

FCUBS Process Flow Deployment
Oracle FLEXCUBE Universal Banking
Release 14.0.0.0.0
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1. Introduction

1.1 Background

This document provides detailed description on deploying FCUBS 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 FCUBS 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

Acronyms	Description
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. E.g. (Oracle SOA suite – 12.2.1+ Oracle JDeveloper 12.2.1). 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>

<https://edelivery.oracle.com/osdc/faces/SearchSoftware>

Run fmw_12.2.1.2.0_bpm_quickstart.jar to install jdeveloper with bpm enabled.

3. Creating Application server connection

3.1 Introduction

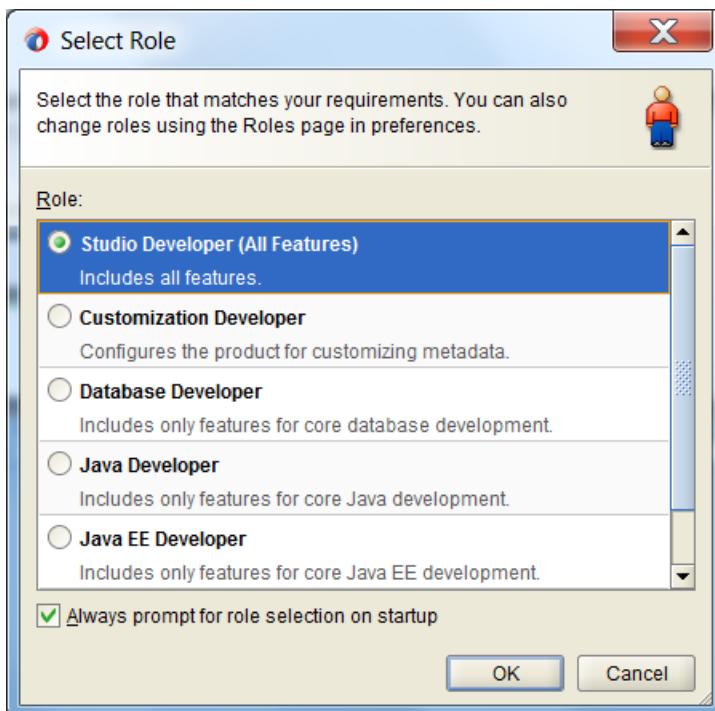
Oracle JDeveloper supports deployment of BPEL process flows to WebLogic application servers via JDeveloper application server connection.

3.2 Application Sever Connection

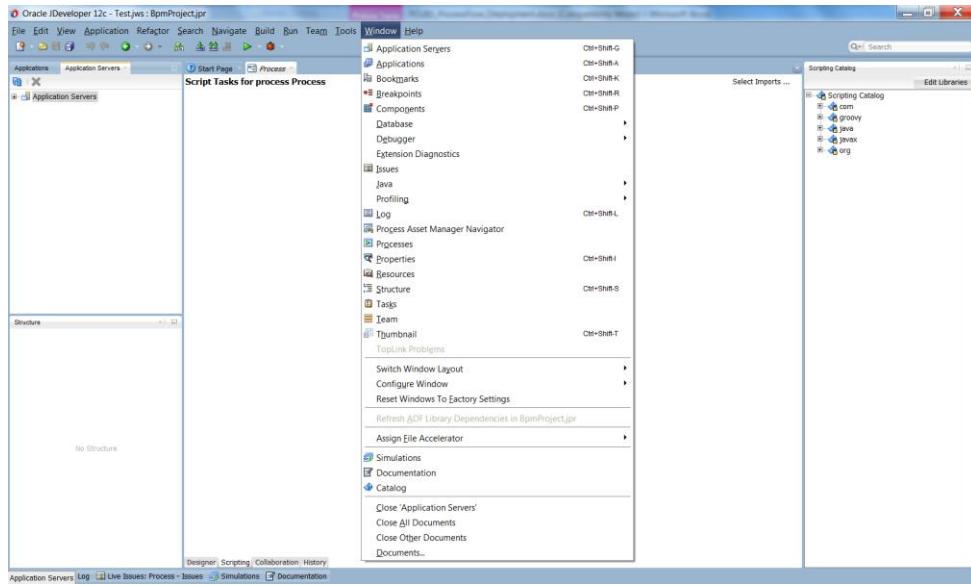
After JDeveloper has been updated with SOA extension, The IDE can be launched from 'Programs' menu or installation location.

Search 'Oracle JDeveloper Studio' in All Programs to launch JDeveloper

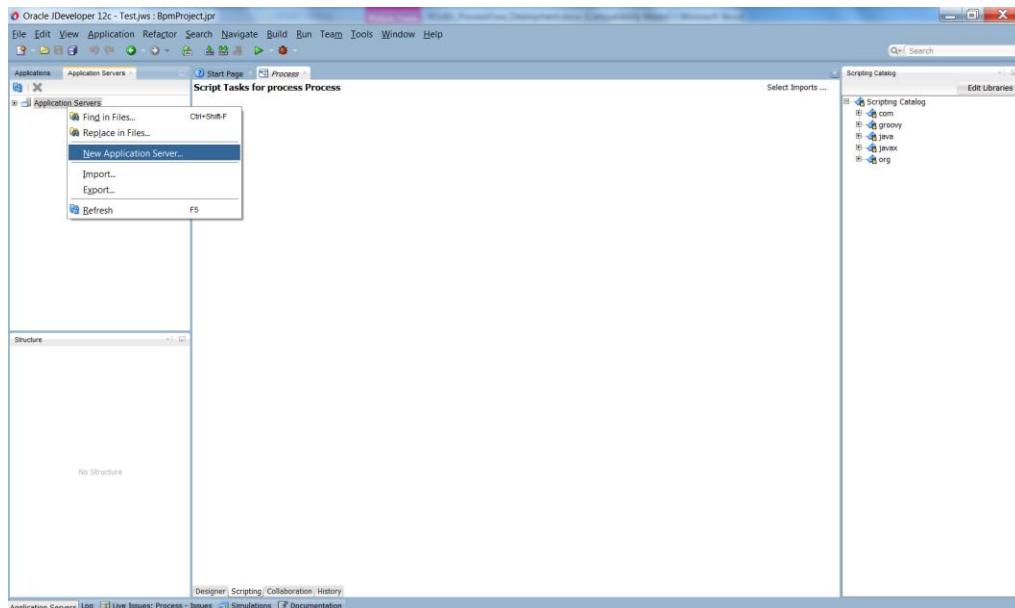
Select the role as Studio Developer



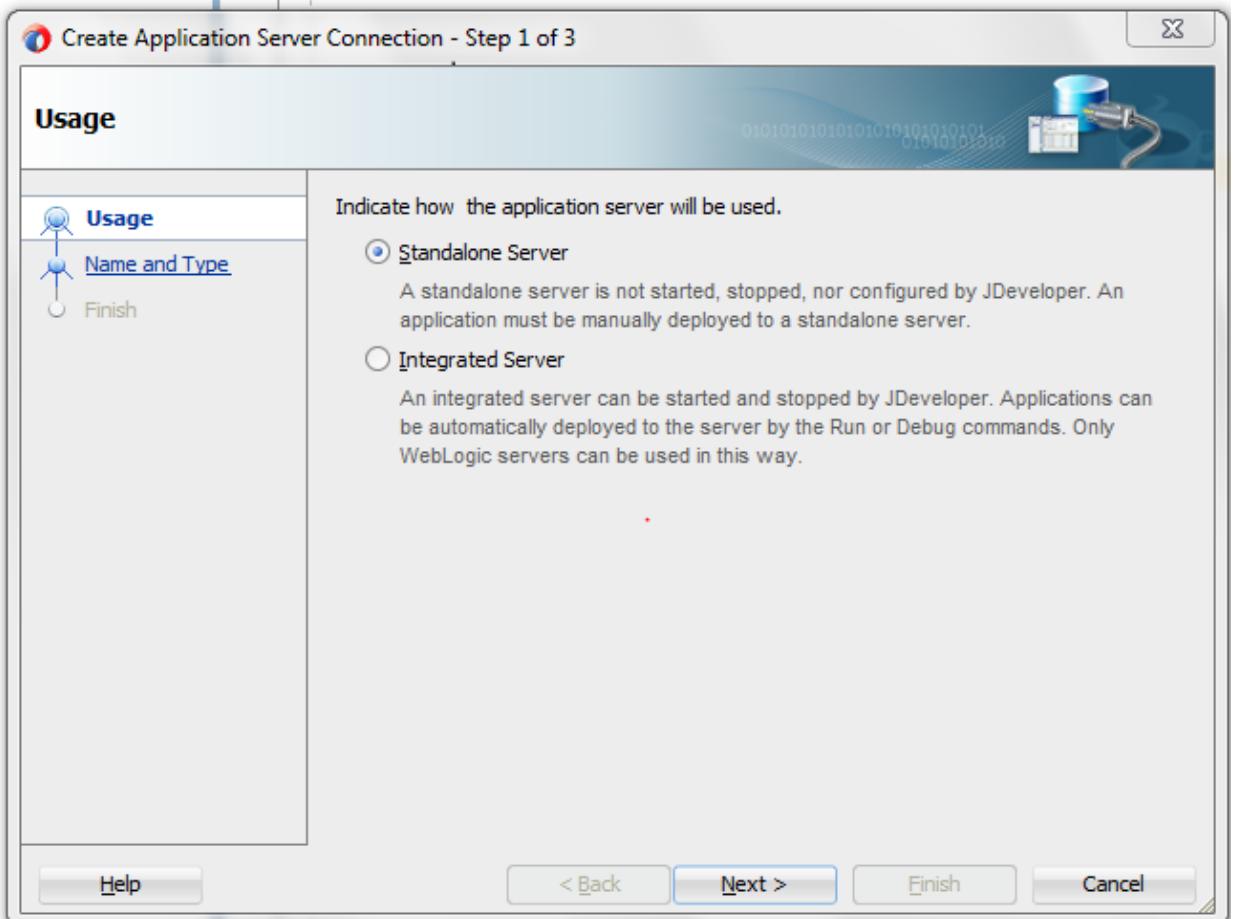
- After JDeveloper is launched
 - Click on → windows → Application Servers Navigator



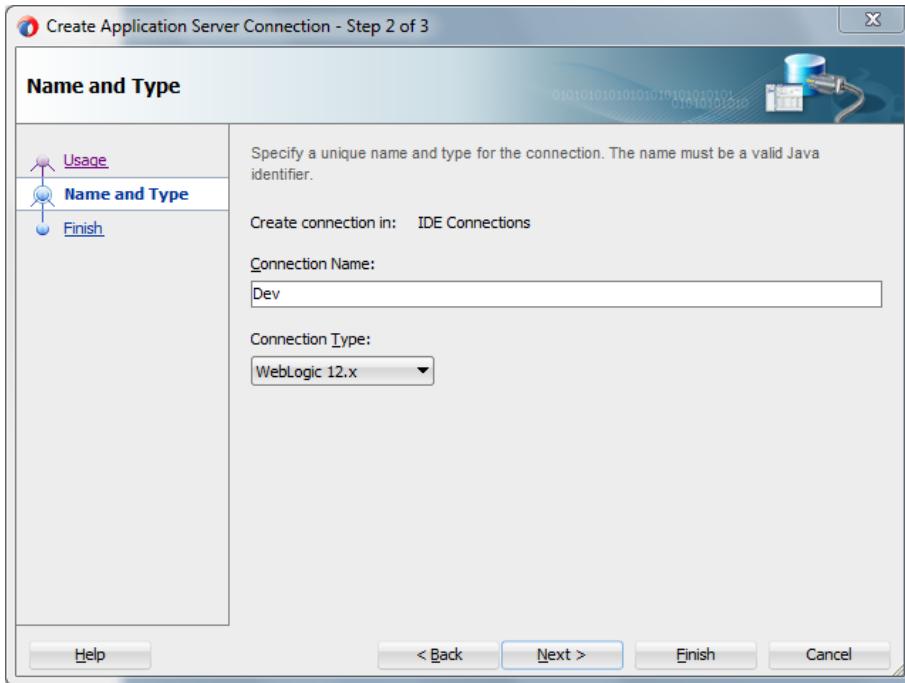
- To create a new WebLogic server connection
 - Right click ‘Application Servers’
 - Click on → New Application Server



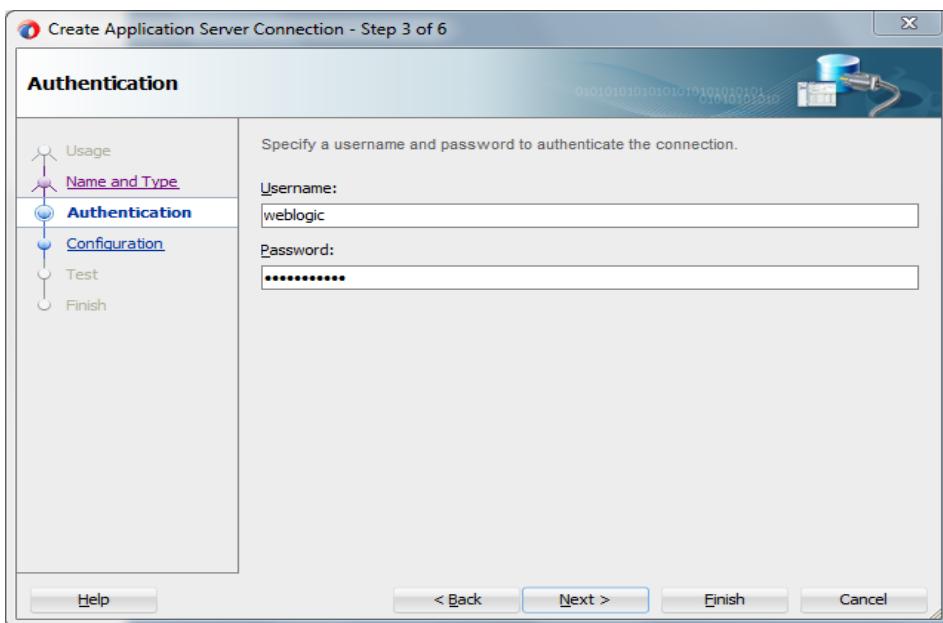
- The “Create Application Server Connection” wizard is launched as shown below.
 - Select the Radio button “Standalone Server”
 - Click “Next” to proceed with the configuration



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

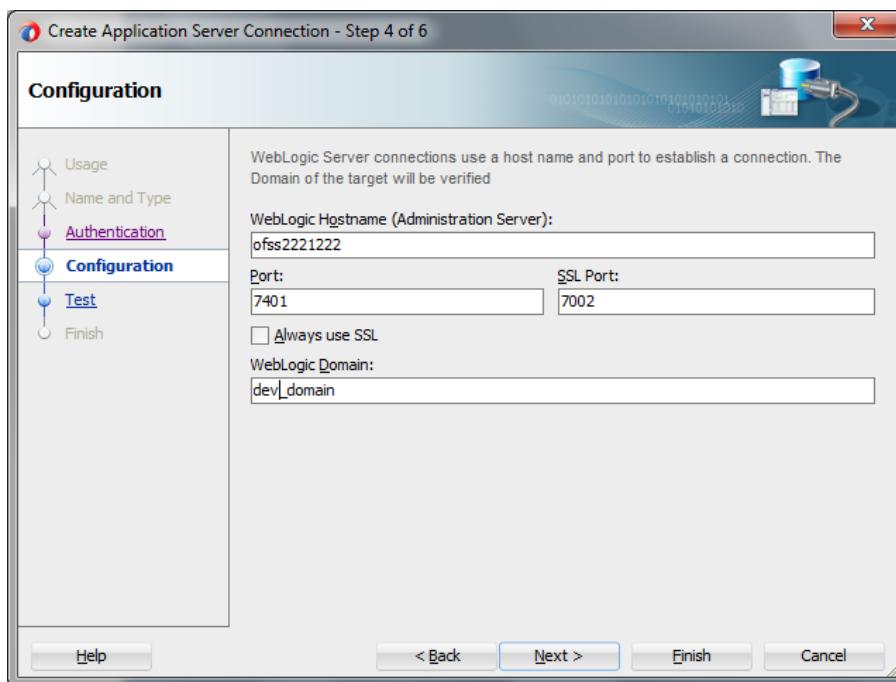


- Provide username / password to connect to the server
 - The same username / password that was used while configuring the server is used.
- Click “Next” to proceed with the configuration

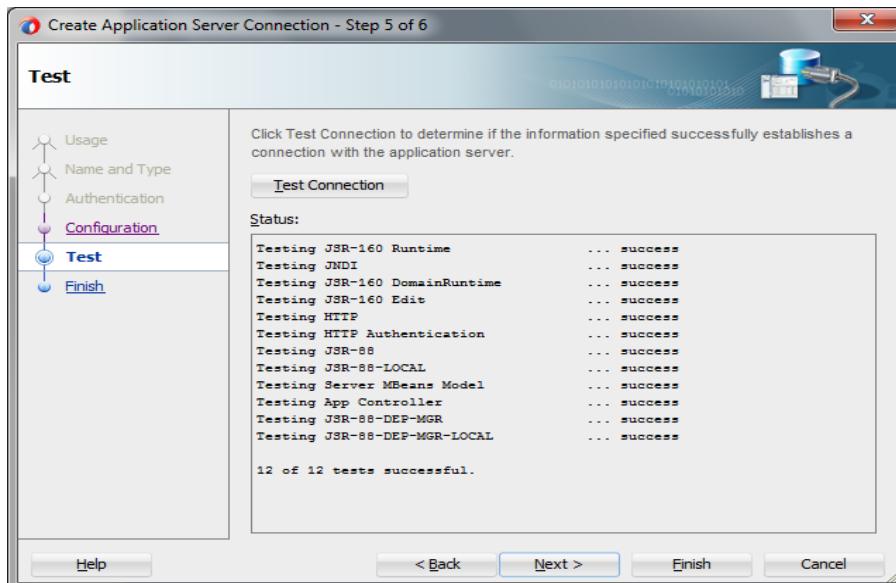


- Provide the WebLogic server hostname and the port number of the Admin server.
- Provide the domain name under which the server has been configured.
- Click “Next” to proceed with the configuration

ORACLE®



- 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 FCUBS Process flows in Oracle JDeveloper

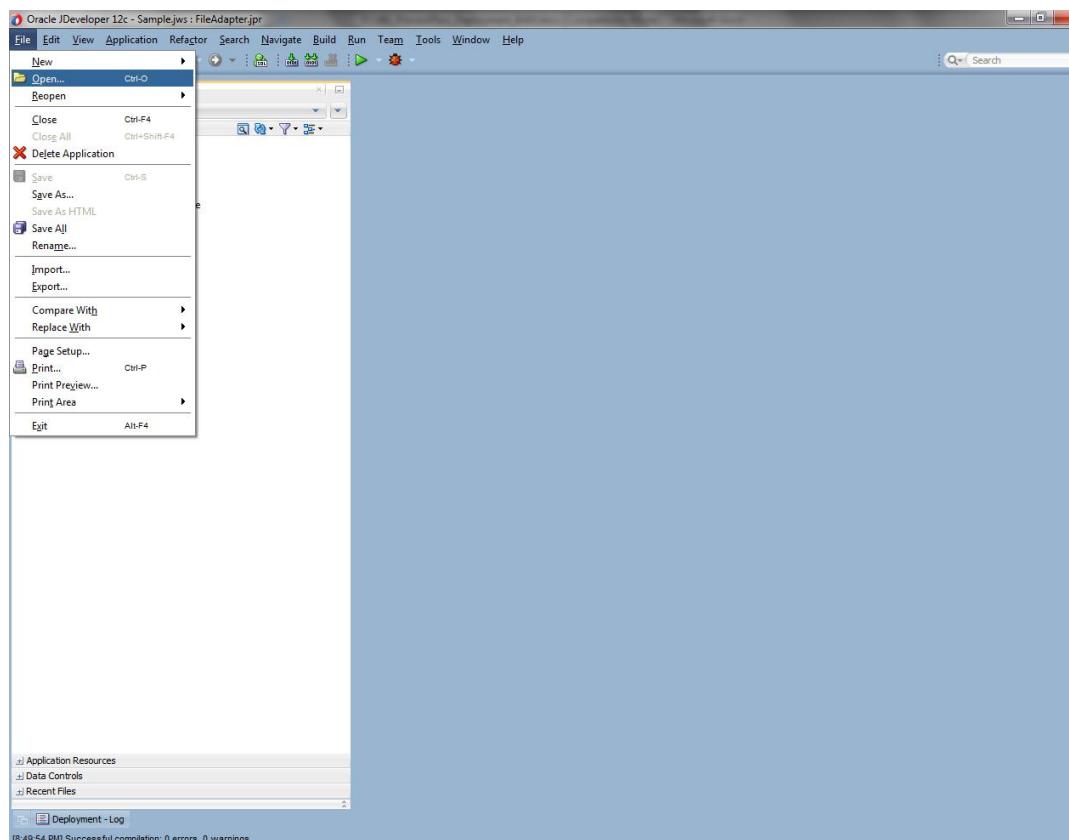
4.1 Introduction

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

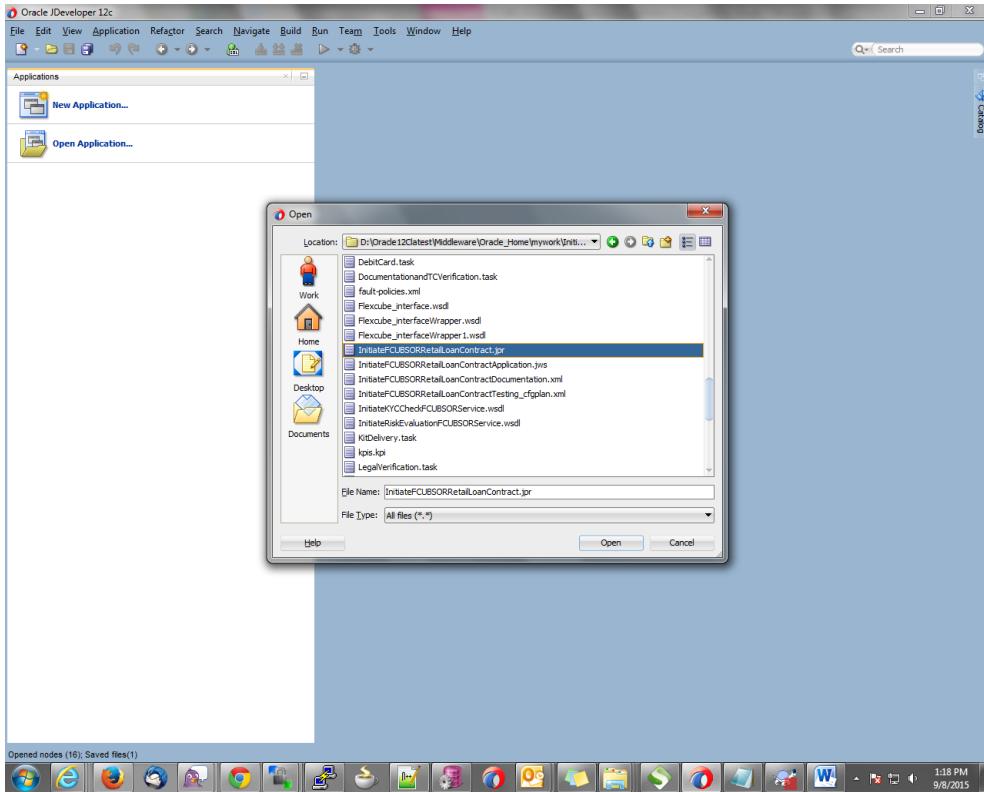
4.2 Loading the Process

After JDeveloper IDE is launched from ‘Programs’ menu or installation location.

