Setting up Plug-Ins
Oracle FLEXCUBE Investor Servicing
Release 12.0.3.0.0
[April] [2014]

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1. Setting up Plug-Ins

1.1 Introduction

You need to carry out certain tasks manually before Oracle FLEXCUBE deployment. This document details out the pre-deployment tasks based on the on the selected plug-ins.

1.2 Integrating Oracle FLEXCUBE IS and BPEL

If you have created the EAR file with BPEL as a plug-in, then along with the Oracle FLEXCUBE IS EAR file, the Installer creates 'FCBPELCIS.jar' file. You need to complete the following tasks before deploying Oracle FLEXCUBE IS EAR file.

1.2.1 Configuring JPS

For configuring JPS, you need to follow the steps given below:

1. Go to the location – '<ORACLE_HOME>\Middleware\user_projects\domains\<Domain_created>\config\fmwconfig'

   Open 'jps-config.xml' file. Search for '<serviceProviders>' tag and add the following code between '<serviceProviders>' and '</serviceProviders>' tags.

   ```
   <serviceProvider class="com.ofss.fcc.bpel.security.jps.service.FCIdentityServiceProvider" name="idstore.db.provider" type="IDENTITY_STORE">

   <description>DB IdentityStore Provider</description>

   </serviceProvider>
   ```

   Similarly, Search for '<serviceInstances>' tag and add the following code between '<serviceInstances>' and '</serviceInstances>' tags.

   ```
   <serviceInstance provider="idstore.db.provider" name="idstore.db">

       <property value="flexcube" name="sIScriber.name"/>

       <property value="jdbc/fcjdevDS" name="datasource"/>

   </serviceInstance>
   ```

   Make sure that the JNDI (jdbc/fcjdevDS) matches the value given during property file creation.

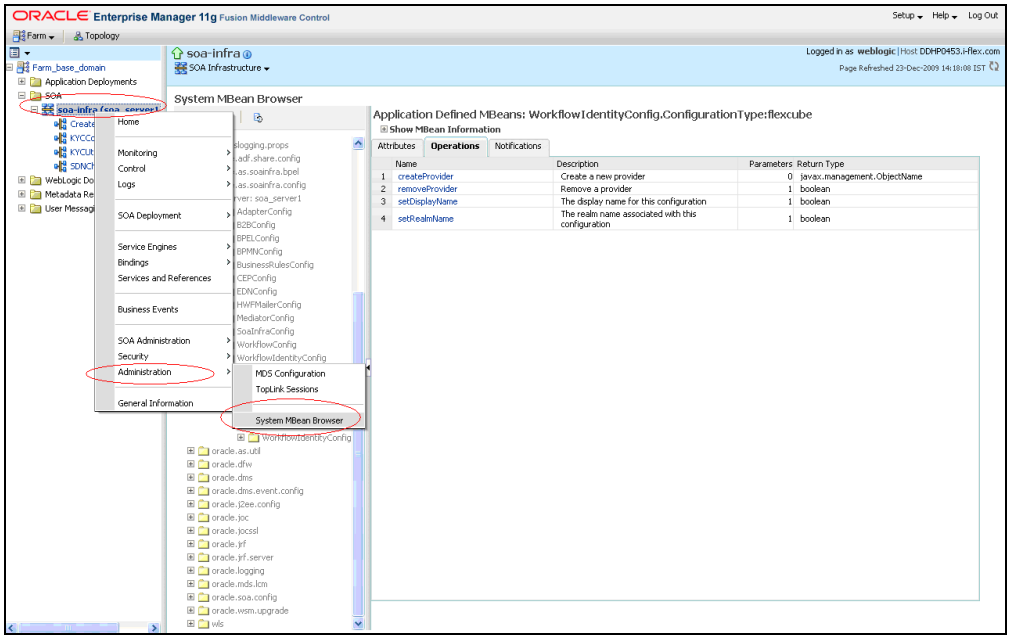
2. Search for '<jpsContexts default="default">' tag and add the following code between '<jpsContexts default="default">' and '</jpsContexts>', preferably after the default 'jpsContext'.

```
<jpsContext name="flex">
        <serviceInstanceRef ref="credstore"/>
    <serviceInstanceRef ref="keystore"/>
    <serviceInstanceRef ref="policystore.xml"/>
    <serviceInstanceRef ref="audit"/>
    <serviceInstanceRef ref="idstore.db"/>
</jpsContext>
```

