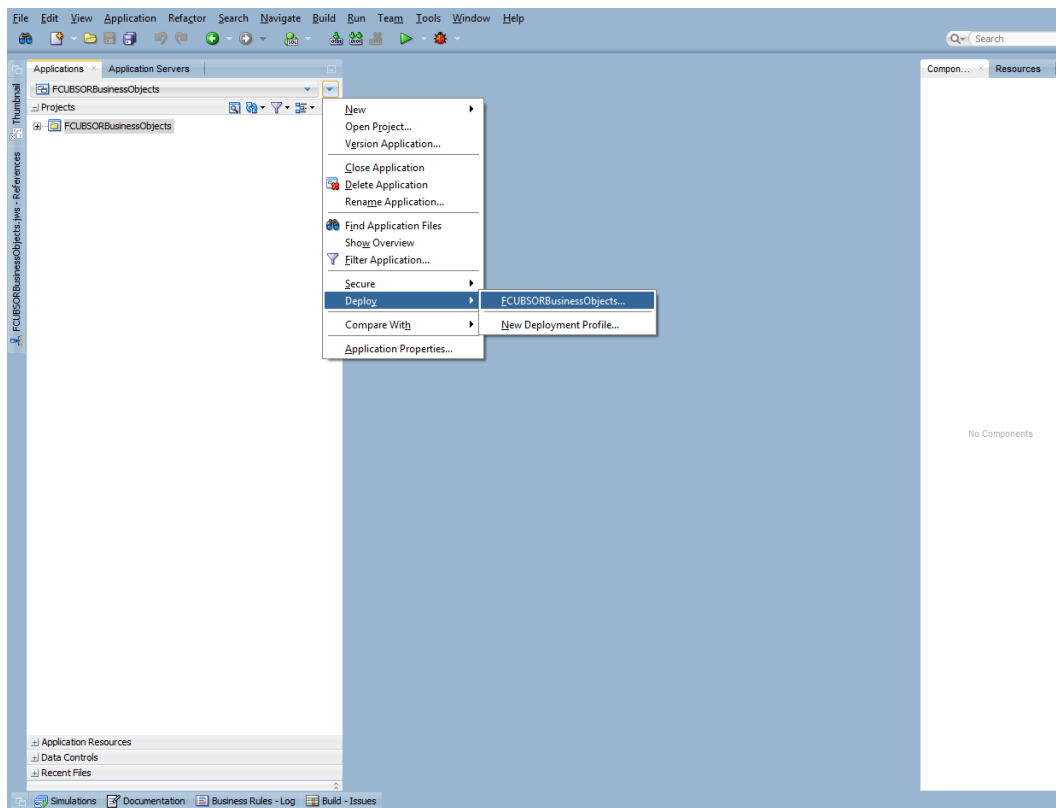
## 9. Deploying MDS application using JDeveloper

### 9.1 Introduction

This section describes how to deploy a MDS application with Oracle JDeveloper with respective target environment.

