

# Application Installation Guide

12.5.0.0

Oracle FLEXCUBE Lending and Leasing

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Oracle Part Number E51562-01



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## Document Control

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## Table of Contents

1.	Flexcube Lending and Leasing Application Deployment .....	3
1.1	Flexcube Lending and Leasing Web based Application.....	3
2.1	Reports on Business Intelligence Publisher .....	31
2.	Appendix 1.....	35
2.1	Create Role.....	35
2.2	Create User.....	37
3.	Appendix 2 Installing Manually into a J2EE Application Server .....	38
3.1	Installation Process Overview.....	39
3.2	Oracle AS 10.1.3 and OC4J 10.1.3 Deployment.....	39
3.3	Configuring the BI Publisher Repository and Installing Fonts .....	40

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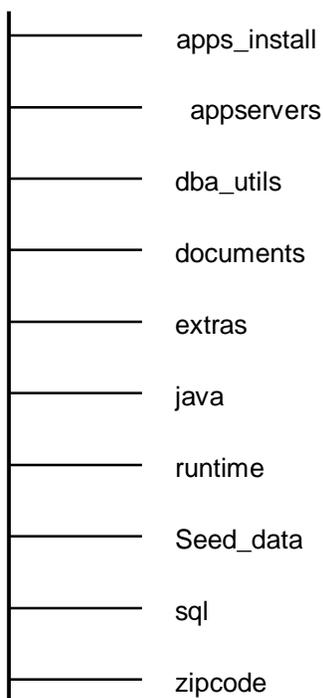
# **1. Flexcube Lending and Leasing Application Deployment**

Flexcube Lending and Leasing application deployment involves deployment of following application components:

1.1 Flexcube Lending and Leasing Web based Application

1.2 Business Intelligence Publisher Reports

Flexcube Lending and Leasing installer media contains the following structure:



The middleware installation items / scripts are placed under apps\_install subdirectory under the installation root directory in the installation media.

## **1.1 Flexcube Lending and Leasing Web based Application**

Flexcube Lending and Leasing application can be deployed in two ways:

- Command line installation
- GUI (using Enterprise Manager Console)

## **FLL application deployment using Command Line:**

FLL Application can be deployed through command line using the installer script.

1. Following information is required during the installation.

- Application server
  - i. Oracle Application server Home:  
(For example: /oracle/orapps/product/10.1.3.1/OracleAS\_1)
  - ii. HTTP listening Port of OC4J
  - iii. ORMI port:  
(You can get to know by running command \$ORACLE\_HOME/opmn/bin/opmnctl status – port)
  - iv. Application Server Administrative login: (usually oc4jadmin)
  - v. Application Server admin password
  - vi. Oracle Application Server type installation: like standalone, managed or cluster
  - vii. The OC4J Instance Name
  
- Database server
  - i. Database Host Name: (server name or IP address)
  - ii. Database SID:
  - iii. Database Port:
  - iv. Database User:
  
- Oracle BI Publisher info
  - i. BI Publisher Admin User Name: [default: administrator]

- Copy and unzip the file from the apps\_install subdirectory of root installer FLL.12.0.0\_REL.zip from the media to Application Server Home directory (oracle/orapps/)

```
-rw-r--r-- 1 orapps dba 82621879 Jun  1 12:02 FLL.12.0.0_REL.zip  
drwxr-xr-x 8 orapps dba  4096 Jun  1 14:24 FLL
```

```
[orapps@flldemo FLL]$ ls -ltr  
drwxr-xr-x 2 orapps dba 4096 Jun  1 12:23 core  
drwxr-xr-x 2 orapps dba 4096 Jun  1 12:23 bpel  
drwxr-xr-x 2 orapps dba 4096 Jun  1 12:23 webservice  
drwxr-xr-x 2 orapps dba 4096 Jun  1 12:23 rules  
drwxr-xr-x 3 orapps dba 4096 Jun  1 15:57 reports  
drwxr-xr-x 2 orapps dba 4096 Jun  1 16:06 install
```

- Go to FLL/install directory and run install.sh on unix or install.bat for window system

```
orapps@flldemo install]$ ls -rtl  
-rw-r--r-- 1 orapps dba  4265 Apr 27 19:40 ant-oracle.xml  
-rw-r--r-- 1 orapps dba 224277 Apr 28 10:26 ant-contrib-1.0b2.jar  
-rw-r--r-- 1 orapps dba  1232 Apr 28 11:16 ant-orabpel.xml  
-rw-r--r-- 1 orapps dba   586 Apr 29 17:18 README.txt  
-rw-r--r-- 1 orapps dba  2194 Apr 30 10:41 fill_constant.properties  
-rw-r--r-- 1 orapps dba   271 Apr 30 11:18 install.bat  
-rwxr-xr-x 1 orapps dba   322 Apr 30 12:06 install.sh  
-rw-r--r-- 1 orapps dba 11189 May  6 10:11 ant-fllinstall.xml  
-rw-r--r-- 1 orapps dba 20608 May  8 14:30 deploy.xml
```

Application deployment on Unix system is shown below.

```
$ ./install.sh
*** Oracle Flexcube Lending and Leasing Installation README ***

PreRequisite
-----

OracleAS 10gR3 installed and configured
ANT 1.65 and above
ANT_HOME environment variable is set to ANT home directory; typically on an Oracle AS installation
ANT comes bundled under e.g. $ORACLE_HOME/ant location
BPEL Domain already created (applicable if BPEL is enabled)
Read and Write Access to BI Publisher Repository location on the target server (for File Base)
Read and Write Access to Rules Repository location on the target server (for File Base - applicable if
BPEL is enabled)
Press any Key to continue...

Buildfile: ant-fllinstall.xml

user-input:

  [echo] Installing Oracle Flexcube Lending and Leasing Application version 12.0.0.0
  [input] New or Redeploying Oracle Flexcube Lending and Leasing application?

[input] (r,R,n,N)
N

  [input] Define Global JNDI DB connection source for Oracle Flexcube Lending and Leasing application?

  [input] - Global DB connection pool takes advantage of having single connection pool defined within a
target OC4J instance to be used across various applications

  [input] - Local DB connection pool defines the connection within the application deployed on a target
OC4J instance

[input] (y,Y,n,N)
N

  [input] Install Oracle Flexcube Lending and Leasing application with BPEL ?

[input] (y,Y,n,N)

N
```

[input] OracleAS installed HOME Path: [default: /oracle/ora10g]  
/oracle/orapps/product/10.1.3.1/OracleAS\_1

[input] Host on which the target OracleAS instance is running: (server name or IP address)

### **flldemo**

[input] HTTP listening Port for the target OC4J instance:

[input] - stand alone mode default is 8888

[input] - managed mode default is 7777

### **7777**

[input] Administration listening port for the target OC4J instance:

[input] This port represents:

[input] - the ORMI port if you are running a Stand Alone OC4J instance (default: 23791)

[input] - the OPMN port if you are running OracleAS in a managed mode (default: 6003)

[input] Note about the OPMN port:

[input] if you do not know what is the OPMN port of your OracleAS instance

[input] you can get if using the following command:

[input] \$ORACLE\_HOME/opmn/bin/opmnctl status -port

### **6003**

[input] Administrative login name for the target OracleAS instance: [default: **oc4jadmin**]

[input] Administrative password for the target OracleAS instance:  
*admin123*

[input] Standalone or Managed or Cluster Oracle Application Server type installation?

[input] (s,S,m,M,c,C)

### **M**

[input] Specify the OC4J Instance Name: [default: oc4j\_soa]

[input] Database Host Name: (server name or IP address)

### **flldemo**

[input] Database SID: [default: \${env.ORACLE\_SID}]

### **orcl**

[input] Database Port: [default: 1521]

### **1530**

[input] Database User:

**qfl120**

[input] Database Password:

*qfl120*

[input] BI Publisher Admin User Name: [default: **administrator**]

[input] BI Publisher Admin User Password:

*admin123*

[input]	BI	Publisher	Repository	location:	[default:
/oracle/orapps/product/10.1.3.1/OracleAS_1/xmlp/XMLP/Reports]					
[input]	BI	Publisher	Archive	location:	[default:
/oracle/orapps/product/10.1.3.1/OracleAS_1/xmlp/XMLP/archive]					

[input] Oracle AS SSO Enabled ?  
 **(y,Y,n,N)**

**N**

[input] Application Name: [default: FLL120]

**QFLL12**

[input] Application Root Context: [default: FLL120]

**QFLL12**

[input] Oracle Flexcube Lending and Leasing Application Error and Debug Log Path: [default: /oracle/orapps/product/10.1.3.1/OracleAS\_1/opmn/logs]

Application deployment screen

```

install-ffl:
  [echo] -----> Setting the Oracle Flexcube Lending and Leasing global properties

deploy-ffl:
  [echo] -----> Configuring to deploy Oracle Flexcube Lending and Leasing application

deploy:
install-datasource:
  [echo] -----> Installing local JNDI datasource connection pool on
  deployer:oc4j:opmn://ffldemo:6003/oc4j_soa

install-managedsource:
  [echo] -----> Installing local JNDI managed connection pool on
  deployer:oc4j:opmn://ffldemo:6003/oc4j_soa

common:

```

```
[echo] BuildName: Deployment

[echo] BuildHome: /oracle/orapps/ear/FLL

[echo] BuildFile: /oracle/orapps/ear/FLL/install/deploy.xml

[echo] BuildJVM: 1.5

[echo] OracleHome: /oracle/orapps/product/10.1.3.1/OracleAS_1
init.val:

core-deploy-plan:
[echo] -----> Updating the configurable properties file

unzip-file:
[echo] -----> Uncompress the file /oracle/orapps/ear/FLL/core/FLL120.ear to
/oracle/orapps/ear/FLL/temp

[unzip] Expanding: /oracle/orapps/ear/FLL/core/FLL120.ear into /oracle/orapps/ear/FLL/temp
[copy] Copying 1 file to /oracle/orapps/ear/FLL/temp

unzip-file:
[echo] -----> Uncompress the file /oracle/orapps/ear/FLL/temp/FLL120.war to
/oracle/orapps/ear/FLL/temp/war

[unzip] Expanding: /oracle/orapps/ear/FLL/temp/FLL120.war into /oracle/orapps/ear/FLL/temp/war
[copy] Copying 1 file to /oracle/orapps/ear/FLL/temp/war
[mkdir] Created dir: /oracle/orapps/ear/FLL/temp/oracle/fll/faces/view/resources/cmn

set-system-resource:
[echo] -----> Set properties for /oracle/orapps/ear/FLL/temp/war/WEB-
INF/classes/oracle/fll/faces/view/resources/cmn/FLLSystemResources.properties

set-system-resource:
[echo] -----> Set properties for /oracle/orapps/ear/FLL/temp/war/WEB-INF/lib/wf_client_config.xml
edit-application-xml:

[echo] -----> Edit the /oracle/orapps/ear/FLL/temp/META-INF/application.xml file
[taskdef] Could not load definitions from resource com/collaxa/cube/ant/orabpel-antlib.xml. It could not
be found.

search-replace-file:
[echo] -----> Search and Replace the /oracle/orapps/ear/FLL/temp/META-INF/application.xml file
[taskdef] Could not load definitions from resource com/collaxa/cube/ant/orabpel-antlib.xml. It could not
be found.

search-replace-file:
[echo] -----> Search and Replace the /oracle/orapps/ear/FLL/temp/META-INF/application.xml file

jndi-loc:

set-system-resource:
[echo] -----> Set properties for /oracle/orapps/ear/FLL/temp/META-INF/data-sources.xml
set-system-resource:
[echo] -----> Set properties for /oracle/orapps/ear/FLL/temp/META-INF/orion-application.xml.file
[delete] Deleting directory /oracle/orapps/ear/FLL/temp/war
```

```

[war] Updating war: /oracle/orapps/ear/FLL/temp/FLL120.war
[ear] Updating ear: /oracle/orapps/ear/FLL/temp/FLL120.ear
[ear] Warning: selected ear files include a META-INF/application.xml which will be ignored (please
use appxml attribute to ear task)

checkoc4javailable:
[echo] -----> Checking to see if OC4J is available to deploy to
[echo]     Pinging flldemo:6003
[echo]     If OC4J is not started, please start it now.

skipdeploy:
core-deploy:
[echo] -----> Deploying the core QFLL12 Application

deploy.ear:
[echo] -----> Deploying the application module deployment (ear) file
[echo]     Target: deployer:oc4j:opmn://flldemo:6003/oc4j_soa
[echo]     Application: QFLL12

[oracle:deploy] Deploying application QFLL12.
09/06/01 14:23:30 Notification ==>Application Deployer for QFLL12 STARTS.

09/06/01      14:23:30      Notification      ==>Copy      the      archive      to
/oracle/orapps/product/10.1.3.1/OracleAS_1/j2ee/oc4j_soa/applications/QFLL12.ear

09/06/01      14:23:31      Notification      ==>Initialize
/oracle/orapps/product/10.1.3.1/OracleAS_1/j2ee/oc4j_soa/applications/QFLL12.ear begins...

09/06/01 14:23:31 Notification ==>Unpacking QFLL12.ear

09/06/01 14:23:32 Notification ==>Done unpacking QFLL12.ear

09/06/01 14:23:32 Notification ==>Unpacking FLL120.war
09/06/01 14:23:40 Notification ==>Done unpacking FLL120.war

09/06/01      14:23:40      Notification      ==>Initialize
/oracle/orapps/product/10.1.3.1/OracleAS_1/j2ee/oc4j_soa/applications/QFLL12.ear ends...

09/06/01 14:23:40 Notification ==>Starting application : QFLL12
09/06/01 14:23:40 Notification ==>Initializing ClassLoader(s)
09/06/01 14:23:40 Notification ==>Initializing EJB container
09/06/01 14:23:40 Notification ==>Loading connector(s)
09/06/01 14:23:42 Notification ==>Starting up resource adapters
09/06/01 14:23:43 Notification ==>Initializing EJB sessions
09/06/01 14:23:43 Notification ==>Committing ClassLoader(s)
09/06/01 14:23:43 Notification ==>Initialize FLL120 begins...
09/06/01 14:23:43 Notification ==>Initialize FLL120 ends...
09/06/01 14:23:43 Notification ==>Started application : QFLL12
09/06/01 14:23:44 Notification ==>Binding web application(s) to site default-web-site begins...
09/06/01 14:23:44 Notification ==>Binding FLL120 web-module for application QFLL12 to site default-
web-site under context root QFLL12
09/06/01 14:23:55 Notification ==>Initializing Servlet: javax.faces.webapp.FacesServlet for web
application FLL120

09/06/01 14:23:55 Notification ==>Initializing Servlet: oracle.webcache.adf.servlet.AFCStatsServlet for
web application FLL120
09/06/01 14:23:55 Notification ==>Binding web application(s) to site default-web-site ends...

