

Installation and Setup Guide
Oracle FLEXCUBE Investor Servicing
Release 14.5.1.0.0
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1. Preface

This document provides the steps to install extensible Open Development tool and initial administration activities.

1.1 Audience

This document is intended for FLEXCUBE IS Application developers who are required to the following:

- Install and setup Open Development Tool development environment

1.2 Related documents


For more information, see following documents.

- Development Overview Guide.docx
- Getting Started.docx
- Reference.docx

1.3 Conventions

The following text conventions are used in this document:

Convention Meaning

boldface	Boldface type indicates graphical user interface elements (for example, menus and menu items, buttons, tabs, dialog controls), including options that you select.
<i>italic</i>	italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates language and syntax elements, directory and File name, URLs, text that appears on the screen, or text that you enter.
	Indicates important information

2. Introduction

This document is a guide for installation of Open Development Tool Version 11.1. Detailed steps have been mentioned for generation of WAR file from the Open Development Tool Source and deployment of Open Development Tool application to Apache Tomcat and OC4J server.

2.1 How to Use This Guide

The information in this guide includes:

- [Chapter 2, "Introduction"](#)
- [Chapter 3, "Pre-requisites"](#)
- [Chapter 4, "Open Development Tool 11.1 installation"](#)
- [Chapter 5, "How to run Installer"](#)
- [Chapter 6, "Troubleshooting"](#)
- [Chapter 7, "How to deploy WAR file"](#)
- [Chapter 8, "IE settings"](#)
- [Chapter 9, "Administration"](#)
- [Chapter 10, "Developer check list"](#)

3. Pre-requisites

3.1 JDK

3.1.1 License Information

JDK is distributed by Sun Microsystems, Inc under Java Development Kit Binary Code License Agreement.

3.1.2 Instructions

Installer requires JDK 1.6 update 16 version to be downloaded in the system and the same should be set as environmental variable (explained later in this document).

3.2 Apache Ant 1.7.1

3.2.1 License Information

Apache License version 2.0. This is available for reference at <http://www.apache.org/licenses/LICENSE-2.0>

3.2.2 Download Instructions

Apache Ant 1.7.1 is available in the archives at <http://www.apache.org/dist/ant/binaries/>
The file to be downloaded is **apache-ant-1.7.1-bin.zip**.

3.2.3 Post Download Instructions

Extract the apache-ant-1.7.1-bin.zip distribution to a directory. And provide this path for setting the environmental variable which is explained later in this document.

3.3 ActiveX settings:

Tools -> Internet Options -> Security -> Local intranet -> Custom Level -> ActiveX controls and Plug-ins -> Initialize and script ActiveX controls not marked as safe -> Select Enable.

3.4 Mxml:

Mxml 4.0 to be available on client machine.

3.5 Oracle Client (Database Installation)

In order to carry out Database Installation, Installer requires **Oracle 11g Client** or later version to be installed in the system.

3.6 Swing Layout

3.6.1 License Information

Lesser General Public License (LGPL 2.1)

3.6.2 Download Instructions

Swing Layout is available in the archives at <https://swing-layout.dev.java.net/> . In the website under 'project tools' section, select 'Documents and files' section. The file to be downloaded is **swing-layout-1.0.jar**.

3.6.3 Post Download Instructions

Extract the Swing-layout-1.0 distribution to a directory. Copy the following file

swing-layout-1.0.jar

Into the directory {INSTALLER_DIR}\lib

3.7 Log4J 1.2.15

3.7.1 License Information

Apache License 2.0. This is available for reference at <http://www.apache.org/licenses/LICENSE-2.0>

3.7.2 Download Instructions

Log4j 1.2.15 is available in the archives at <http://archive.apache.org/dist/logging/log4j/1.2.15/> .The file to be downloaded is **apache-log4j-1.2.15.zip**.

3.7.3 Post Download Instructions

Extract the Log4j 1.2.15 distribution to a directory. Copy the following file

log4j-1.2.15.jar

Into the directory {INSTALLER_DIR}\lib

3.8 Oracle 11g Database Driver (11.1.0.7) (Database Installation)

3.8.1 License Information

Oracle Corporation

3.8.2 Download Instructions:

ojdbc6.jar is available in the archives at

http://www.oracle.com/technology/software/tech/java/sqlj_jdbc/htdocs/jdbc_11106_0.html

The file to be downloaded is **ojdbc6.jar**.

Post Download Instructions:

Extract the ojdbc6.jar distribution to a directory. Copy the following file

ojdbc6.jar

Into the directory {INSTALLER_DIR}\lib

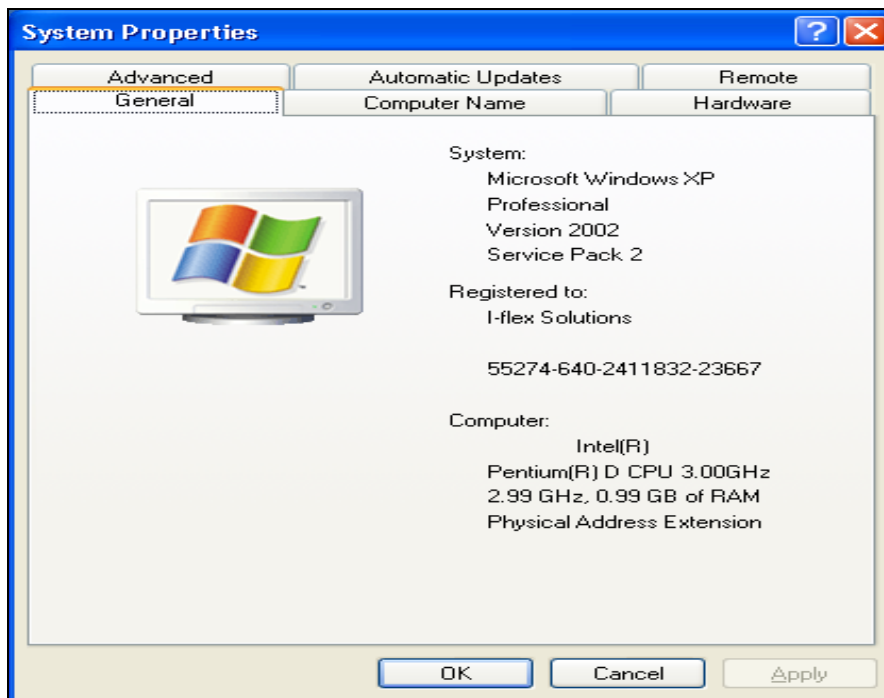
3.9 Setup for installer Open Development Applications