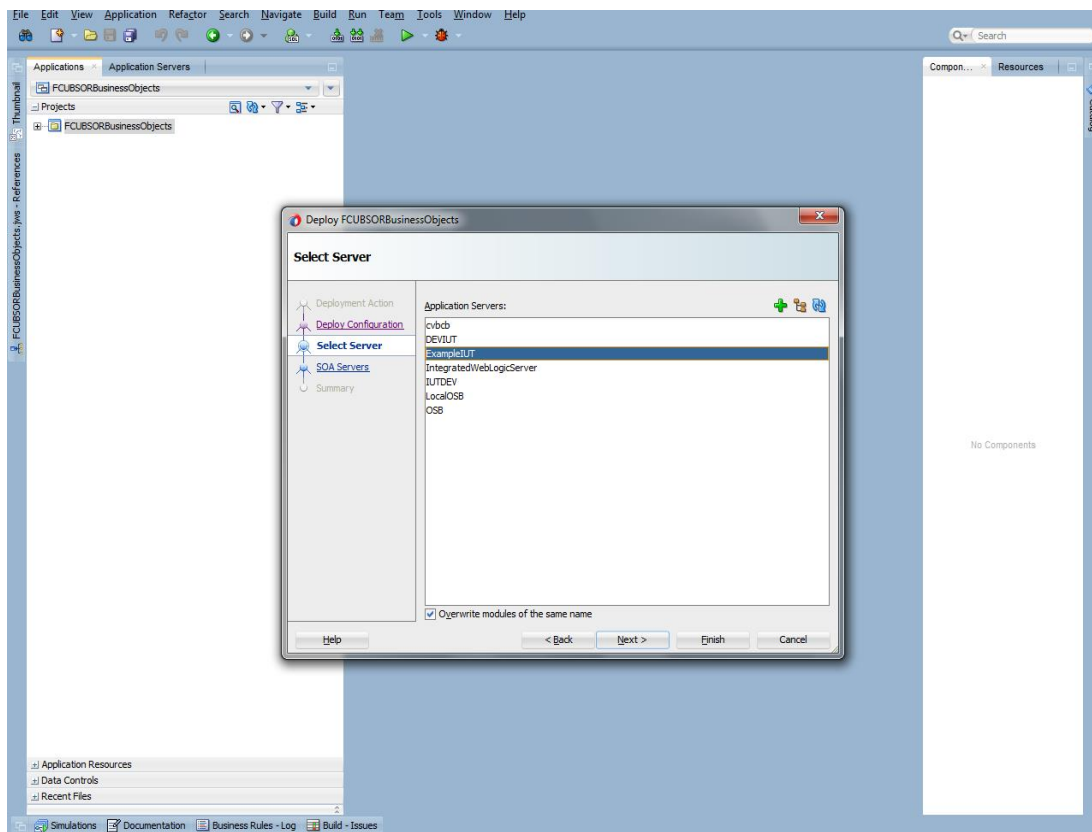
### 9.2 Deploying the Application

- Load the MDS Application(FCUBSORBusinessObjects,FCUBSORServiceObjects) in Jdeveloper
- Right click on the “Application” tab in the Jdeveloper
- Select ‘Deploy’ and then click on the default deployment profile which is the same as the application name.
- This will result in the deployment wizard screen being launched.