```

```
09/06/01 14:23:55 Notification ==>Application Deployer for QFLL12 COMPLETES. Operation time:
25592 msecs
[oracle:deploy] Application deployer for QFLL12 COMPLETES.

common:
  [echo] BuildName: Deployment
  [echo] BuildHome: /oracle/orapps/ear/FLL
  [echo] BuildFile: /oracle/orapps/ear/FLL/install/deploy.xml
  [echo] BuildJVM: 1.5
  [echo] OracleHome: /oracle/orapps/product/10.1.3.1/OracleAS_1

bind-web-app:
  [echo] -----> Binding the web context for the application
  [echo] Target: deployer:oc4j:opmn://flldemo:6003/oc4j_soa
[oracle:bindWebApp] Web application binding starting for default-web-site with web module FLL120
within application QFLL12 as QFLL12.
[oracle:bindWebApp] Web application binding completed successfully.
  [delete] Deleting directory /oracle/orapps/ear/FLL/temp

common:
  [echo] BuildName: Deployment
  [echo] BuildHome: /oracle/orapps/ear/FLL
  [echo] BuildFile: /oracle/orapps/ear/FLL/install/deploy.xml
  [echo] BuildJVM: 1.5
  [echo] OracleHome: /oracle/orapps/product/10.1.3.1/OracleAS_1

ws-deploy-plan:
checkoc4javavailable:
  [echo] -----> Checking to see if OC4J is available to deploy to
  [echo] Pinging flldemo:6003
  [echo] If OC4J is not started, please start it now.

skipdeploy:
ws-deploy:

install-reports:
  [echo] -----> Install FLLReports Reports to
/oracle/orapps/product/10.1.3.1/OracleAS_1/xmlp/XMLP/Reports location

unzip-file:
  [echo] -----> Uncompress the file /oracle/orapps/ear/FLL/reports/FLLReports.zip to
/oracle/orapps/ear/FLL/temp
  [unzip] Expanding: /oracle/orapps/ear/FLL/reports/FLLReports.zip into /oracle/orapps/ear/FLL/temp

  [copy] Copying 1 file to /oracle/orapps/ear/FLL/temp

  [copy] Copying 269 files to /oracle/orapps/product/10.1.3.1/OracleAS_1/xmlp/XMLP/Reports

  [delete] Deleting directory /oracle/orapps/ear/FLL/temp

install-rules:
bpel-msg-jar:
bpel-orig-jar:
  [echo] ----->
```

```
[echo] -----> Deployed the FLL Enterprise Application
[echo] -----> Oracle Flexcube Lending and Leasing Installation complete
[echo] Kindly ensure that the Role FLL_USER and User SSC are defined within
{OracleAS_Home}/j2ee/{oc4j_instance}/config/system-jazn-data.xml file (for file based) or within OID
(SSO based) before accessing the Oracle Flexcube Lending and Leasing application

BUILD SUCCESSFUL

Total time: 8 minutes 16 seconds
```

4. Login to Application Server Enterprise Manager console as admin user.
5. Navigate to OC4J\_SOA; -> Applications; Select the application; -> Security Provider; -> Realms -> Roles. Verify that FLL\_USER role exists. If not, create the role (Appendix 1).

Similarly, create the user and assign the role to the user (Appendix 1).

6. Login to application <http://{hostname}:port/ContextRootPath/faces/pages/lending/FLSWelcome.jspx>

### **FLL application deployment using Enterprise Manager console:**

The UI application installer for Flexcube Lending Leasing (Origination/Service/Collection modules) is provided as an EAR file (enterprise archive/application archive) under the

*Install\_root/apps\_install/FLL/core*. This EAR file is to be deployed under OC4J\_SOA J2EE container in the application server using Oracle Enterprise Manager Administration console/control.

Follow the steps below to deploy the application

1. Copy FLL120.ear file from the media
2. Login to Enterprise Manager Console.

<http://<hostname>:<portno>/em>

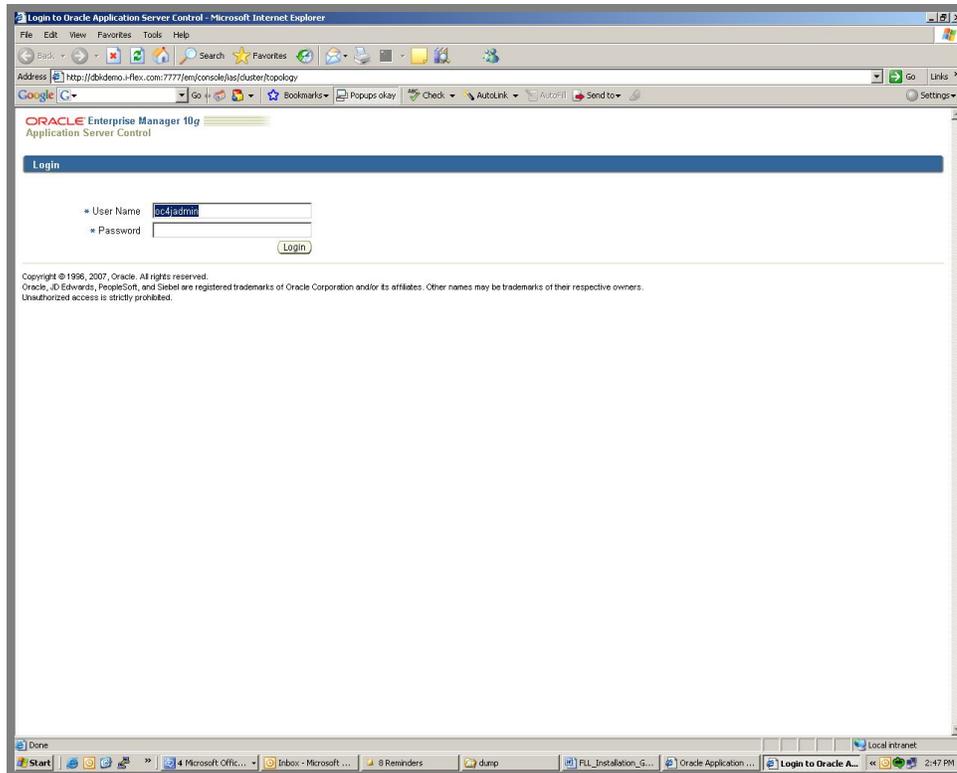


Figure1 - Enterprise Manager Login Console

3. Navigate to application deployment screen. (OC4J\_SOA; Applications ;) as in figure 2.

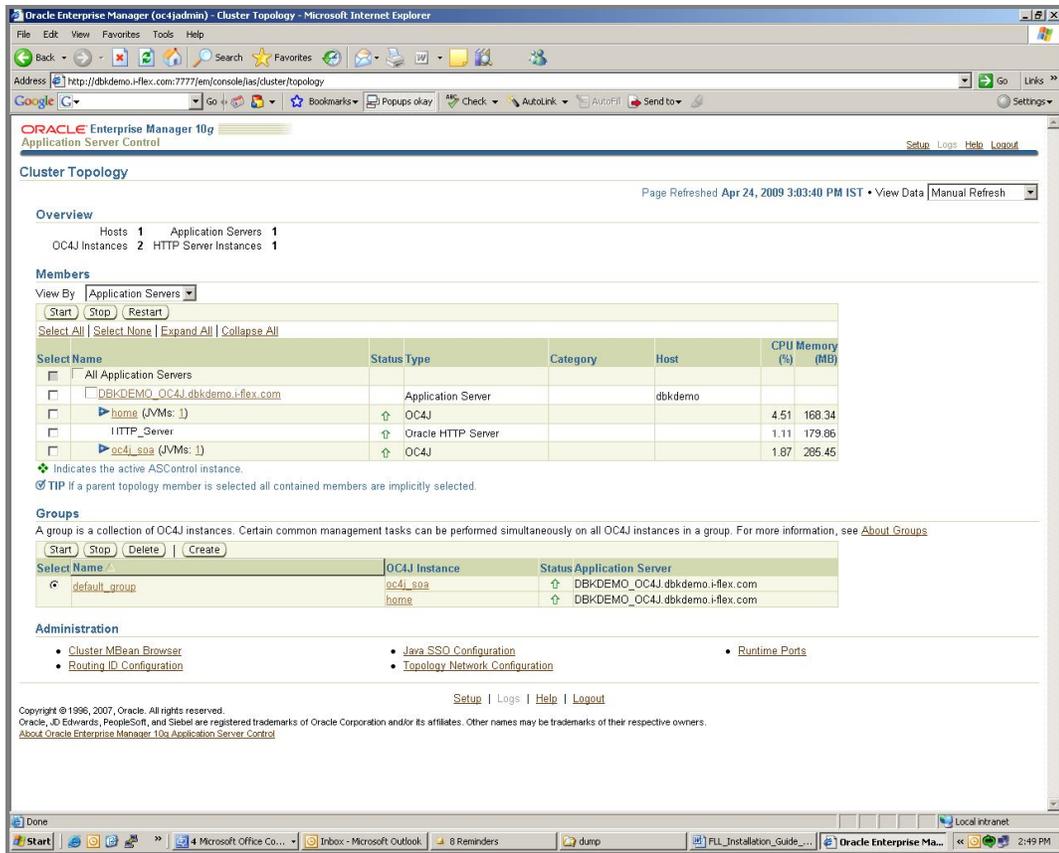


Figure 2 - OC4J container

- Click on the OC4J\_SOA J2EE container and select Application tab (Figure 3).

The screenshot shows the Oracle Enterprise Manager 10g Application Server Control console. The browser address bar indicates the URL is `http://localhost:7777/em/console/ias/oc4j/applications`. The page title is "Oracle Enterprise Manager 10g Application Server Control". The breadcrumb navigation shows "Cluster Topology > Application Server: 10\_1\_3.localhost > OC4J: oc4j\_flis10". The "Applications" tab is selected, and the page shows a table of J2EE applications and application components deployed to this OC4J instance.

View: Applications

Buttons: Start Stop Restart Undeploy Redeploy Deploy

Select All | Select None | Expand All | Collapse All

Select	Name	Status	Start Time	Request Active	Processing Time	Active EJB Methods	Application Defined MBeans
<input type="checkbox"/>	All Applications						
<input type="checkbox"/>	ascontrol	↓					
<input type="checkbox"/>	default	↑	May 20, 2008 11:23:01 AM CDT	0	0.00	0	
<input type="checkbox"/>	Middleware Services						

TIP If you stop a parent application (such as the default application), then Enterprise Manager automatically stops any child applications that depend upon the parent application. Similarly, if you start a child application, Enterprise Manager automatically starts the required parent application.

Figure 3 – Application deployment screen

- Click on the “Deploy” button to start the deployment process in this container.

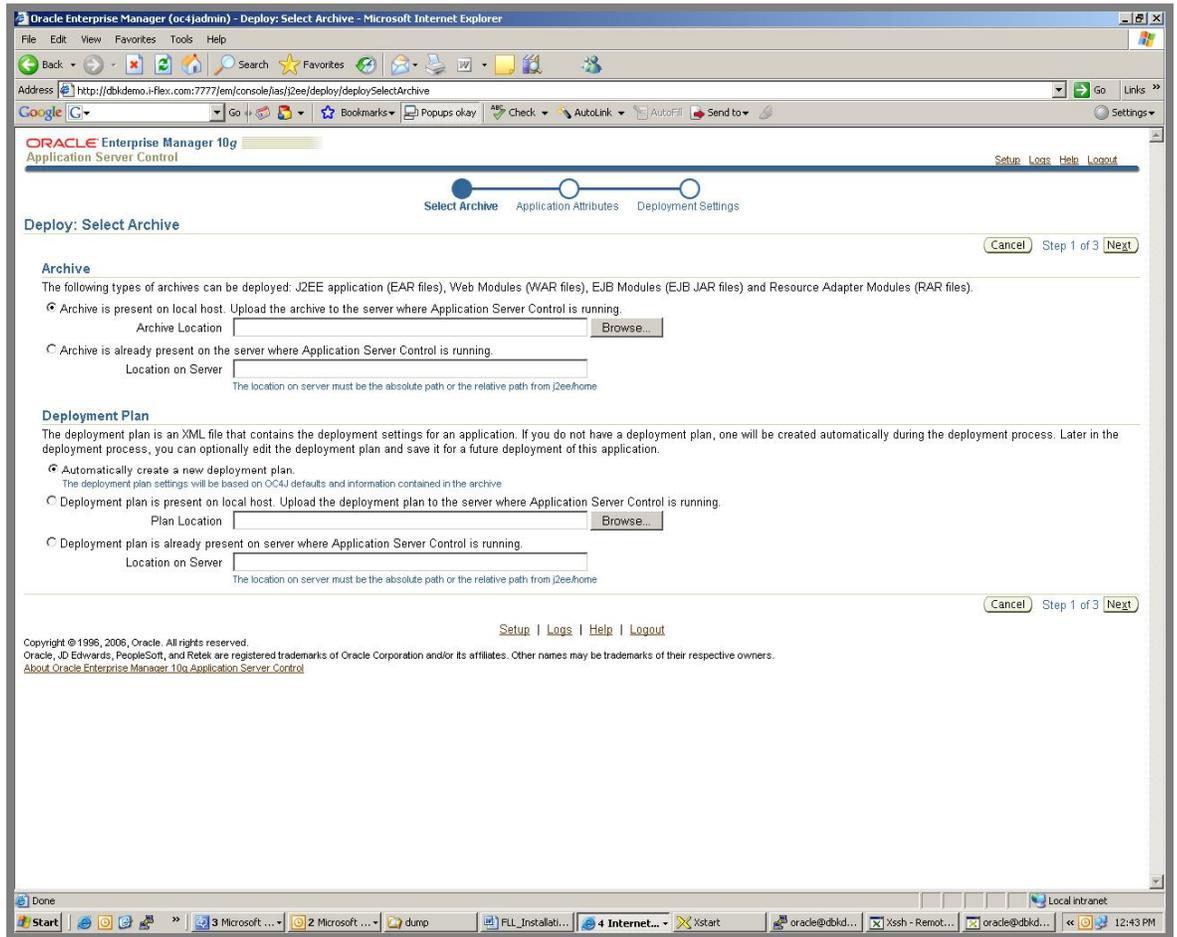


Figure 4 – Deployment step 1

- Enter the “archive location”: (*Enter the full path & file name of FLL application / EAR file*).
- In Deployment plan section, select “Automatically create a new deployment plan”.
- Then click on Next button, this could takes few minutes to update the file.