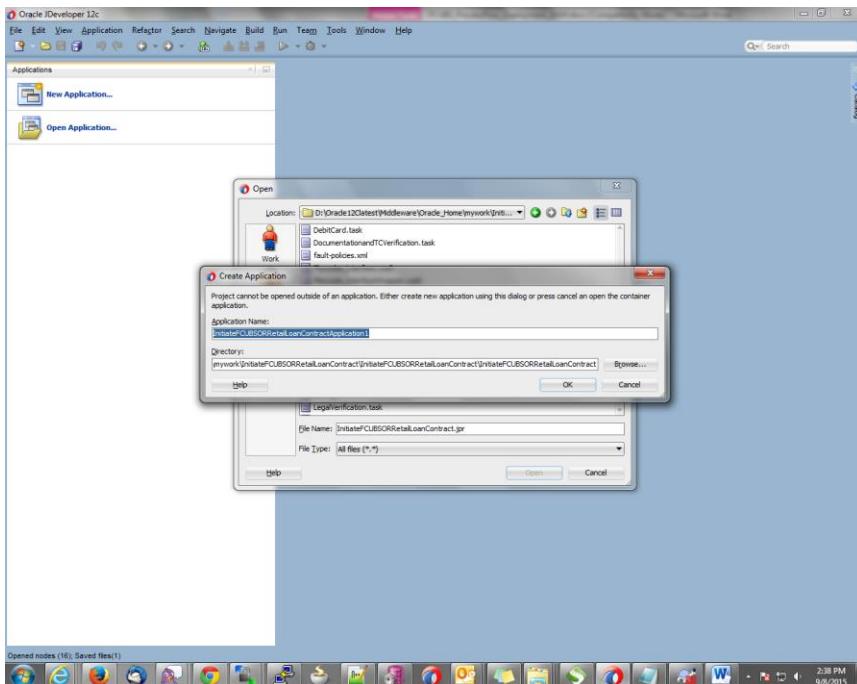
- Click on → File → Open



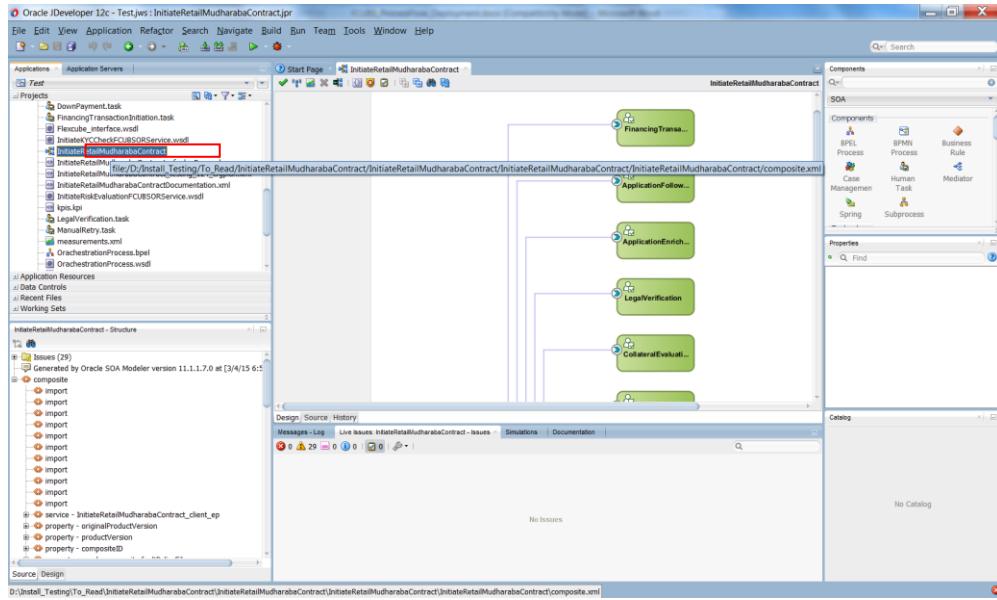
- Navigate to the folder where process flow is deployed
- Locate and select the “.jpr” file under the folder <process_name>
- Click ‘Open’ to load the process flow in JDeveloper



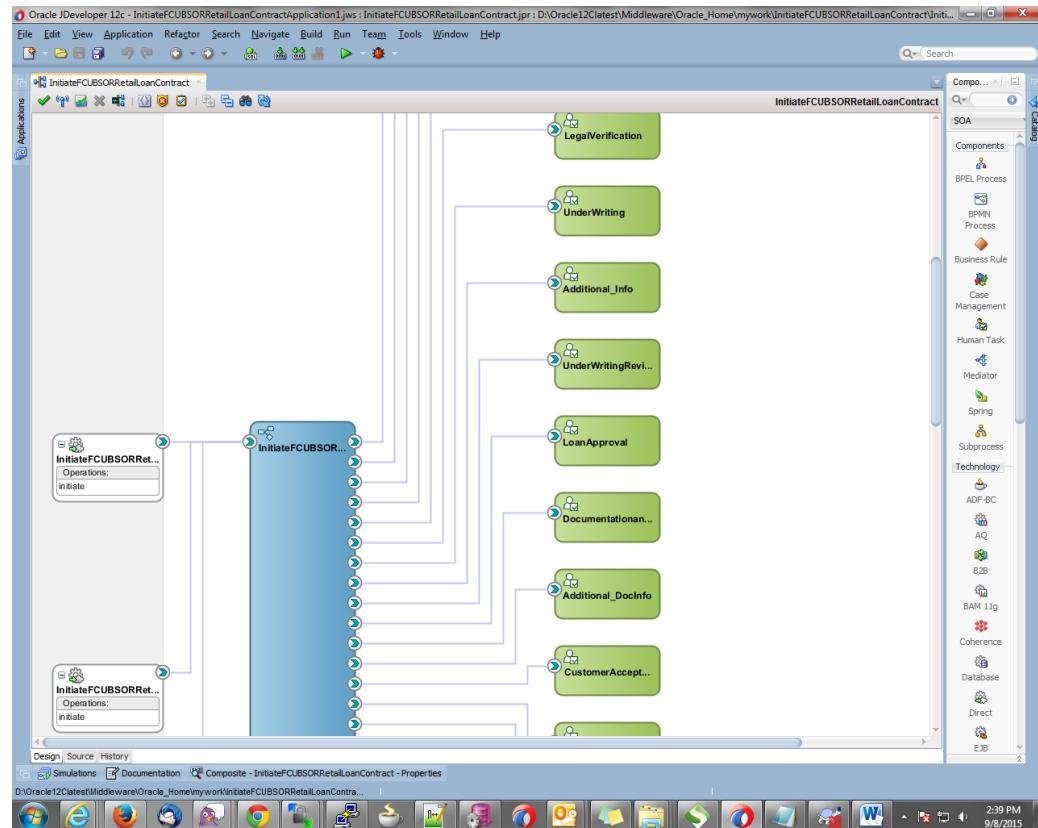
- If this is the first Process flow that is being loaded JDeveloper will prompt for an Application Name and Location where the application file will be stored
- Provide an application name and folder path for the same.
- Click in “Ok” to proceed with loading of the process flow.



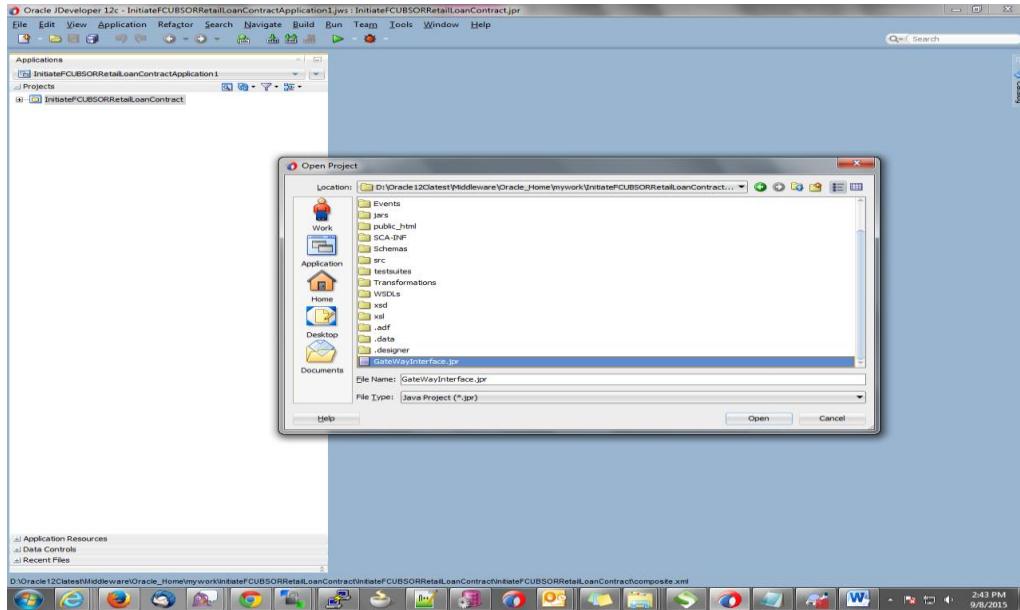
- The process flow is loaded into JDeveloper and is displayed as given below
- Expand the project loaded and click on the composite.xml



- Clicking on the “composite.xml” under “SOA” 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).

To obtain the runtime wsdl, em console has to be launched and input the user name and password for the SOA Domain.

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>

This opens the application as in the below screenshot. Now, click on Target Navigation (highlighted in the below screenshot)

Name	Status	Cluster	Machine	State	Health	Listen Port	CPU Usage (%)	Heap Usage (MB)
AdminServer(admin)	▲			Running	OK	7040	0.14	1,102.33
soa_server1	▲		Machine1	Running	OK	7043	1.68	1,161.90

Upon opening the Target Navigation, user is presented with the below set of screens in sequence before getting the WSDL

Click on SOA

	Status	Cluster	Machine	State	Health	Listen Port	CPU Usage (%)	Heap Usage (MB)
dmin	▲			Running	OK	7040	3.85	1,251.38
soa_server1	▲		Machine1	Running	OK	7043	2.55	1,336.81

Click on the Target SOA server

Move to deployed composites, click on the corresponding utility/ sub process

Composite	SOA Folder	Status	Mode	Deployed
OpenCurrentAccount [3.0]	default	Active		Oct 13, 2017 12:05:2...
ORGatewayService [1.8]	default	Active		Sep 27, 2017 9:07:04...
ORGatewayService [1.7]	default	Retired		Sep 27, 2017 9:23:30...
InitiateRetailLoanContractCUBSORService [2.0]	default	Active		Sep 6, 2017 4:24:39 PM
OpenSavingsAccount [3.0]	default	Active		Aug 30, 2017 4:50:46...
OpenCurrentAccount [2.0]	default	Retired		Aug 9, 2017 1:16:48 PM
ORGatewayService [1.4]	default	Retired		Jul 7, 2017 8:28:24 PM
InitiateCUBSORRetailLoanContract [1.0]	default	Active		Jun 16, 2017 4:12:47...
CreateCorporateCustomer [1.0]	default	Active		Jun 13, 2017 2:27:59...
TermDepositForClosure [1.0]	default	Retired		Jun 13, 2017 2:24:40...
OpenRetailTermDeposit [1.0]	default	Active		Jun 13, 2017 2:18:07...
InitiateCorpAshaRakaContract [9.0]	default	Active		May 18, 2017 2:50:23...
CRPProcess [1.0]	default	Active		May 12, 2017 10:26:3...
COLLATProcess [1.0]	default	Active		May 12, 2017 10:23:3...
BPELCRPPProcess [3.0]	default	Active		May 12, 2017 10:19:0...
BPELCRPPProcess [2.0]	default	Active		May 11, 2017 7:15:45...
BPELCOLLATProcess [2.0]	default	Active		May 11, 2017 7:07:07...
BPELCRPPProcess [1.0]	default	Active		May 11, 2017 6:59:01...
BPELCOLLATProcess [1.0]	default	Active		May 11, 2017 6:34:57...
InitiateRetailMurabahContract [6.0]	default	Active		Apr 26, 2017 4:01:33...
InitiateRetailJanraContract [3.0]	default	Active		Apr 25, 2017 12:07:1...
InitiateCorporationsContract [1.0]	default	Active		Apr 18, 2017 11:06:17...

10.184.133.180:7040/em/faces/ui/soa/infra?type=oracle_soainfra&target=%2FDomain_soa_domain%2Fsoa_domain%2Fsoa_server1%2Fsoa-infra#

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 wsdl is required and click on Test.

The screenshot shows the Oracle Enterprise Manager Fusion Middleware Control 12c interface. The main title is "BPELLimitReview [1.0]". The top navigation bar includes "WebLogic Domain", "SOA Infrastructure", "weblogic", and a date/time stamp "Mar 29, 2016 3:55:20 PM IST". Below the title, there are tabs: Active, Retire..., Shut Down..., Test, Settings..., and a search icon. The "Test Service" tab is selected. Other tabs include Dashboard, Composite Definition, Flow Insta, Tests, and Policies.

Components

Name	Component Type
ICDMediatorProcess	BPEL
CreditApproval	Human Workflow
ExternalCreditRating	Human Workflow
DecisionProcess	BPEL
BPELLimitReviewProcess	BPEL
ManualRetry	Human Workflow
LimitReviewInitiationTask	Human Workflow
PendingWithCustomer	Human Workflow
CreditDecision	Human Workflow

Services and References

Name	Type	Usage	Total Messages	Average Processing Time (sec)
icdmediatorprocess_client_ep	Web Service	Service	0	0.000
BPELLimitReview_client_ep	Direct Binding	Service	0	0.000
DuplicateLimitReviewTaskChecker	JCA Adapter	Reference	0	0.000
ExternalRatingService	Web Service	Reference	0	0.000
LimitsHandoff	Web Service	Reference	0	0.000
CustomerCommunicationService	Web Service	Reference	0	0.000

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

The screenshot shows the Oracle Enterprise Manager Fusion Middleware Control 12c interface. The top navigation bar includes 'WebLogic Domain', 'SOA Infrastructure', and 'weblogic'. The main content area is titled 'Test Web Service' for the 'BPELLimitReview [1.0]' composite. It provides instructions for testing WSDL or WADL. The 'Service' dropdown is set to 'icdmediatorprocess_client_ep', 'Port' to 'ICDMediatorProcess_pt', and 'Operation' to 'process'. The 'Endpoint URL' is listed as <http://ofss220216.in.oracle.com:7403/soa-infra/services/default/BPELLimitReview/icdmediatorprocess>. Below the endpoint URL, there are tabs for 'Request' and 'Response'. Under 'Request', there are sections for 'Security', 'Quality of Service', 'HTTP Header', 'Additional Test Options', and 'Input Arguments'. The 'Input Arguments' section shows a table with one row: Name (* payload), Type (payload), and Value (empty). The 'SOAP Body' section also shows a table with one row: Name (* payload), Type (payload), and Value (empty). The 'View' dropdown is set to 'Tree View'.

- Now we replace this runtime wsdl in the composite.xml of the process as shown in the screen shot for that particular subprocess. Click on the source tab(highlighted in the screenshot) to view the xml code of the process

```
File Edit View Application Refactor Search Navigate Build Run Source Team Tools Window Help
Search
InitiateFCUBSORRetailLoanContract.jws : InitiateFCUBSORRetailLoanContract.jpr : D:\Oracle12C\latest\Middleware\Oracle_Home\mywork\InitiateFCUBSORRetailLoanContract\Init...
Applications
Find
Compose XML
#data-se...
#comment
#processin...
#text
e.wsdl">
m:com/sca/soapservice/Flexcube_interface#wsdl.interface(initiate_ptt)"/>
com.com/sca/soapservice/Flexcube_interface)InitiateFCUBSORRetailLoanContract_client_ep

le.com/sca/soapservice/Flexcube_interface#wsdl.endpoint(COLLATProcess_client_ep/initiate_ptt)_location="""/>

service"
ionFCUBSORService.wsdl">
cle.com/SendMailNotificationFCUBSORService/SendMailNotificationFCUBSORService/SendMailNotificationFCUBSORService#wsdl.interface(SendMailNotificationFC
endMailNotificationFCUBSORService/SendMailNotificationFCUBSORService/SendMailNotificationFCUBSORService#wsdl.endpoint(SendMailNotificationFCUBSORServ
er.wsdl">
cle.com/LNLatestBureau/CreditBureauHandler/CreditBureauHandler#wsdl.interface(CreditBureauHandler)"/>
NLLatestBureau/CreditBureauHandler/CreditBureauHandler#wsdl.endpoint(creditbureauhandler_client_ep/CreditBureauHandler_pt)_location="""/>

CUBSORService.wsdl">
cle.com/SubProcess/InitiateKYCCheckFCUBSORService/InitiateKYCCheckFCUBSORService#wsdl.interface(InitiateKYCCheckFCUBSORService)"/>
ubProcess/InitiateKYCCheckFCUBSORService/InitiateKYCCheckFCUBSORService#wsdl.endpoint(initiatekyccheckfcubrorservice_client_ep/InitiateKYCCheckFCUBSOR
actionFCUBSORService.wsdl">
cle.com/SubProcess/InitiateRiskEvaluationFCUBSORService/InitiateRiskEvaluationFCUBSORService#wsdl.interface(InitiateRiskEvaluationFCUBSORService)"/>
ubProcess/InitiateRiskEvaluationFCUBSORService/InitiateRiskEvaluationFCUBSORService#wsdl.endpoint(initiatiriskevaluationfcubrorservice_client_ep/Initi
cation="BIFUtility.wsdl">
cle.com/BIFUtility#wsdl.interface(BIFUtility)"/>
mins.oracle.com/BIFUtility#wsdl.interface(BIFUtilityCallback)"/>
BIFUtility#wsdl.endpoint(BIFUtility/BIFUtility)_location="http://ofss9221222.in.oracle.com:7403/soa-infra/services/default/BIFUtility/client?NSD"/>
/BIFUtility#wsdl.endpoint(BIFUtility/BIFUtilityCallback_pt)"/>

ct_clientAdf</source.uri>
ct/References.Externals.InitiateFCUBSORRetailLoanContract_client_ep.service</target.uri>

ct/HumanTasks.ApplicationEntry.reference</source.uri>
arget.uri>
```

5. Deployment Profile and Configuration Plan

5.1 Introduction

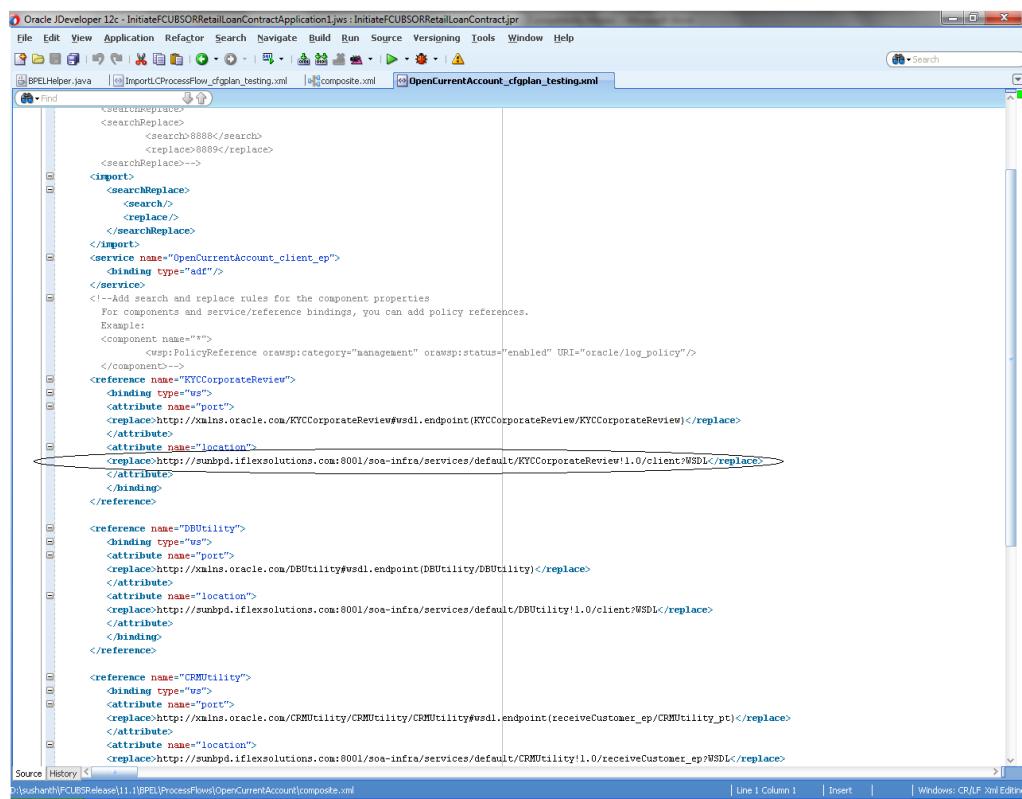
A deployment profile is automatically created for all FCUBS Process flows. The application profile includes the JAR files of SOA projects.

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 the configuration plan

All the FCUBS 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 that there are no replacement values that needs to be replaced in the project and that project can be deployed without any config plans.

Expand the Application -> SOA -> <processflow_name>_cfgplan_dev.xml



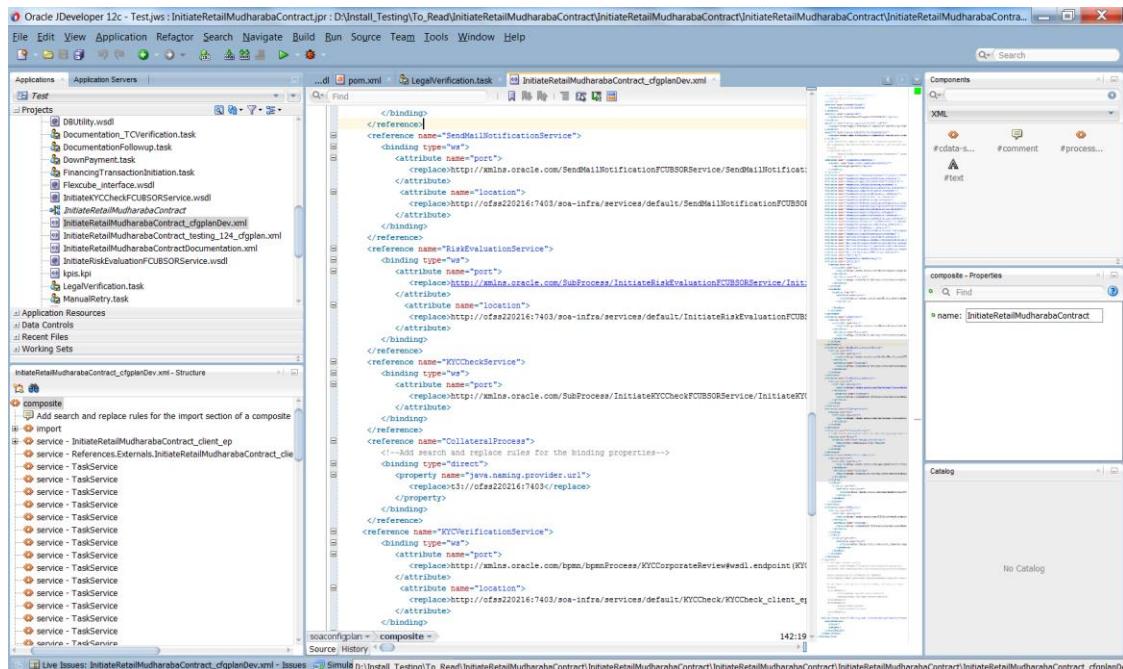
```
<?xml version="1.0" encoding="UTF-8"?>
<!-- This file contains the configuration plan for the component properties. -->
<!-- Add search and replace rules for the component properties -->
<!-- For components and service/reference bindings, you can add policy references. -->
<!-- Example: -->
<!--<component name="#">
    <!--<PolicyReference orawsp:category="management" orawsp:status="enabled" URI="oracle/log_policy"/>
--></component>-->
<!--<reference name="KYCCorporateReview">
    <!--<binding type="ws">
        <!--<attribute name="port">
            <!--<replace>http://xmlns.oracle.com/KYCCorporateReview#wsdl.endpoint(KYCCorporateReview/KYCCorporateReview)</replace>
        </attribute>
        <!--<attribute name="location">
            <!--<replace>http://subpd.iflexsolutions.com:8001/soa-infra/services/default/KYCCorporateReview!1.0/client?WSDL</replace>
        </attribute>
        </binding>
    </reference>
-->
<!--<reference name="DBUtility">
    <!--<binding type="ws">
        <!--<attribute name="port">
            <!--<replace>http://xmlns.oracle.com/DBUtility#wsdl.endpoint(DBUtility/DBUtility)</replace>
        </attribute>
        <!--<attribute name="location">
            <!--<replace>http://subpd.iflexsolutions.com:8001/soa-infra/services/default/DBUtility!1.0/client?WSDL</replace>
        </attribute>
        </binding>
    </reference>
-->
<!--<reference name="CRMUtility">
    <!--<binding type="ws">
        <!--<attribute name="port">
            <!--<replace>http://xmlns.oracle.com/CRMUtility/CRMUtility#wsdl.endpoint(receiveCustomer_ep/CRMUtility_pt)</replace>
        </attribute>
        <!--<attribute name="location">
            <!--<replace>http://subpd.iflexsolutions.com:8001/soa-infra/services/default/CRMUtility!1.0/receiveCustomer_ep?WSDL</replace>
        </attribute>
    </binding>
-->
<!--<reference name="DBUtility">
    <!--<binding type="ws">
        <!--<attribute name="port">
            <!--<replace>http://subpd.iflexsolutions.com:8001/soa-infra/services/default/DBUtility!1.0/client?WSDL</replace>
        </attribute>
        </binding>
    </reference>
-->
```

In the configuration plan we need to give the latest runtime wsdl location of the subprocesses 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 Config plan changes for BIPUtility process.