3.9.1 Step1

Navigate to Control Panel

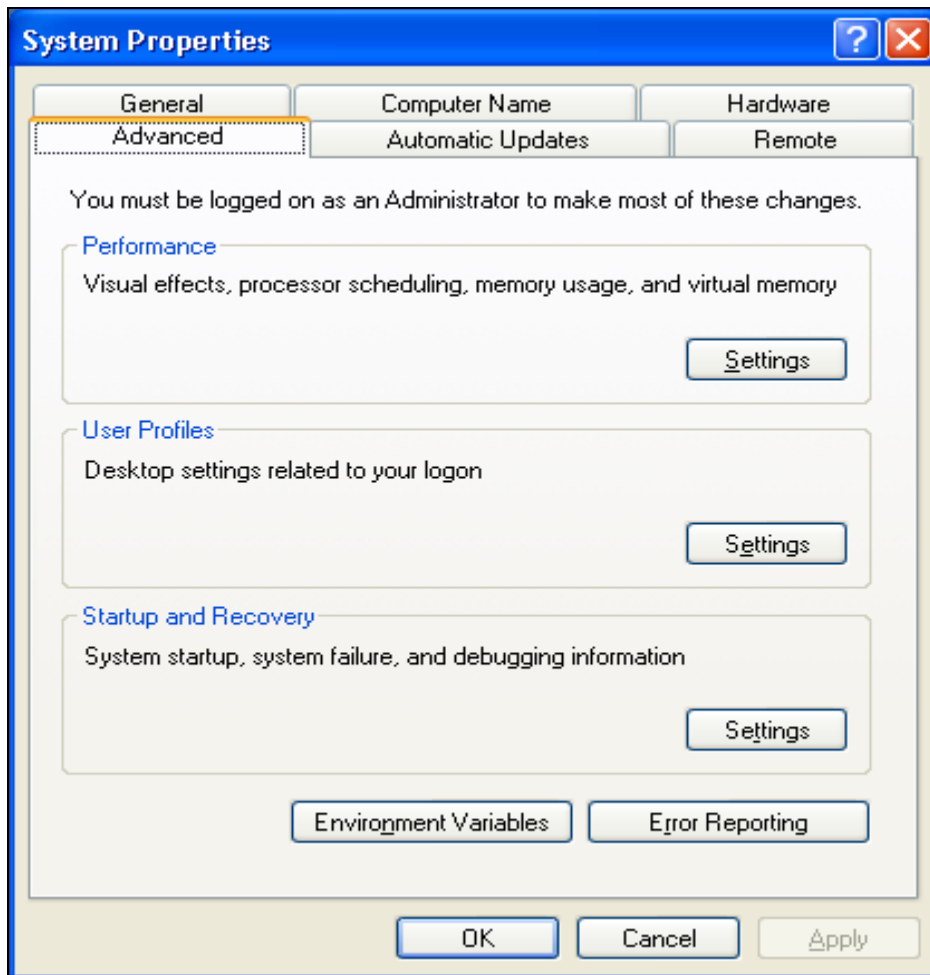
3.9.2 Step2

Double Click System icon to launch System Properties screen as shown below.



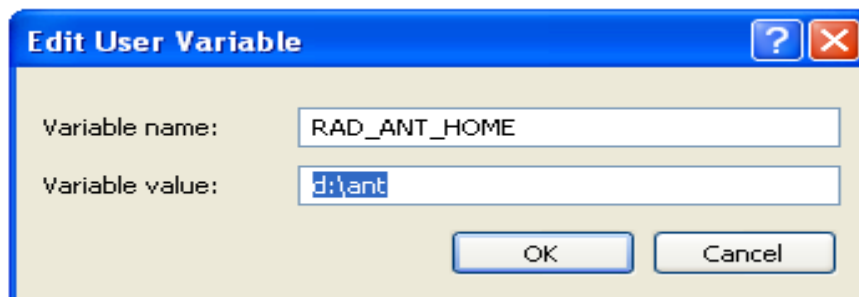
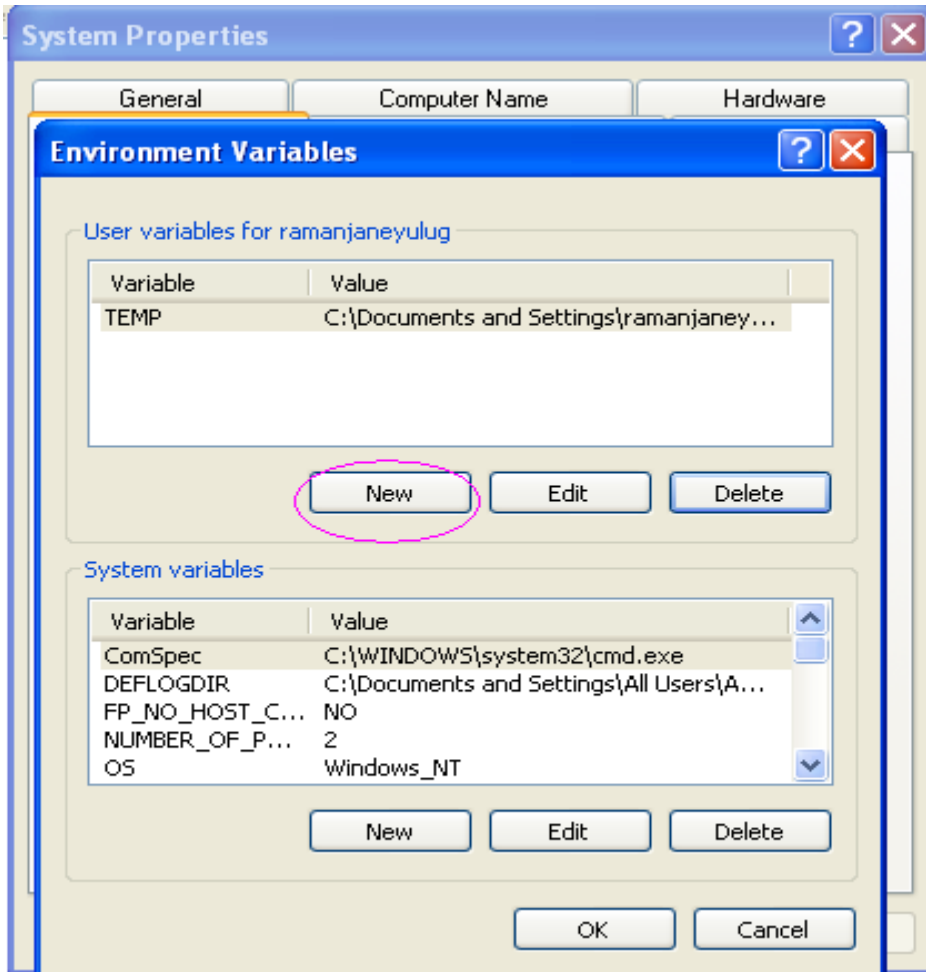
3.9.3 Step 3


Click Advanced Tab button and then click Environment Variables as shown below.