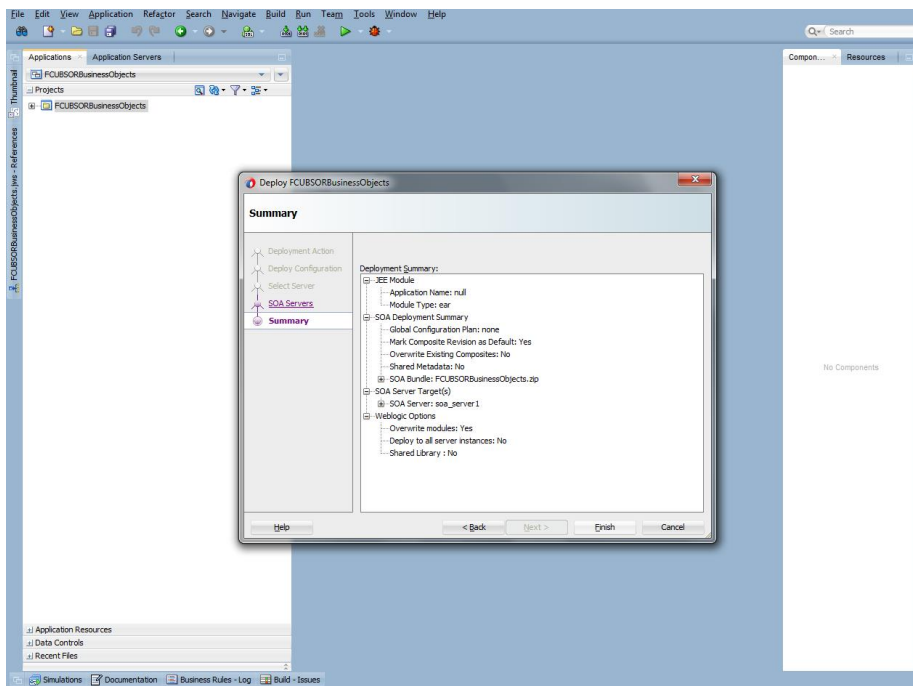
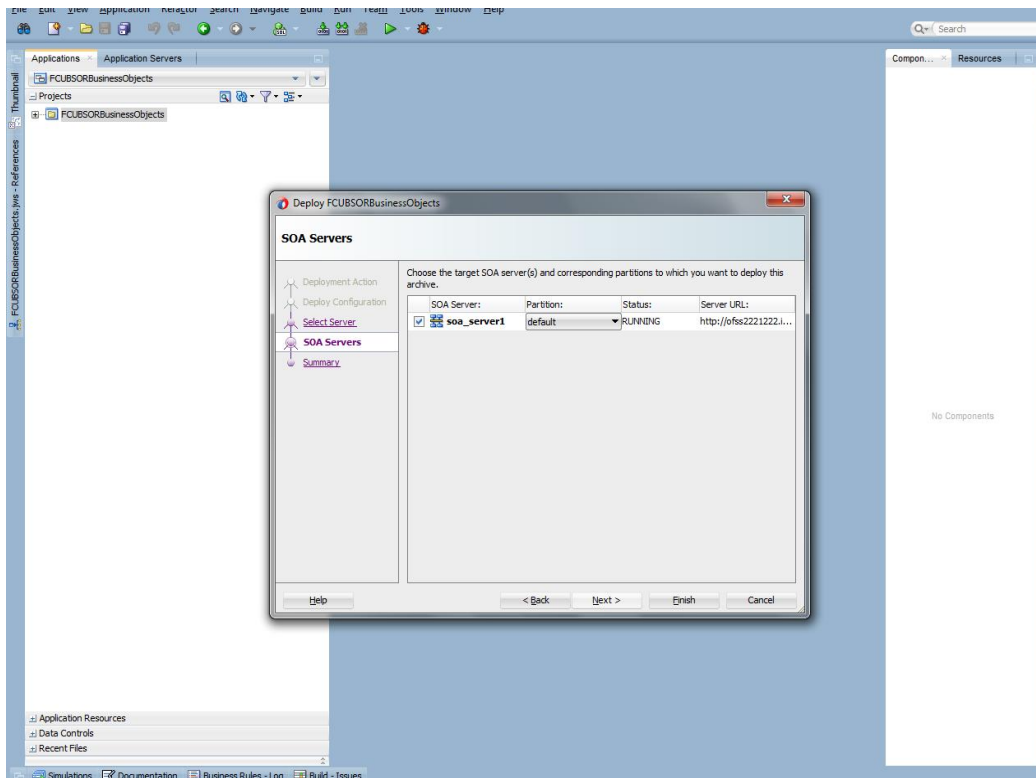


- In deployment action screen choose Deploy to Application Server.
- Click Next→Next to proceed with deployment.

- Select the Application Server to which the MDS Application Needs to Deploy.