1.2.2 Configuring Work Flow Identity

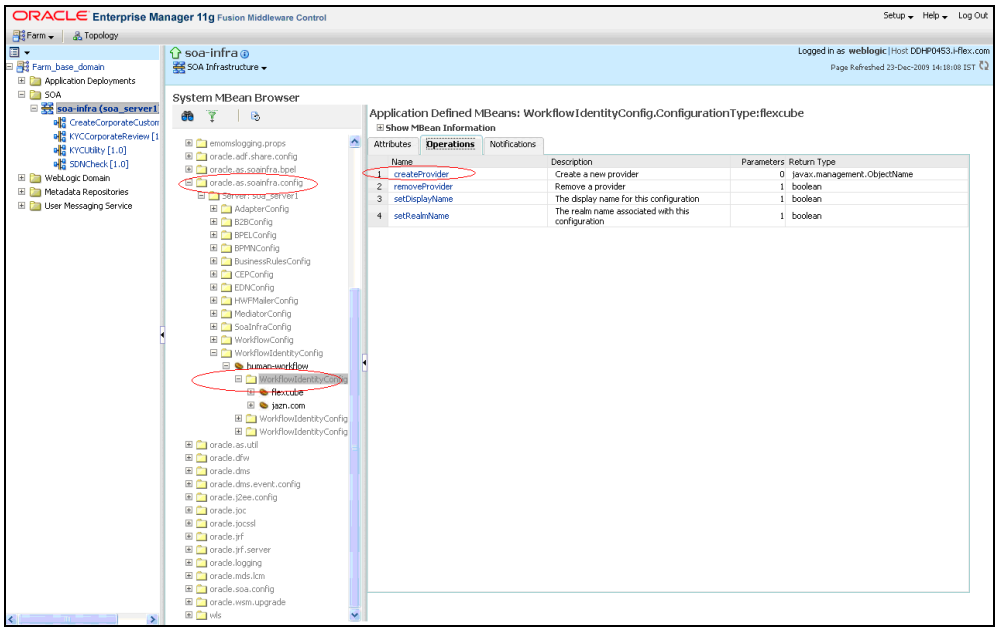
You need to configure the workflow identity details from Enterprise Manager Console of the SOA. To configure workflow identity details, follow the steps given below.

1. Login to EM Console. Expand the SOA.

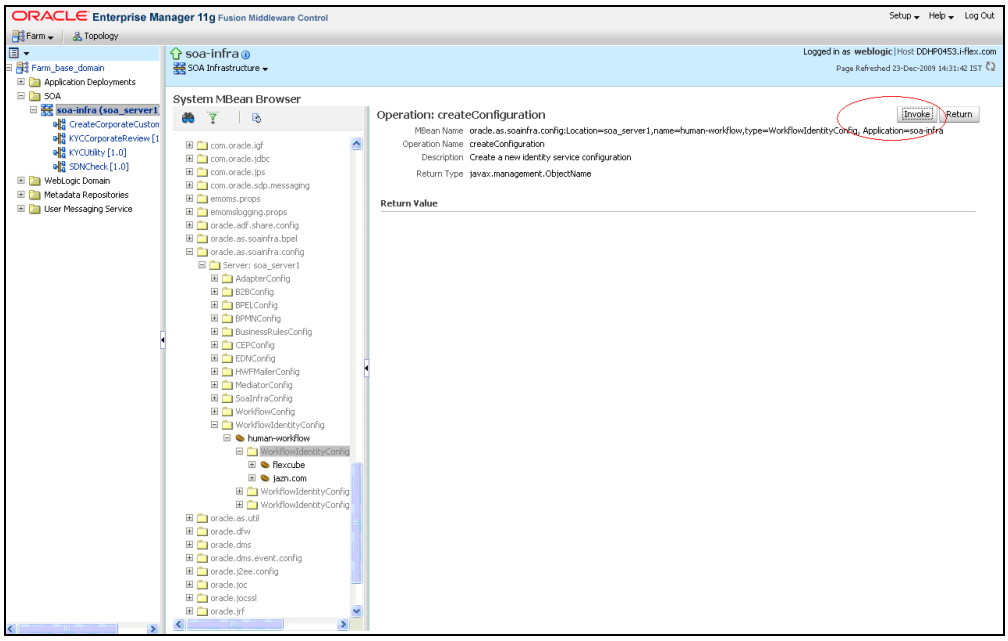


2. Right click ‘soa-infra(soa-server1)’, choose ‘Administration’ and click ‘System MBean Browser’ under it.

3. Further, under System MBean Browser, go to ‘oracle.as.soainfra.config > Server: soa_server1 > WorkflowIdentityConfig > human-workflow’.