Open the BIPUtility_cfgplan.xml and copy corresponding values for the below mentioned properties from fcubs.property file.

Config_plan property	fcubs.properties
----------------------	------------------

bpel.preference.BIUSERID	BI_USER
bpel.preference.BIPWD	BI_PASSWORD
bpel.preference.DOCPATH	BPEL_DOC_PATH
bpel.preference.SYMKEY	SYMMETRIC_KEY
bpel.preference.ENTITYENABLED	'Y' to enable entity OR 'N' to disable entity
bpel.preference.DATASOURCE	Map the Datasource JNDI name which is mapped for entity in the property file.
bpel.preference.IPMUSERID	Enter IPM Login Username
bpel.preference.IPPPWD	Enter IPM Login Password
bpel.preference.IPMAPPLICATION	Please provide IPM application (Which will be created after login to IPM application). Eg: OFSS or FLEXCUBE
bpel.preference.IPMURL	IPM Url upto 'imaging'. Eg: http://10.184.132.159:16002/imaging

Refer sample screen shot.

```

10     <service name="client">
11         <binding type="ws">
12             <attribute name="port">
13                 <replace>http://xmlns.oracle.com/BIPUtility#wsdl.endpoint(BIPUtility/BIPUtility)</replace>
14             </attribute>
15         </binding>
16     </service>
17     <component name="BIPUtility">
18         <property name="bpel.preference.DMS">
19             <replace>FM</replace>
20         </property>
21         <property name="bpel.preference.BIUSERID">
22             <replace>M/gukt0r4u2x83x20v0QA==</replace>
23         </property>
24         <property name="bpel.preference.BIPWD">
25             <replace>M/gukt0r4uks5ebpbkgk==</replace>
26         </property>
27         <property name="bpel.preference.IPMUSERID">
28             <replace>M/gukt0r4u2x83x20v0QA==</replace>
29         </property>
30         <property name="bpel.preference.IPMFND">
31             <replace>M/gukt0r4uks5ebpbkgk==</replace>
32         </property>
33         <property name="bpel.preference.IPMAPPLICATION">
34             <replace>OFSS</replace>
35         </property>
36         <property name="bpel.preference.IBMURL">
37             <replace>http://10.184.132.159:16002/imaging</replace>
38         </property>
39         <property name="bpel.preference.DOCPATH">
40             <replace>scratch/work_area/Dev122ProjectDebugs</replace>
41         </property>
42         <property name="bpel.preference.SYMMKEY">
43             <replace>ORACLE FINANCIALSERVICES</replace>
44         </property>
45         <property name="bpel.preference.ENTITYENABLED">
46             <replace>N</replace>
47         </property>
48         <property name="bpel.preference.DATASOURCE">
49             <replace>jdbc/fcjdevDS</replace>
50         </property>
51     </component>
52     <reference name="BIPartnerLink">
53         <binding type="ws">
54             <attribute name="port">
55                 <replace>http://xmlns.oracle.com/oxp/service/v2#wsdl.endpoint(ReportService/ReportService)</replace>
56             </attribute>
57             <attribute name="location">

```

soaconfigplan > composite > component > property > replace >

Source History

5.4 Config plan changes for DBUtility process.

Open the DBUtility _cfgplan.xml and copy corresponding values for the below mentioned properties.

Config_plan property	Property Values
bpel.preference.ENTITYENABLED	'Y' to enable entity OR 'N' to disable entity
bpel.preference.DATASOURCE	Map the Datasource



	JNDI name which is mapped for entity in the property file.
--	--

Refer sample screen shot.

```

<!--Add search and replace rules for the component properties
For components and service/reference bindings, you can add policy references.
Example:
<component name="*"
    <wp:PolicyReference orawsp:category="management" orawsp:status="enabled" URI="oracle/log_policy"/>
</component>-->
<component name="DBUtility">
    <property name="bpel.preference.ENTITYENABLED">
        <replace>Y</replace>
    </property>
    <property name="bpel.preference.DATASOURCE">
        <replace>jdbc/fcjdevDS</replace>
    </property>
</component>
<!--Add search and replace rules for the reference properties
Example:
<searchReplace>
    <search>http://my-dev-server</search>
    <replace>http://my-test-server</replace>
</searchReplace>
<searchReplace>
    <search>8888
    <replace>8889</replace>
</searchReplace>
or provide a new replace value like:
<replace>http://my-new-server:8889/myservice</replace>-->
<reference name="DBInvokecomplexPayload">
    <property name="jca.retry.count">
        <replace>4</replace>
    </property>
</reference>

```

5.5 Config plan changes for Gateway process.

Open the GateWayInterface_cfgplanDev.xml and copy corresponding values for the below mentioned properties.

Config_plan property	Property Values
bpel.preference.ENTITYENABLED	'Y' to enable entity OR 'N' to disable entity

bpel.preference.DATASOURCE	Map the Datasource JNDI Name which is mapped for entity in the property file.
----------------------------	---

Refer sample screen shot.

```

<bpel>
  <replace>false</replace>
  <property name="bpel.preference.ENTITYENABLED">
    <replace>N</replace>
  </property>
  <property name="bpel.preference.DATASOURCE">
    <replace>jdbc/fcjdevDS</replace>
  </property>
  <property name="bpel.preference.USERNAME">
    <replace>BPELADMIN</replace>
  </property>
  <property name="bpel.preference.PASSWORD">
    <replace>PASSWORD</replace>
  </property>
  <property name="bpel.preference.IDENTITYCONTEXT">
    <replace>jazn.com</replace>
  </property>
  </component>
  <component name="ValidationBPELProcess">
    <property name="bpel.config.transaction">
      <replace>required</replace>
    </property>
    <property name="bpel.preference.JNDI">
      <replace>jdbc/fcjdevDS</replace>
    </property>
    <property name="bpel.preference.XSDVALIDATION">
      <replace>N</replace>
    </property>
    <property name="bpel.preference.ENTITYENABLED">
      <replace>N</replace>
    </property>
    <property name="bpel.preference.DATASOURCE">
      <replace>jdbc/fcjdevDS</replace>
    </property>
  </component>
  <component name="AlertProcessor">
    <property name="bpel.config.transaction">
      <replace>required</replace>
    </property>
    <property name="bpel.config.oneWayDeliveryPolicy">
      <replace>async.persist</replace>
    </property>
    <property name="bpel.preference.ENTITYENABLED">
      <replace>N</replace>
    </property>
    <property name="bpel.preference.DATASOURCE">
      <replace>jdbc/fcjdevDS</replace>
    </property>
  </component>
</bpel>

```

5.6 Config plan changes for InitiateCorplIslamicContract process

Open the `InitiateCorplIslamicContract_cfgplan.xml` and copy corresponding values for the below mentioned properties to initiate BPEL or BPMN process from Common process.

Config_plan property	Property Values
bpel.preference.PROCESS_TYPE_LN	Set value as 'L' to initiate BPEL Process from Common Process



bpel.preference.PROCESS_TYPE_LN	Set value as ' N' to initiate BPMN Process from Common Process
---------------------------------	--

Refer sample screen shot.

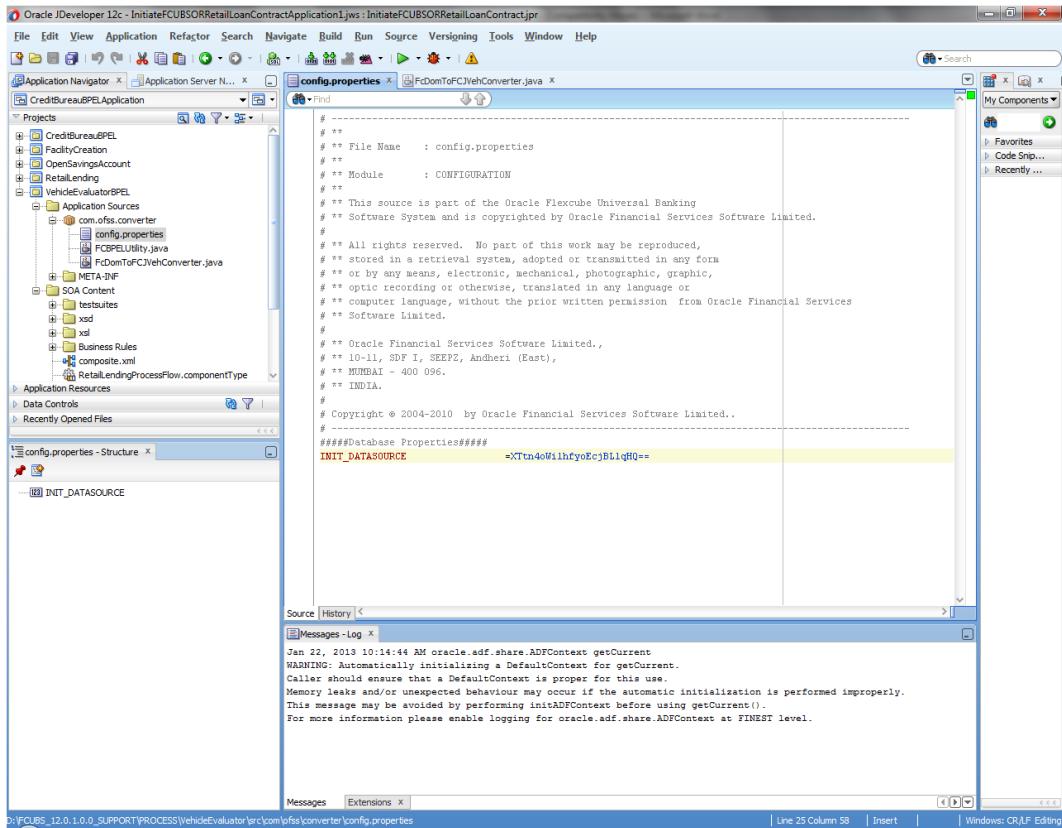
```

<!--Add search and replace rules for the component properties
For components and service/reference bindings, you can add policy references.
Example:
<component name="*">
<wsp:PolicyReference orawsp:category="management" orawsp:status="enabled" URI="oracle/log_policy"/>
</component>-->
<component name="InitiateCorpIslamicContract">
<property name="bpel.config.oneWayDeliveryPolicy">
<replace>async.persist</replace>
</property>
<property name="bpel.preference.PROCESS_TYPE_LN">
<replace>N</replace>
</property>
<property name="bpel.preference.PROCESS_URI">
<replace>http://ofss20216:7403/sea-infra/services/default/</replace>
</property>
</component>
<reference name="Initiation.TaskService_1"/>
<reference name="BPMNProcessInvocation"/>
<reference name="BPELProcessInvocation"/>
<reference name="BPMNProcessInvocation">
<!--Add search and replace rules for the binding properties-->
<binding type="ws">
<attribute name="port">
<replace>http://xmlns.oracle.com/process_invocation_BPMN#wsdl.endpoint(BPELProcessInvocation/process_invocation_pt)</replace>
</attribute>
<attribute name="location">
<replace>WSDLs/process_invocation_BPMN.wsdl</replace>
</attribute>
<property name="weblogic.wsee.wsat.transaction.flowOption">
<replace>WSDDDriven</replace>
</property>
</binding>
</reference>

```

5.7 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 .



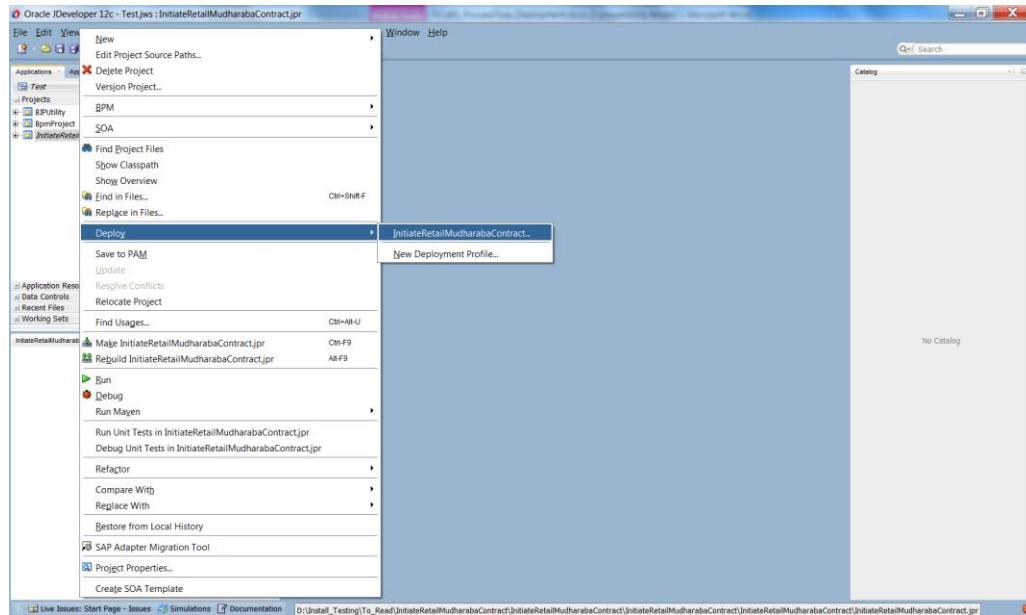
6. Deploying a Single Composite application using JDeveloper

6.1 Introduction

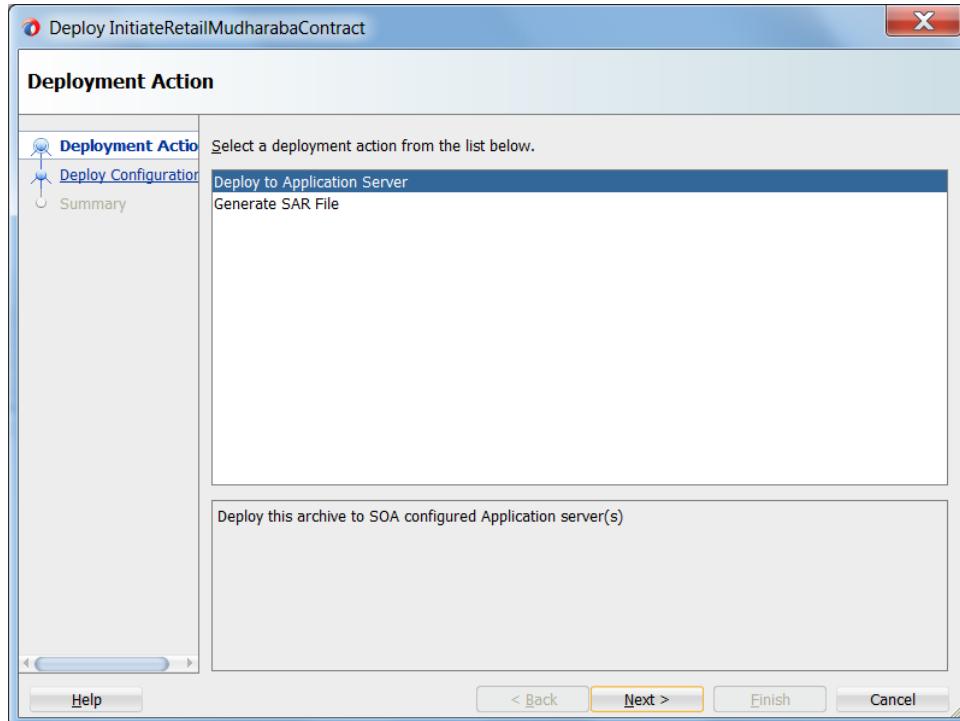
This section describes how to deploy a single SOA composite application with Oracle JDeveloper after completing updating of config plans with respective target environment replacement values.

6.2 Deploying the Application

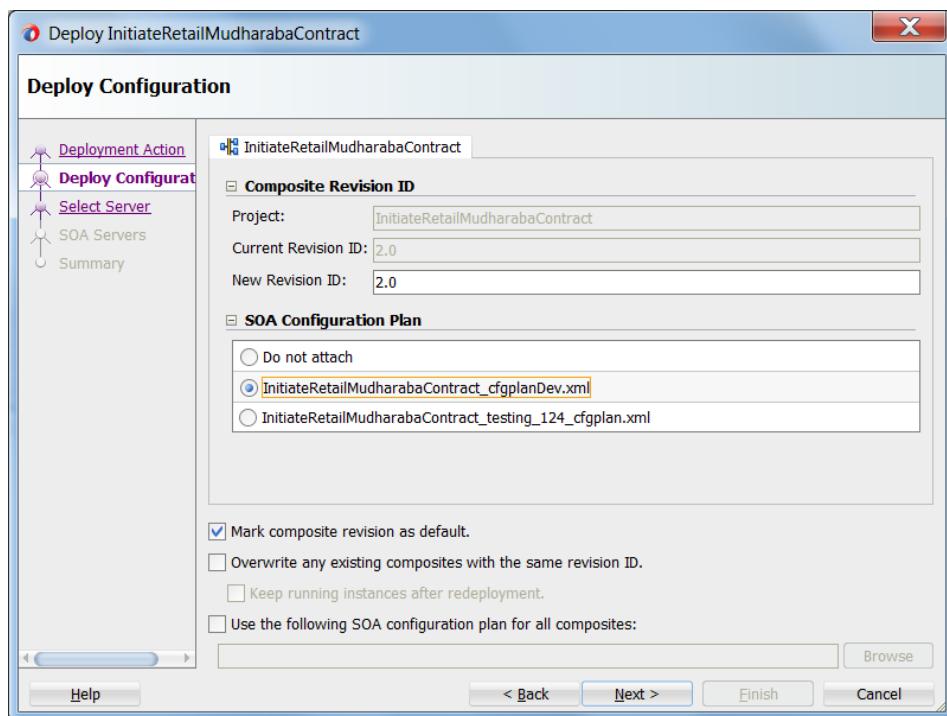
- Right click on the Application that needs to be deployed.
- Select ‘Deploy’ and then click on the default deployment profile which is the same as the application name.
- This will result in the deployment wizard screen being launched.



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



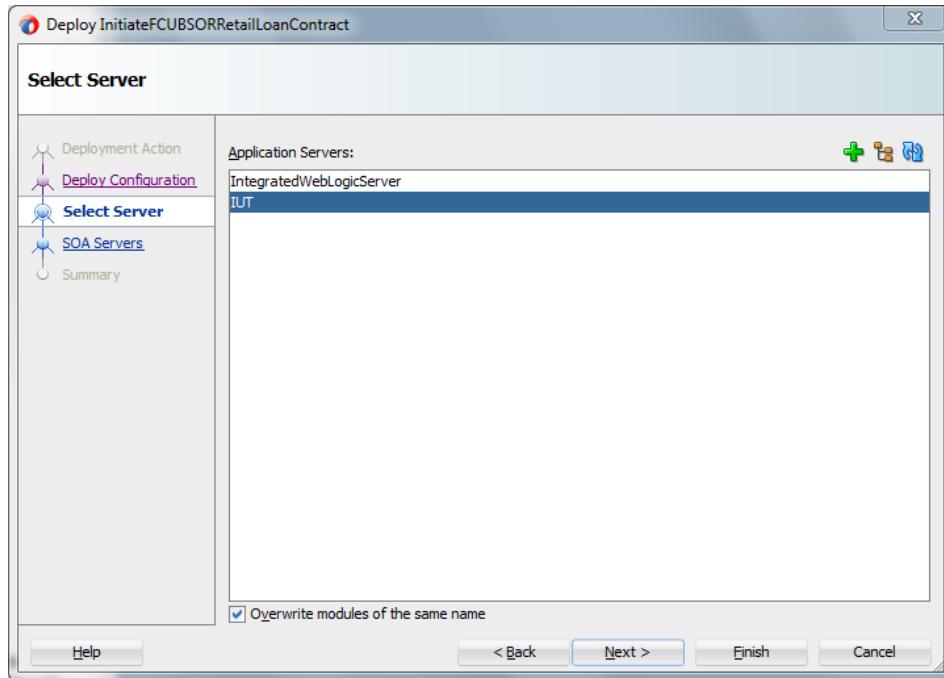
- Deployment configuration is done as illustrated in the below screen shot
- Select a Revision with which the deployment should happen
- Select a " Configuration Plan" that was updated as given in Section 5
- Provide a new revision ID. It should be always higher than the earlier revision of the process 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.



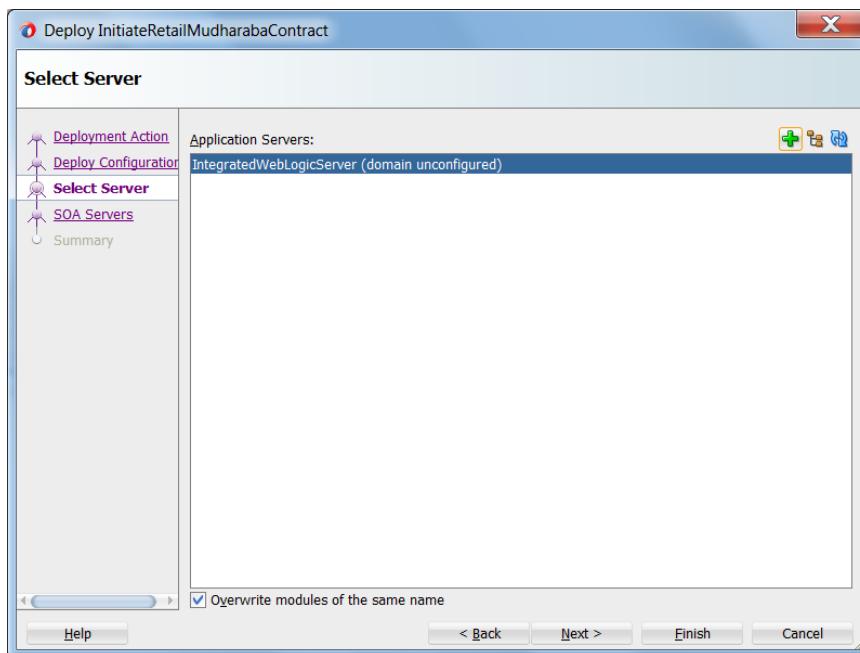
- Select the Application server ‘Server Connection’ configured that was done in Section 3 to which the deployment needs to be done
- Click ‘Next’ to proceed with the deployment.