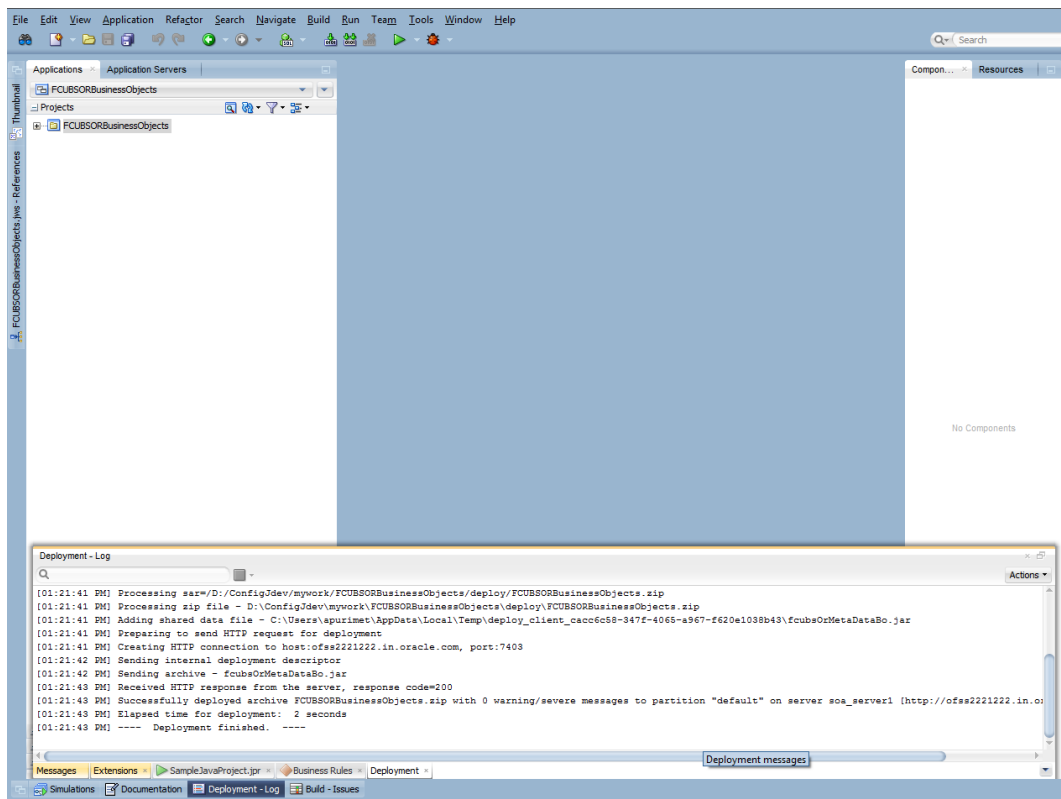


- Click Next and Finish buttons on the deployment wizard after selecting application server.



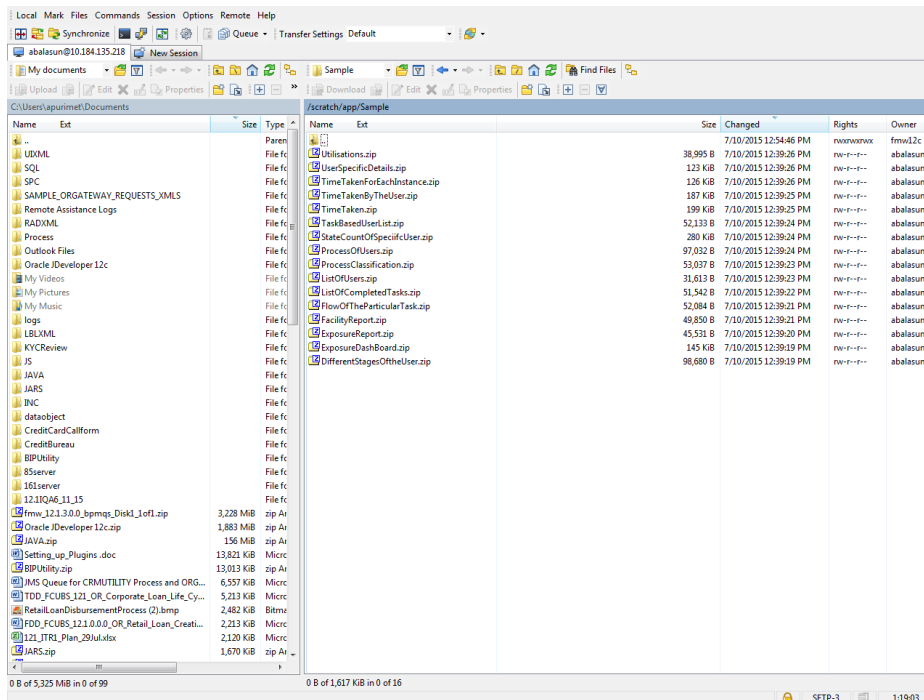
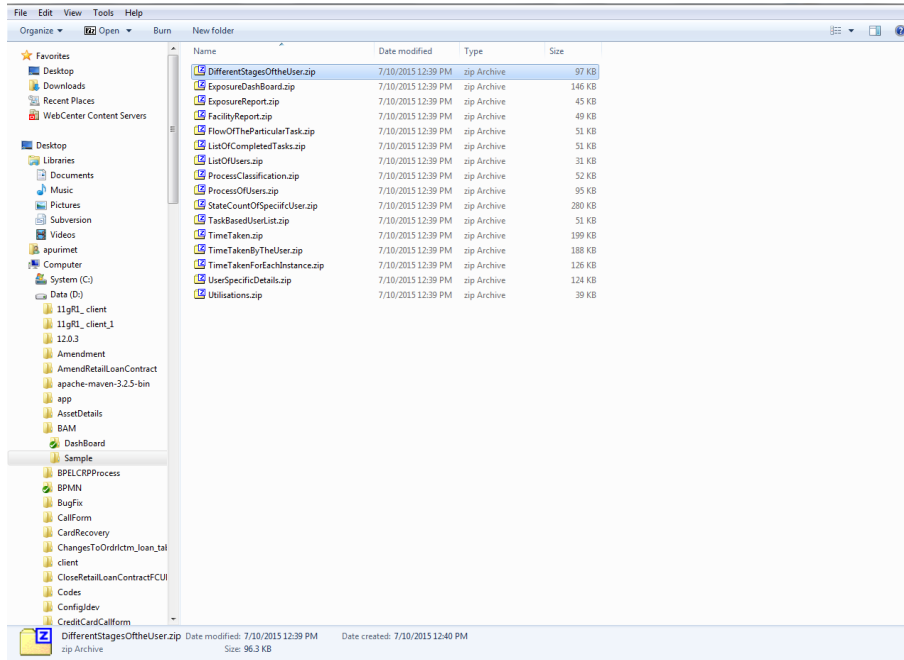