Note: In some cases, on sharing following details of deployment servers FLL120\_deploy\_plan.dat can be created and this can be used passed during deployment. This will avoid updating any of the properties files after application deployment.

**Middleware details:** URL, hostname, port number, oc4j instance admin user and password, Application server home.

**DB details** like hostname, schema name, port number

**BI publisher details :** hostname, URL, admin user ID & password

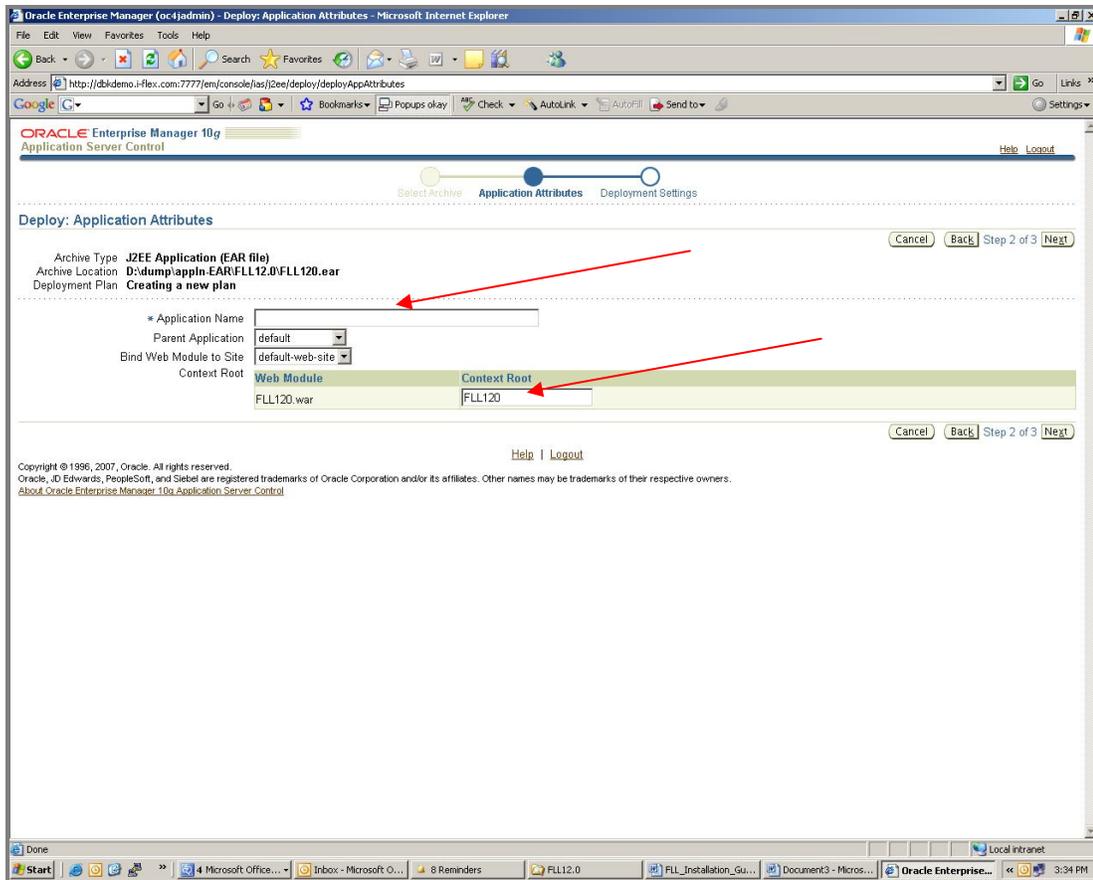


Figure 5 - Deployment step 2

9. Enter the unique name of an application in the “Application Name” field as it would be used in the application URL and you may change “context root” name if required.
10. Click **next** to continue.
11. Click on “**Select Security provider**” to update security type (Figure 6, 7)

For File based security proceed with the following steps.

- ☐ Use an application specific file-based security provider:  
XML file location: `./jazn-data.xml`  
Default Realm: `jazn.com`