Note :

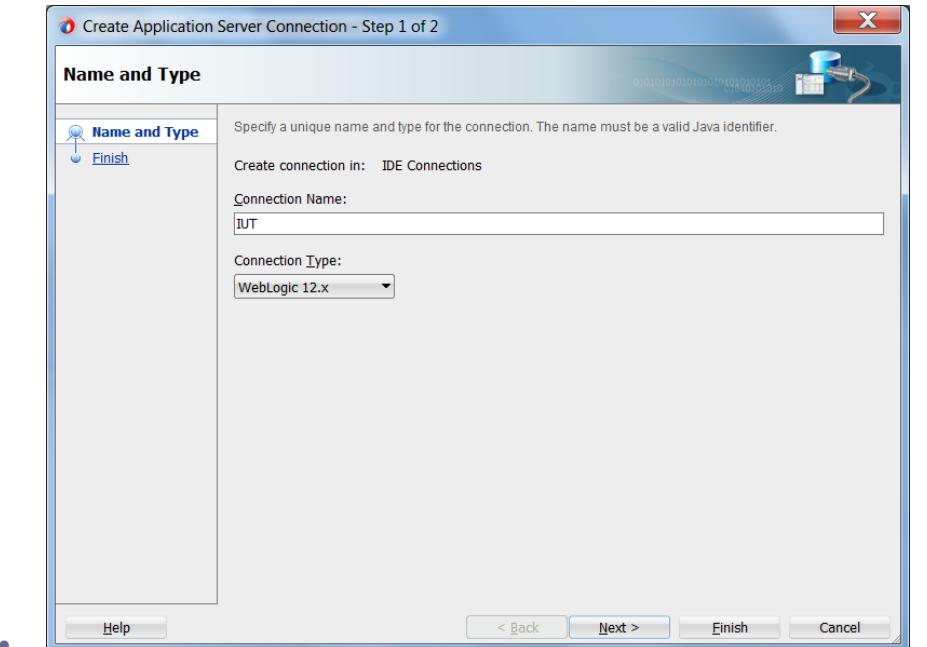
In case “Overwrite any existing composites with the same revision ID” checkbox is checked during the deployment, the active tasks which are currently running on the current revision of the process flow will be moved to “Stale” task status. The tasks which are in “Stale” status will not be displayed in the 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.



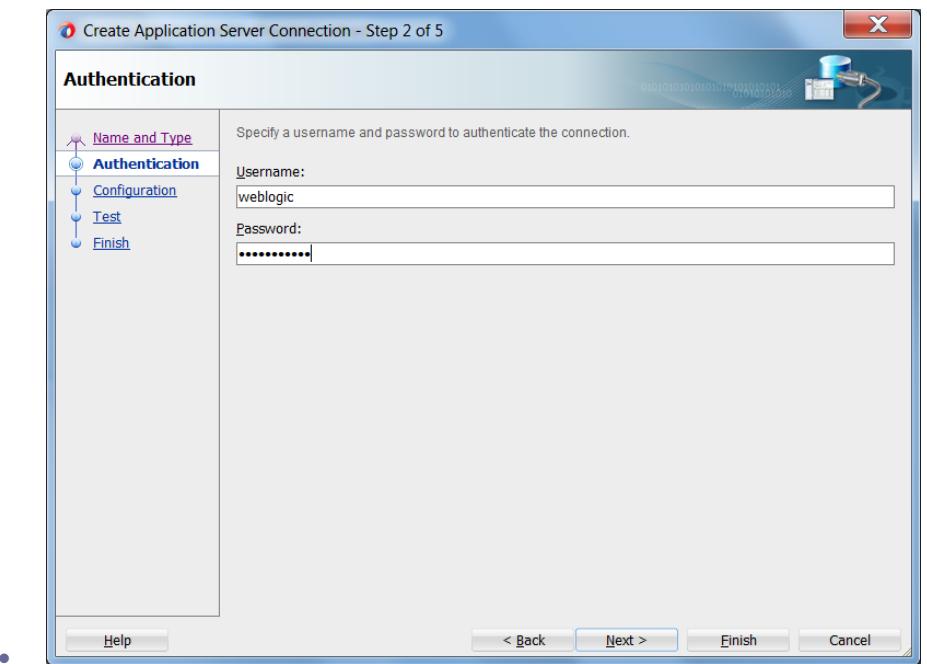
- Select the Application ‘server’ to which the deployment needs to be done.
- If the application server is not configured, it needs to be added by clicking on the ‘+’ button on the right top corner



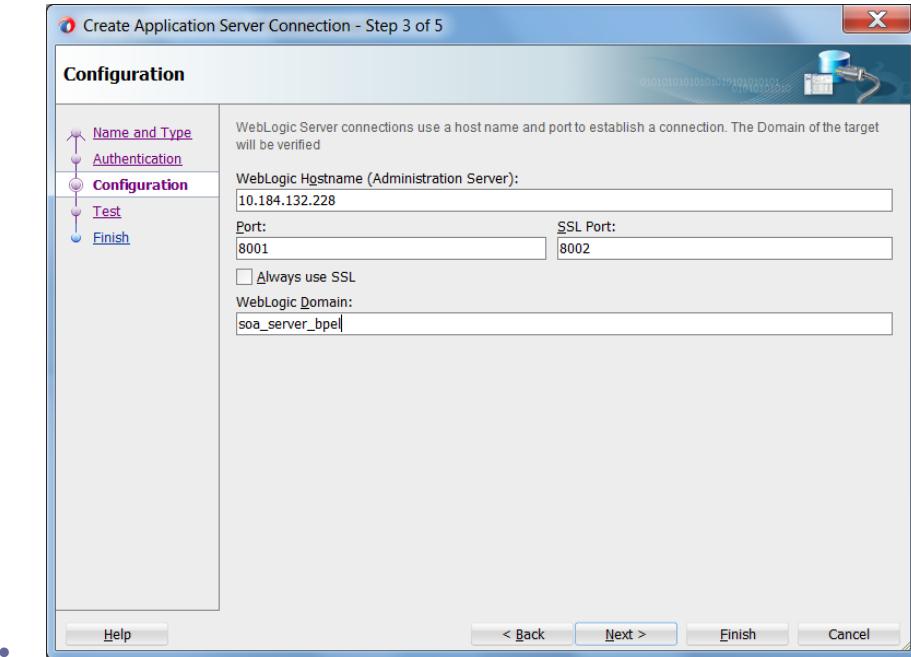
- Input the connection name and the connection type based on the weblogic console configured before and click next



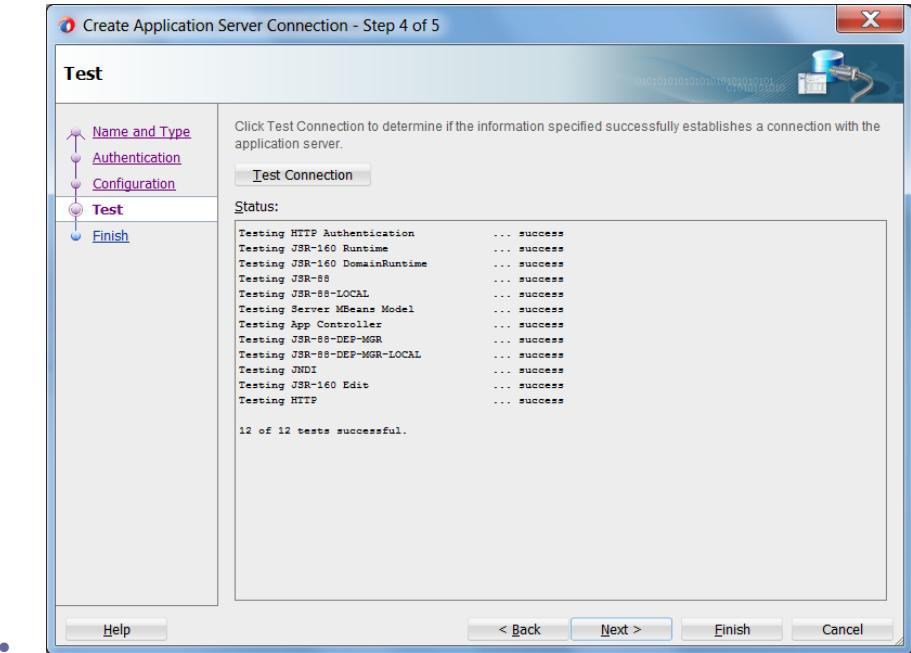
- System prompts for the weblogic password, proceed with next after inputting



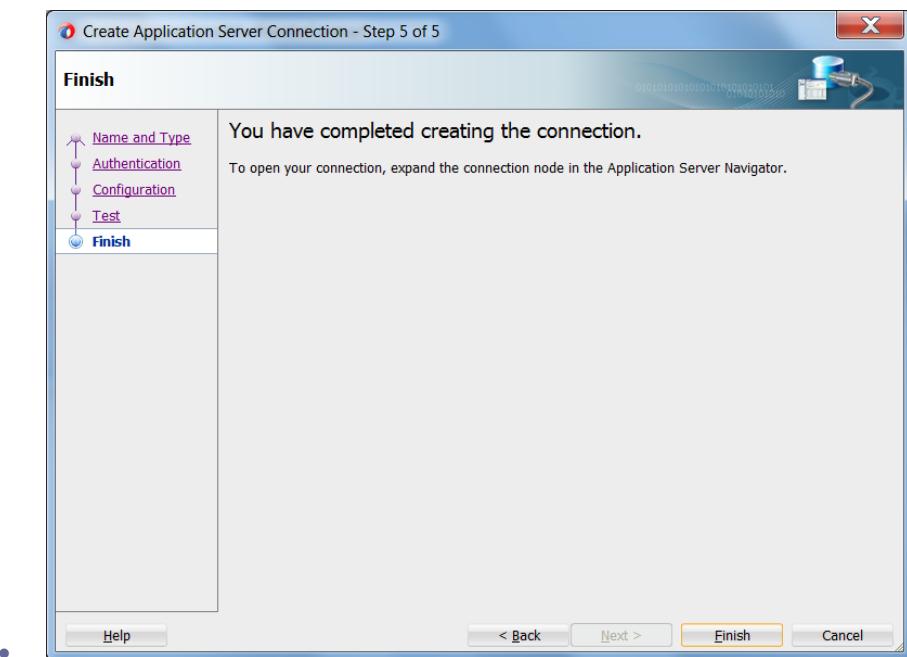
- Enter the Weblogic Hostname of the adminserver, port and domain details and click on next



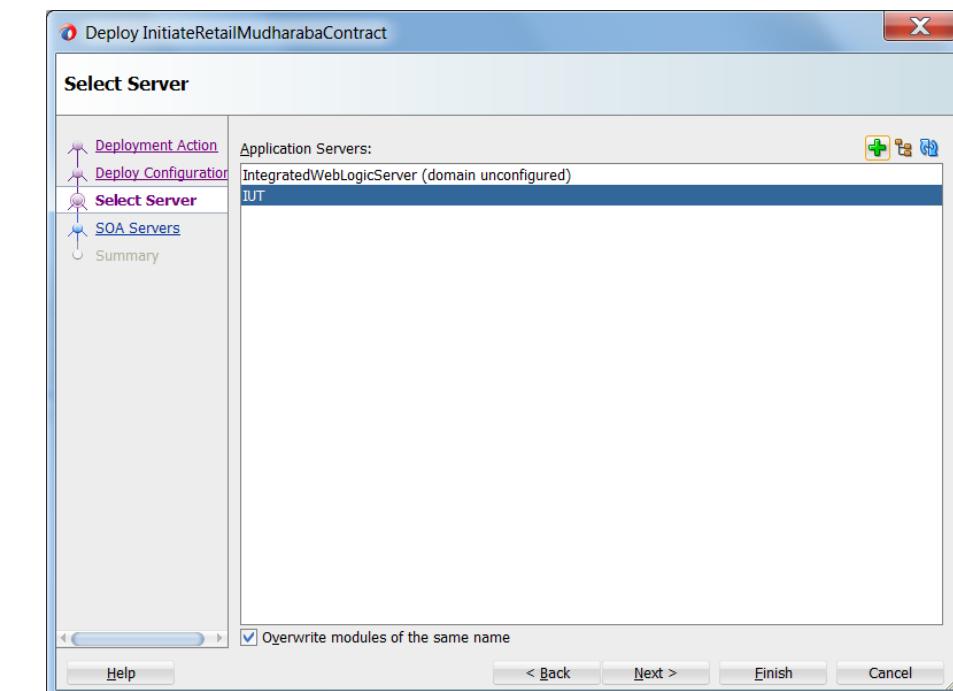
- Click on the Test Connection button to verify whether the details inputted are validated for the deployment of process



- And Once the connection is created, click on Finish

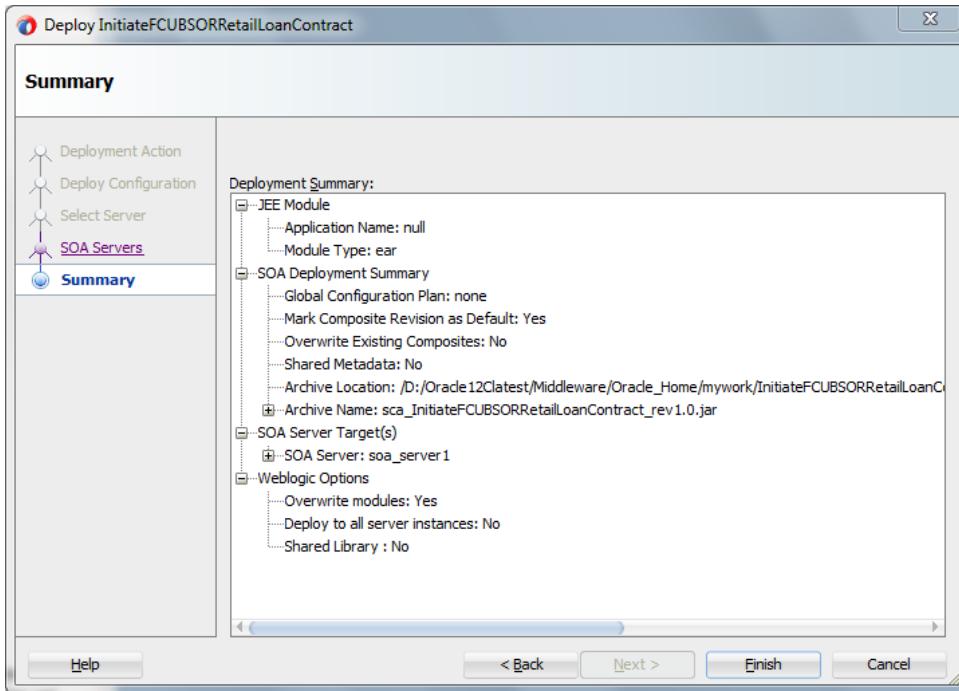


- Now the step returns to SOA servers so that the newly configured details
- can be added and deployment can be proceeded further
-



- Click Next after this
-
-
- View the summary of the deployment details and click 'Finish' to complete the deployment.

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

```

[03:14:15 PM] Deploying profile...
[03:14:15 PM] Updating revision id for the SOA Project 'InitiateFCUBSORRetailLoanContract.jpr' to '1.0'...
[03:14:15 PM] Copying file:/D:/Oracle12Clatest/Middleware/Oracle_Home/mywork/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract.jpr to /D:/Oracle12Clatest/Middleware/Oracle_Home/mywork/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract_rev1.0.jar
[03:14:15 PM] Wrote Archive Module to D:\Oracle12Clatest\Middleware\Oracle_Home\mywork\InitiateFCUBSORRetailLoanContract\InitiateFCUBSORRetailLoanContract\InitiateFCUBSORRetailLoanContract_rev1.0.jar
[03:14:15 PM] Deploying sca_InitiateFCUBSORRetailLoanContract_rev1.0.jar to partition "default" on server soa_server1 [http://oferz22122.in.oracle.com:7403]
[03:14:15 PM] Processing sca=/D:/Oracle12Clatest/Middleware/Oracle_Home/mywork/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract_rev1.0.jar
[03:14:15 PM] Adding sca file - D:\Oracle12Clatest\Middleware\Oracle_Home\mywork\InitiateFCUBSORRetailLoanContract\InitiateFCUBSORRetailLoanContract\InitiateFCUBSORRetailLoanContract_rev1.0.jar
[03:14:15 PM] Preparing to send HTTP request for deployment
[03:14:15 PM] Creating HTTP connection to host:ofez22122.in.oracle.com, port:7403
[03:14:15 PM] Sending internal deployment descriptor
[03:14:15 PM] Sending archive - sca_InitiateFCUBSORRetailLoanContract_rev1.0.jar
[03:15:55 PM] Received HTTP response from the server, response code=200
[03:15:55 PM] Successfully deployed archive sca_InitiateFCUBSORRetailLoanContract_rev1.0.jar with 0 warning/severe messages to partition "default" on server soa_server1 [http://oferz22122.in.oracle.com:7403]
[03:15:55 PM] Elapsed time for deployment: 1 minute, 56 seconds
[03:15:55 PM] ---- Deployment finished. ----

```

- 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

The screenshot shows the Oracle Enterprise Manager Fusion Middleware Control 12c interface, specifically the SOA Infrastructure Deployed Composites page. The URL in the browser is http://10.184.133.180:7040/em/faces/soa/infra?type=oracle_soaInfra&target=%2FDomain_soa_domain%2Fsoa_domain%2Fsoa_server1%2Fsoa-infra. The page title is "soa-infra (SOA Infrastructure)". The main content area shows a list of deployed SOA composites, each with its name, status, mode, and deployment timestamp. The table has columns for SOA Folder, Status, Mode, and Deployed. The Deployed column includes a dropdown arrow. The page also features a sidebar with a tree view of SOA components and various navigation tabs like Dashboard, SOA Folders, Deployed Composites, Flow Instances, and Error Hospital.

SOA Folder	Status	Mode	Deployed
default	Active		Oct 13, 2017 12:05:2...
default	Active		Sep 27, 2017 9:07:04...
default	Retired		Sep 27, 2017 3:23:30...
default	Active		Sep 6, 2017 4:24:39 PM
default	Active		Aug 30, 2017 4:50:46...
default	Retired		Aug 9, 2017 1:16:48 PM
default	Retired		Jul 7, 2017 8:26:24 PM
default	Active		Jun 18, 2017 4:12:47...
default	Active		Jun 13, 2017 2:27:59...
default	Retired		Jun 13, 2017 2:24:40...
default	Active		Jun 13, 2017 2:18:07...
default	Active		May 18, 2017 2:50:23...
default	Active		May 12, 2017 10:26:3...
default	Active		May 12, 2017 10:23:3...
default	Active		May 12, 2017 10:19:0...
default	Active		May 11, 2017 7:15:45...
default	Active		May 11, 2017 7:07:07...
default	Active		May 11, 2017 6:59:01...
default	Active		May 11, 2017 6:34:57...
default	Active		Apr 26, 2017 4:01:33...
default	Active		Apr 25, 2017 12:07:1...
default	Active		Apr 18, 2017 11:06:17...

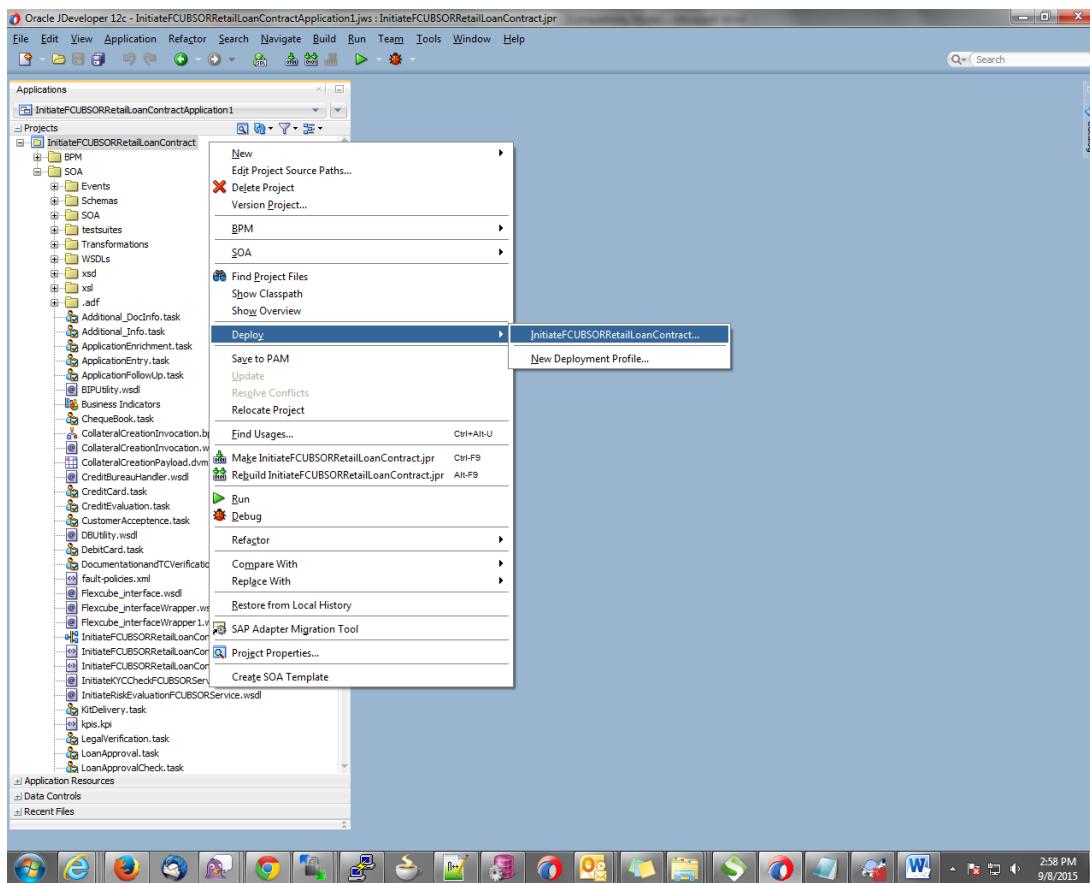
7. Deploying a Single Composite application via Enterprise manager console

7.1 Introduction

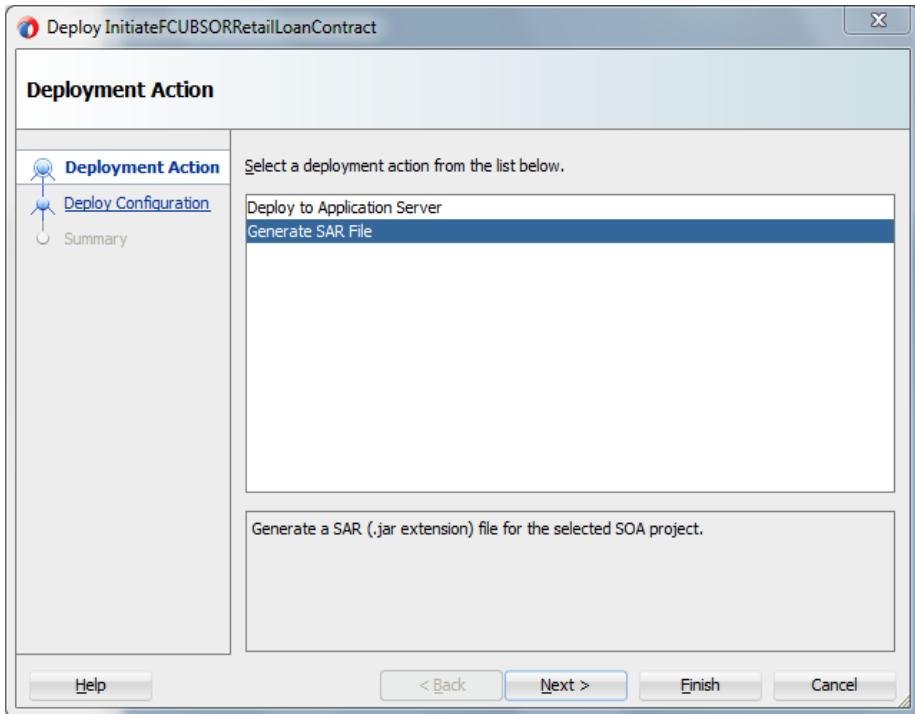
This section describes how to build a SAR file for a single SOA composite application with Oracle JDeveloper and deploy the same via enterprise manager console.