- Review the deployment log to see successfully deployed message as below



## 10. Deployment and configuration of Oracle BAM Reports

Copy the BAM Dashboards Units (.Zip) from /SOFT/MAIN/OR/Process\_infra/Reports/BAM to server location.



Configure the BAM server location, port username and password in BAMCommandConfig.xml. It is available in MIDDLEWARE\_HOME\soa\bam\bin\BAMCommandConfig.xml

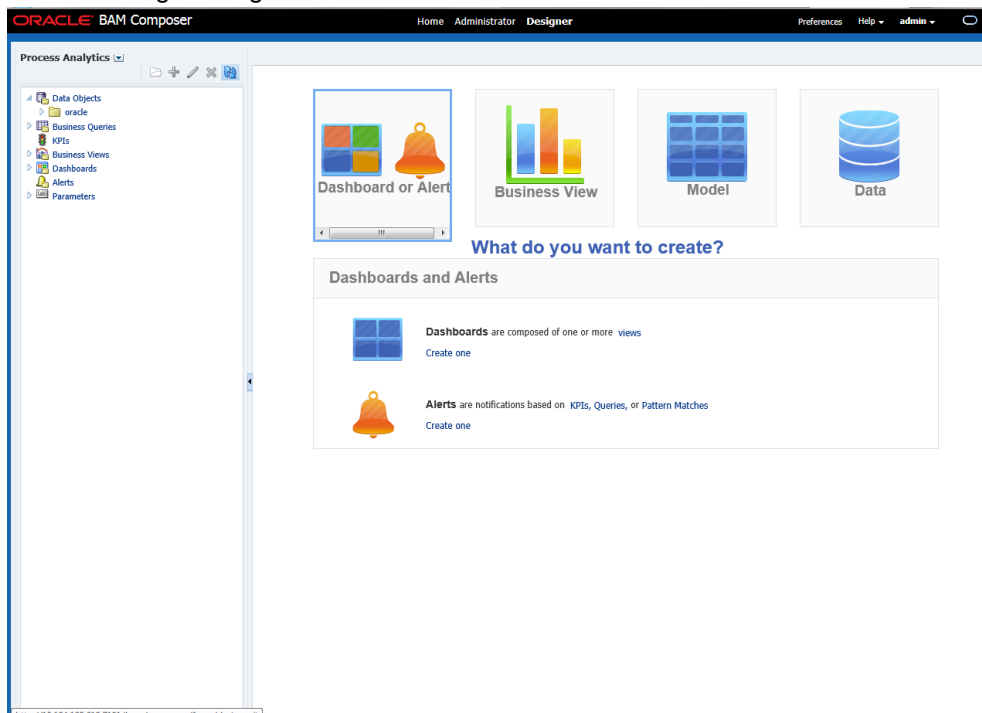
**Example:**

```

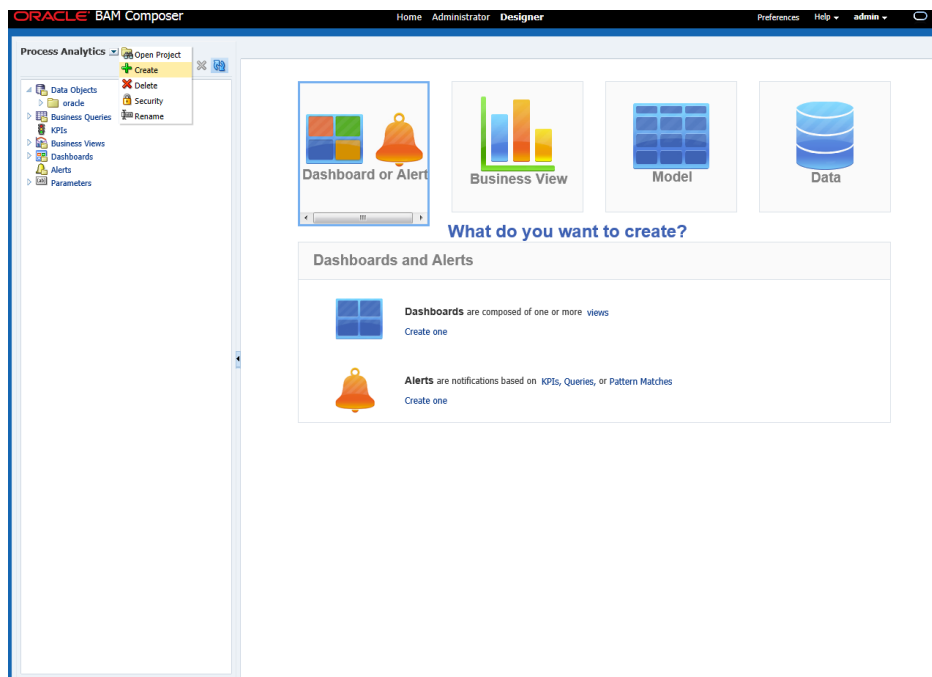