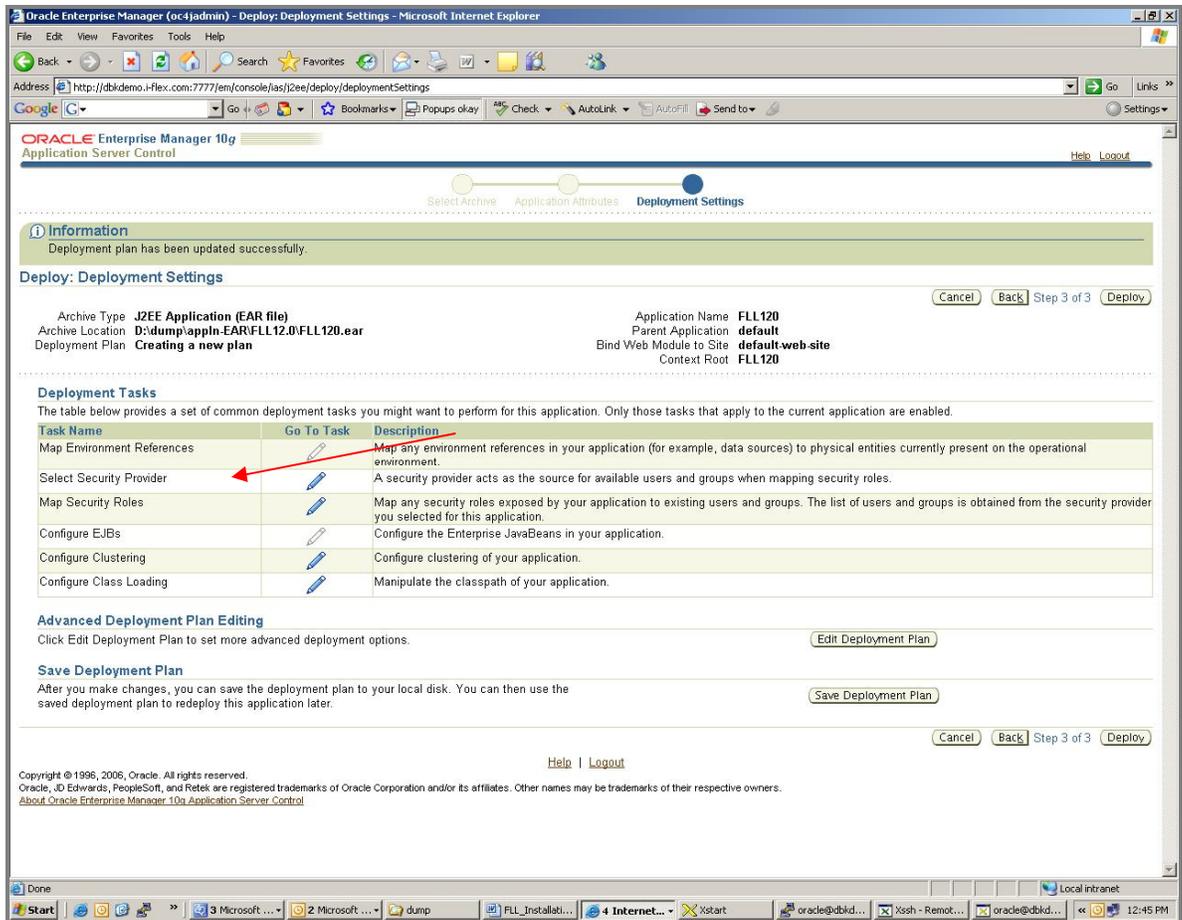


Figure 6 – Deployment step 3

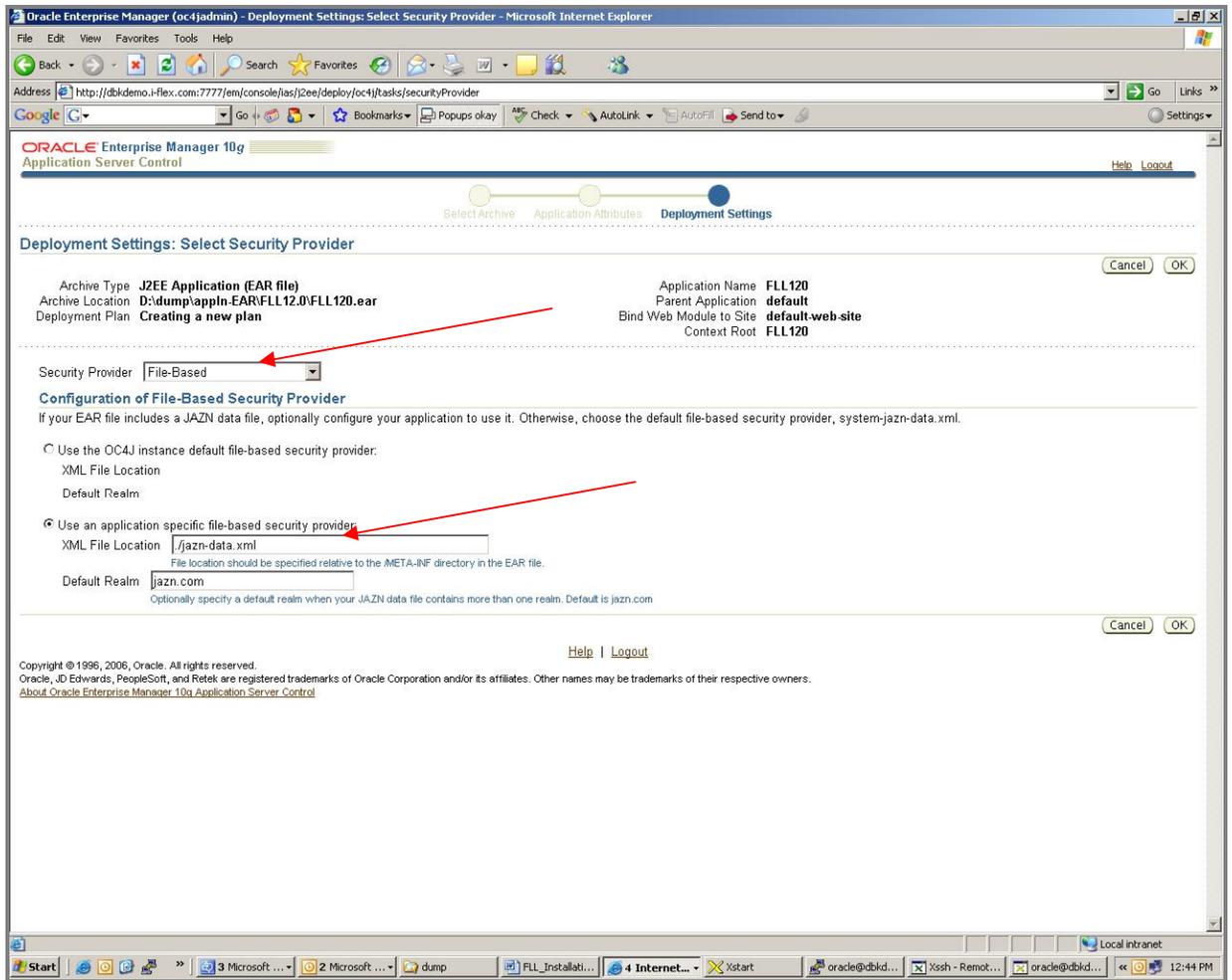


Figure 7 – Security provider settings

12. Click **OK**.
13. Click on “Deploy” button to start the deployment.

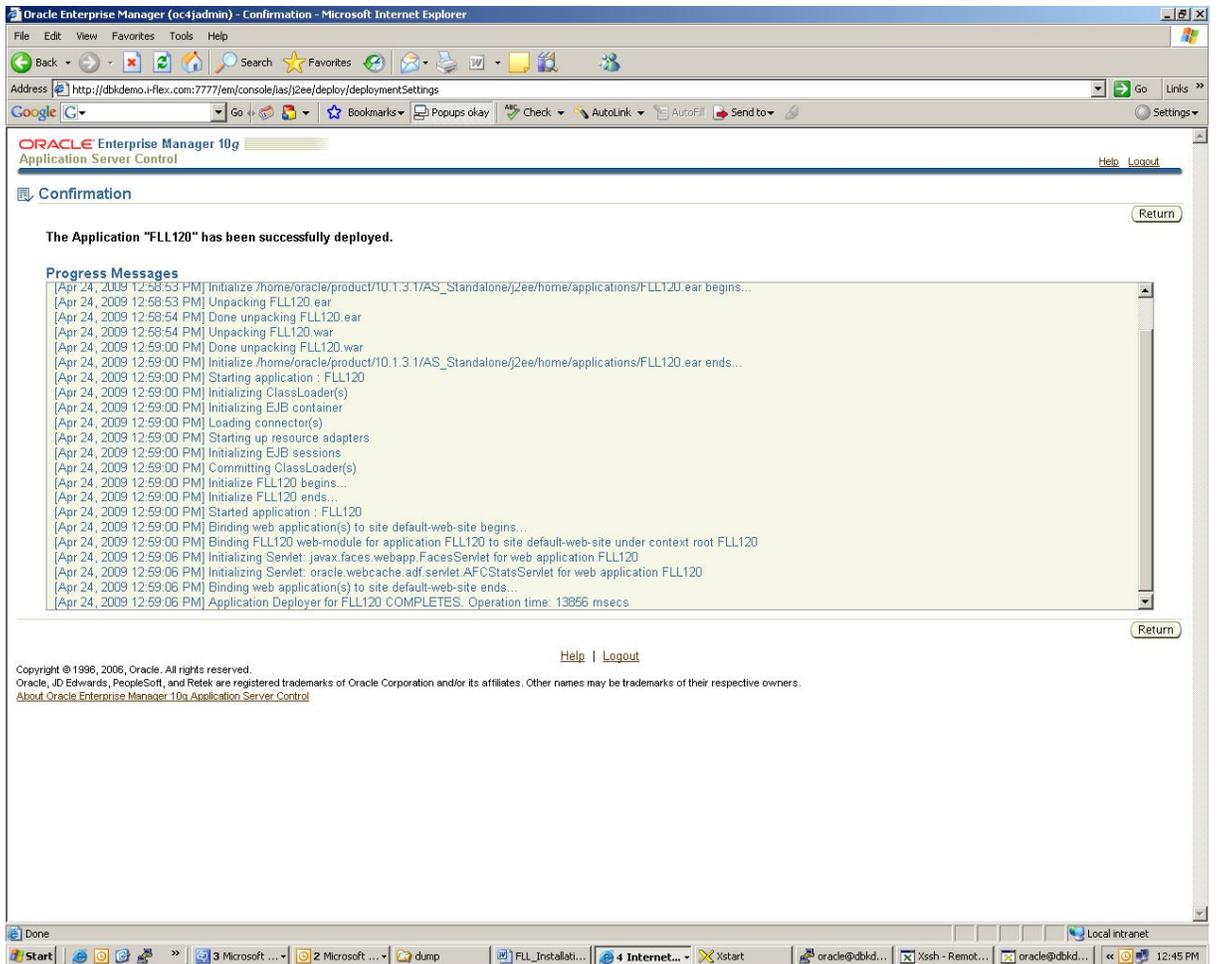


Figure 8 – Deployment confirmation

Once the deployment is successfully completed it should show the success message and the deployment operation steps on the screen (Figure 8). After deployment, return to the application page of the container, the deployed application will be visible in that page (Figure 9).

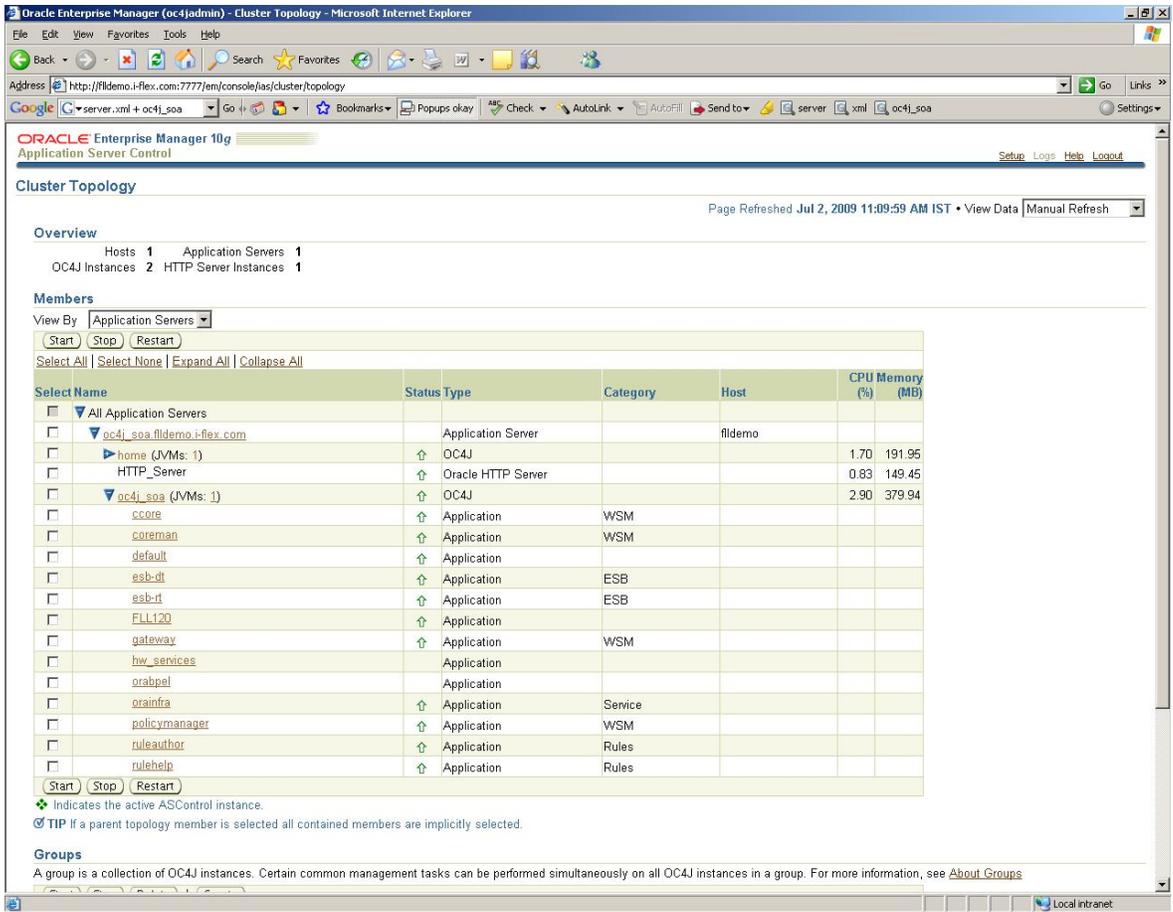
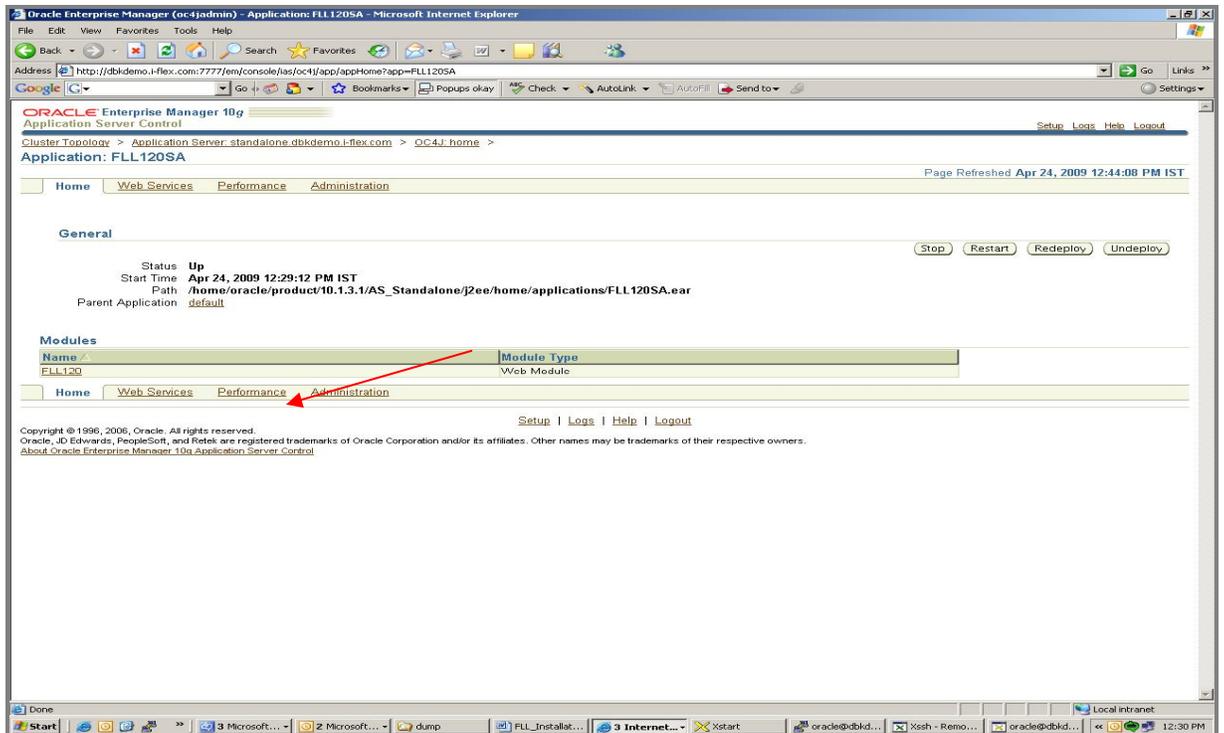


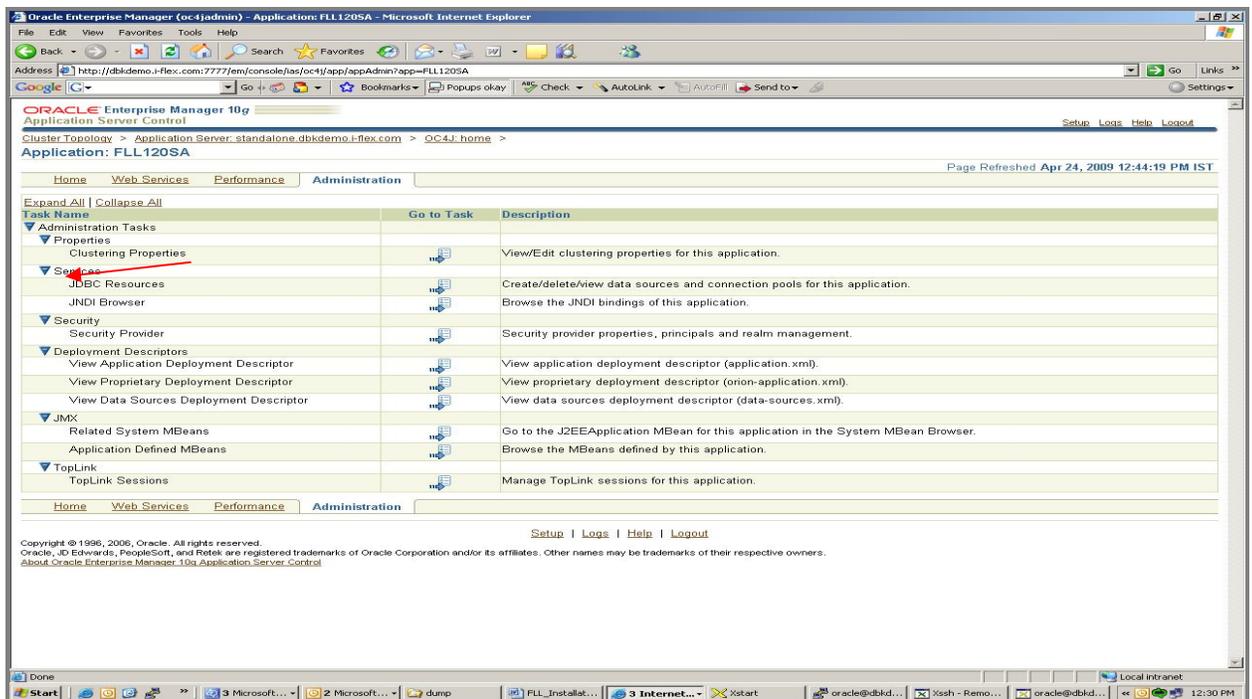
Figure 9 – Deployed Application

## Create connection pool for FLL application

1. Select the application that was deployed.



2. Navigate to the "Administration" page for the J2EE container.
3. Select **JDBC Resources**.



Oracle Enterprise Manager (oc4jadmin) - JDBC Resources - Microsoft Internet Explorer

Address: http://andes.i-flex.com:7788/em/console/ias/oc4j/admin/jdbc?appName=FLL120

ORACLE Enterprise Manager 10g  
Application Server Control

Cluster Topology > Application Server: home.ANDES.i-flex.com > OC4J: oc4j\_soa > JDBC Resources

Page Refreshed Jun 15, 2009 2:19:59 PM IST

Application: FLL120

**Data Sources**

(Create)

Attributes						
Name ^	Application	JNDI Location	Connection Pool	Managed by OC4J	Test Connection	Delete
"fl-connection-managed"	FLL120	jdbc/ils115DS	"fl-connection-pool"	✓		

**Connection Pools**

(Create)