7.2 Deploying the Application

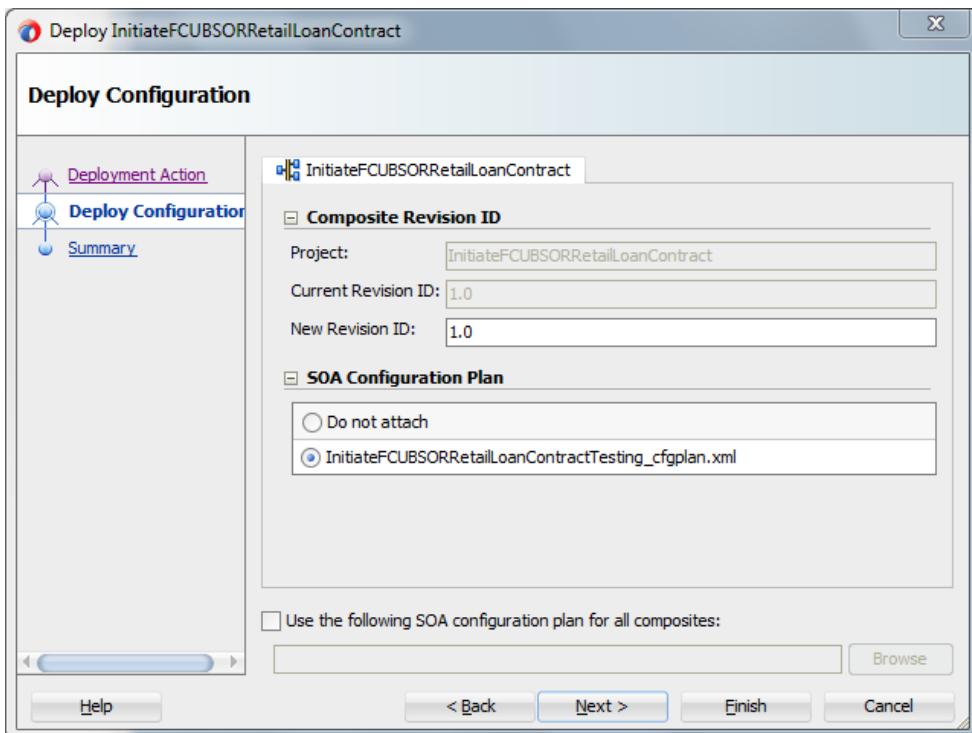
- Right click on the Application that needs to be deployed.
- Select 'Deploy' and then click on the default deployment profile which is the same as the application name.
- This will result in the deployment wizard screen being launched.



- In deployment action screen choose 'Deploy to SAR'
- Click 'Next' to proceed with the deployment.

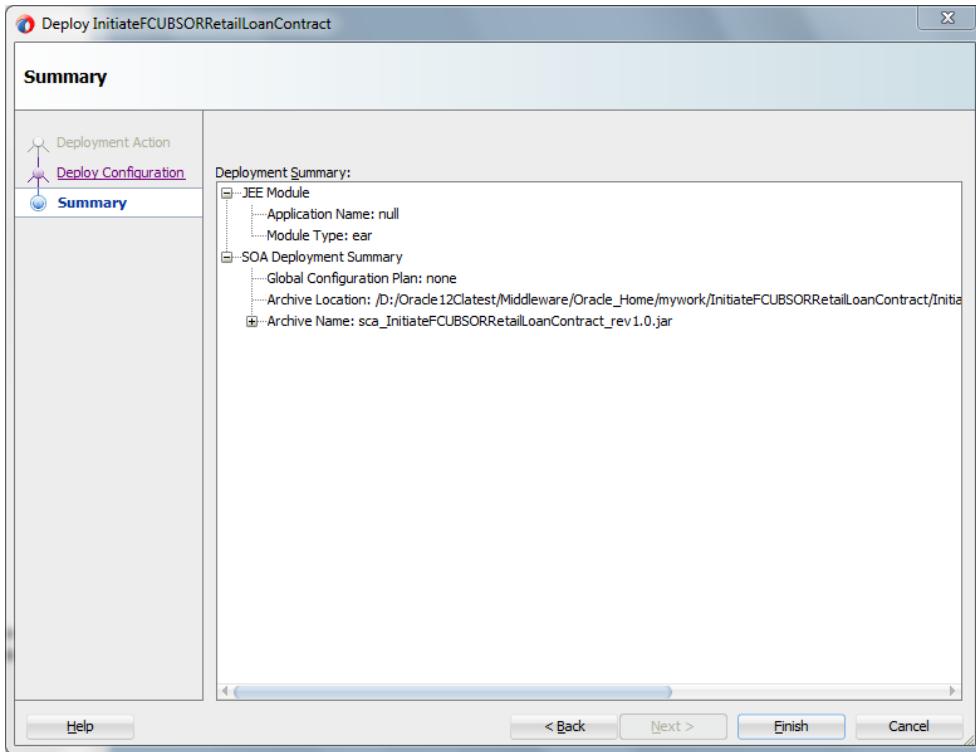


- In deployment configuration screen enter the revision
- Select the configuration plan.
- Click "Next" to proceed with the deployment.

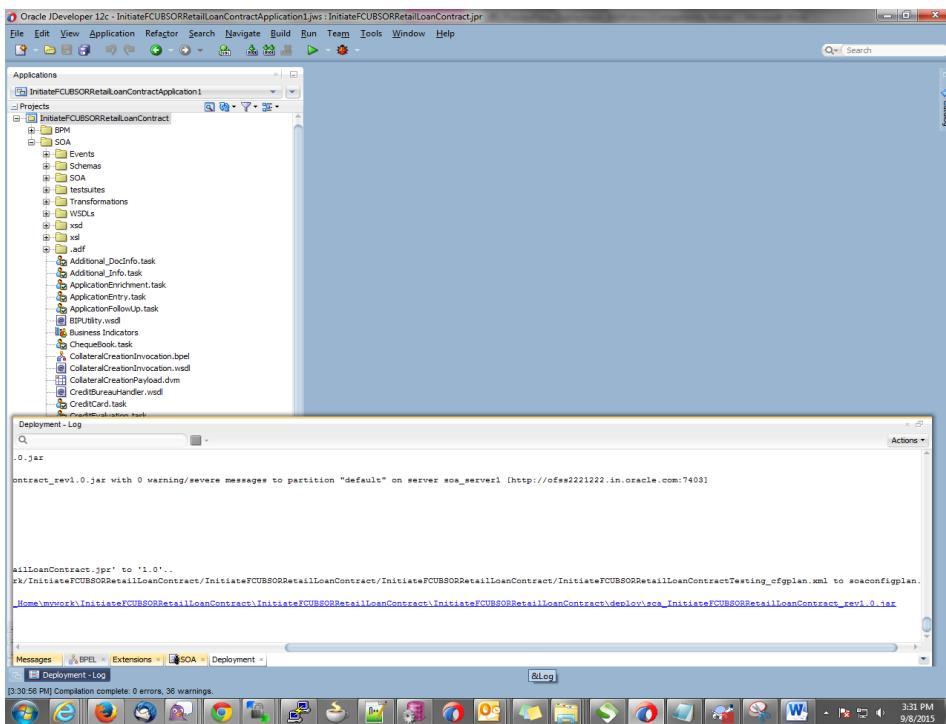


- Review the deployment summary screen

- 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>



Domain Domain_soa_domain

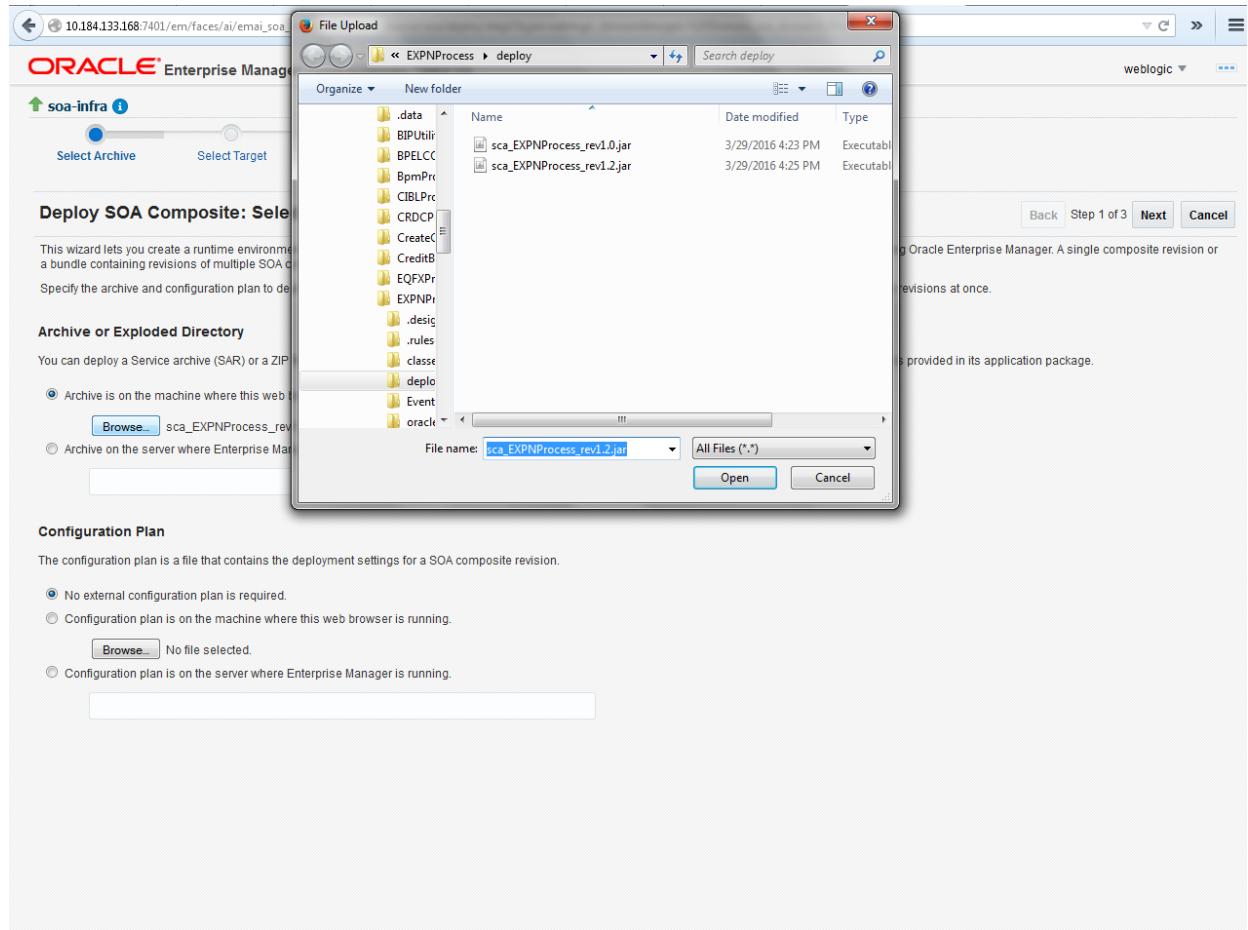
* User Name

* Password

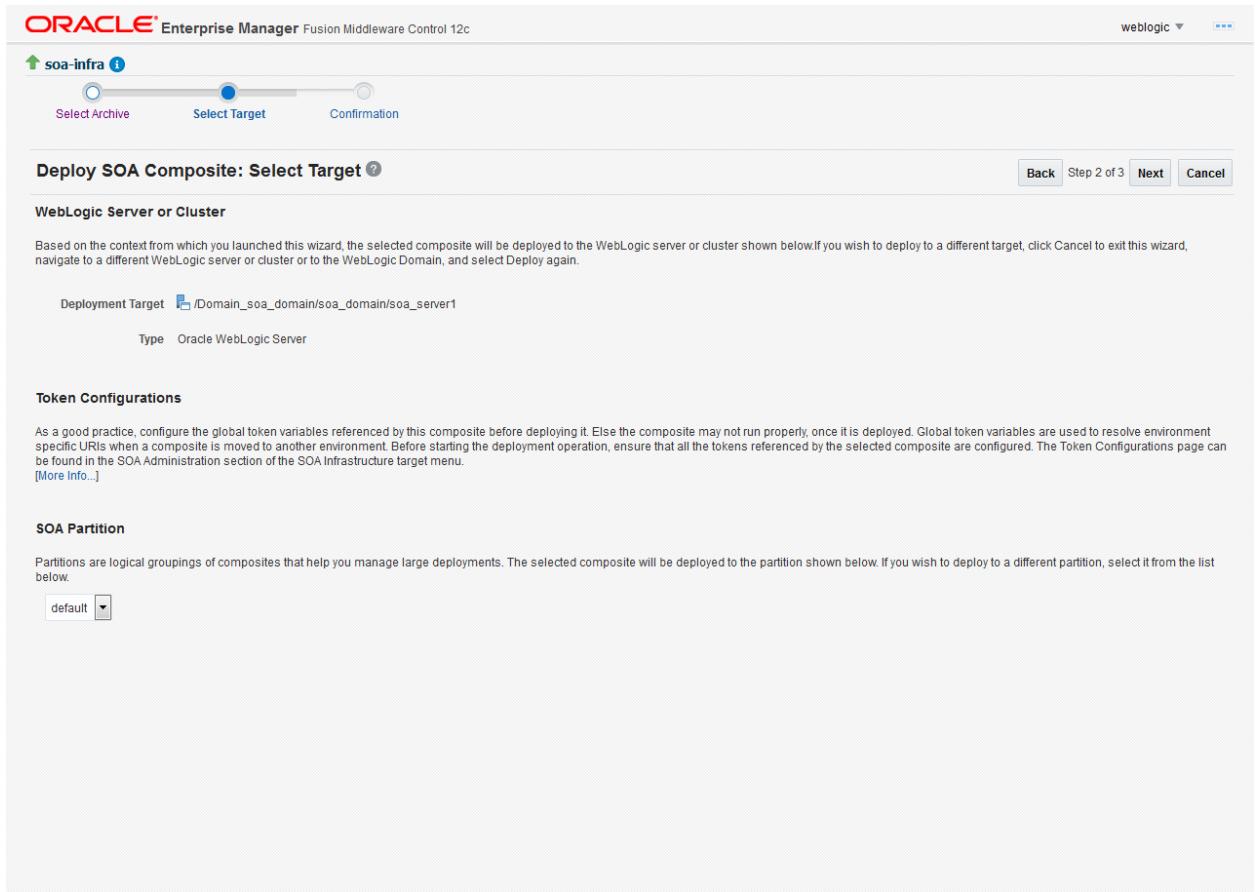
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- After logging in from the left pane - Expand 'SOA'
- Right click on soa-infra
- Choose SOA Deployment -> and click "Deploy" option.
- Select the 'SAR' archive
- Select the deployment plan with which the application needs to be deployed as illustrated in the screen shot.



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



- Select default partition.

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

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

Composite Name: EXPNProcess
 Composite Revision: 1.2
 Archive Location: sca_EXPNProcess_rev1.2.jar
 Configuration Plan: No external plan specified
 Deployment Target: /Domain_soa_domain/soa_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

- Click on "Deploy" to complete the deployment.

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

Composite Name: EXPNProcess
 Composite Revision: 1.2
 Archive Location: sca_EXPNProcess_rev1.2.jar
 Configuration Plan: No external plan specified
 Deployment Target: /Domain_soa_domain/soa_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

Deployment Succeeded

Composite "EXPNProcess [1.2]" has been successfully deployed.

Summary

Deployment Target: /Domain_soa_domain/soa_domain/soa_server1
 Archive Name: sca_EXPNProcess_rev1.2.jar

Do not change the default revision 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.

Close

SOA Folders are logical groupings of composites to help you manage large deployments. The following SOA composite revisions are deployed in this folder.

Composite	Status	Mode	Deployed
InitiateRetailMurabahContract [1.0]	Active		Apr 6, 2017 4:21:48 PM
EXPNProcess [1.0]	Active		Mar 27, 2017 9:55:12 PM
CRPProcess [1.0]	Active		May 12, 2017 10:28:39 AM
OpenCurrentAccount [2.0]	Retired		Aug 9, 2017 1:16:48 PM
OpenCurrentAccount [3.0]	Active		Oct 13, 2017 12:05:20 PM
TRUNProcess [1.0]	Active		Mar 27, 2017 9:58:47 PM
CreateCorporateCustomer [1.0]	Active		Jun 13, 2017 2:27:59 PM
InitiateCorpJaharContract [1.0]	Active		Apr 11, 2017 9:04:11 PM
InitiateCorpMurabahContract [1.0]	Active		Mar 27, 2017 10:13:01 PM
InitiateCorpStimaContract [1.0]	Active		Apr 18, 2017 11:06:17 AM
BPELCOLLATProcess [1.0]	Active		May 11, 2017 6:34:57 PM
InitiateRetailTawaroqContract [2.0]	Active		Apr 8, 2017 7:40:55 PM
InitiateRetailMusharakaContract [3.0]	Active		Apr 3, 2017 12:09:21 PM
InitiateRetailLoanContractFCUBSORService	Active		Sep 6, 2017 4:24:39 PM
InitiateFCUBSORRetailLoanContract [1.0]	Active		Jan 16, 2017 4:12:47 PM
BIPUtility [1.0]	Active		Nov 22, 2017 7:02:05 PM
InitiateRetailMurabahContract [8.0]	Active		Apr 26, 2017 4:01:33 PM
ORGatewayService [1.7]	Retired		Sep 27, 2017 3:23:30 PM

- Check the deployed process from the enterprise manager console.

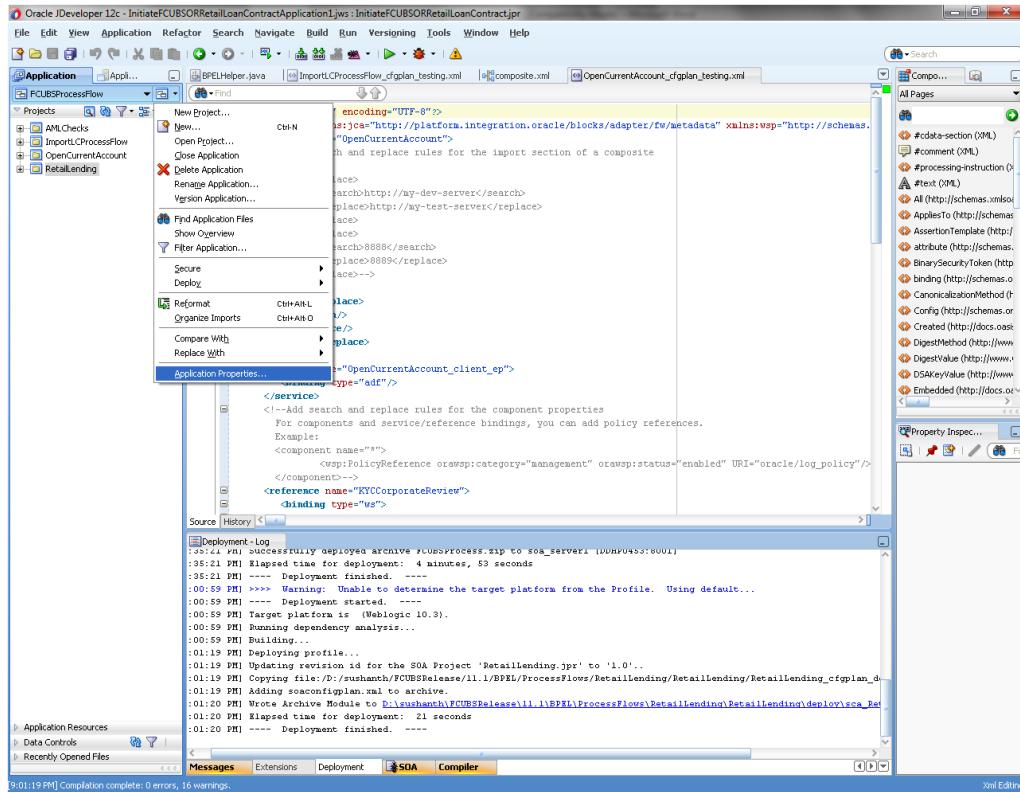
8. Deploying Multiple Composite application using JDeveloper

8.1 Introduction

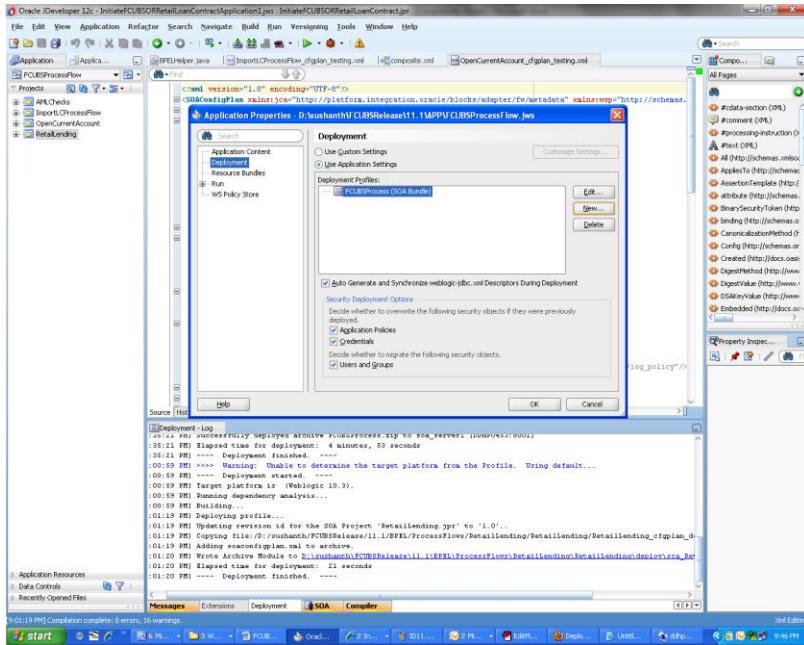
This section describes how to deploy a multiple SOA composite application with Oracle JDeveloper after completing updating of config plans with respective target environment replacement values.

8.2 Creating the Deployment Profile

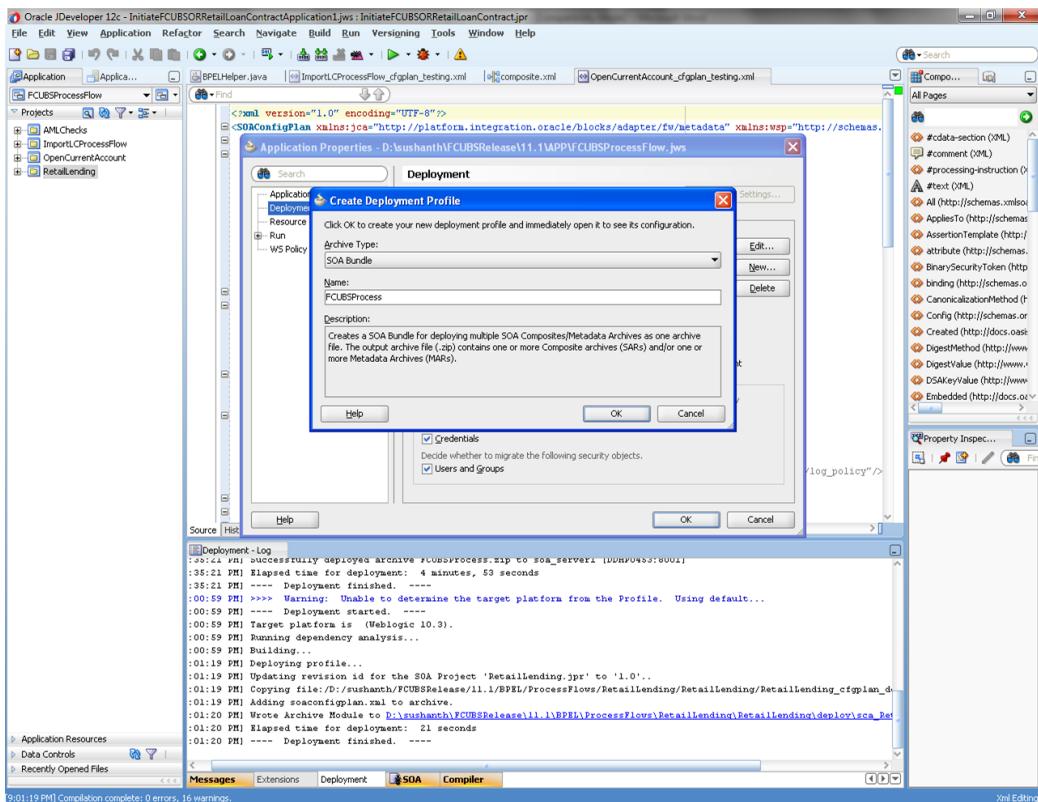
- From the application menu select ‘Application Properties’ as illustrated in the screen shot.