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<BAMCommandConfig>
 <host>of52221222</host>
 <port>7404</port>
 <username>weblogic</username>
 <password>V2op1Se+pf0h2obpazxswmxyk6jxvqt8qvCu85pv1QnkpxfP1ux3c3EgrmV1z</password>
 <dbuser>DEV12_SOAINFRA</dbuser>
 <dburl>jdbc:oracle:thin:@10ca1host:1521:xe</dburl>
</BAMCommandConfig>

```

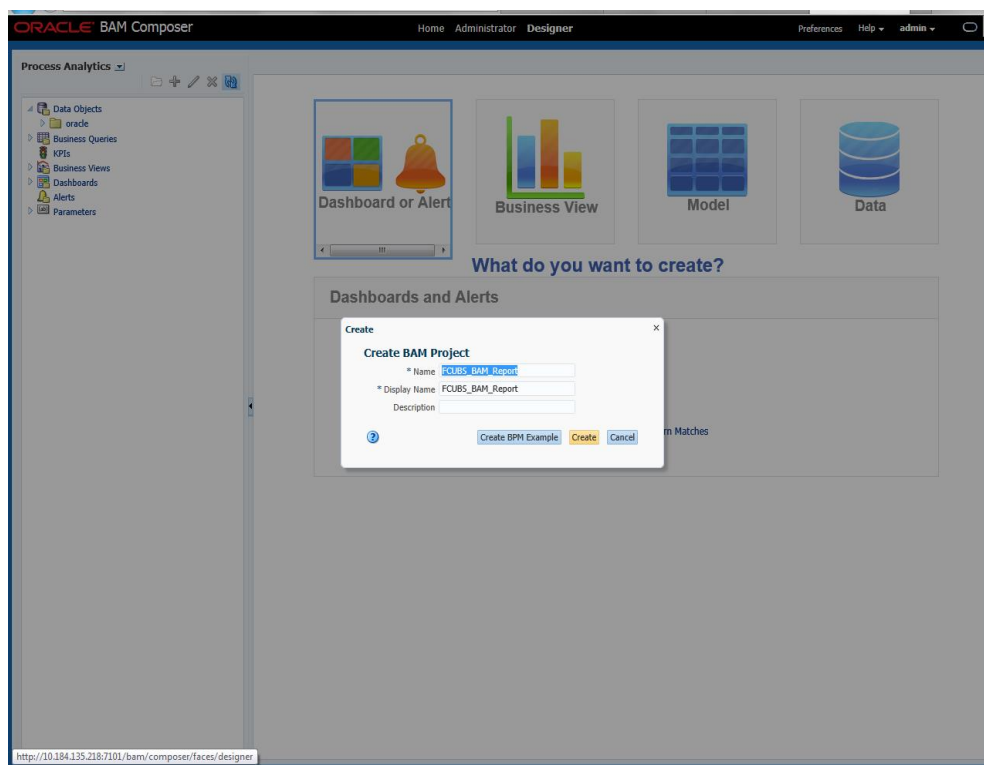
- 1) Login to BAM Composer. (<http://hostname:BAMserverPort/bam/composer>).
- 2) Go the Designer Page.