4. Under the ‘Operations’ tab, choose ‘createProvider’ option. The following screen is displayed.

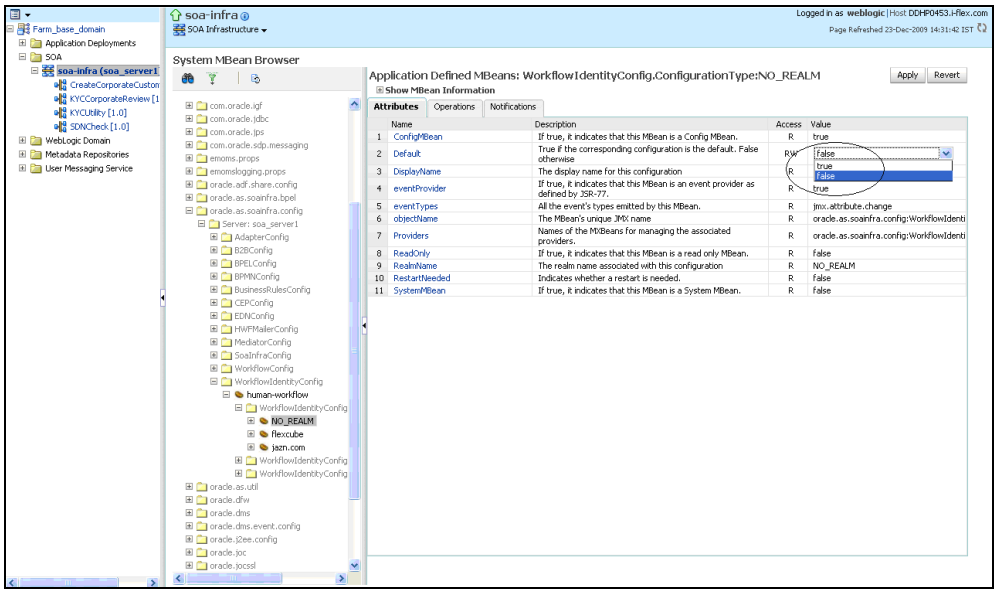


5. Click ‘Invoke’ button. The SOA displays the following confirmation message.

Confirmation

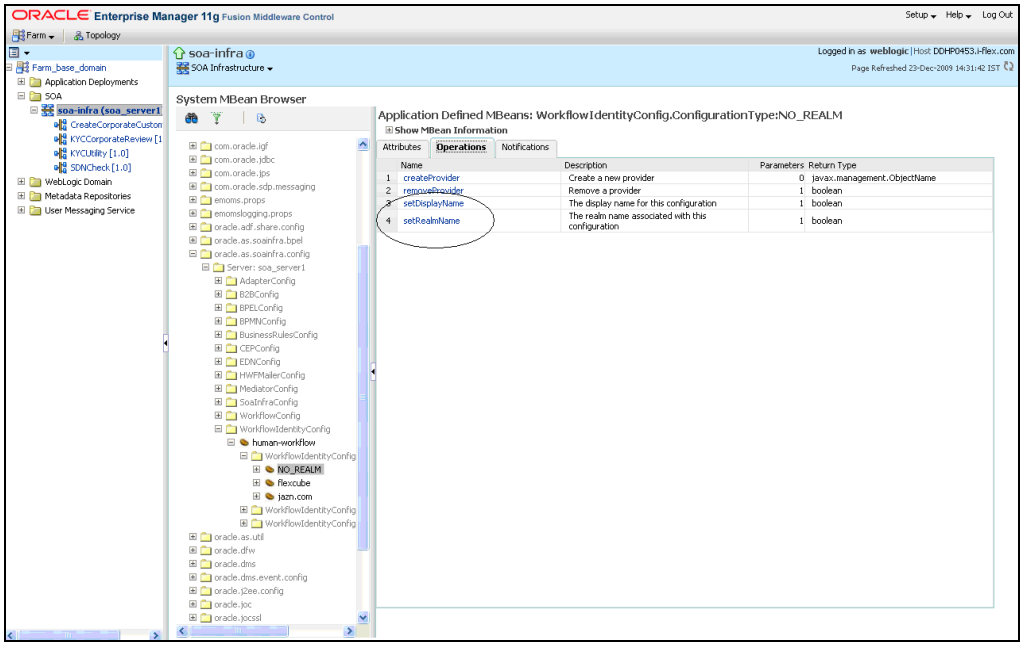
Operation executed successfully.

6. Refresh ‘MBean’ browser. Go to ‘WorkflowIdentityConfig.ConfigurationType’ under ‘human-workflow’.

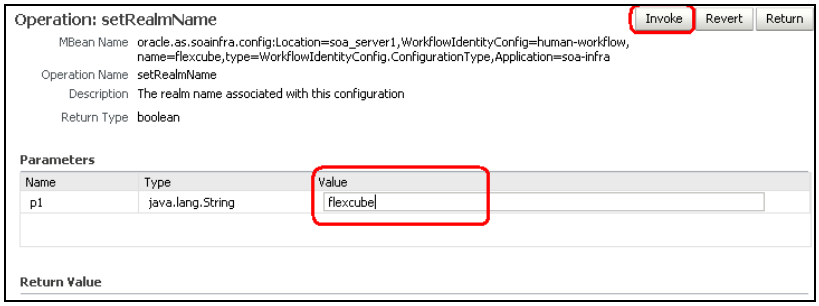


7. Click ‘NO_REALM’. On the right side, select ‘Attributes’ tab and change the value of ‘Default’ from NO_REALM to ‘true’.