3.9.4 Step 4

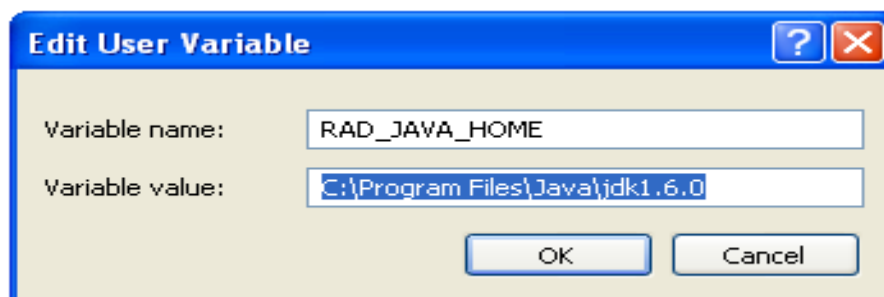
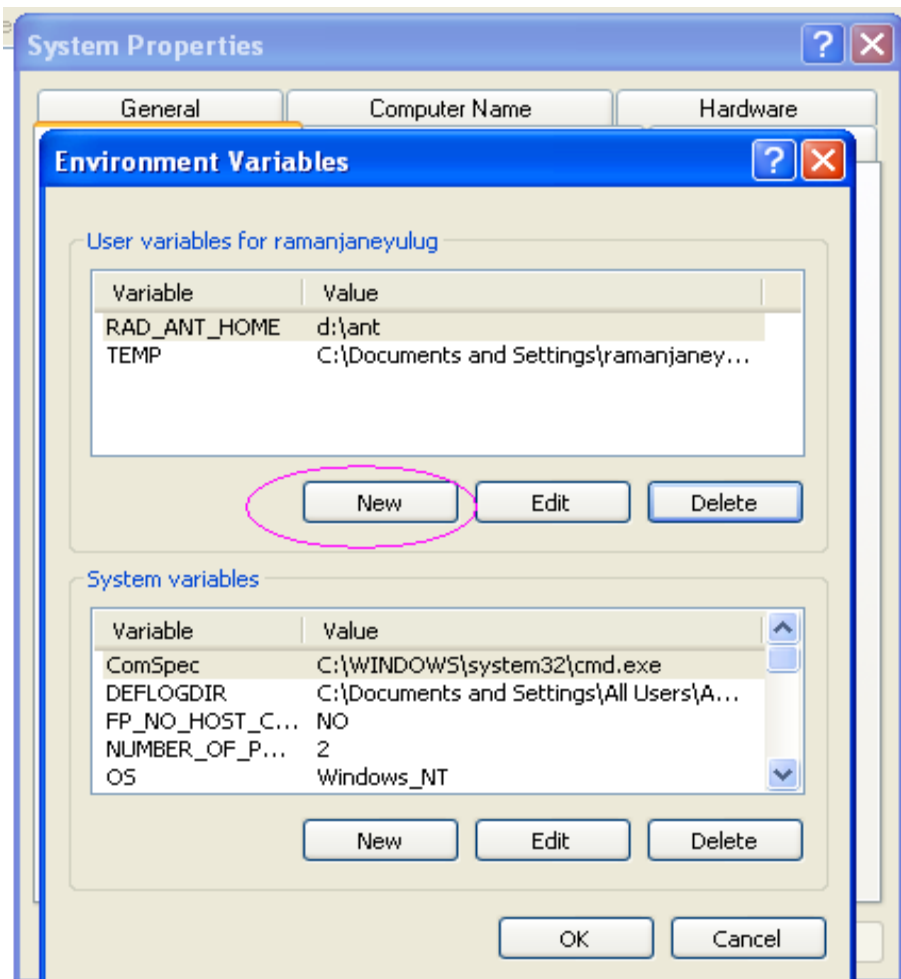
In User variables click New and in Variable name type **RAD_ANT_HOME**. In the value field give the path of Apache Ant root directory as shown below.



 The Ant provider supported by Installer is Apache and the version should be 1.7.1.

3.9.5 Step 5

Repeat **Step 4** and **Step 5** to set **RAD_JAVA_HOME** environment variable to jdk directory as shown below.



Ensure that the Variable value for Variable name RAD_JAVA_HOME eliminates space

4. Open Development Tool 11.1 Installation

Open Development Tool 11.1 installation includes below mentioned activities

- Deployment of Front-end Units or WAR File to Apache Tomcat or OC4J Server
- Loading of Back-end units(PLSQL Packages) to an existing FCUBS schema in Oracle Database
- RADTool.properties file configuration

The next section explains these two activities in detail

4.1 WAR File generation

To generate WAR file follow the below mentioned steps

4.1.1 Step 1

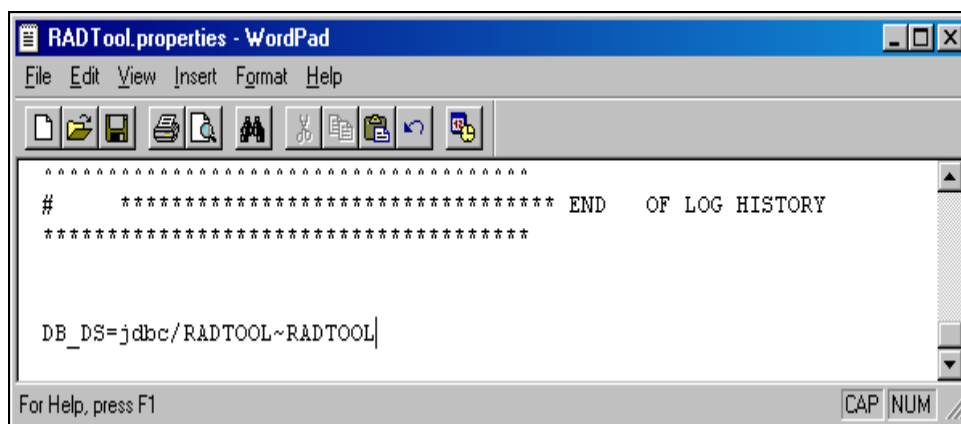
Copy all the contents from [\\IFLBLW-BPD-12\Vercon_IP-BPD-01\SOFT\FLEXCUBE_Kernel\FC_IS_V.UM_11.1.0.0.0.0\TOOLS\RAD\SOURCE\](#)

To RADTool_11.1

4.1.2 Step 2

RADTool. Properties file configuration

Open RADTool.properties file from RADTool_11.1 folder. Refer the screen shot shown below and enter appropriate values



4.1.3 Step 3

Open Web.xml add the JNDI reference for backend Database.

Ex: **<resource-ref>**

<res-auth>Container</res-auth>

<res-ref-name>jdbc/RADTOOL</res-ref-name>

<res-type>javax.sql.DataSource</res-type>

</resource-ref>

4.1.4 Step 4

Please Use the Installer To Prepare Warfile.

Installer sources will be available in the following location.

\\IFLBLW-BPD-12\Vercon_IP-BPD-01\SOFT\FLEXCUBE Kernel\FC_IS V.UM 11.1.0.0.0.0\TOOLS\RAD\INSTALLER\SOURCE

5. How to Run Installer

After copying the installer sources and library folder to your local system, make sure you uncheck the read only check box in source properties and apply the same to all the sub folders.

The screen shot below shows how the source folder in your local system should look like.

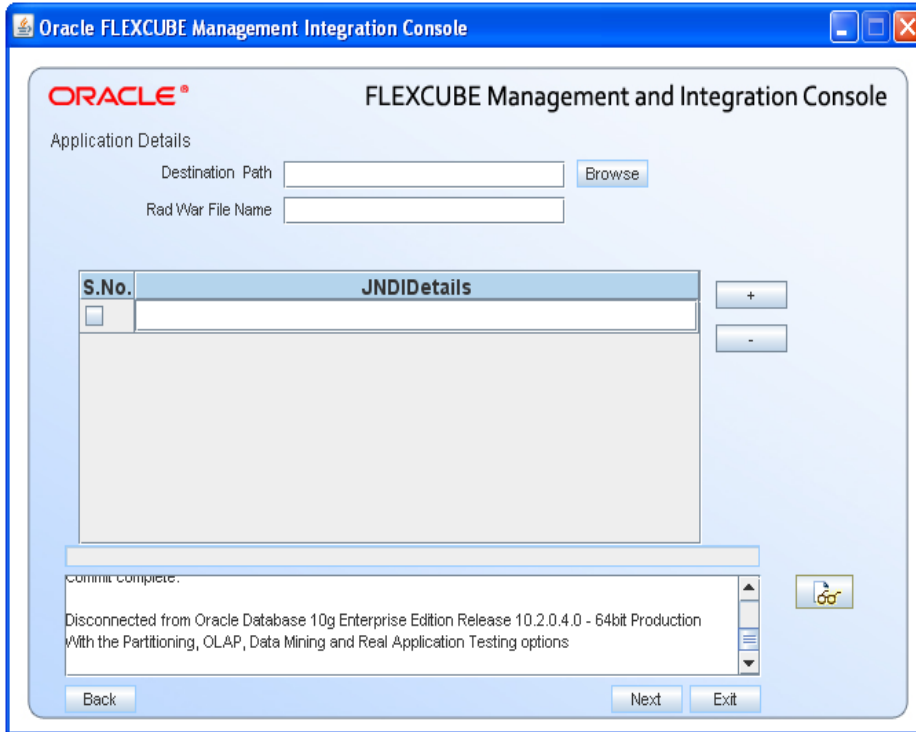
To run the installer, double click the batch file (RADInstaller11.1.bat) present in the installer source.