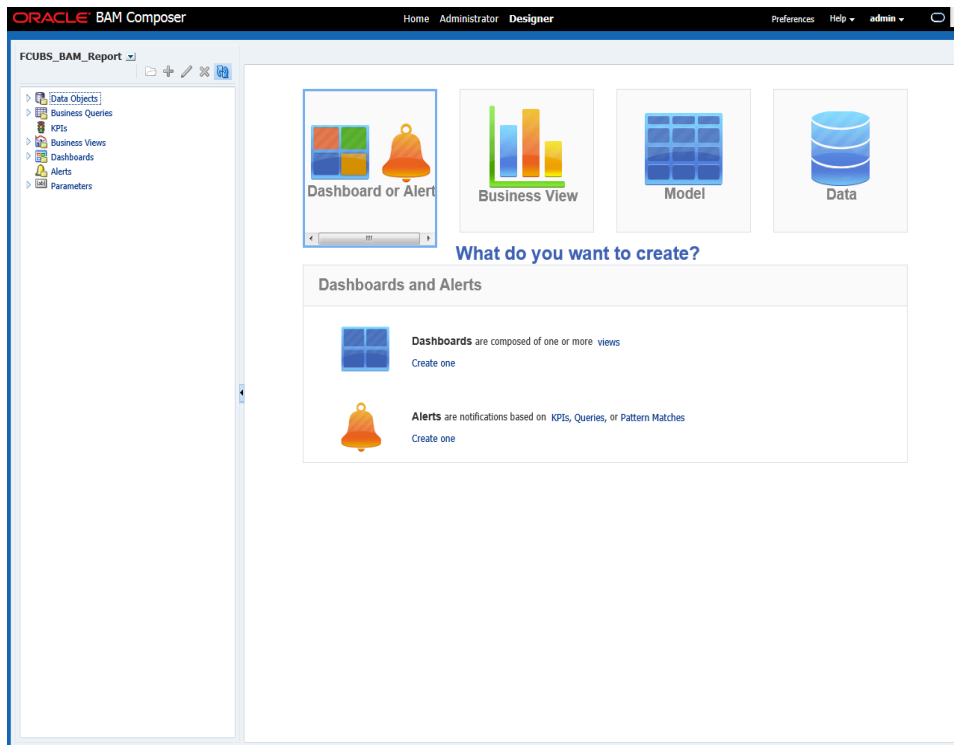


Click on create.



- Enter the Name and Display Name as **FCIS\_BAM\_Report** and click on Create button





- Set proper JAVA\_HOME.

```
bash-4.1$ export JAVA_HOME=/usr/java/jdk1.7.0_60
bash-4.1$ e
```

- Execute the Below BAM Command to import the Dash Board in to the server.

**./bamcommand -cmd import -mode overwrite -name "FCUBS\_BAM\_Report/DifferentStagesOftheUser" -type dashboard -file "/scratch/app/Sample/DifferentStagesOftheUser.zip" from the below path MIDDLEWARE\_HOME\soa\bam\bin.**



FCIS Process Flow Deployment  
[May] [2022]  
Version 14.5.4.0.0

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