8. Further, under the ‘Operations’ tab, click ‘setRealmName’.



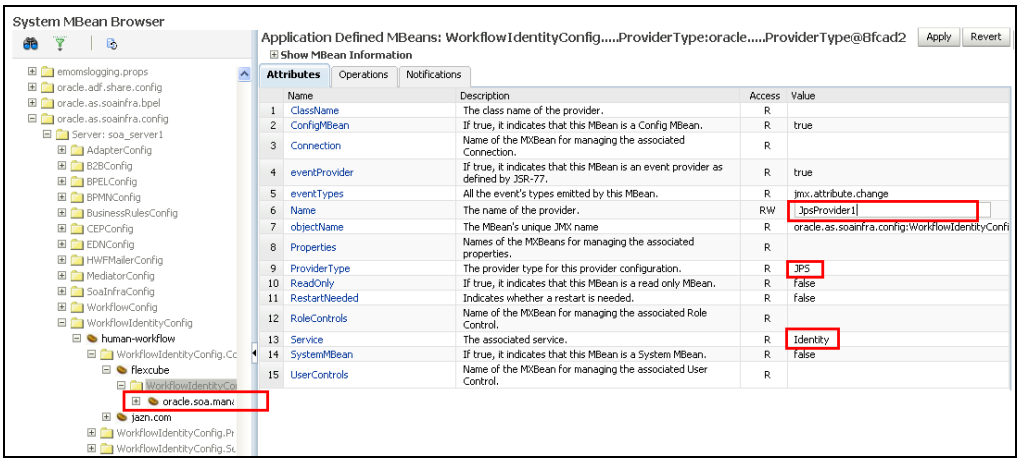
9. The following screen is displayed:



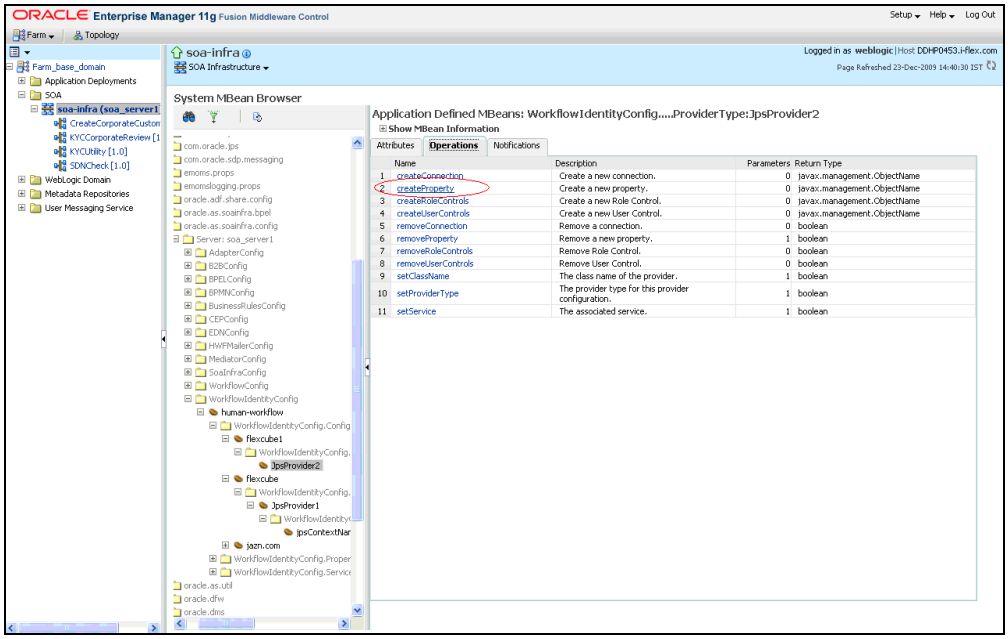
10. Specify the value of the parameter as ‘flexcube’ and click ‘Invoke’ button.

11. Refresh the ‘MBean’ browser. Go to flexcube > WorkflowIdentityConfig.ConfigurationType.ProviderType > oracle.soa.management.config.identity.ProviderType@.... Under the ‘Attributes’ tab, you need to make sure that the values of the following attributes are as per the table below:

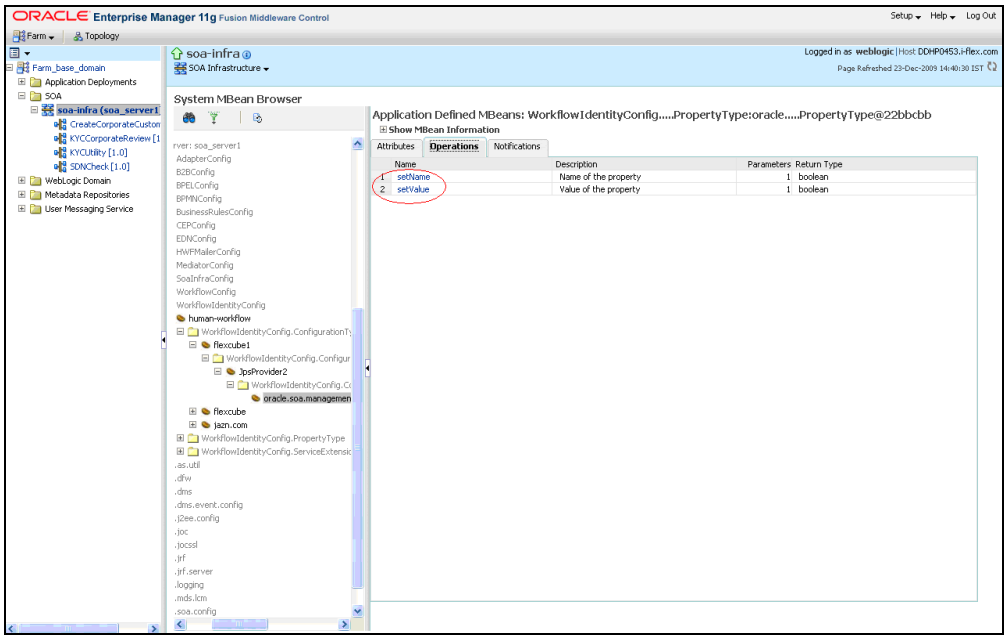
Attribute	**Value**
Name	JpsProvider1
PropertyType	JPS
Service	Identity



12. Under ‘Operations’ tab, select the operation ‘CreateProperty’ and click ‘Invoke’ button. A new Property is created under ‘JpsProvider1’.