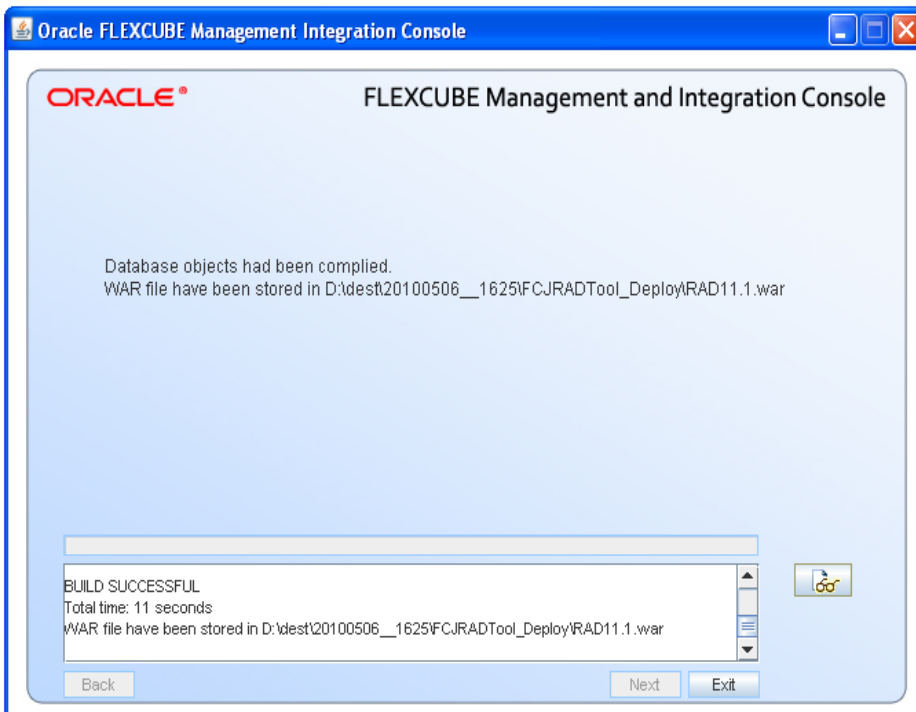
RADInstaller11.1.bat

This displays the screen as follows.

A screenshot of the Oracle FLEXCUBE Management Integration Console. The window title is "Oracle FLEXCUBE Management Integration Console". The main content area has the Oracle logo and the text "FLEXCUBE Management and Integration Console". Under the heading "SCHEMA DETAILS", there are several input fields: "Schema", "Password", "Connect String", "IP Address", "SID/Service Name", and "Port". Below these is a "Rad Source Path" field with a "Browse" button. At the bottom, there are "Back", "Next", and "Exit" buttons. A small icon is visible in the bottom right corner of the main content area.



If you want create the war component, please enter the Destination path and War file Name otherwise it will compile only db object display the screen as follows



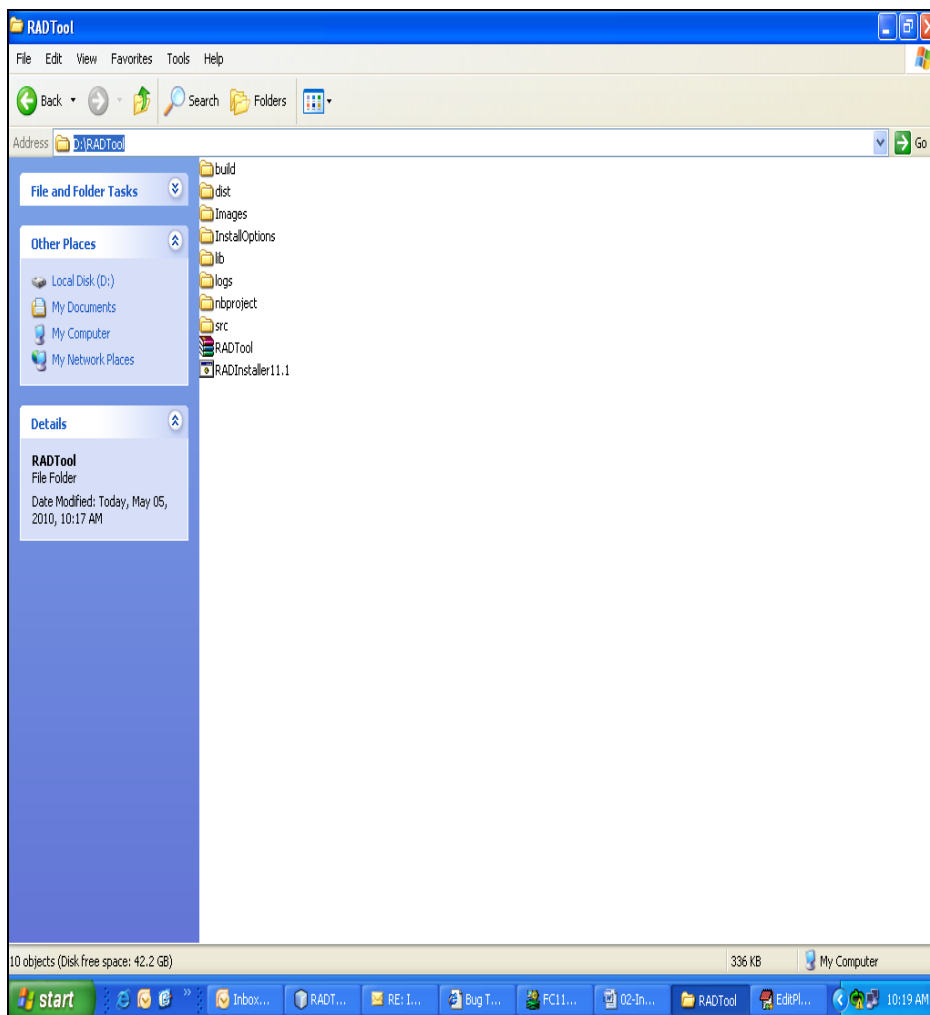
After generation of war file you can deploy war file in Application Server /Web server from destination path.