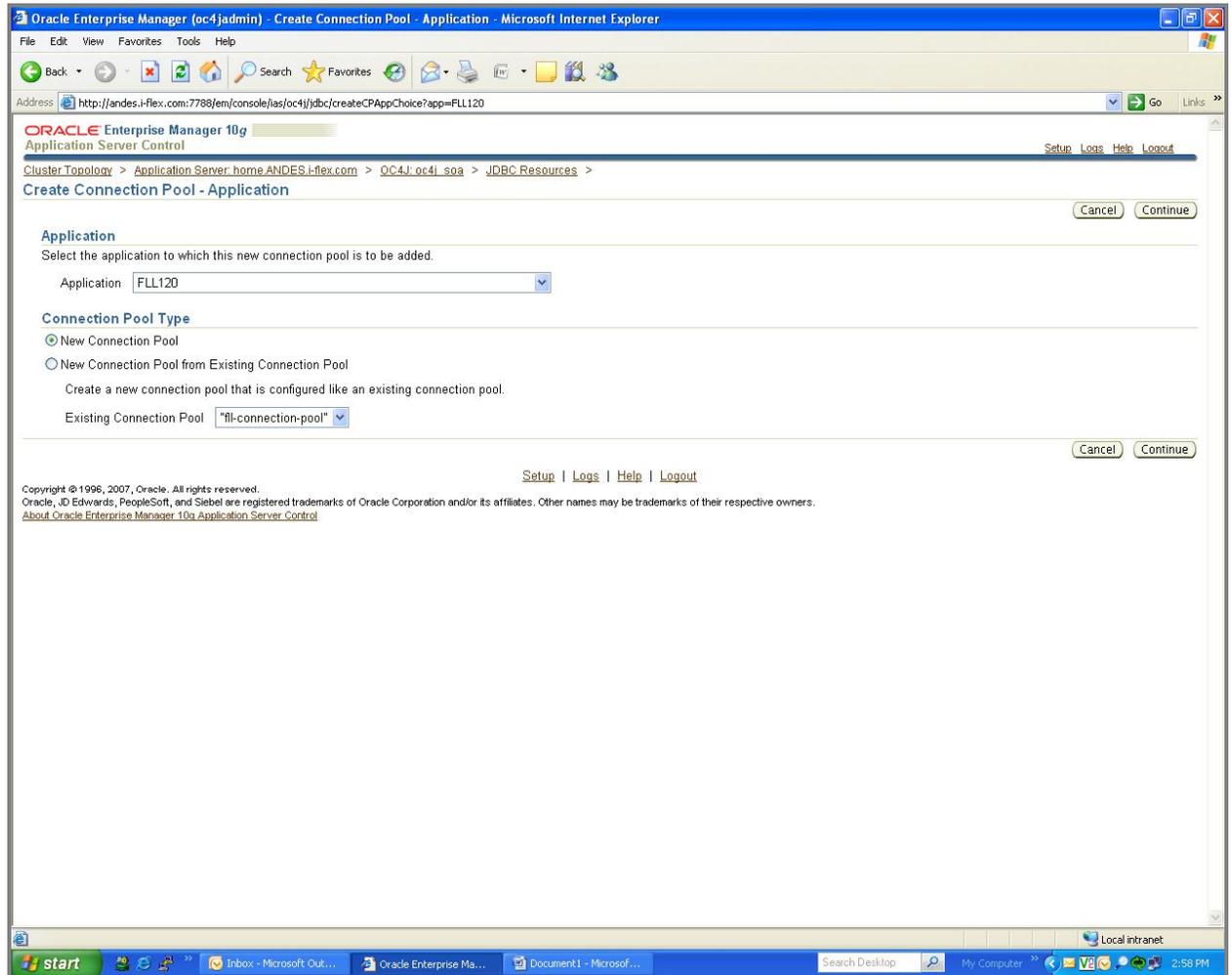
Name ^	Application	Connection Factory Class	Monitor Performance	Test Connection	Refresh Connection Pool	Delete
"fl-connection-pool"	FLL120	oracle.jdbc.pool.OracleDataSource				

Setup | Logs | Help | Logout

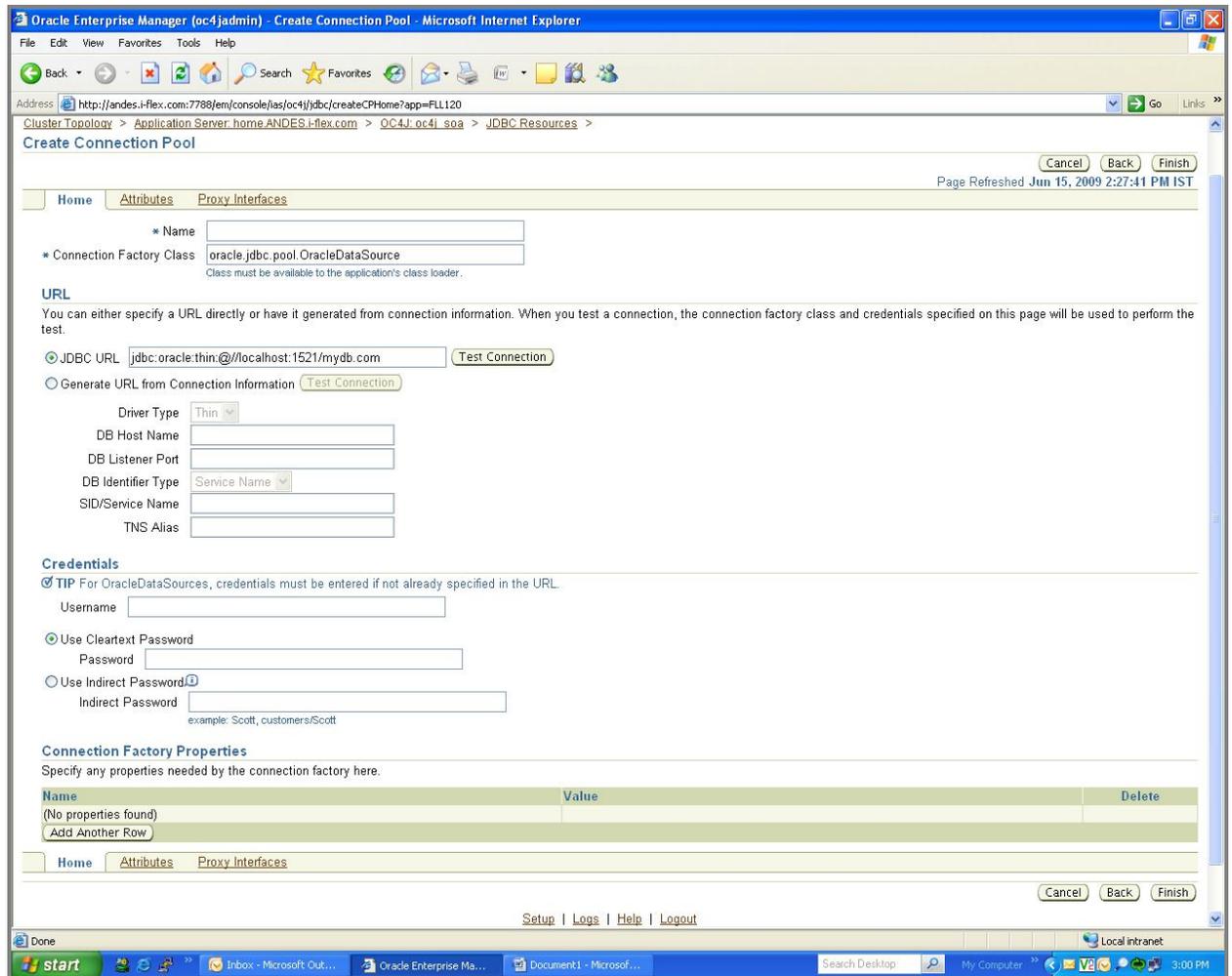
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About Oracle Enterprise Manager 10g Application Server Control

start | Inbox - Microsoft Out... | Oracle Enterprise Ma... | Document1 - Microsof... | Search Desktop | My Computer | Local intranet | 2:59 PM

4. Create the connection pool for the application by clicking on the “**Create**” tab.



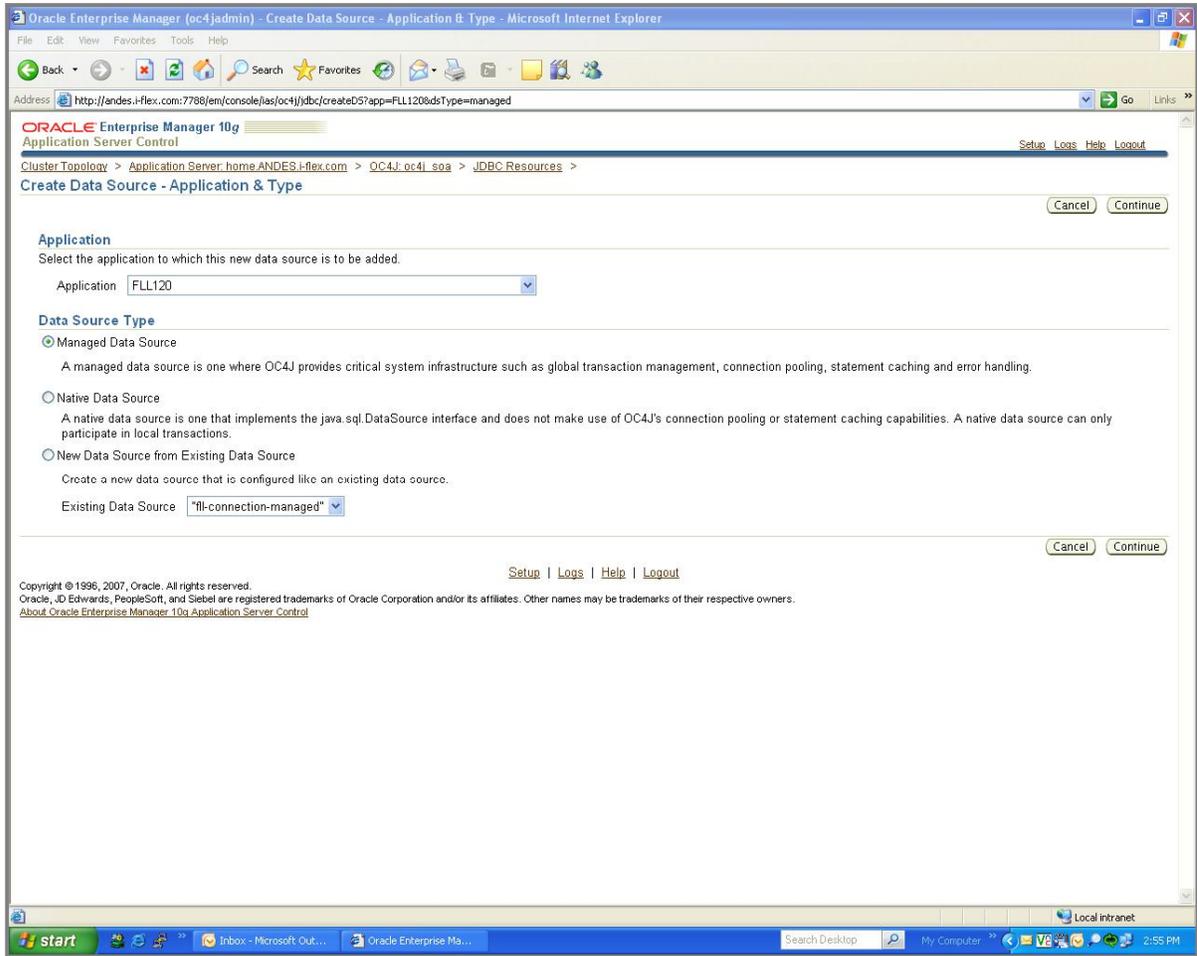
5. Select the application and connection pool type as “new connection pool”.
6. Enter the following information for the connection pool:
  - Name:
  - JDBC URL:
  - Credentials:
7. Click **finish**.
8. Test connections from the JDBC Resource page.



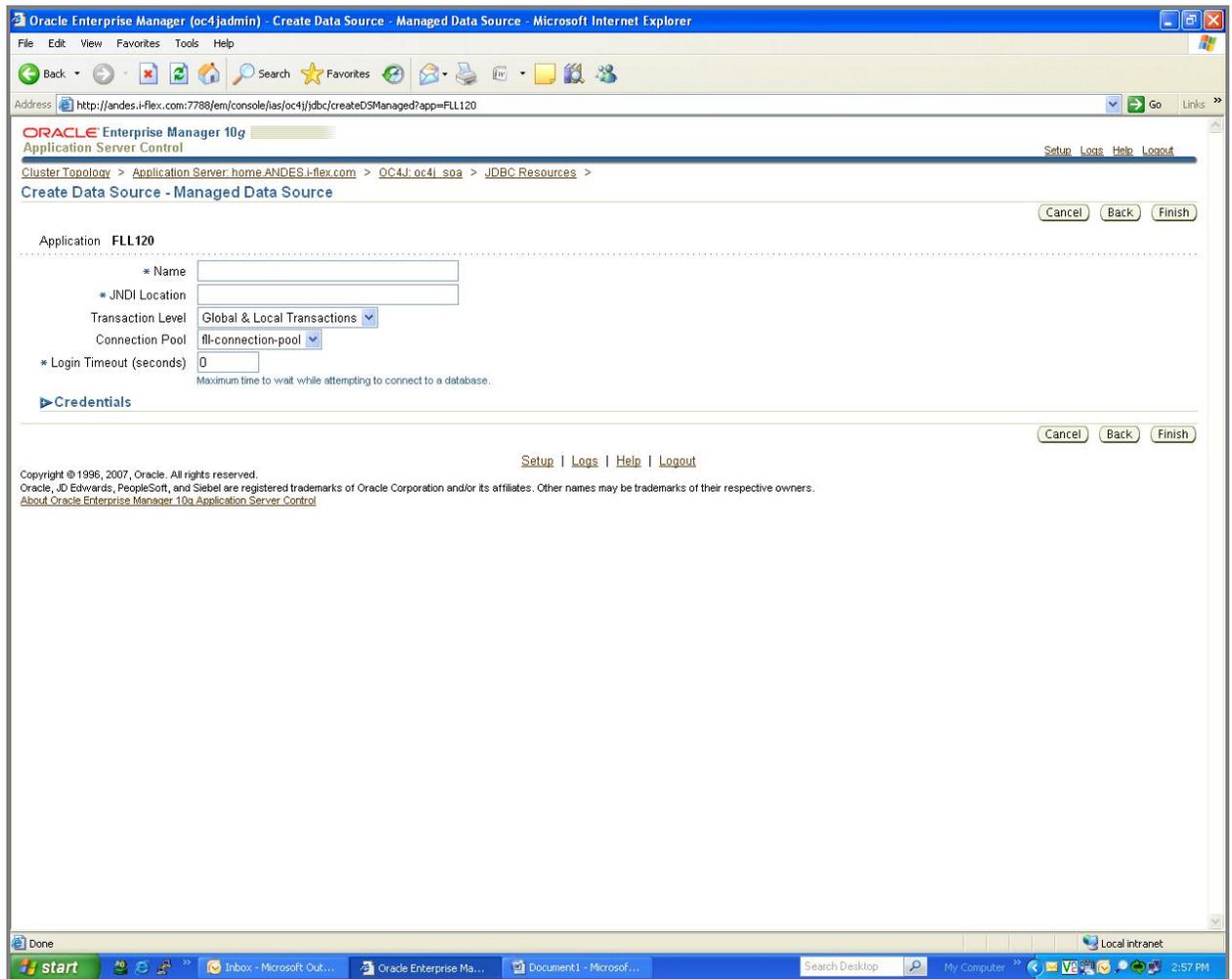
## **Create Data source for FLL application**