13. Select the new property and change its Name and Value.

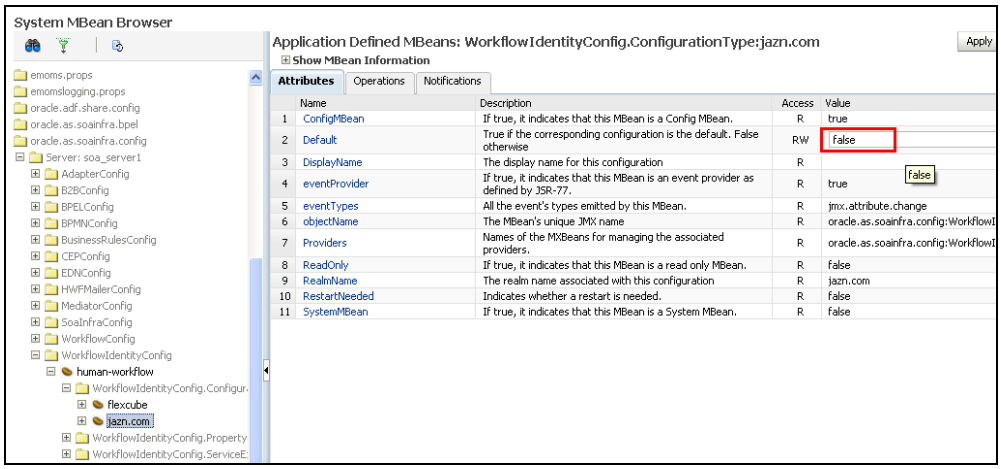


14. You can use the options ‘setName’ and ‘setValue’ to update the name and value. Change the name and value as per the following table.

Name	**Value**
jpsContextName	flex

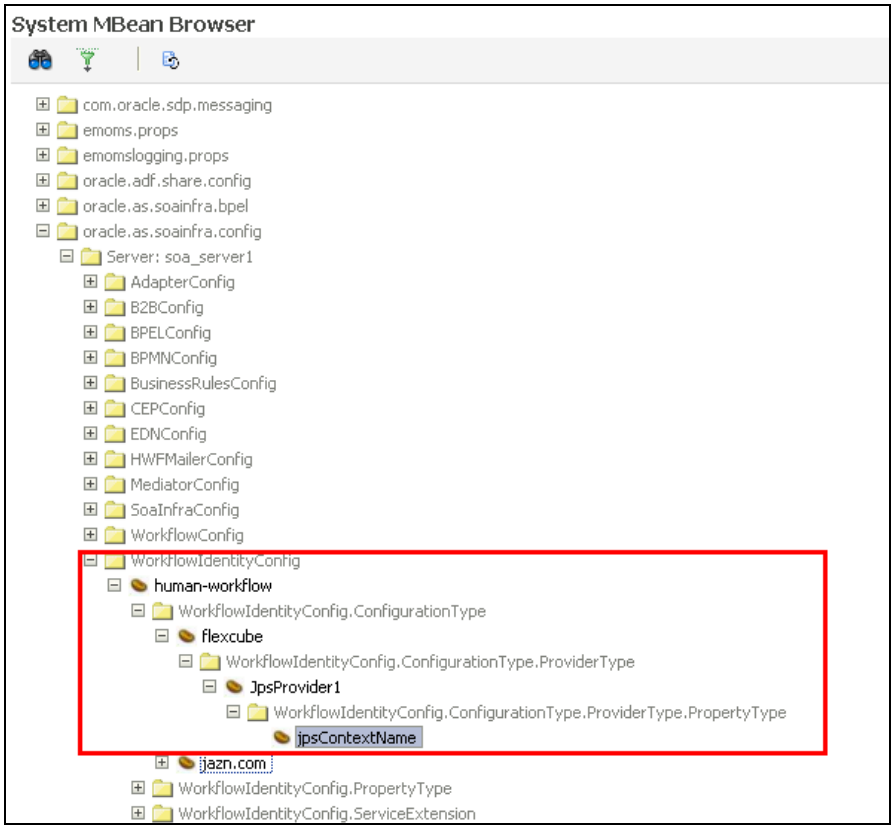
The value ‘flex’ should match the value given for ‘jpsContext’ during JPS configuration.