6. Troubleshooting

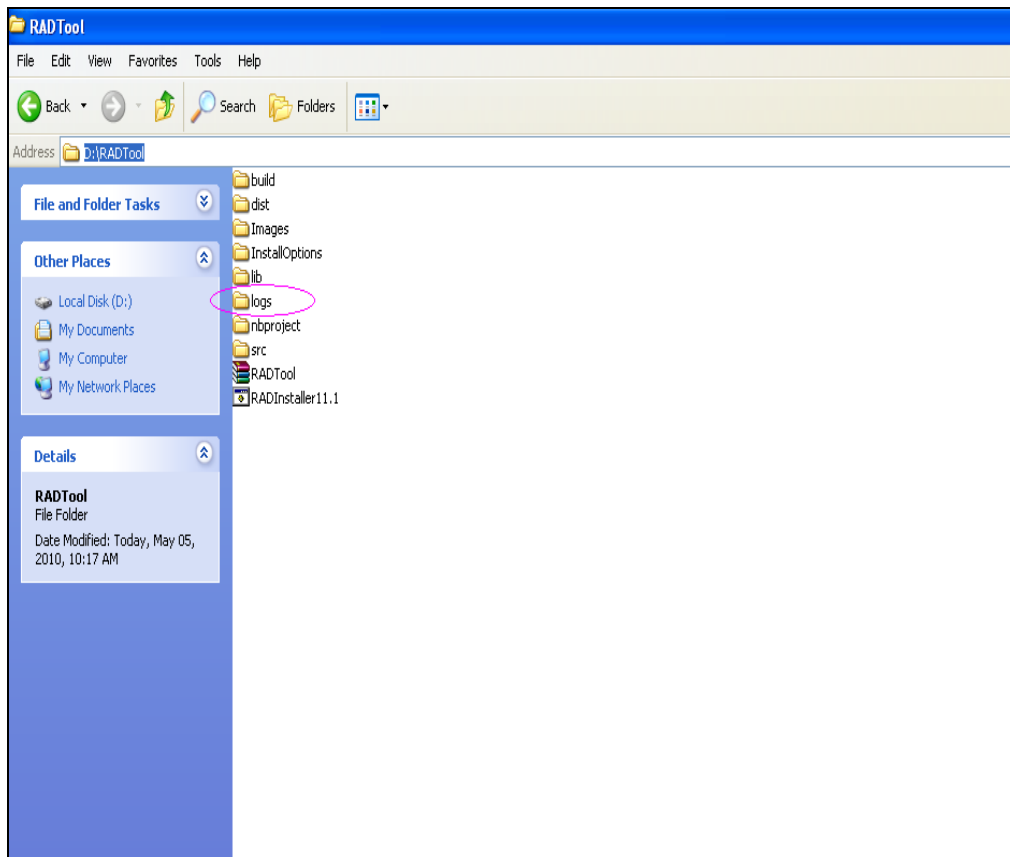
6.1 Checking Logs

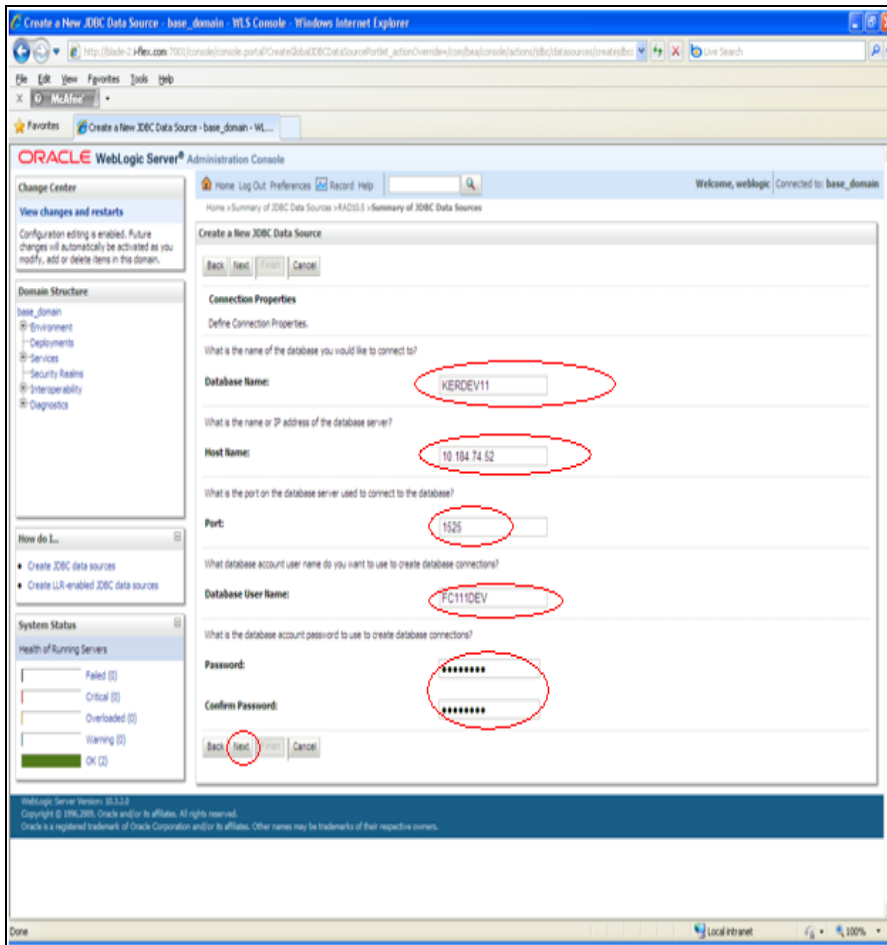
In case an error occurs while doing a particular Open Development activity and the user wants to know the exception, he can look at the log file which contains detailed information about executed and the type of error thrown if any.

To check the log file open the logs folder in the installer source of your local system.



Please Enter the Open Development Schem detail where you are going to connect the Open Development schema and select the Open Development source which you are copied from vercon area and press next button .display the screen as follows





FCJRADTool.war file is generated at specified "destPath" i.e. in this case at RADTool_11.1

This completes WAR file generation and Database installation .

7. Deployment of WAR file to Application Server

7.1 Apache Tomcat 5.5 Server

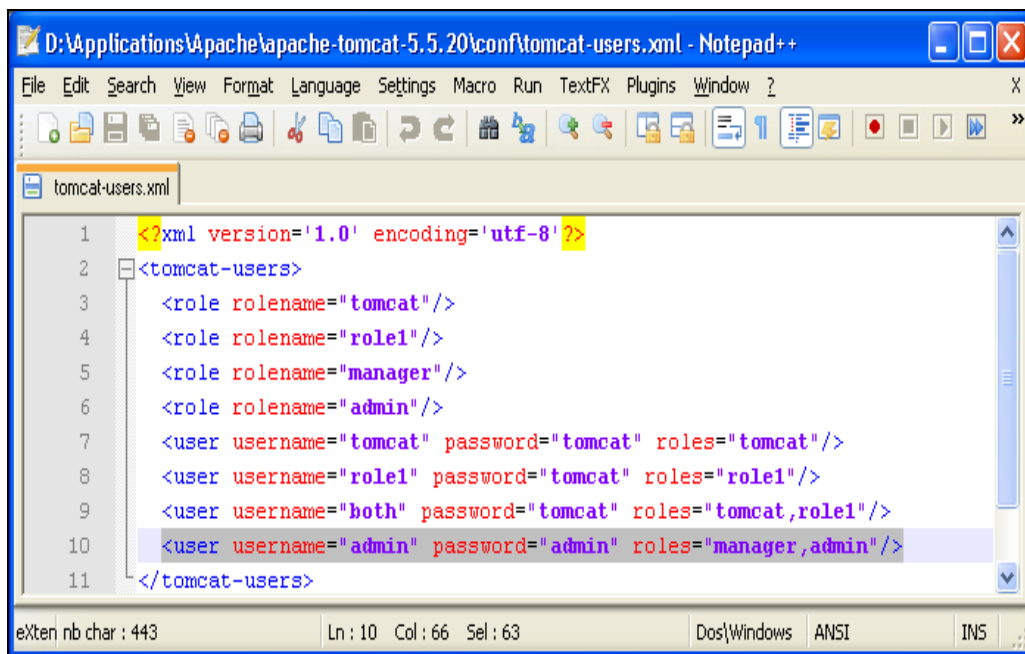
To deploy **FCJRADTool.war** to Apache Tomcat 5.5 Server follow the below mentioned steps

7.1.1 Step 1

Open tomcat-users.xml from <apache-tomcat-5.5.20_home>\conf folder.