Follow the steps to create datasource for the application:

1. Select the application.
2. Data source type as "managed data source".



3. Click on the **Continue** tab.



4. Click on **finish** tab.
5. Test the connection from the JDBC Resources page.

## Update properties files

Cases where FLL120\_deploy\_plan.dat file would not be provided along with FLL ear, in such cases there is a need to update **FLLSystemResources.properties** file located under \$ORACLE\_HOME/ <context root>/<application name>/WEB-INF/classes/oracle/fll/faces/view/resources/cm/FLLSystemResources.properties

### **Sample FLLSystemResources.properties file.**

```
# path
FllLog.Debug.Path=/oracle/orapps/product/10.1.3.1/OracleAS/opmn/logs/FLLError.log
FllLog.Error.Path=/oracle/orapps/product/10.1.3.1/OracleAS/opmn/logs/FLLDebug.log
FLL.SSO.Logout=true

# Server Properties
FLLSetup.Server.Path=http://andes.i-flex.com:7788/FLLSetup1151/faces
FLLDeployed.Server.Path=http://andes.i-flex.com:7788
FLLLogout.Server.Path=http://andes.i-flex.com:7788/FLL120/faces/pages/lending/FLSWelcome.jspx
FLL.UI.Version=FLL.12.0.0_178_BLD.04122009.1412

#XMLP
FLL.XMLP.WsdlLocation=http://andes.i-flex.com:7788/xmlpserver/services/PublicReportService
ConnectionURL = jdbc:oracle:thin:@andes.i-flex.com:1521:devj2ee
DBUserName = dflnew
DBPassword = dflnew
FLL.XMLP.Arg1=-l
FLL.XMLP.UserName=administrator
FLL.XMLP.Password=admin123
FLL.XMLP.reportPackage=/oracle/fll/xmlp/
FLL.XMLP.reportFormat=pdf
FAX =/ippfax
PRINTER = /ipp
ARCHIVE_PATH =/oracle/orapps/product/10.1.3.1/OracleAS/xmlp/XMLP/archive

#BPEL Work Flow Parameters
Context.PROVIDER_URL=opmn:ormi://andes.i-flex.com:7794:oc4j_soa/orabpel
Context.INITIAL_CONTEXT_FACTORY=com.evermind.server.rmi.RMIInitialContextFactory
Context.SECURITY_PRINCIPAL=oc4jadmin
Context.SECURITY_CREDENTIALS=admin123
dedicated.connection=true
Context.WORKFLOW_REALM_NAME=jazn.com
Context.DOMAIN_NAME=FLL1151
Context.BPEL_SERVICE_NAME=ApplicationOriginationService
Context.BPEL_SERVICE_VERSION_VALUE=1.0
Context.BPEL_SERVICE_OPERATION_TYPE=initiate
Context.BPEL_SYNC_SERVICE_OPERATION_TYPE=process
Context.BPEL_LOCATOR_NAME=bpel
Fll.BPEL.Process.Name = FLL_BPEL_PROCESS

#RULE AUTHOR
RuleRepositoryLocation=/oracle/orapps/product/10.1.3.1/OracleAS/rules/fileRepositories/OriginationRuleRepository
RuleDictionary=default
RuleDictionaryVersion=INITIAL
```

## Restart the Flexcube Lending and Leasing Application.

## **Updating BPEL properties (Required only when FLL is integrated with BPEL components)**

Update wf\_client\_config.xml file only. An example as below.

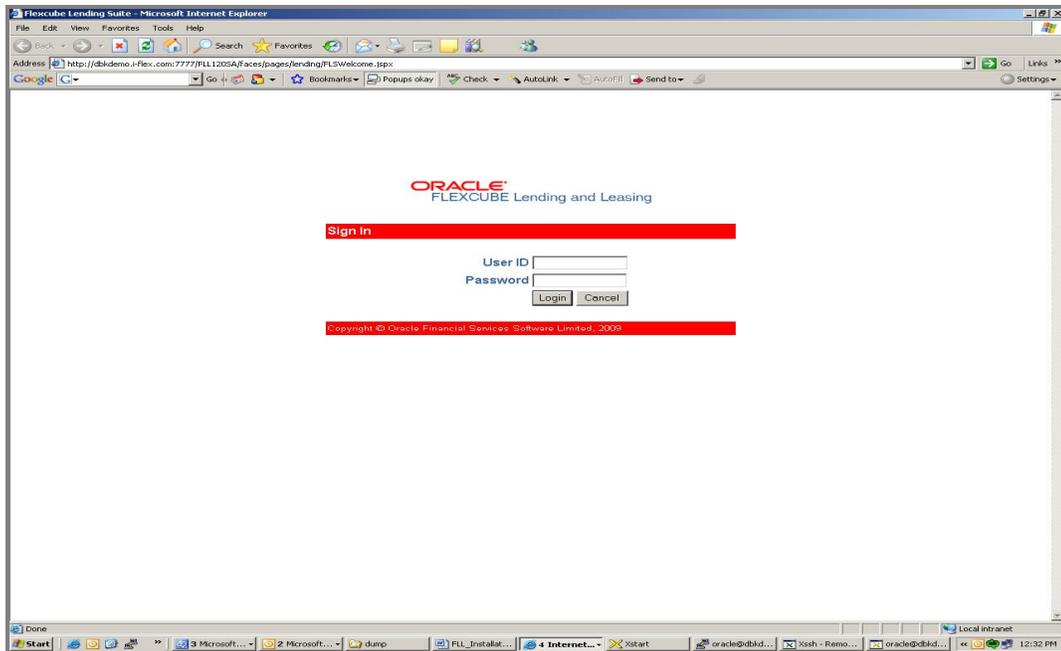
### **\$OracleAS\_1/j2ee/oc4j\_soa/applications/ FLL120/FLL120/WEB-INF/lib/wf\_client\_config.xml file**

```
<servicesClientConfigurations xmlns="http://xmlns.oracle.com/bpel/services/client">
  <ejb>
    <!--serverURL>ormi://TAURUS.i-flex.com/hw_services</serverURL--> <!-- for stand alone -->
    <serverURL>opmn:ormi://dbkdemo:7777:6003:oc4j_soa/hw_services</serverURL> <!-- for opmn managed instance -->
    <user>oc4jadmin</user>
    <password>admin123</password>
    <initialContextFactory>oracle.j2ee.rmi.RMIInitialContextFactory</initialContextFactory>
  </ejb>
  <identityService>
    <soapEndPoint>http://dbkdemo:7777/integration/services/IdentityService/identity</soapEndPoint>
  </identityService>
  <identityConfigService>
    <soapEndPoint>http://dbkdemo:7777/integration/services/IdentityService/configuration</soapEndPoint>
  </identityConfigService>
  <taskService>
    <soapEndPoint>http://dbkdemo:7777/integration/services/TaskService/TaskServicePort</soapEndPoint>
  </taskService>
  <taskMetadataService>
    <soapEndPoint>http://dbkdemo:7777/integration/services/TaskMetadataService/TaskMetadataServicePort</soapEndPoint>
  </taskMetadataService>
  <taskQueryService>
    <soapEndPoint>http://dbkdemo:7777/integration/services/TaskQueryService/TaskQueryService</soapEndPoint>
  </taskQueryService>
  <userMetadataService>
    <soapEndPoint>http://dbkdemo:7777/integration/services/UserMetadataService/UserMetadataService</soapEndPoint>
  </userMetadataService>
  <runtimeConfigService>
    <soapEndPoint>http://dbkdemo:7777/integration/services/RuntimeConfigService/RuntimeConfigService</soapEndPoint>
  </runtimeConfigService>
  <!-- specifies the mapping for portal realm to is_config realm -->
  <portal>
    <realmMapping>jazn.com</realmMapping>
  </portal>
</servicesClientConfigurations>
```

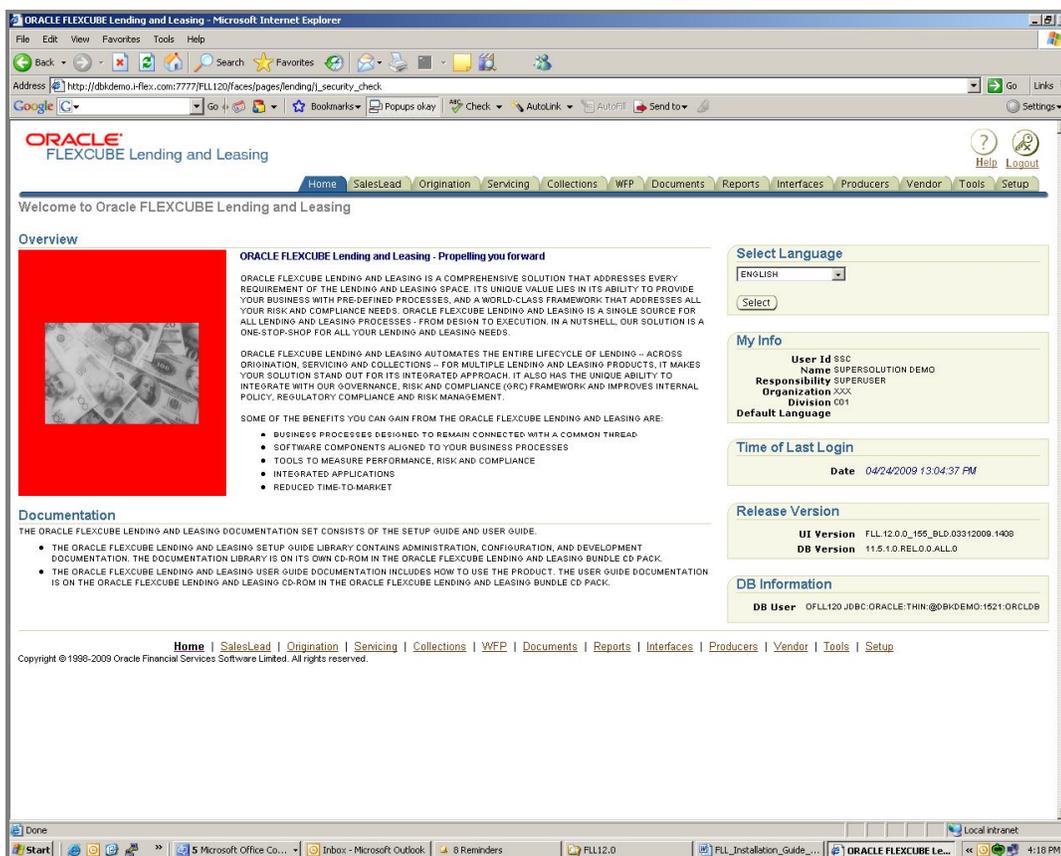
## **Login to Flexcube Lending and Leasing applications**

Login to FLL application, open a browser and enter an application URL:

<http://{hostname}:port/ContextRootPath/faces/pages/lending/FLSWelcome.jspx>



Flexcube Lending and Leasing Application Login screen.



Navigate to "Setup" tab and update system parameters as required.

## 2.1 Reports on Business Intelligence Publisher

This section discusses the deployment of FLL reports on BI publisher including the integration of BI publisher with FLL to run the reports. Please see Appendix 2 for manual installation / configuration of Oracle BI publisher software on J2EE server.