15. From the ‘System MBean Browser’ select ‘jazn.com’.

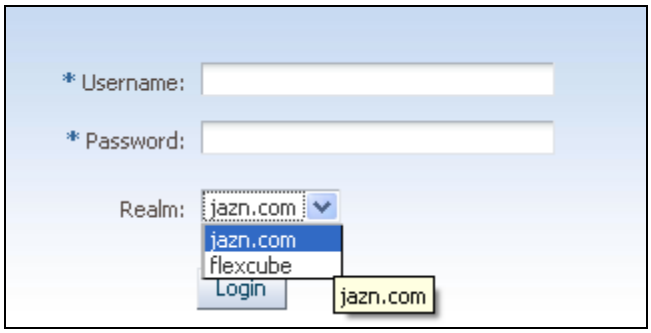


16. Under ‘Attributes’ tab, change the value of the attribute ‘Default’ to ‘false’.

17. Now, restart the Weblogic and SOA servers. After restarting the servers, make sure the structure is as follows.



18. Launch the 'SOA Worklist App' using the following URL:
    http://(IP_Address):(soa_server-port_no)/integration/worklistapp
    You will get the login page.



19. Under Realm, the drop-down list should show the options 'flexcube' and 'jazn.com'. Verify the details.

1.2.3 Configuring CIS

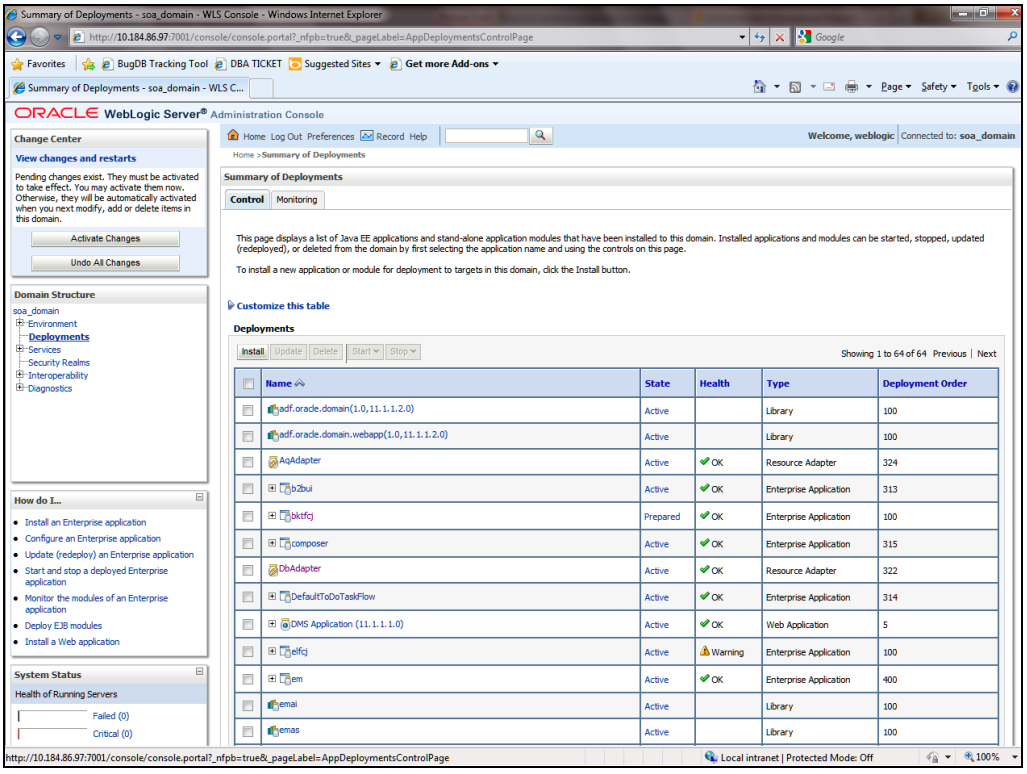
You need to configure the CIS details. Follow the steps given below:

1. Along with the Oracle FLEXCUBE IS EAR file, the Installer creates 'FCBPELCIS.jar' file.
2. Create a folder by name 'classes' at the location '<MIDDLEWARE_HOME>Oracle_SOA1\soa\modules\oracle.soa.ext_11.1.x'.
3. Extract the file 'FCBPELCIS.jar' and copy the content of the folder 'com' to: '<MIDDLEWARE_HOME>Oracle_SOA1\soa\modules\oracle.soa.ext_11.1.x\classes'.
4. Now, navigate to the location '<MIDDLEWARE_HOME>Oracle_SOA1\soa\modules\oracle.soa.ext_11.1.x\classes\com\ofss\fcc\bpel\' and delete the folders 'dao' and 'security'.
5. Navigate to the location '<MIDDLEWARE_HOME>Oracle_SOA1\soa\modules\oracle.soa.ext_11.1.x\classes\com\ofss\fcc\bpel\cac'. Edit the properties file 'CISProperties.properties' and update 'JNDI.name' with the JNDI name defined in the properties file 'fcubs.properties'.
6. Copy 'FCBPELCIS.jar' to '<MIDDLEWARE_HOME>/user_projects/domains/<domain_name>/lib
7. Once the above steps are completed, restart the server.