Add <user username="admin" password="admin" roles="manager,admin"/>

As shown in highlighted section of the below screenshot.

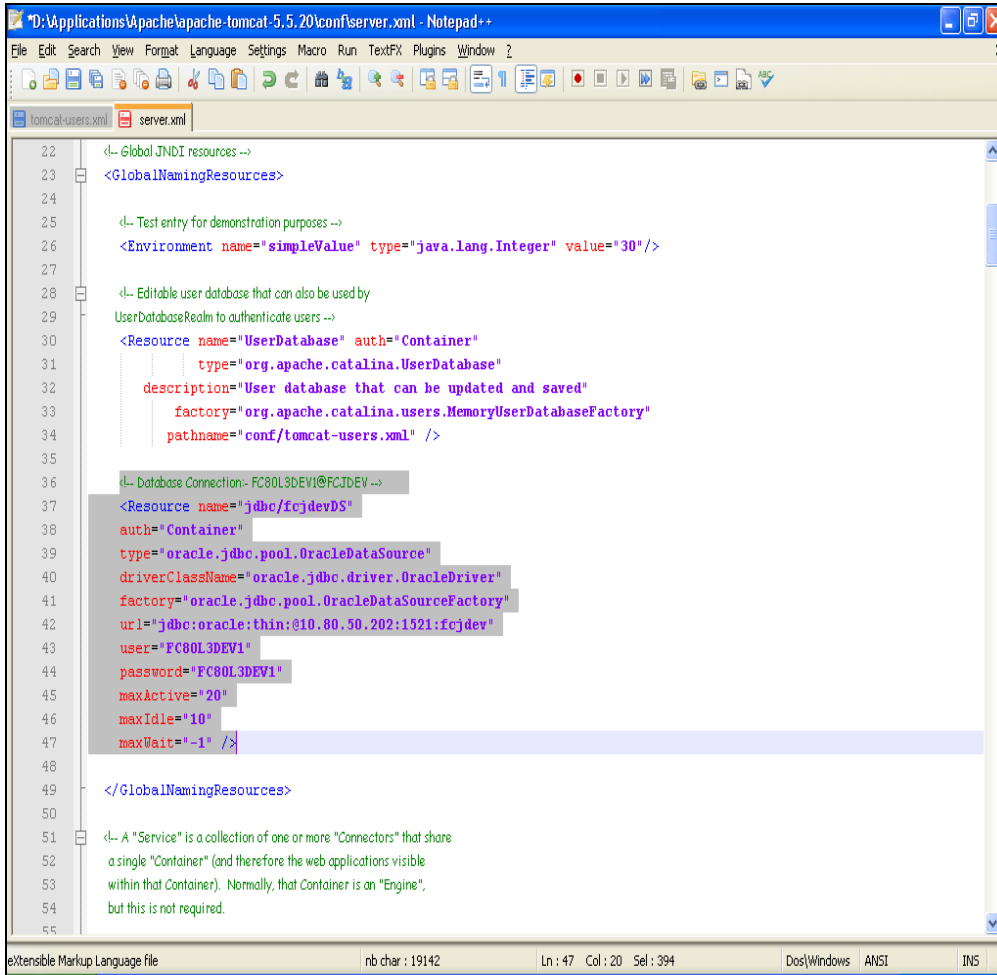


```
1 <?xml version='1.0' encoding='utf-8' ?>
2 <tomcat-users>
3 <role rolename="tomcat"/>
4 <role rolename="role1"/>
5 <role rolename="manager"/>
6 <role rolename="admin"/>
7 <user username="tomcat" password="tomcat" roles="tomcat"/>
8 <user username="role1" password="tomcat" roles="role1"/>
9 <user username="both" password="tomcat" roles="tomcat,role1"/>
10 <user username="admin" password="admin" roles="manager,admin"/>
11 </tomcat-users>
```

7.1.2 Step 2

Open Server.xml from <apache-tomcat-5.5.20_home>\conf folder.

Refer the highlighted section of screenshot below and add corresponding Datasource between <GlobalNamingResources></GlobalNamingResources> tags.

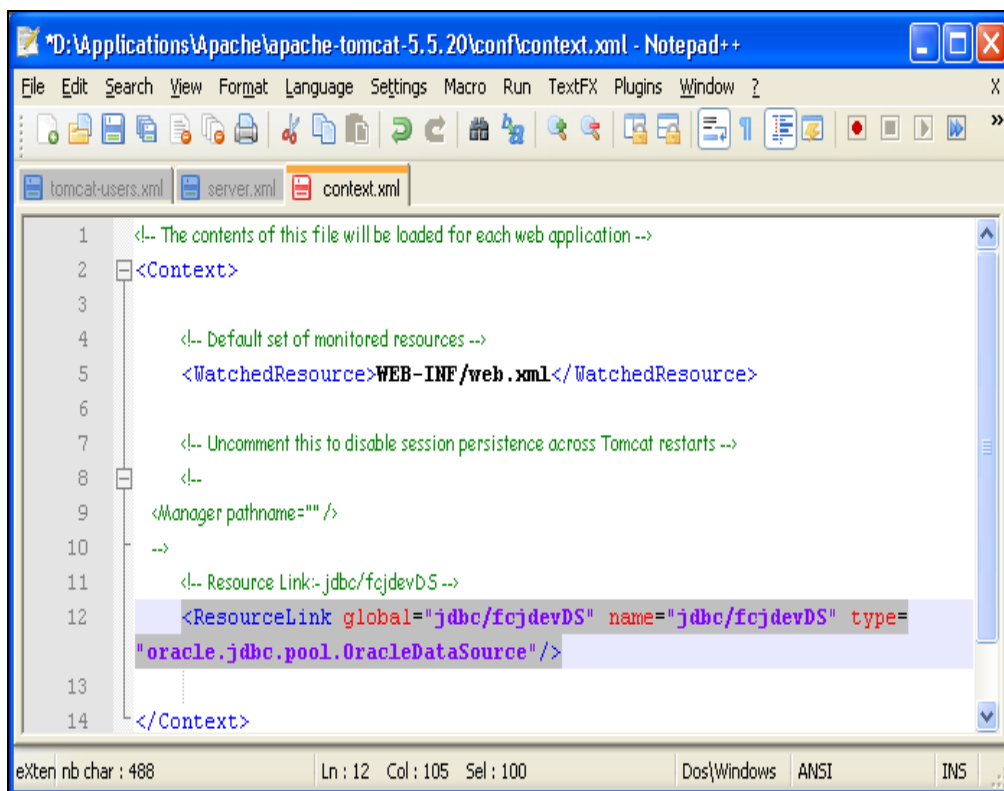


```
22 <!-- Global JNDI resources -->
23 <GlobalNamingResources>
24
25 <!-- Test entry for demonstration purposes -->
26 <Environment name="simpleValue" type="java.lang.Integer" value="30"/>
27
28 <!-- Editable user database that can also be used by
29 UserDatabaseRealm to authenticate users -->
30 <Resource name="UserDatabase" auth="Container"
31         type="org.apache.catalina.UserDatabase"
32         description="User database that can be updated and saved"
33         factory="org.apache.catalina.users.MemoryUserDatabaseFactory"
34         pathname="conf/tomcat-users.xml" />
35
36 <!-- Database Connection: FC80L3DEV1@FCJDEV -->
37 <Resource name="jdbc/fcjddevDS"
38         auth="Container"
39         type="oracle.jdbc.pool.OracleDataSource"
40         driverClassName="oracle.jdbc.driver.OracleDriver"
41         factory="oracle.jdbc.pool.OracleDataSourceFactory"
42         url="jdbc:oracle:thin:@10.80.50.202:1521:fcjdev"
43         user="FC80L3DEV1"
44         password="FC80L3DEV1"
45         maxActive="20"
46         maxIdle="10"
47         maxWait="-1" />
48
49 </GlobalNamingResources>
50
51 <!-- A "Service" is a collection of one or more "Connectors" that share
52 a single "Container" (and therefore the web applications visible
53 within that Container). Normally, that Container is an "Engine",
54 but this is not required.
55
```

7.1.3 Step 3

Open context.xml from <apache-tomcat-5.5.20_home>\conf folder.