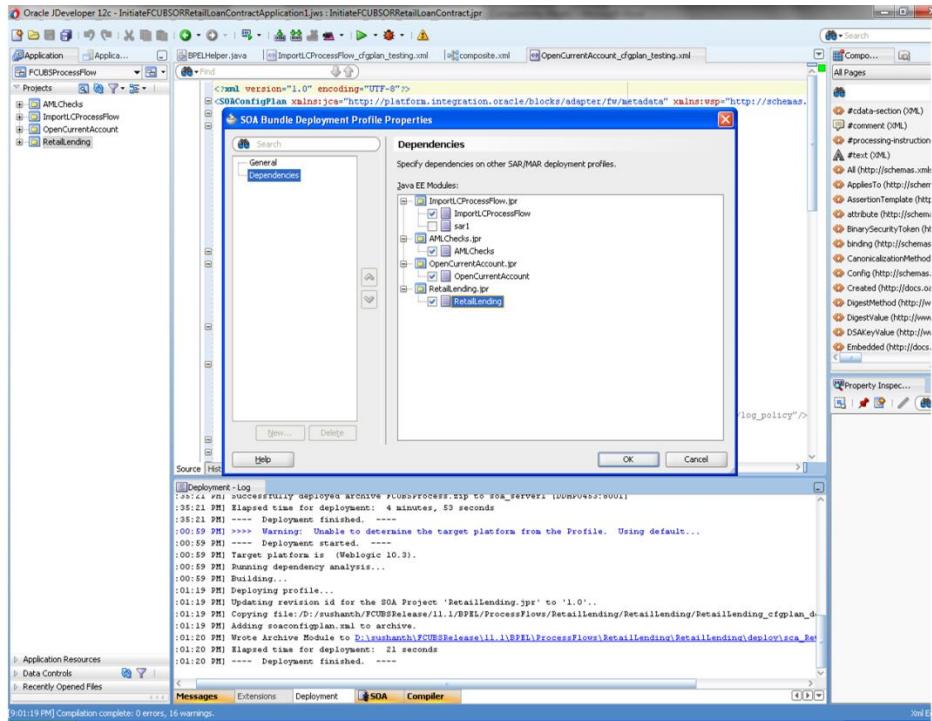
- In the Application Properties dialog, click Deployment.
- Click New.



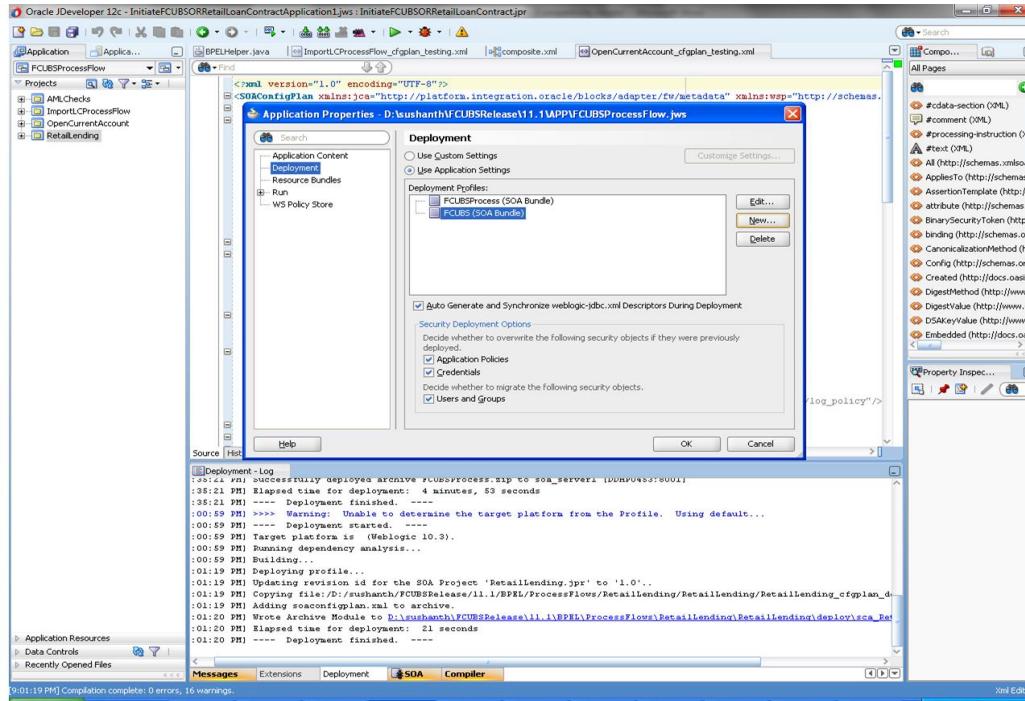
- The Create Deployment Profile dialog appears.
- In the Archive Type list, select SOA Bundle.
- In the Name field, enter a name and click 'OK'.



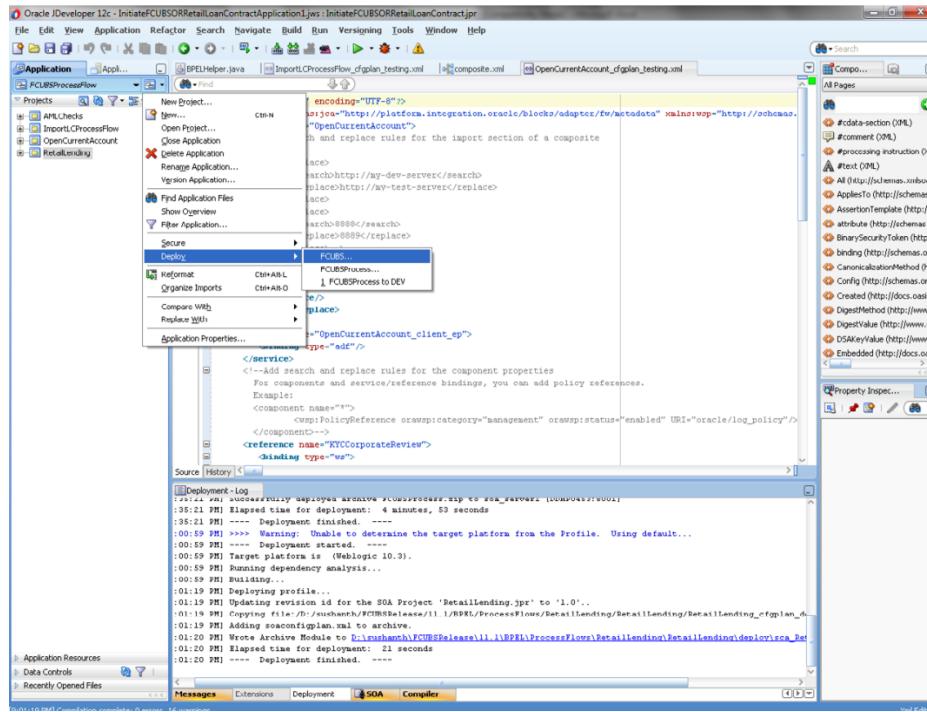
- In the navigator on the left, select the Dependencies node.
- Select the SARs you want to include in this bundle, as illustrated in the screen shot
- Click OK.



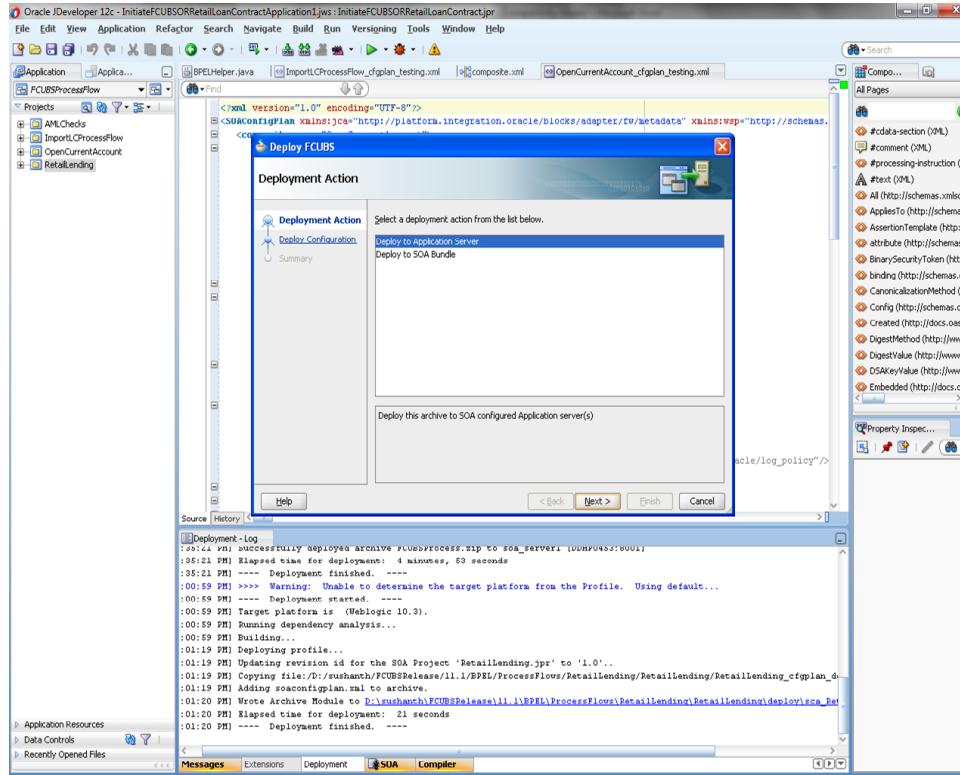
- Click OK to close the Application Properties dialog.



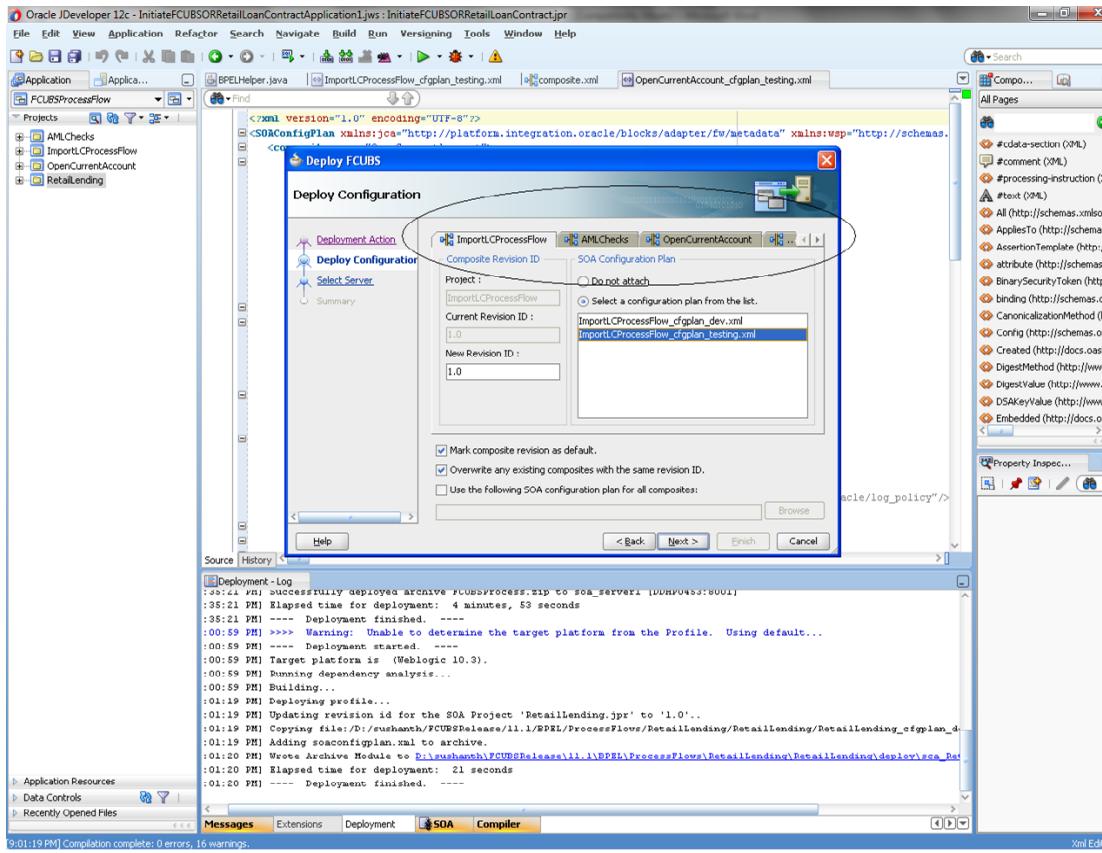
- Select the Application menu again, then select Deploy > SOA_bundle_name



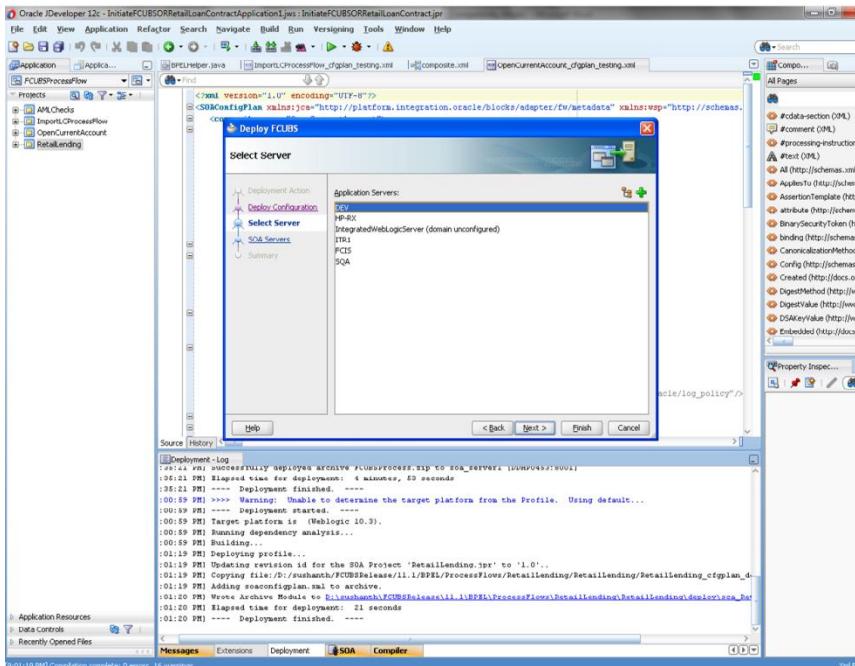
- Deployment screen is launched , Select 'Deploy to Application Server'



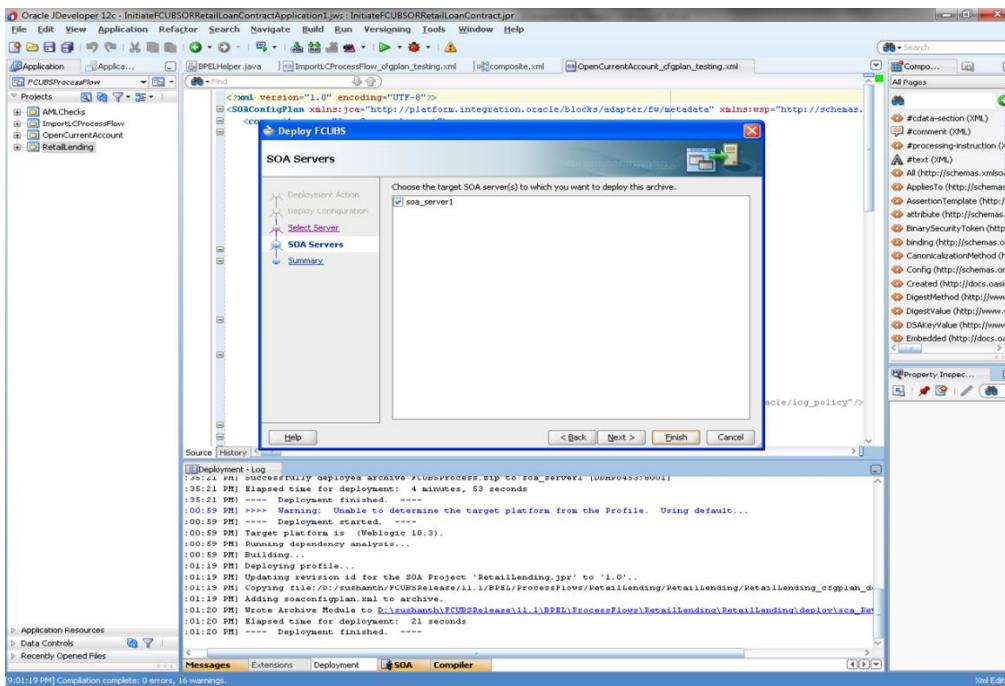
- Deployment configuration is done as illustrated in the below screen shot for each application which is displayed in the tab, application navigation can be done using the pointer provided at the end of the tab.
- Select a Revision with which the deployment should happen
- Select a " Configuration Plan" 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.

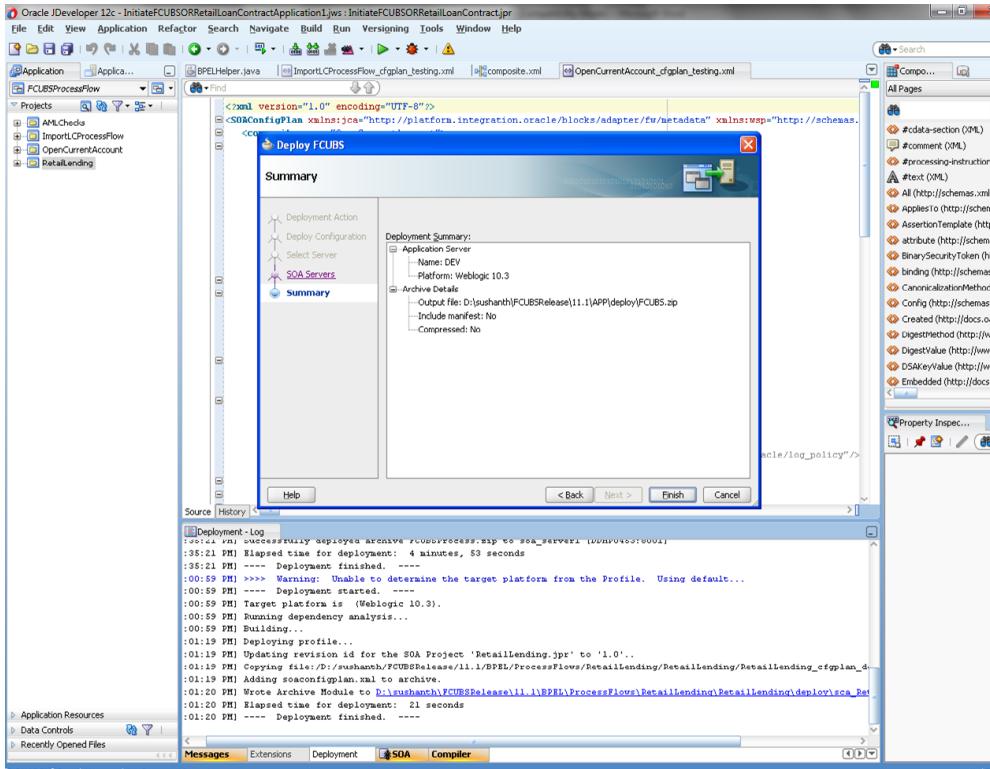


- Select the Application ‘server’ to which the deployment needs to be done.

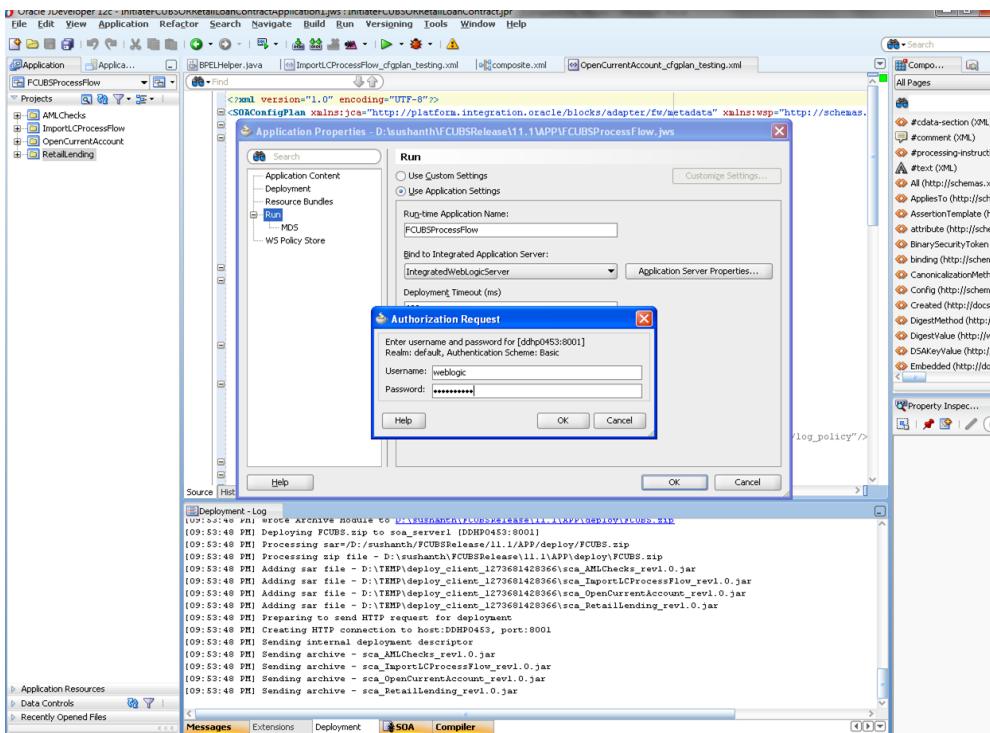


- View the summary of the deployment details and click ‘Finish’ to complete the deployment.

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- 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.