### Integrate BI publisher with FLL application:

Flexcube Lending and Leasing application contains a configuration file named `FLLSystemResources.properties`. This file is located under `/WEB-INF/classes/` subdirectory in the deployment directory of the FLL12.0.0 application. This file needs to be edited in order to include the BI publisher details. Following are the parameters and example values to be entered in the configuration file `FLLSystemResources.properties`.

```
FLL.XMLP.WsdlLocation=http://<http_hostname>:<http_port>/xmlpserver/services/BIPWebServiceFLL.  
XMLP.Arg1=-l  
FLL.XMLP.UserName=<userid>  
FLL.XMLP.Password=<password>  
FLL.XMLP.reportPackage=<relative_path>  
FLL.XMLP.reportFormat=pdf
```

In the above example

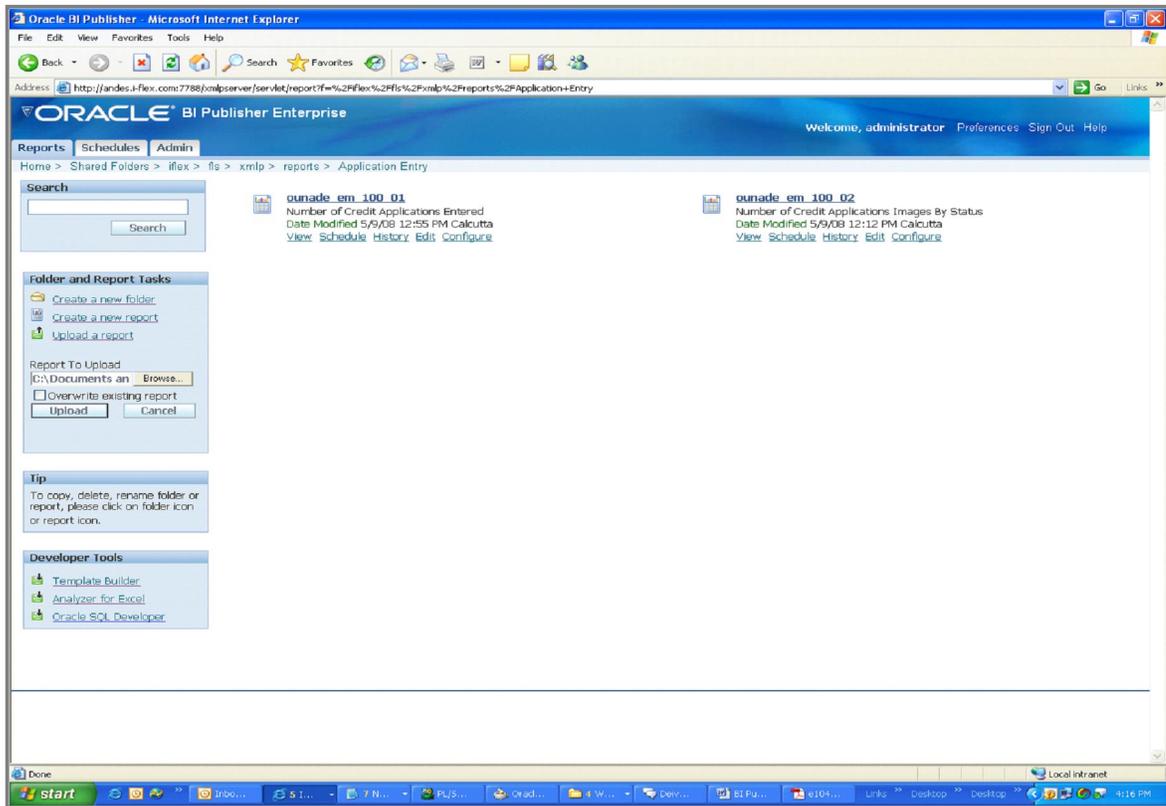
`<http_host>` and `<http_port>` are the hostname and port where BI publisher has been installed / configured as a web service.

`<userid>` and `<password>` represent the credentials for BI publisher user having access to the BI publisher report repository where the reports will be deployed.

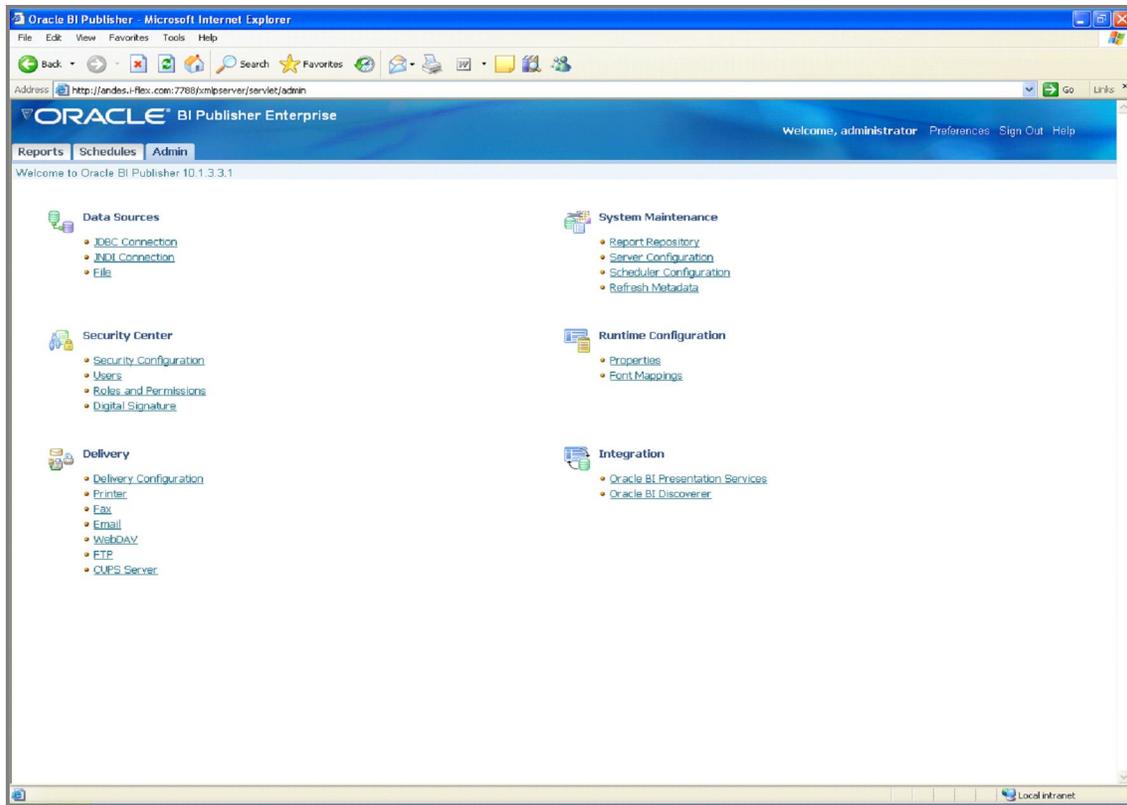
`<relative_path>` represents the repository path with respect to the J2EE container root directory in which BI publisher has been installed as a web service.

### Deploying FLL Reports on BI Publisher

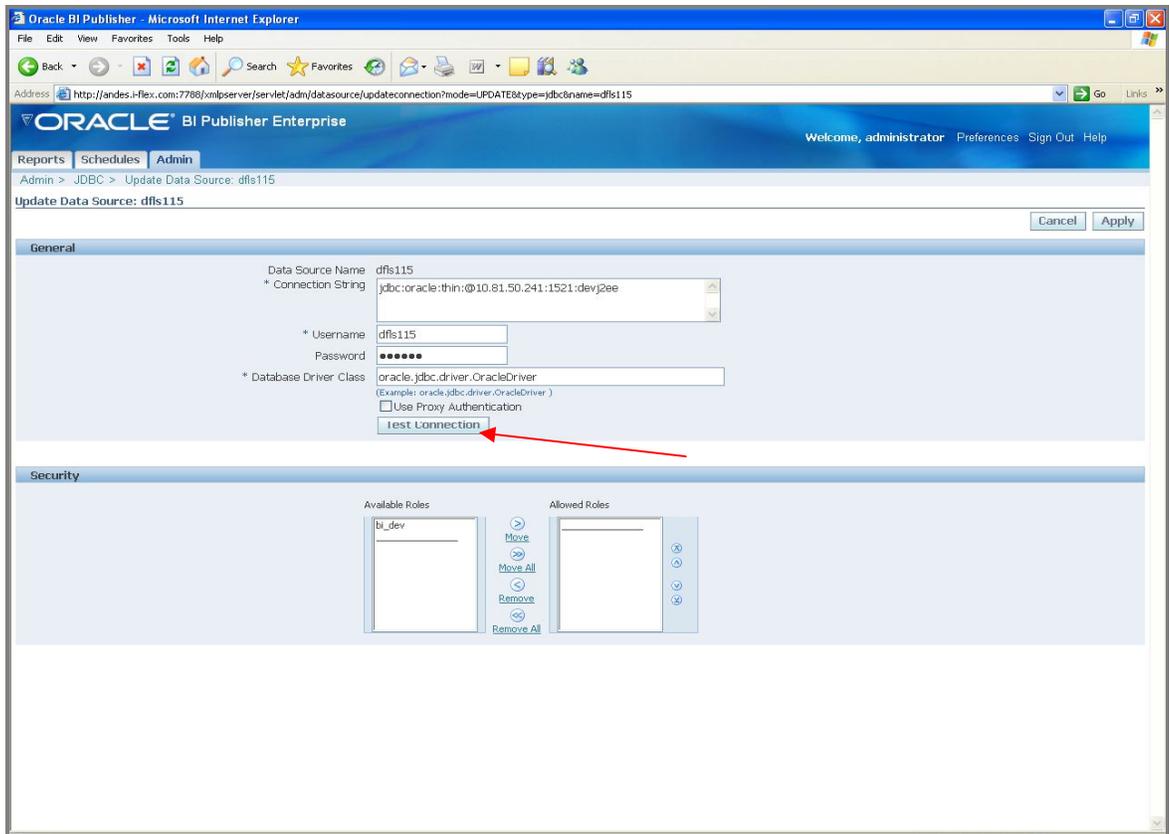
Deploying the reports in BI publisher is same as uploading the reports in the BI publisher repository. Following is a screen shot of BI publisher console that shows a repository. Login to the BI Publisher console to deploy the reports. <http://<hostname>:portno/xmlpserver>. Click on the "Upload a Report" link on the left panel to open a dialog box for entering the report name with full path. The reports are provided under the `fl/reports` subdirectory under `apps_install` directory in the installation media.



Once all reports are deployed on BI publisher, database configuration should be done. Go to the “Admin” tab in the BI publisher console and click the link “JDBC Connection”. It will show the BI publisher console page as follows.

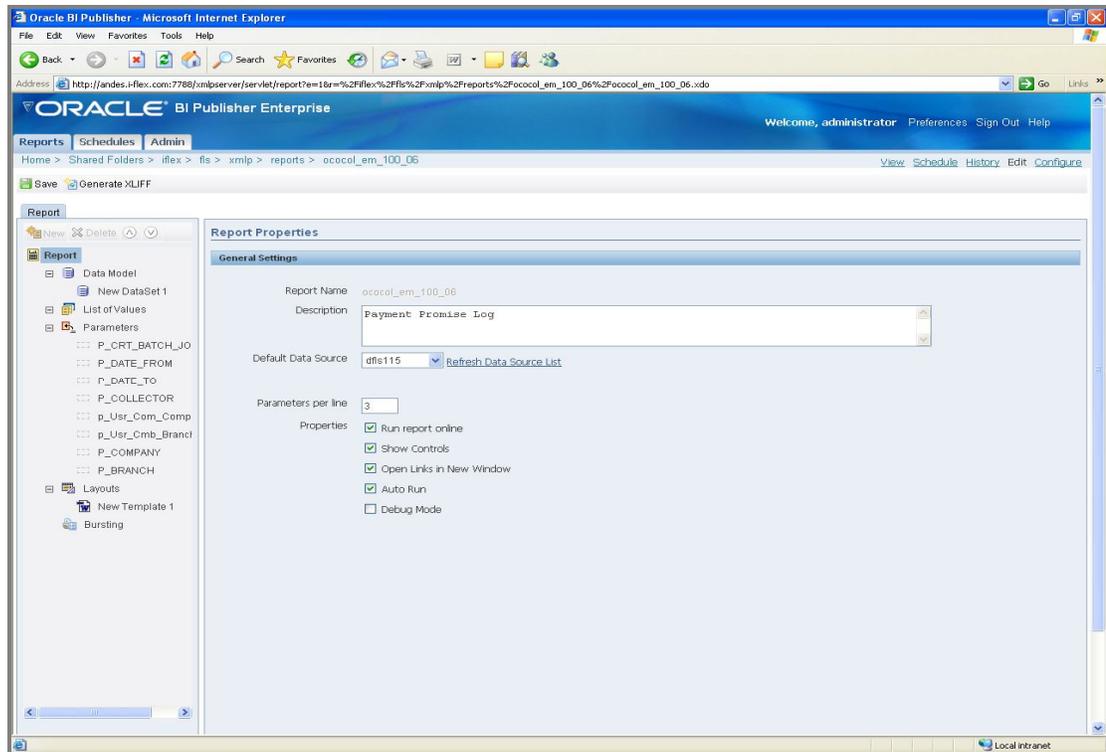


Click on the **“Data Source”** link and it will open a page for entering the details of JDBC connection parameters. Enter the details as applicable.



Click on the button **“Test Connection”**, after the details are entered, to check the connectivity with the database and schema containing FLL database objects.

Once the database connection has been established successfully it is required to select the data source for each of the reports deployed for FLL. Select the report for the repository console and navigate to report properties. It will show a drop down for selection of data source for the report. Select the named JDBC connection as configured previously and save changes.