Refer the highlighted section of screenshot below and add corresponding Resource Link



```
1 <!-- The contents of this file will be loaded for each web application -->
2 <Context>
3
4 <!-- Default set of monitored resources -->
5 <WatchedResource>WEB-INF/web.xml</WatchedResource>
6
7 <!-- Uncomment this to disable session persistence across Tomcat restarts -->
8 <!--
9 <Manager pathname="" />
10 -->
11 <!-- Resource Link:- jdbc/fcjddevDS -->
12 <ResourceLink global="jdbc/fcjddevDS" name="jdbc/fcjddevDS" type=
13 "oracle.jdbc.pool.OracleDataSource" />
14 </Context>
```

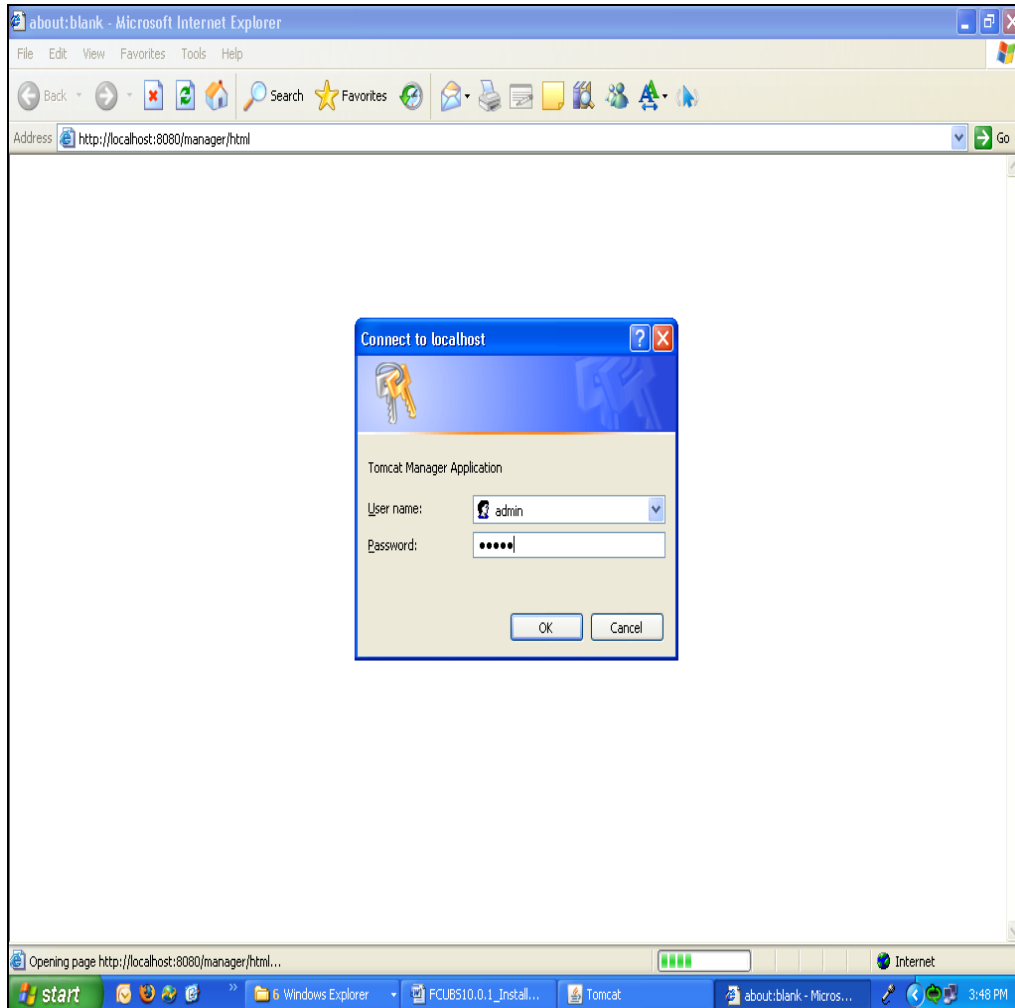
7.1.4 Step 4

Start Apache Tomcat 5.5 Server by double-clicking **startup.bat** from **<apache-tomcat-5.5.20_home>\bin** folder

7.1.5 Step 5

Launch Internet Explorer with URL Error! Hyperlink reference not valid.

Refer the screenshot below and enter **User Id** as **admin** and **password** as **admin**



7.1.6 Step 6

Upload the generated **FCJRADTool.war** file from RADTool_11.1 folder as shown Below in the screen shot and then click **Deploy**.

Context Path	Application Name	Enabled	Start	Stop	Reload	Undeploy
/jsp-examples	JSP 2.0 Examples	true	Start	Stop	Reload	Undeploy
/manager	Tomcat Manager Application	true	Start	Stop	Reload	Undeploy
/servlets-examples	Servlet 2.4 Examples	true	Start	Stop	Reload	Undeploy
/tomcat-docs	Tomcat Documentation	true	Start	Stop	Reload	Undeploy
/webdav	Webdav Content Management	true	Start	Stop	Reload	Undeploy

Tomcat Version	JVM Version	JVM Vendor	OS Name	OS Version	OS Architecture
Apache Tomcat/5.5.20	1.5.0_06-b05	Sun Microsystems Inc.	Windows XP	5.1	x86

completes Deployment of FCJRADTool.war file to Apache Tomcat 5.5 Server.

RADTool 11.1 Application can be launched with the URL.