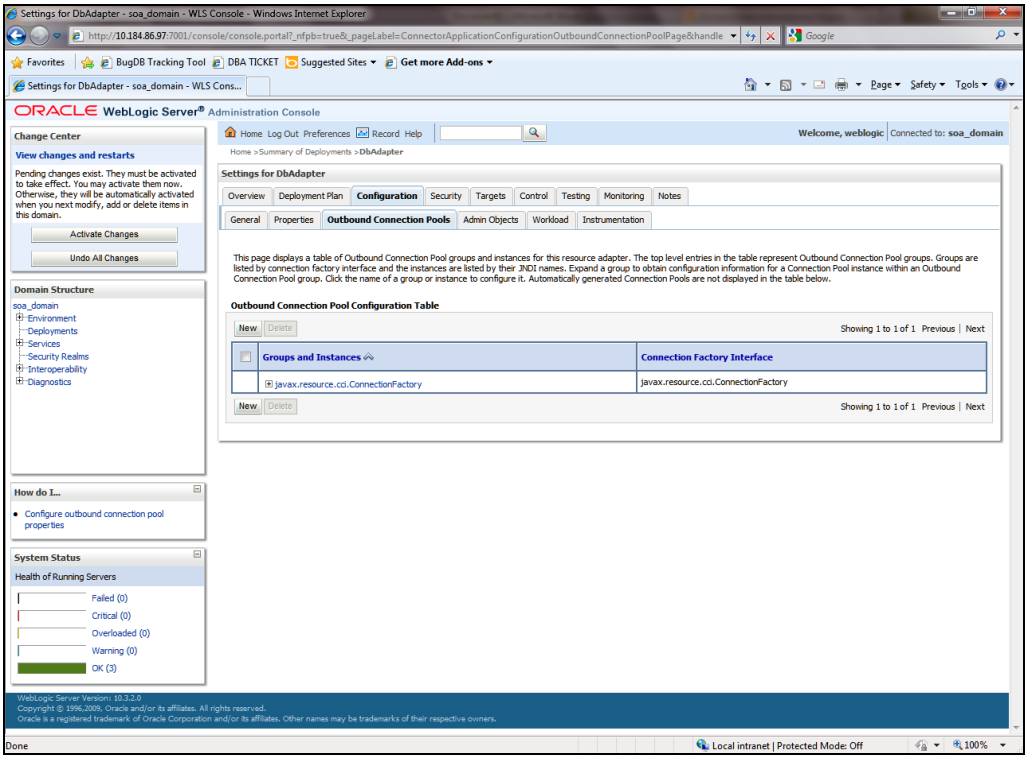
1.2.4 Configuring DBAdapter

In order to configure DBAdapter, follow the steps given below.

1. Log in to 'Weblogic Console' and click 'Deployment' under 'Domain Structure'.



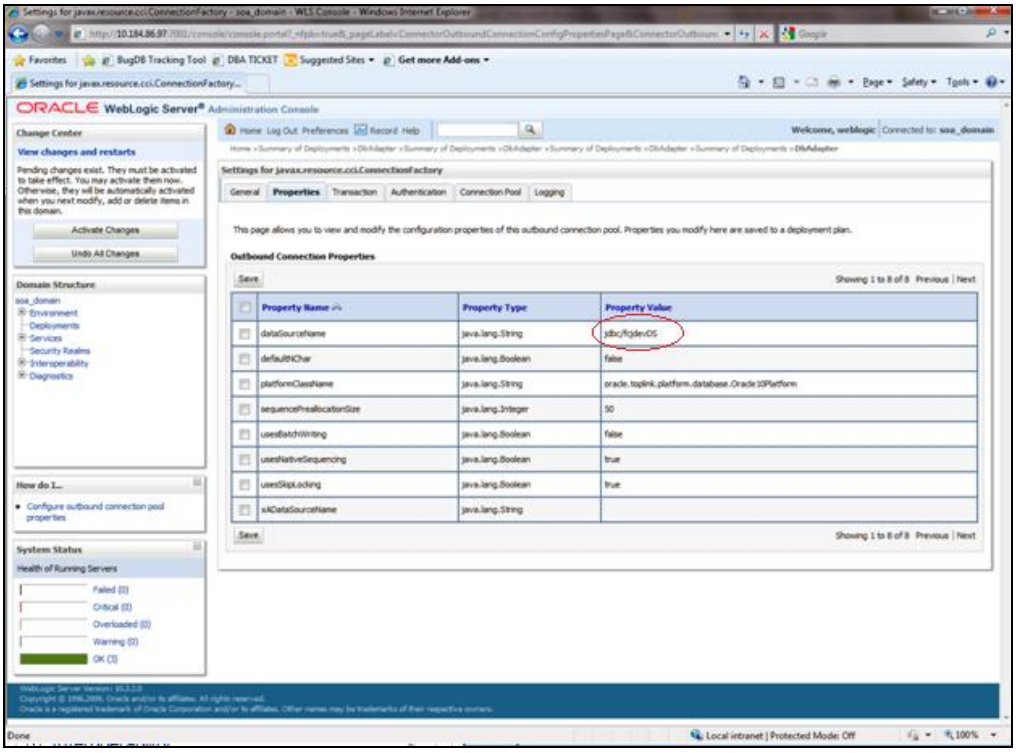
2. In the Deployments table, select ‘DbAdapter’. You will be navigated to ‘Settings for DbAdapter’.