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```

<?xml version="1.0" encoding="UTF-8"?>
<?SOAConfigPlan instance="http://schemas.oracle.com/integration/adapter/blocks/adapterservice?name=OpenCurrentAccount"?
<composite name="OpenCurrentAccount">
  <!-- Add search and replace rules for the import section of a composite
       Example:
       <searchAndReplace>
         <search>http://my-dev-server/</search>
         <replace>http://my-test-server/</replace>
       </searchAndReplace>
       <searchAndReplace>
         <search>http://my-test-server:8080/</search>
         <replace>8080/</replace>
       </searchAndReplace>-->
  <import>
    <searchAndReplace>
      <search>*</search>
      <replace></replace>
    </searchAndReplace>
  </import>
  <service name="OpenCurrentAccount_client_ep">
    <binding type="adl"/>
  </service>
  <!-- Add search and replace rules for the component properties
       For components and service/reference bindings, you can add policy references.
       Example:
       component.name=<*>
         <copPolicyReference name="management" status="enabled" URI="oracle/log_policy"/>
       </copPolicyReference>
       <reference name="KYCCorporateReview">
         <binding type="ws">
  
```

- 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



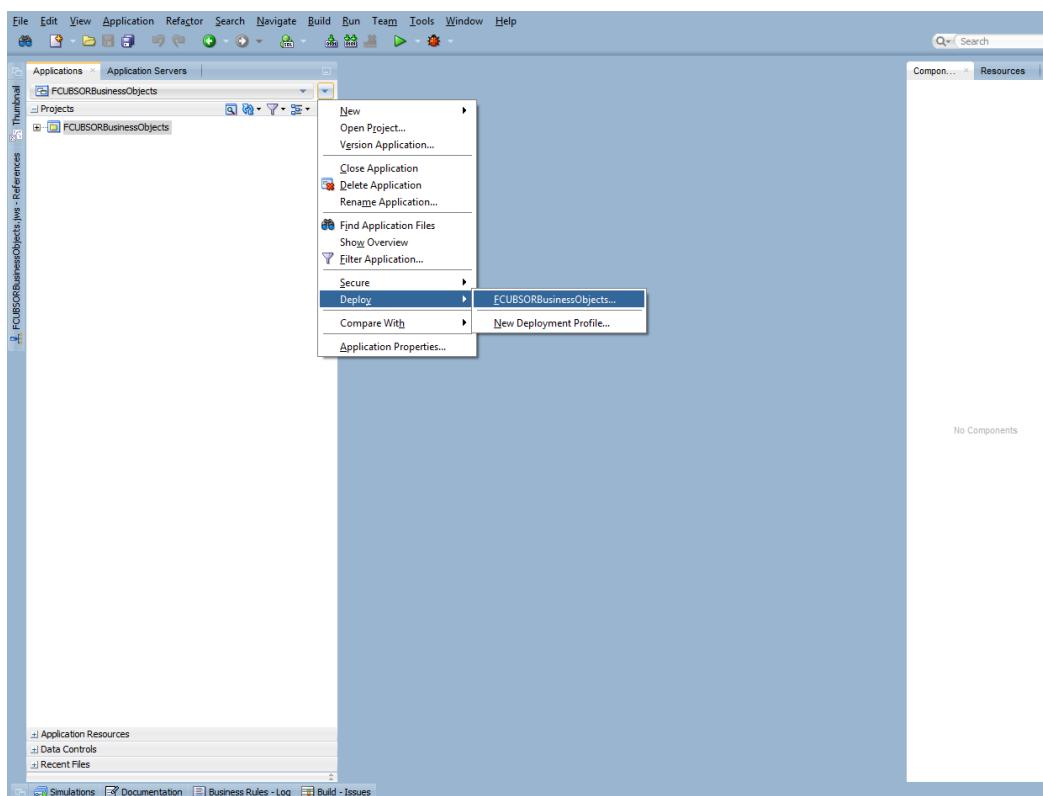
9. Deploying MDS application using JDeveloper

9.1 Introduction

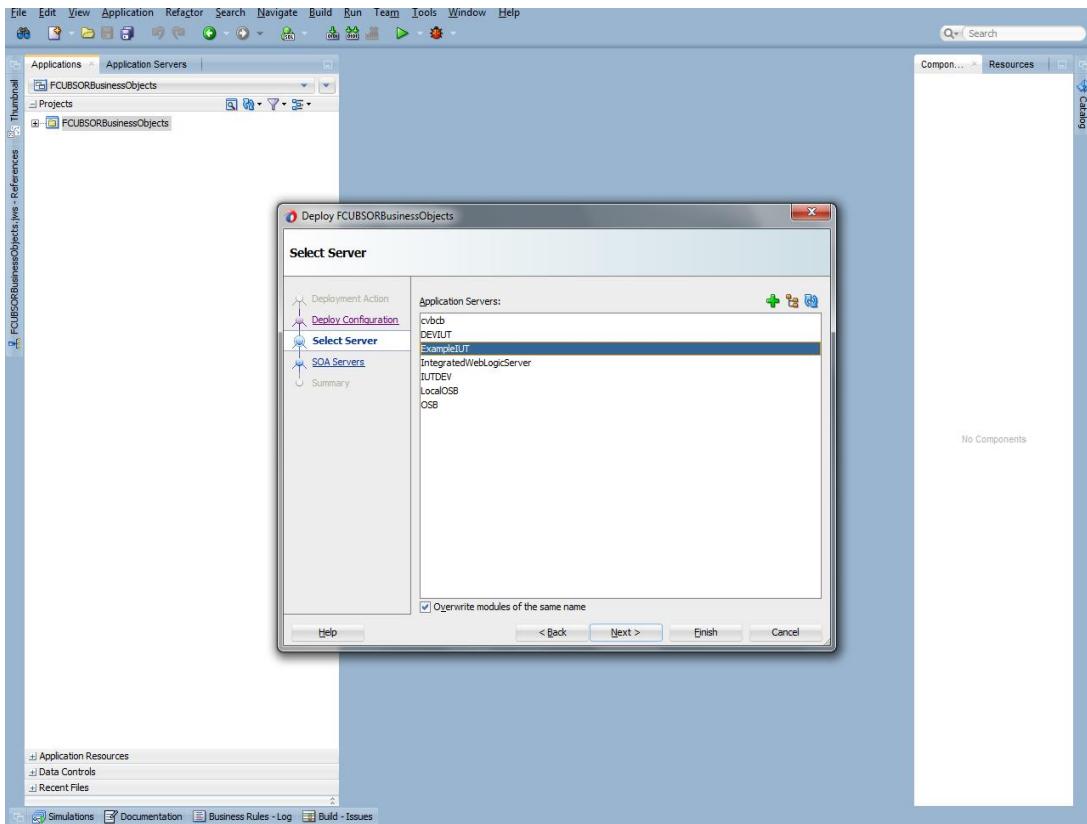
This section describes how to deploy a MDS application with Oracle JDeveloper with respective target environment.

9.2 Deploying the Application

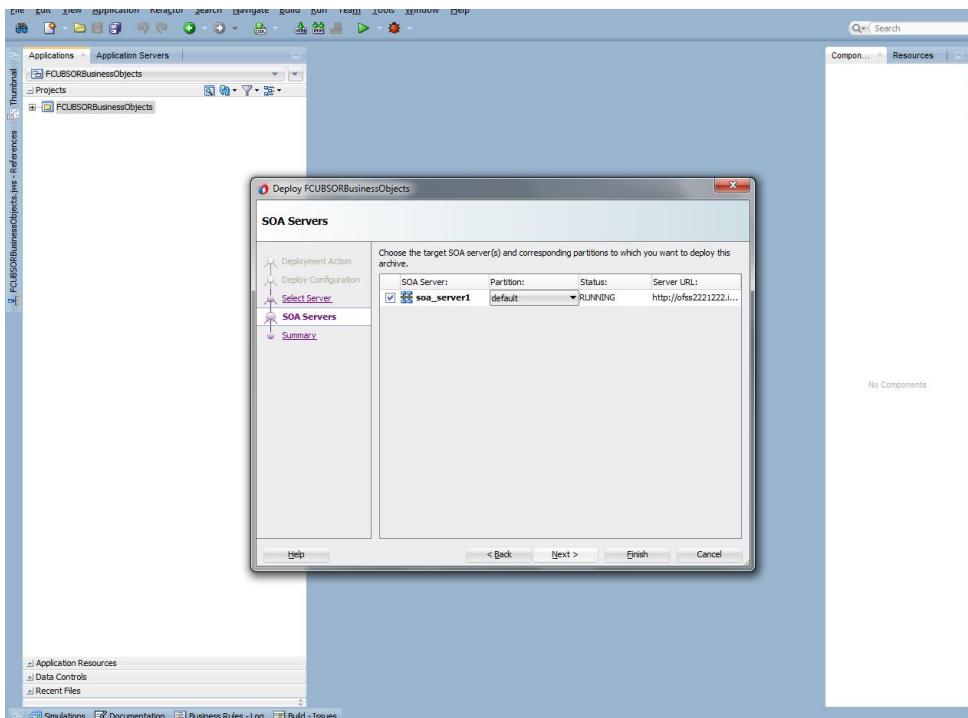
- Load the MDS Application(FCUBSORBusinessObjects,FCUBSORServiceObjects) in Jdeveloper
- Right click on the “Application” tab in the Jdeveloper
- Select ‘Deploy’ and then click on the default deployment profile which is the same as the application name.
- This will result in the deployment wizard screen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

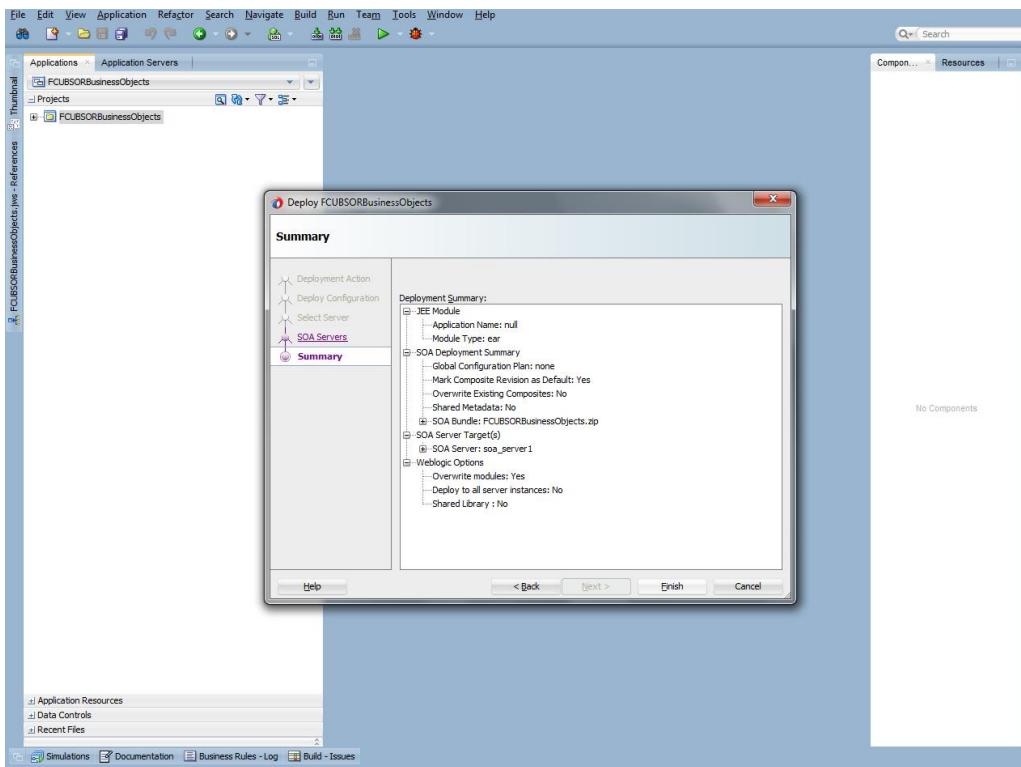


- In deployment action screen choose Deploy to Application Server.
- Click Next→Next to proceed with deployment.
- Select the Application Server to which the MDS Application Needs to Deploy.

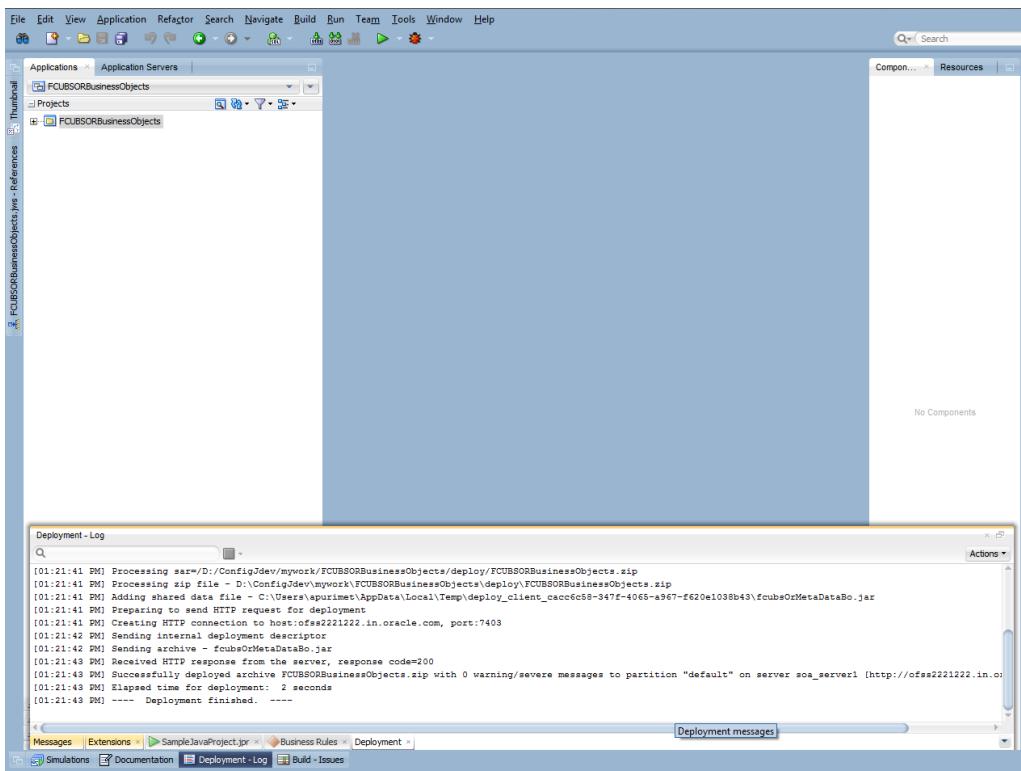


- Click Next and Finish buttons on the deployment wizard after selecting application server.





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



10. Deployment and configuration of Oracle BAM Reports

- 1) Login to console <http://hostname:port/console>
- 2) Click on Data sources.

The screenshot shows the Oracle Administration Console interface. On the left, there is a sidebar with sections for 'View changes and restarts', 'Domain Structure' (listing 'soa_domain' with sub-nodes like 'Domain Partitions', 'Environment', 'Deployments', 'Services', 'Security Realms', 'Interoperability', and 'Diagnostics'), 'How do I...', and 'System Status' (Health of Running Servers). The main content area is titled 'Home Page >Summary of Servers >Summary of Deployments'. It contains a 'Helpful Tools' section with links to 'Configure applications', 'Configure GridLink for RAC Data Source', 'Configure a Dynamic Cluster', 'Recent Task Status', 'Set your console preferences', and 'Oracle Enterprise Manager'. Below this is a 'Domain Configurations' section with a 'Domain' node. The right side of the screen is divided into several panels: 'General Information' (links to 'Common Administration Task Descriptions', 'Read the documentation', and 'Ask a question on My Oracle Support'); 'Resource Group Templates' (link to 'Resource Group Templates'); 'Resource Groups' (link to 'Resource Groups'); 'Deployed Resources' (link to 'Deployments'); 'Services' (listing 'Messaging' with nodes like 'JMS Servers', 'Store-and-Forward Agents', 'JMS Modules', 'Path Services', 'Bridges', 'Data Sources', 'Persistent Stores', 'XML Registries', 'XML Entity Caches', 'Foreign JNDI Providers', 'Work Contexts', 'jCOM', 'Mail Sessions', 'FileT3', 'JTA', and 'OSGI Frameworks'); 'Interoperability' (links to 'WTC Servers' and 'Jolt Connection Pools'); 'Diagnostics' (links to 'Log Files', 'Diagnostic Modules', 'Built-in Diagnostic Modules', 'Diagnostic Images', 'Request Performance', 'Archives', 'Context', 'SNMP', and 'Interceptors'); and 'Charts and Graphs' (link to 'Monitoring Dashboard').

- 3) Click on the SOADataSource.

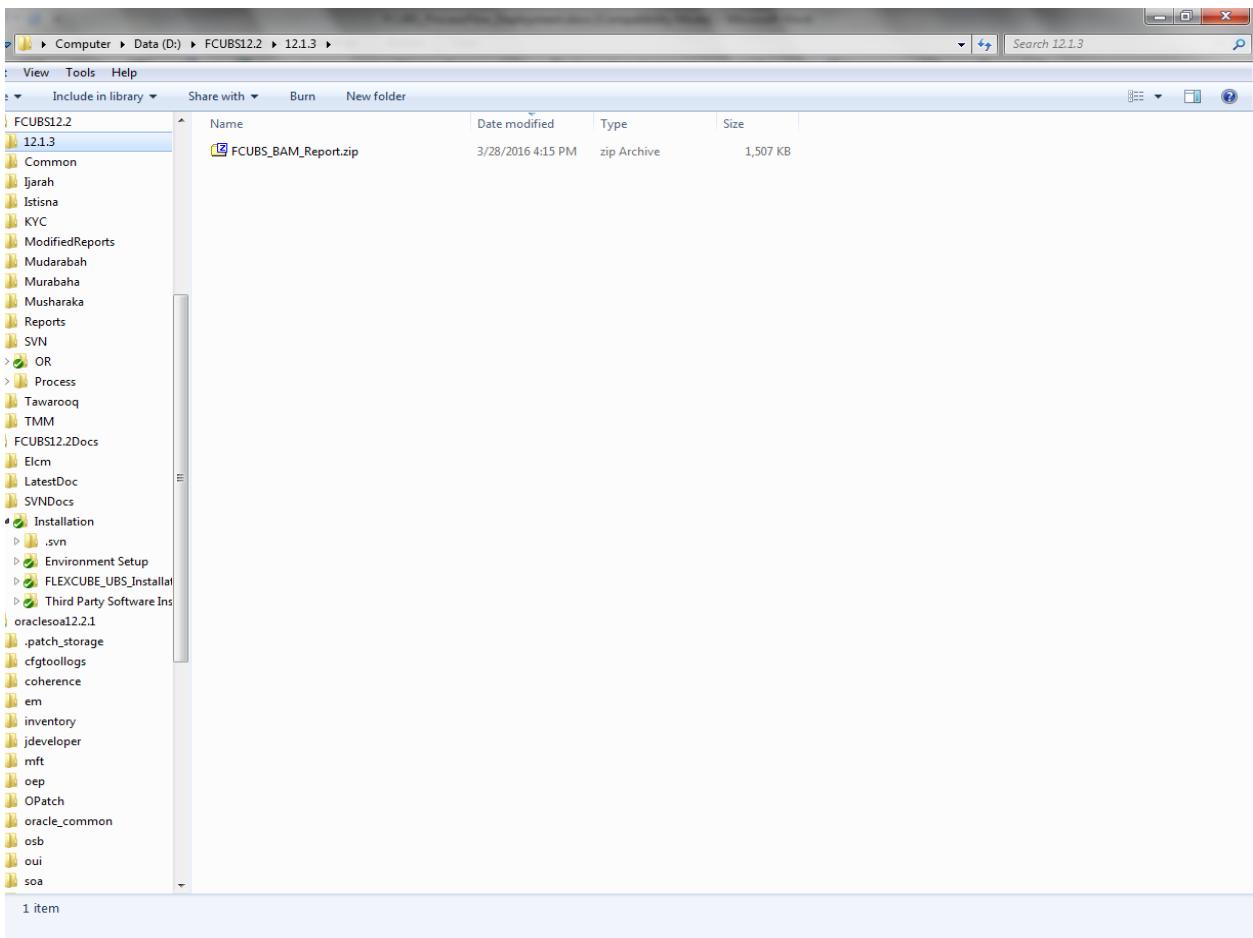
The screenshot shows the Oracle WebLogic Server Administration Console interface. The top navigation bar includes links for Home, Log Out, Preferences, Record, Help, and a search bar. The title bar indicates "Welcome, weblogic | Connected to: soa_domain". The left sidebar contains sections for Change Center, Domain Structure (showing "soa_domain" with various sub-nodes like Domain Partitions, Environment, Deployments, Services, Security Realms, Interoperability, and Diagnostics), and System Status (Health of Running Servers). A central panel titled "Summary of JDBC Data Sources" displays a table of data sources. The table has columns for Name, Type, JNDI Name, Targets, Scope, and Domain Partitions. The data source "SOADataSource" is listed in the table. Below the table are "New" and "Delete" buttons. The bottom of the screen shows a footer with copyright information: "WebLogic Server Version: 12.2.1.0.0", "Copyright (c) 1996-2015, Oracle and/or its affiliates. All rights reserved.", and "Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners."

Name	Type	JNDI Name	Targets	Scope	Domain Partitions
LocalSvcTblDataSource	Generic	jdbc/LocalSvcTblDataSource	AdminServer	Global	
mds-bam	Generic	jdbc/mds/beamComposer	AdminServer, bam_server1	Global	
mds-owsm	Generic	jdbc/mds/owsm	AdminServer, bam_server1, soa_server1	Global	
mds-soa	Generic	jdbc/mds/MDS_LocalTxDataSource	AdminServer, soa_server1	Global	
opss-audit-DBDS	Generic	jdbc/AuditAppendDataSource	AdminServer, bam_server1, soa_server1	Global	
opss-audit-viewDS	Generic	jdbc/AuditViewDataSource	AdminServer, bam_server1, soa_server1	Global	
opss-data-source	Generic	jdbc/OpssDataSource	AdminServer, bam_server1, soa_server1	Global	
OraSDPDataSource	Generic	jdbc/OraSDPDataSource	bam_server1, soa_server1	Global	
SOADataSource	Generic	jdbc/SOADataSource	bam_server1, soa_server1	Global	
SOALocalTxDataSource	Generic	jdbc/SOALocalTxDataSource	soa_server1	Global	

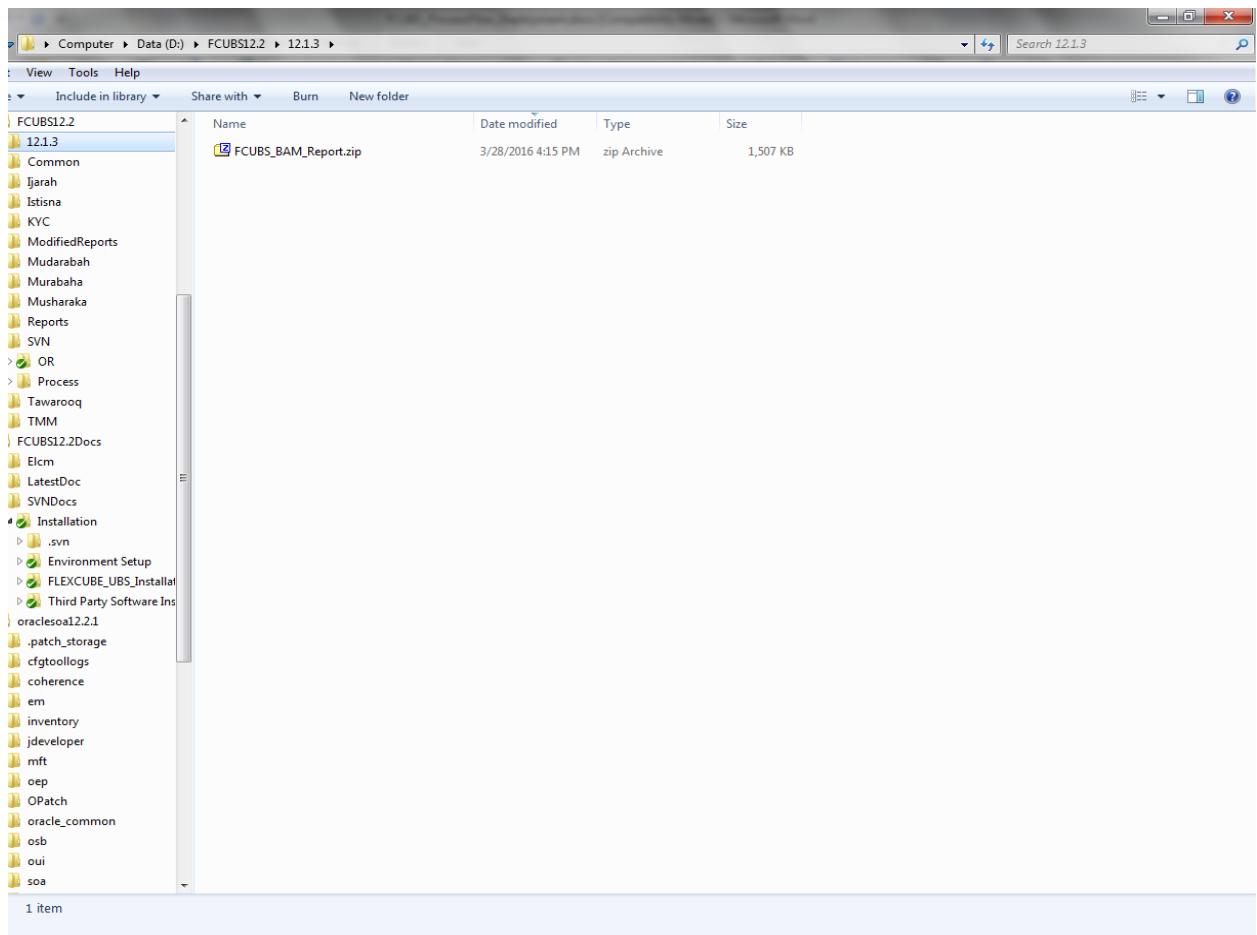
- 4) Click on Target tabs → Select bam_server check box → Click Save

The screenshot shows the Oracle WebLogic Server Administration Console interface. The left sidebar displays the 'Domain Structure' under 'soa_domain' with various nodes like Domain Partitions, Environment, Deployments, Services, Security Realms, Interoperability, and Diagnostics. Below it, a 'How do I...' section has 'Target JDBC data sources' selected. The main content area is titled 'Settings for SOADataSource' and shows the 'Targets' tab is active. A list of servers is shown with three checkboxes: 'AdminServer' (unchecked), 'bam_server1' (checked), and 'soa_server1' (checked). At the bottom right of the main panel is a 'Save' button. The bottom footer contains copyright information: 'WebLogic Server Version: 12.2.1.0.0', 'Copyright (c) 1996-2015, Oracle and/or its affiliates. All rights reserved.', and 'Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.'

- 5) Copy the FCUBS_BAM_Report.zip project from SVN
(/SOFT/MAIN/OR/Process_infra/Reports/BAM) to your local system.



- 6) Open the FCUBS_BAM_Report.zip → Dataobject → Update the Schema element with the SOA_INFRA schema name for Wftask_Different_Stages.xml, CUBE_INSTANCE.xml, FCUBSDATAOBJECTS.xml files .

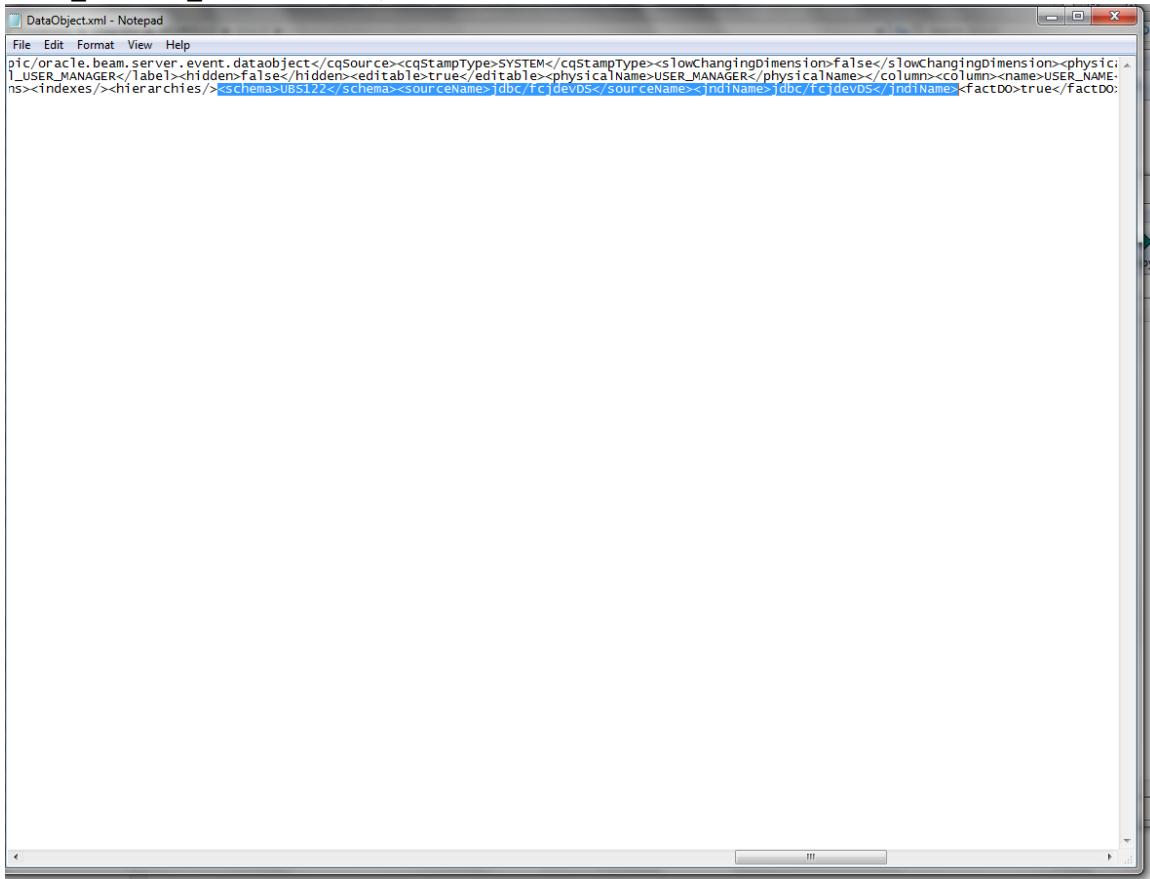


DataObject.xml - Notepad

File Edit Format View Help