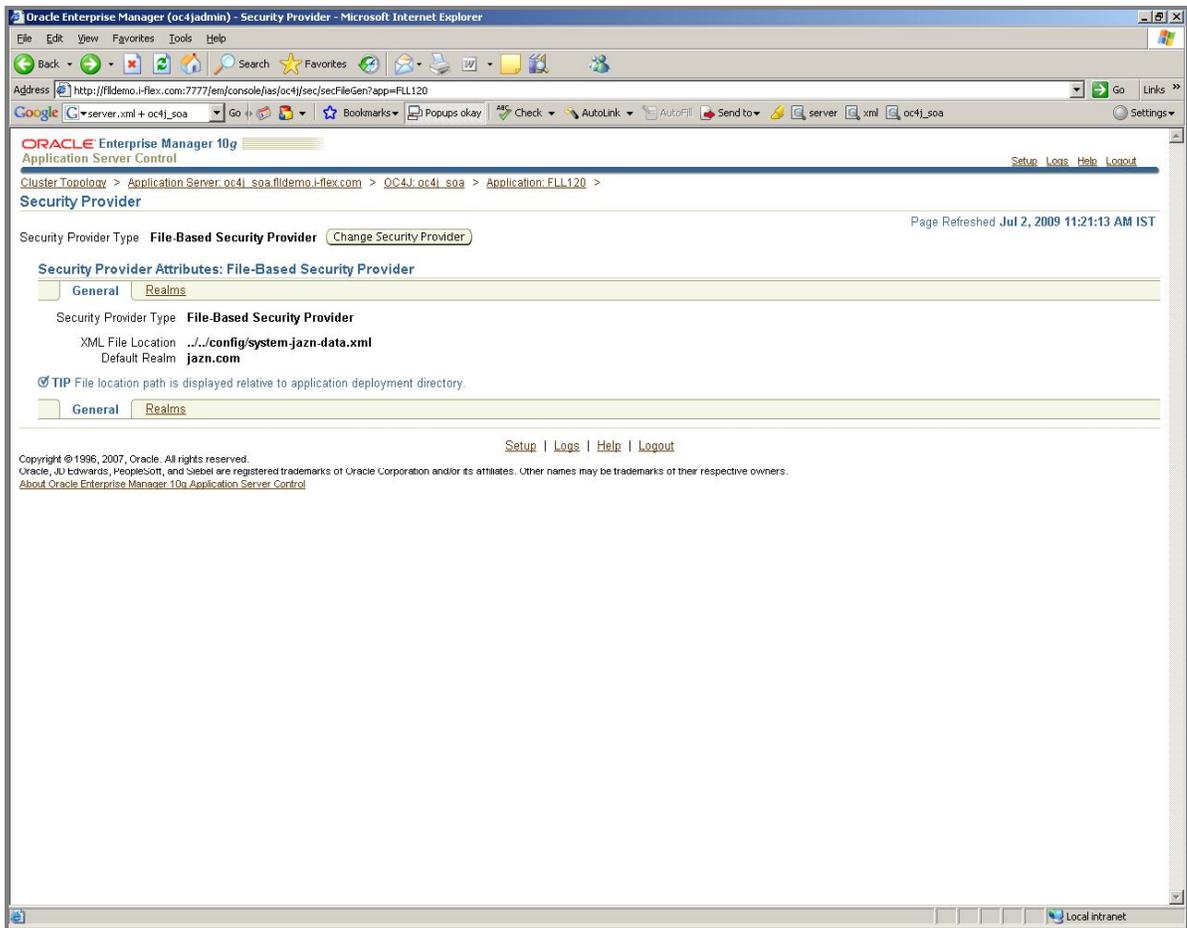


The data source for all reports should be configured this way.

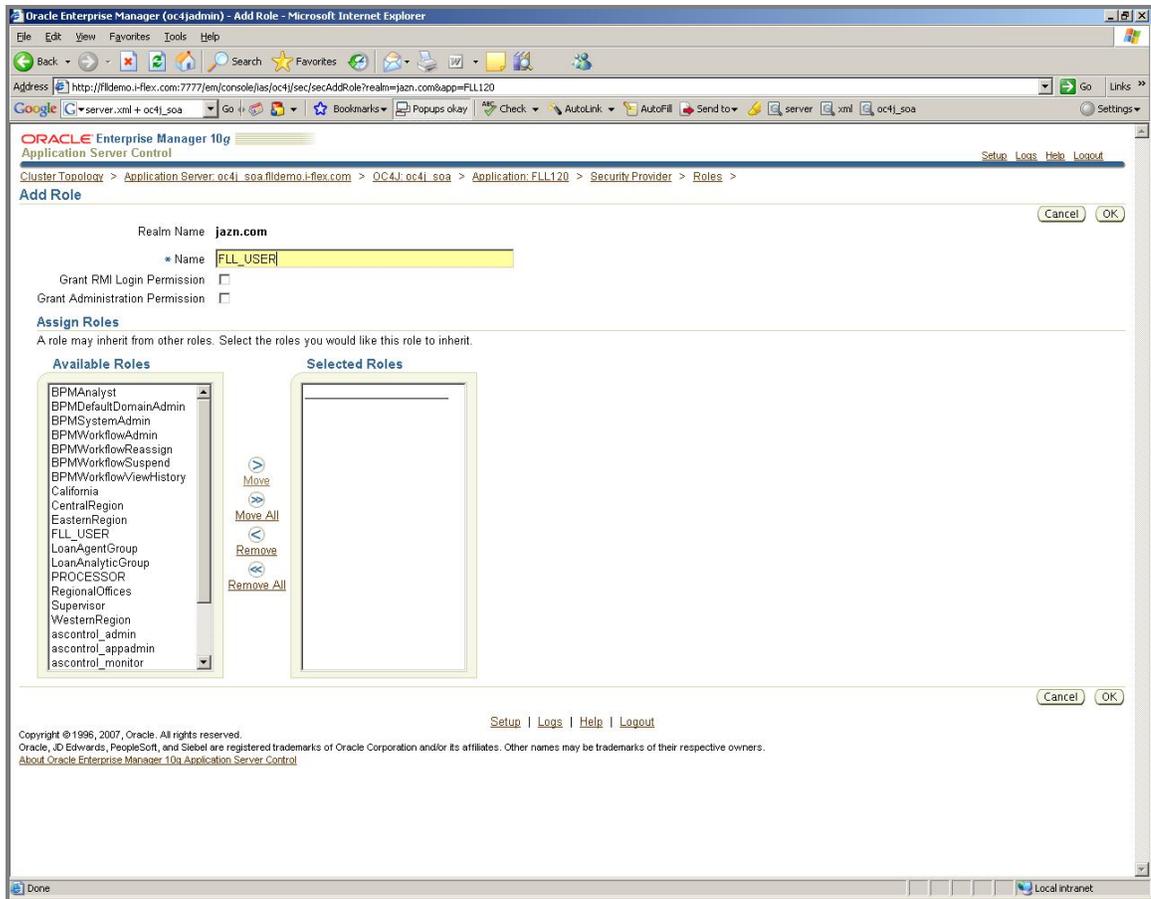
## 2. Appendix 1

### 2.1 Create Role

1. Select the application that was deployed.
2. Navigate to the "Administration" page for the J2EE container.
3. Click on "Select Security provider"



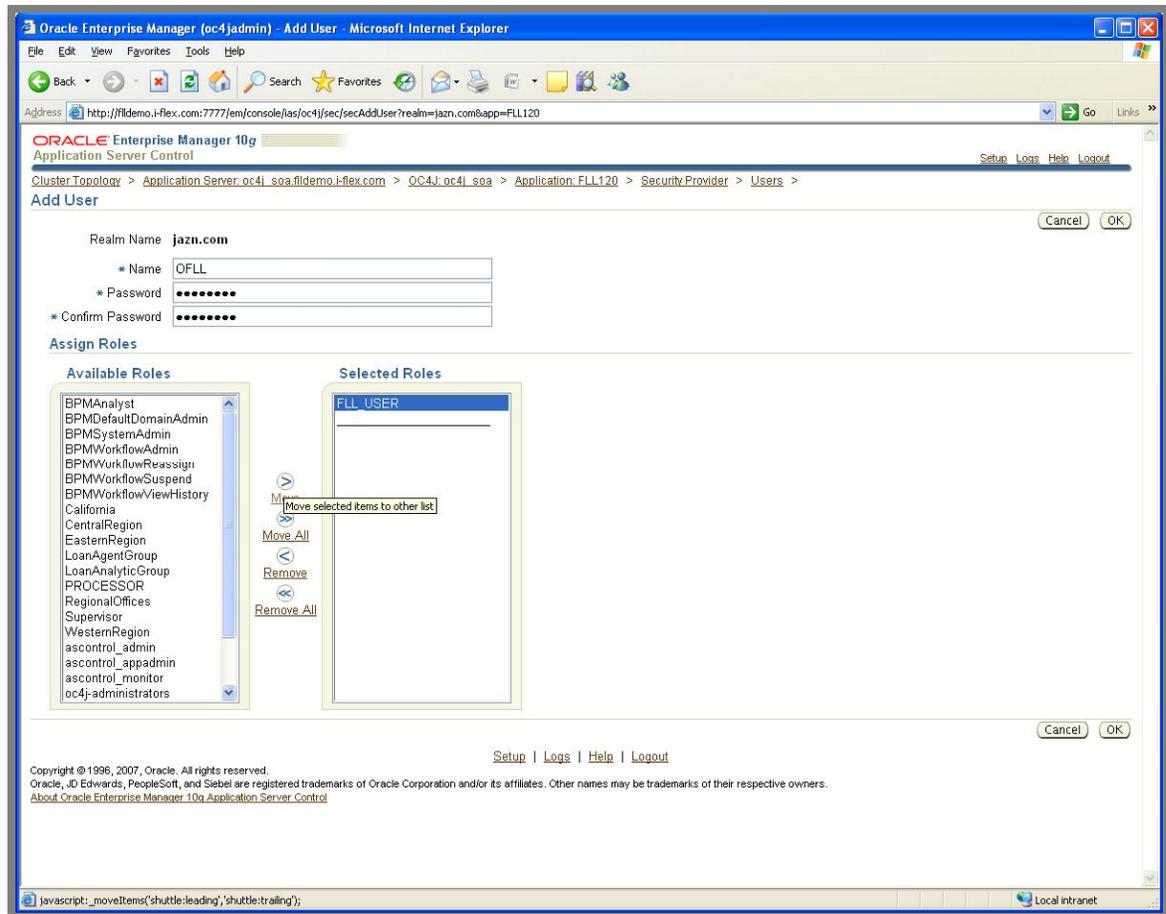
4. Click on "Realms".
5. Click on "Roles" -> Create.



6. Check the “Grant RMI Login Permission” and click **Ok**.

## 2.2 Create User

1. Select the application that was deployed.
2. Navigate to the “Administration” page for the J2EE container.
3. Click on “**Select Security provider**” --> Realms --> User --> Create.
4. Enter Username, password and confirm the password.
5. Assign the FLL\_USER Role and / or other required roles.
6. Click **OK** to complete.



### 3. Appendix 2 Installing Manually into a J2EE Application Server

#### Introduction

The BI Publisher install media contains:

- BI Publisher server application
- BI Publisher runtime libraries
- BI Publisher fonts
- BI Publisher desktop tools
- Documentation: User's Guide, Javadocs, demos, and samples

Individual components are located as follows:

Directory	Component
manual\fonts	Font files
manual\generic	xmlpserver.war (for non-oc4j application servers) xmlpserver.ear (for non-oc4j application servers)
manual\oc4j	xmlpserver.ear (for oc4j)
manual\XMLP	XMLP repository
manual\XMLP\DemoFiles	Data source for demo reports.
manual\XMLP\Tools	Template Builder for Word Add-in

### 3.1 Installation Process Overview

The server application allows you to create, manage and schedule reports. You must perform the following steps as described in this document to deploy Oracle BI Publisher manually:

1. Deploy BI Publisher on the application server.
2. Configure the BI Publisher repository and install fonts.
3. Perform postinstallation tasks:

Create the BI Publisher scheduler schema on the database server (required to send and schedule reports).

Set up the BI Publisher Demo Reports

### 3.2 Oracle AS 10.1.3 and OC4J 10.1.3 Deployment

Depending on how you have installed Oracle Application Server or OC4J, there are several methods you can use to deploy BI Publisher. The following steps use the admin\_client.jar file to deploy BI Publisher on Oracle AS 10.1.3 or OC4J 10.1.3. Please refer to the *Oracle Containers for J2EE Deployment Guide* to see which deployment method is best for your installation.

1. Deploy the xmlpserver.ear to your OC4J instance.

Example:

```
C:\SOAJ2EE\j2ee\home> C:\SOAJ2EE\jdk\jre\bin\java -jar admin_client.jar
deployer:oc4j:opmn://myserver.company.com/home oc4jadmin oc4jadmin -deploy -file
C:\Temp\BIPublisher10132\Disk1\manual\oc4j\xmlpserver.ear -deploymentName xmlpserver -
bindAllWebApps
```

2. Launch the BI Publisher application.

Open your browser to `http://hostname:port/xmlpserver`

For example:

`http://localhost:8888/xmlpserver`

3. If you see the login page, proceed to [Configuring the BI Publisher Repository and Installing Fonts](#).

### **3.3 Configuring the BI Publisher Repository and Installing Fonts**

After deploying BI Publisher in your application server, you must set up the BI Publisher repository and install the font files.

To set up the repository, copy the xmlp repository directory to a location on your server, then edit the configuration file to point to the saved location as follows:

1. Copy the XMLP repository directory from \manual on your installation media to your server.
2. Open the `xmlp-server-config.xml` file located in the

`<application installation>/WEB-INF/` directory, where your application server unpacked the war or ear file.

Example:

In an AS/OC4J 10.1.3 deployment, the location is  
`<ORACLE_HOME>/j2ee/home/applications/xmlpserver/xmlpserver/WEB-INF/xmlp-server-config.xml`

The file contains the following:

```
<?xml version="1.0" encoding="UTF-8"?>
<xmlpConfig xmlns="http://xmlns.oracle.com/oxp/xmlp">
  <resource>
    <file path="%s_Reports_Path%"/>
  </resource>
</xmlpConfig>
```

3. Replace `%s_Reports_Path%` with file path to the location where you copied the XMLP repository directory on your server.

For example, if you copied the repository directory to `/home/repository/XMLP`, update the `xmlp-server-config.xml` file as follows:

```
<?xml version="1.0" encoding="UTF-8"?>
<xmlpConfig xmlns="http://xmlns.oracle.com/oxp/xmlp">
  <resource>
    <file path="/home/repository/XMLP"/>
  </resource>
</xmlpConfig>
```

Save `xmlp-server-config.xml` after updating.

4. Copy the font files from the manual\fonts on the install media to the fonts directory of the Java Runtime Environment used by your J2EE container/application server.

Example for Oracle Application Server or OC4J:

```
<ORACLE_HOME>...\jdk\jre\lib\fonts
```

5. Restart your application server.
6. Launch BI Publisher:

Open your browser to `http://hostname:port/xmlpserver`

For example:

```
http://localhost:8888/xmlpserver
```

7. Log in with user name "Administrator" and password "Administrator".

**Important:** Please change the Administrator password on the **Account** tab under **Preferences**.



Flexcube Lending and Leasing

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