3. Click ‘Configuration’ tab and select ‘Outbound Connection Pools’ under it.
4. Under ‘Groups and Instances’, click and expand ‘javax.resource.cci.ConnectionFactory’.
5. Click ‘New’ and select ‘javax.resource.cci.ConnectionFactory' in Outbound Connection Group.
6. Define ‘JNDI Name’ as ‘eis/DB/FCCDEV’ and click on ‘Finish’.

The ‘jndi name’ should be the same as the one in ‘Dbutility sub-process’.

7. Click ‘DbAdapter’ again. The new JNDI name is listed.
8. Click on the hyperlink ‘eis/DB/FCCDEV’.



9. Click the ‘Property Value’ field for the ‘DataSourceName’ and update the application JNDI reference (given in ‘fcubs.properties’ file) and then press ‘Enter’ key.
10. Save and restart the Adminserver.

1.3 Integrating Oracle FLEXCUBE IS and Scheduler

Before deploying the Oracle FLEXCUBE IS EAR file, you need to carry out the following tasks.

1.3.1 Running Backend Scripts

You need to compile certain tables pertaining to Scheduler in the schema to which the Application points. The version of Quartz to be used is Latest Qualified Version.

Follow the steps given below:

1. Download Quartz Latest Qualified Version.gz file from the following URL: http://www.quartz-scheduler.org/download/download-catalog.html

1. Extract the gz file.

2. Open the folder 'Quartz-Latest Qualified Version \docs\dbTables' folder and run 'tables_oracle.sql' (this is specific to Oracle Database) in the schema.

For details on latest version of the software qualified with Oracle FLEXCUBE, refer to the release certificate.

1.4 Integrating Oracle FLEXCUBE IS and BIP Reports

You can integrate Oracle FLEXCUBE IS and BIP reports. The details are available in the chapter 'BIP Web Service Reports'.

1.4.1 Deploying Application Through Application Server's Admin Console

Deployment from Weblogic Administration Console

You can find the details pertaining to the deployment of Application using Weblogic Administration Console in the chapter 'Deploying Oracle FLEXCUBE Application on Weblogic'.

1.5 Integrating Oracle FLEXCUBE IS and MBean

In order to integrate Oracle FLEXCUBE IS and MBean, you need to follow the below steps before deploying the Oracle FLEXCUBE IS EAR file created with MBean as a Plugin.

1.5.1 Startup Script Modification

By default, the TopLink used in MBean uses Oracle xml parser internally. However, Weblogic Server has to use JAXPlatform.

To change the system property, follow the steps given below:

1. Go to the Weblogic domain home folder.

2. Based on the operating system used, open 'startWeblogic.cmd' or 'startWeblogic.sh' from the folder 'bin'.

3. Search for 'WLS_REDIRECT_LOG'. After '%JAVA_OPTIONS%' add the following code under 'if' and 'else' conditions.

   "-Dtoplink.xml.platform=oracle.toplink.platform.xml.jaxp.JAXPPlatform"

   Now, the details will look like this:

```
if "%WLS_REDIRECT_LOG%"=="" (

   echo Starting WLS with line:
```

```
   echo %JAVA_HOME%\bin\java %JAVA_VM% %MEM_ARGS% -
Dweblogic.Name=%SERVER_NAME% -
Djava.security.policy=%WL_HOME%\server\lib\weblogic.policy
%JAVA_OPTIONS% %PROXY_SETTINGS% %SERVER_CLASS%

   %JAVA_HOME%\bin\java %JAVA_VM% %MEM_ARGS% -
Dweblogic.Name=%SERVER_NAME% -
Djava.security.policy=%WL_HOME%\server\lib\weblogic.policy
%JAVA_OPTIONS% -
Dtoplink.xml.platform=oracle.toplink.platform.xml.jaxp.JAXPPlatform
%PROXY_SETTINGS% %SERVER_CLASS%

) else (

   echo Redirecting output from WLS window to %WLS_REDIRECT_LOG%

   %JAVA_HOME%\bin\java %JAVA_VM% %MEM_ARGS% -
Dweblogic.Name=%SERVER_NAME% -
Djava.security.policy=%WL_HOME%\server\lib\weblogic.policy
%JAVA_OPTIONS% -
Dtoplink.xml.platform=oracle.toplink.platform.xml.jaxp.JAXPPlatform
%PROXY_SETTINGS% %SERVER_CLASS%  >"%WLS_REDIRECT_LOG%" 2>&1

)
```

4. Restart the Weblogic server.

Setting up Plug - Ins
[April] [2014]
Version 12.0.3.0.0

Oracle Financial Services Software Limited
Oracle Park
Off Western Express Highway
Goregaon (East)
Mumbai, Maharashtra 400 063
India

Worldwide Inquiries:
Phone: +91 22 6718 3000
Fax:+91 22 6718 3001
www.oracle.com/financialservices/