```
<length>500</length><nullable>true</nullable><unique>false</unique><precision>38</precision><scale>10</scale><dataType>VARCHAR</dataType><columnType>ATTRIBUTE</columnType><label>label_IDENTIFICATIONKEY</label><hidden>false</hidden><editable>true</editable><physicalName>WORKFLOWDESCRIPTIONURI</physicalName><column><name>TASKDEFINITIONNAME</name><column><name>APPLICATIONCONTEXTID</name><id>10</id><internal>false</internal><systemManaged>false</systemManaged><length>10</length><nullable>true</nullable><unique>false</unique><precision>38</precision><scale>10</scale><dataType>VARCHAR</dataType><columnType>ATTRIBUTE</columnType><label>label_COMPOSITIONNAME</label><hidden>false</hidden><editable>true</editable><physicalName>CONVERSATIONID</physicalName><column><name>DUEDATE</name><id>d20de6730c9f04393d2dd07c9651</id><internal>false</internal><systemManaged>false</systemManaged><length>1</length><nullable>true</nullable><unique>precision>38</precision><scale>10</scale><dataType>VARCHAR</dataType><columnType>ATTRIBUTE</columnType><label>label_PARENTCOMP10</label><hidden>false</hidden><editable>true</editable><physicalName>PERCENTAGECOMPLETE</physicalName><column><name>READBYUSERS</name><column><name>PARENTTASKVERSION</name><id>dcf30e83ac8ff47d48fc2eb1ac99b6ea</id><internal>false</internal><systemManaged>false</systemManaged><length>200</length><nullable>true</nullable><unique>false</unique><precision>38</precision><scale>10</scale><dataType>VARCHAR</dataType><columnType>ATTRIBUTE</columnType><label>label_PARENTTASK10</label><hidden>false</hidden><editable>true</editable><physicalName>AGGREGATIONTASKID</physicalName><column><name>PARENTTASKID</name><id>67529103724a1ba1d8700648564</id><internal>false</internal><systemManaged>false</systemManaged><length>4000</length><nullable>true</nullable><unique>false</unique><precision>38</precision><scale>10</scale><dataType>VARCHAR</dataType><columnType>ATTRIBUTE</columnType><label>label_STAGE</label><hidden>false</hidden><editable>true</editable><physicalName>STAGE</physicalName><column><name>PREACTIONUSERSTEPS</name><column><name>AGGREGATIONTASKID</name><id>8d24f2d73cd4ea3897ca5a87608d919</id><internal>false</internal><systemManaged>false</systemManaged><length>1</length><nullable>true</nullable><unique>false</unique><precision>38</precision><scale>10</scale><dataType>VARCHAR</dataType><columnType>ATTRIBUTE</columnType><label>label_PROCESSSUDEDATE</label><hidden>false</hidden><editable>true</editable><physicalName>PROCESSSUDEDATE</physicalName><column><name>STEPID</name><id>17824295b48289f0398cb5a2e608</id><internal>false</internal><systemManaged>false</systemManaged><length>64</length><nullable>true</nullable><unique>false</unique><precision>38</precision><scale>10</scale><dataType>VARCHAR</dataType><columnType>ATTRIBUTE</columnType><label>label_TEXTATTRIBUTEL4</label><hidden>false</hidden><editable>true</editable><physicalName>TEXTATTRIBUTEL4</physicalName><column><name>TEXTATTRIBUTEL16</name><id>31b7e5354d24b060624283d0fa3e</id><internal>false</internal><systemManaged>false</systemManaged><length>2000</length><nullable>true</nullable><unique>false</unique><precision>38</precision><scale>10</scale><dataType>VARCHAR</dataType><columnType>ATTRIBUTE</columnType><label>label_FORMATATTRIBUTEL8</label><hidden>false</hidden><editable>true</editable><physicalName>FORMATATTRIBUTEL0</physicalName><column><name>URLATTRIBUTEL0</name><id>ba021c6dab6b9b017c69007c0882</id><internal>false</internal><systemManaged>false</systemManaged><length>200</length><nullable>true</nullable><unique>false</unique><precision>38</precision><scale>10</scale><dataType>VARCHAR</dataType><columnType>ATTRIBUTE</columnType><label>label_DATEATTRIBUTEL9</label><hidden>false</hidden><editable>true</editable><physicalName>DATEATTRIBUTEL9</physicalName><column><name>NUMBERATTRIBUTEL6</name><column><name>NUMBERATTRIBUTEL7</name><id>d41e2543e1334e19b9f48468f6dc0af</id><internal>false</internal><systemManaged>false</systemManaged><length>38</length><nullable>true</nullable><unique>false</unique><precision>38</precision><scale>10</scale><dataType>VARCHAR</dataType><columnType>ATTRIBUTE</columnType><label>label_PROTECTEDTEXTATTRIBUTEL15</label><hidden>false</hidden><editable>true</editable><physicalName>PROTECTEDTEXTATTRIBUTEL19</physicalName><column><name>PROTECTTEXTEVENTID</name><id>dc66f3328478df5b59a608</id><internal>false</internal><systemManaged>false</systemManaged><length>200</length><nullable>true</nullable><unique>false</unique><precision>38</precision><scale>10</scale><dataType>INT</dataType><columnType>ATTRIBUTE</columnType><label>label_PROTECTEDNUMBERATTRIBUTEL6</label><hidden>false</hidden><editable>true</editable><physicalName>PROTECTEDNUMBERATTRIBUTEL0</physicalName><column><name>CASEID</name><id>0fbfce193dc40e8b4140f8866b4bc84</id><internal>false</internal><systemManaged>false</systemManaged><length>7</length><nullable>true</nullable><unique>false</unique><precision>38</precision><scale>10</scale><dataType>DATETIME</dataType><columnType>ATTRIBUTE</columnType><label>label_PROTECTEDNUMBERATTRIBUTEL6</label><hidden>false</hidden><editable>true</editable><physicalName>CASEID</physicalName><column><name>TENANT_ID</name><id>9d3t10</id><internal>false</internal><systemManaged>false</systemManaged><length>3</length><nullable>true</nullable><unique>false</unique><precision>38</precision><scale>10</scale><dataType>VARCHAR</dataType><columnType>ATTRIBUTE</columnType><label>label_CUSTOMATTRIBUTENUMBER2</label><hidden>false</hidden><editable>true</editable><physicalName>CUSTOMATTRIBUTEDATE2</physicalName><column><name>FORMNAME</name><id>065faaab7d1b40ad2e752ade5464a3</id><internal>false</internal><hierarchies><schema>DEVFCI122_SOAINFRA</schema><sour ceName>SOAdataSour ce</sour ceName><ind1Name>Jdbc_SOAdataSour ce</ind1Name><factDo>true</factDo>
```

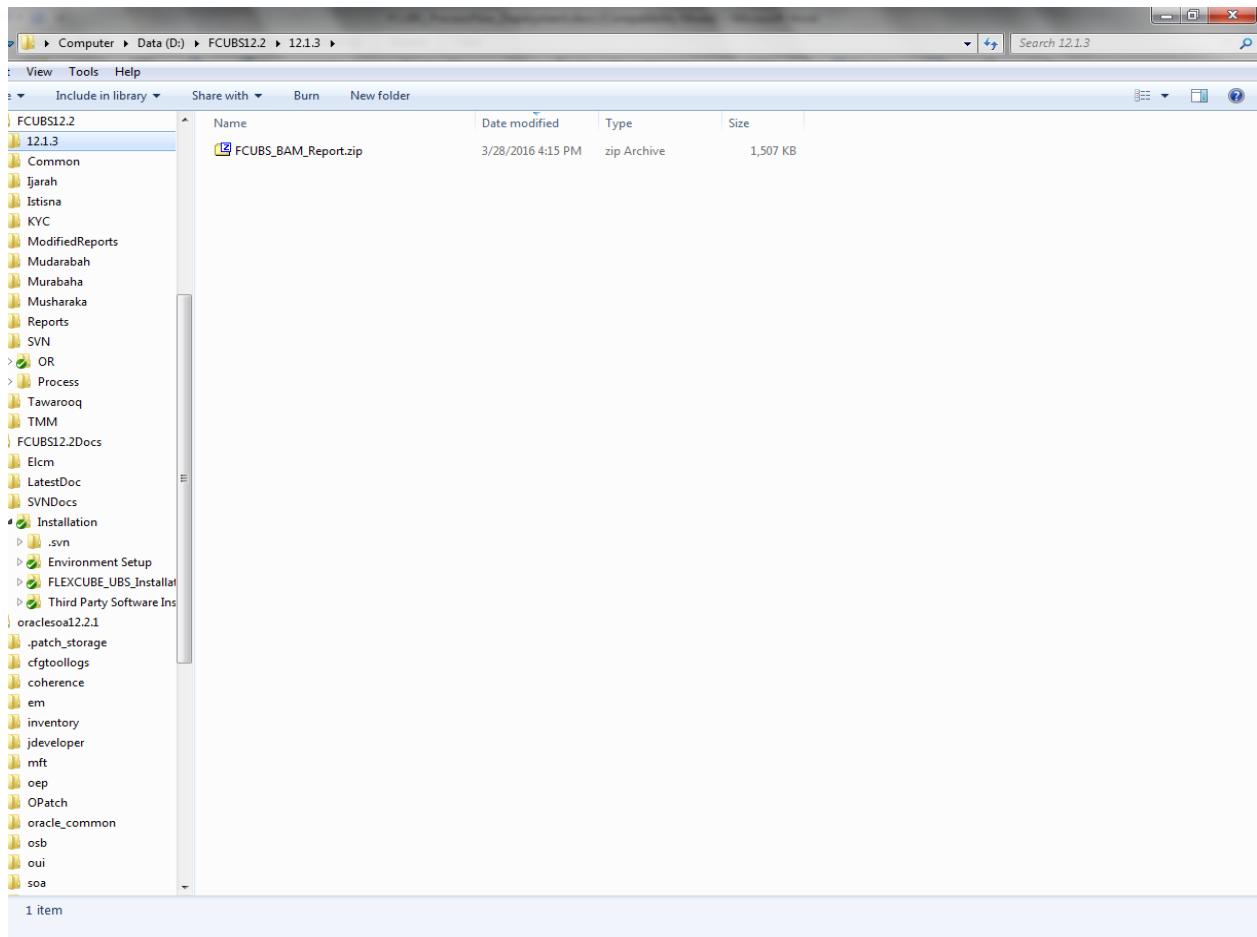
- 7) Open the FCUBS_BAM_Report.zip → Dataobject → Update the Schema element with the FCUBS schema name for SMTB_USER_TYPE_CONVERSION_VIEW.xml, ORVW_TRACK_EXPOSURE.xml, ORVW_FACILITY_EXPOSURE.xml, GetUtilsDB.xml files.

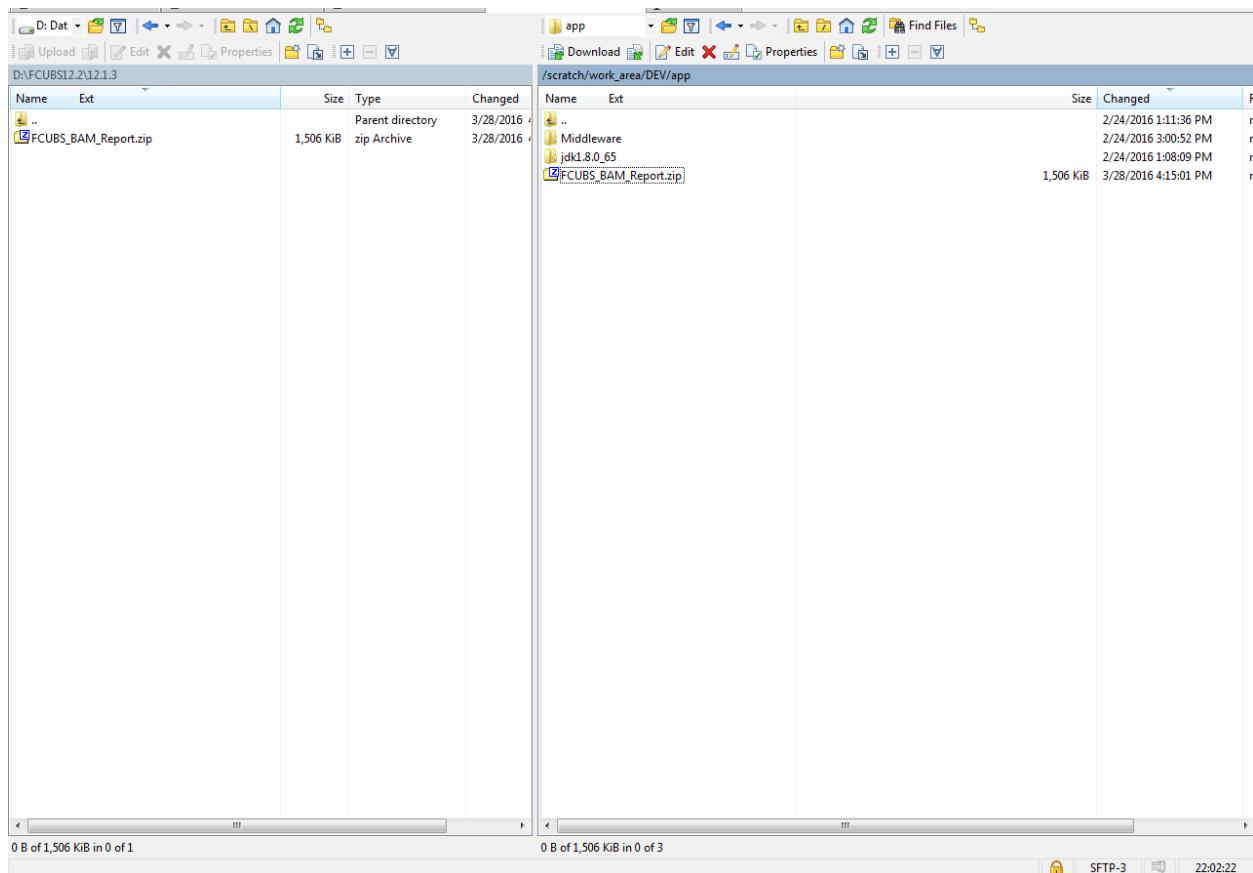


The screenshot shows a Windows Notepad window with the title "DataObject.xml - Notepad". The menu bar includes File, Edit, Format, View, and Help. The XML code in the main pane is as follows:

```
<pic/oracle.beam.server.event.dataobject><cqSource><cqStampType>SYSTEM</cqStampType><slowChangingDimension>false</slowChangingDimension><physicalName>USER_MANAGER</physicalName><column><name>USER_NAME</name><indexes><index><schema>UBS122</schema><sourceName>jdbc/fc1dev05</sourceName><jndiName>jdbc/fc1dev05</jndiName><factDo>true</factDo>
```

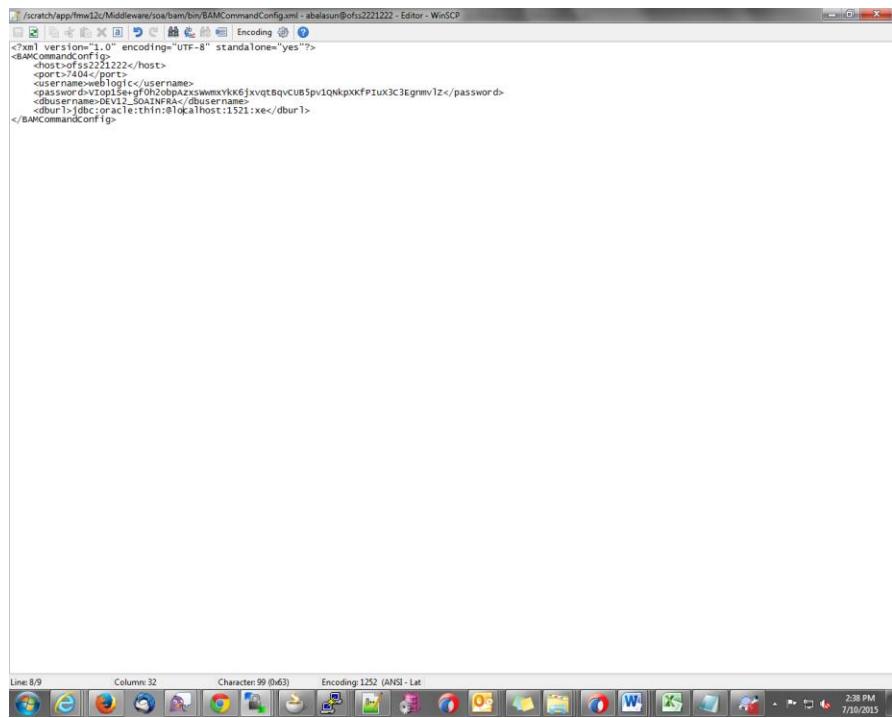
8) Move the BAM Project Unit (.Zip) Local to server location.





- 9) Configure the BAM server location ,port username and password in BAMCommandConfig.xml. It is available in MIDDLEWARE_HOME\soa\bam\bin\BAMCommandConfig.xml

EX:



The screenshot shows a Windows command-line interface window titled "WinSCP - Editor". The command entered is "/scratch/app/middleware/soa/bam/bin/BAMCommandConfig.xml". The content of the file is displayed in the editor:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<BAMCommandConfig>
    <host>ofss221222</host>
    <ports>7404</ports>
    <username>DEV12_SOAINRAA</username>
    <password>V1Op1Segf0ZobpaxsWmxYkk6jxvqt8qvCu85pv1QnkpxxF1uX3C3Egnmv1z</password>
    <dburl>jdbc:oracle:thin:@localhost:1521:xe</dburl>
</BAMCommandConfig>
```

At the bottom of the window, there is a toolbar with various icons and status information: Line: 8/9, Column: 32, Character: 99 (0x63), Encoding: 1252 (ANSI - Lat), 2:38 PM, 7/10/2015.

- 10) Set proper JAVA_HOME.

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

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

```
./bamcommand -cmd import -file /scratch/work_area/DEV/app/FCUBS_BAM_Report.zip -mode append
```

from the below path MIDDLEWARE_HOME\soa\bam\bin.

```
Enter User Name: weblogic
Enter Password:
Connecting to BAM Server.."weblogic@10.184.133.168:7404".
Connected to BAM Server successfully.
Attempting import of artifacts from file "/scratch/work_area/DEV/app/FCUBS_BAM_Report.zip".....
"FCUBS_BAM_Report" has been imported successfully from file "/scratch/work_area/DEV/app/FCUBS_BAM_Report.zip" in 63,498 milliseconds.
Import of 1 artifacts completed successfully in 64,251 milliseconds.
[fmw122@ofss220216 bin]$ ./bamcommand -cmd import -file /scratch/work_area/DEV/app/FCUBS_BAM_Report.zip -mode append

Oracle BAM Import/Export Utility [Build 1, BAM Repository Version 2020] Copyright © 2014, Oracle and/or its affiliates. All rights reserved.
Enter User Name: weblogic
Enter Password:
Connecting to BAM Server.."weblogic@10.184.133.168:7404".
Connected to BAM Server successfully.
Attempting import of artifacts from file "/scratch/work_area/DEV/app/FCUBS_BAM_Report.zip".....
"FCUBS_BAM_Report" has been imported successfully from file "/scratch/work_area/DEV/app/FCUBS_BAM_Report.zip" in 75,498 milliseconds.
Import of 1 artifacts completed successfully in 75,815 milliseconds.
```



FCUBS Process Flow Deployment
[December] [2017]
Version 14.0.0.0

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