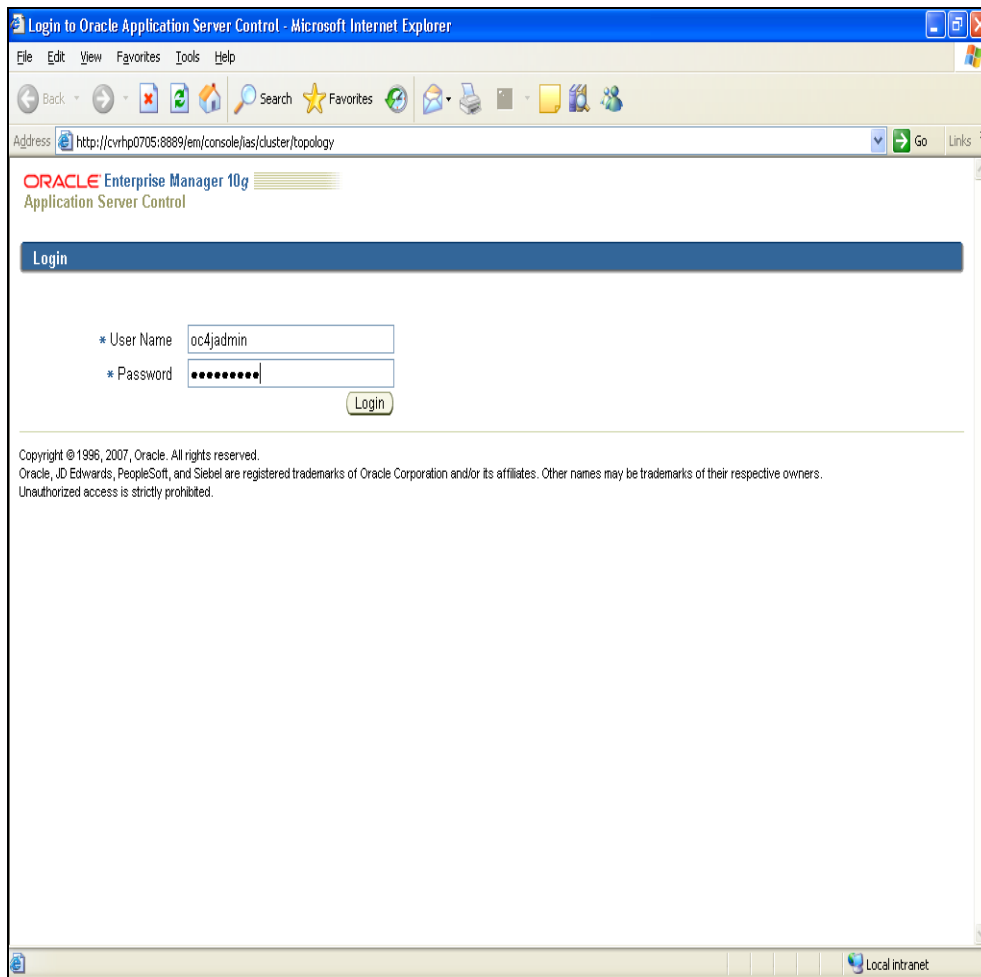
7.2 OC4J Application server

To deploy **FCJRADTool.war** to OC4J 10.1.3.X Application Server follow the below mentioned steps

Steps 1-15 explain creation of Connection Pool and Data Source. Skip these steps if Connection pool and data source already exists in the OC4J Application server.

7.2.1 Step 1

Login to Oracle 10g Application server's Administration console as shown below



7.2.2 Step 2

Click **Home** as shown below

The screenshot shows the Oracle Enterprise Manager 10g console in Microsoft Internet Explorer. The page title is "Oracle Enterprise Manager (oc4jadmin) - Cluster Topology". The address bar shows the URL: `http://cvrhp0705:8889/em/console/ias/cluster/topology`. The page content includes:

- Overview:** Hosts 1, Application Servers 1, OC4J Instances 1, HTTP Server Instances 0.
- Members:** View By: Application Servers. Buttons: Start, Stop, Restart. Links: Select All, Select None, Expand All, Collapse All.
- Table:** A table with columns: Select, Name, Status, Type, Category, Host, CPU (%), Memory (MB).

Select	Name	Status	Type	Category	Host	CPU (%)	Memory (MB)
<input type="checkbox"/>	All Application Servers						
<input type="checkbox"/>	oracle.cvrhp0705.i-flex.com		Application Server		cvrhp0705		
<input type="checkbox"/>	home (JVMs: 1)	↑	OC4J			0.84	225.42
- Groups:** A group is a collection of OC4J instances. Buttons: Start, Stop, Delete, Create. Table:

Select	Name	OC4J Instance	Status	Application Server
<input checked="" type="radio"/>	default_group	home	↑	oracle.cvrhp0705.i-flex.com
- Administration:** (Section header)

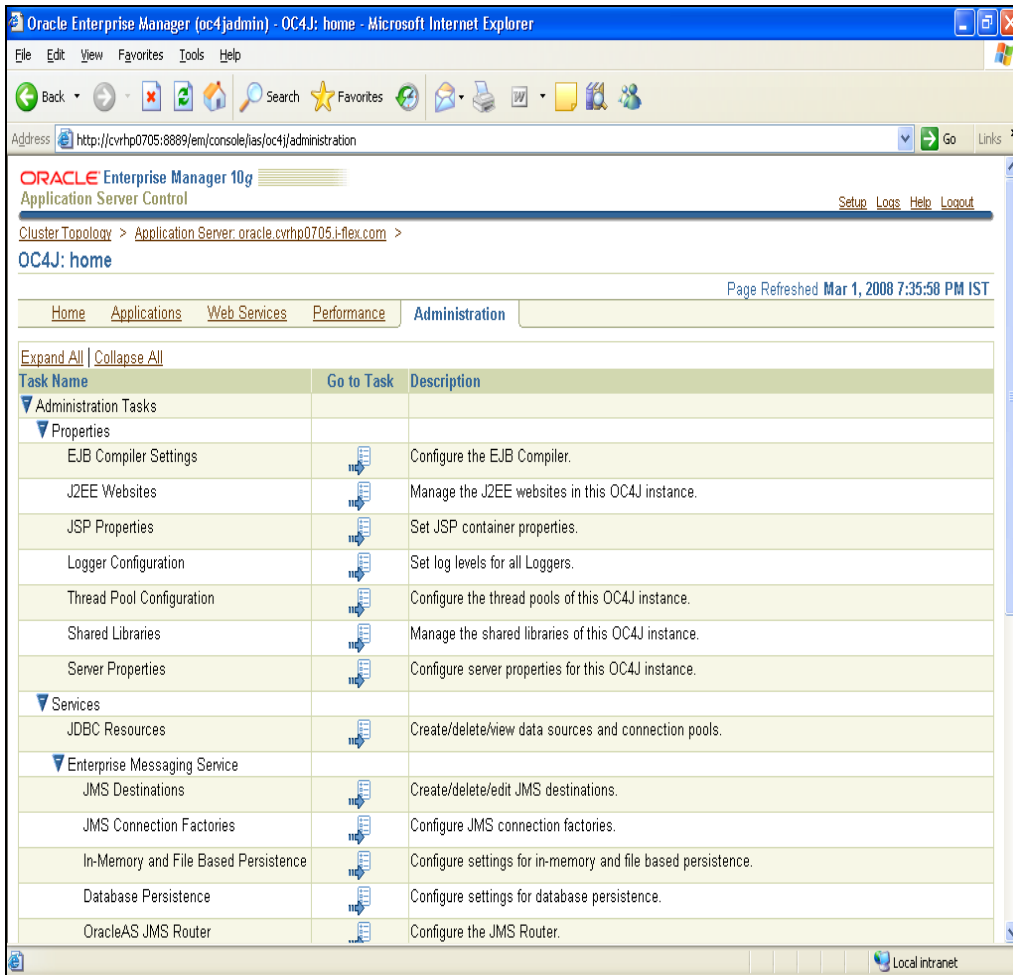
7.2.3 Step 3

Click Administration tab as shown below














The screenshot shows the Oracle Enterprise Manager 10g Application Server Control interface in a Microsoft Internet Explorer browser window. The address bar shows the URL: <http://cvrhp0705:8889/em/console/ias/oc4j/home>. The page title is "ORACLE Enterprise Manager 10g Application Server Control". The navigation menu includes "Home", "Applications", "Web Services", "Performance", and "Administration", with "Administration" selected. The "General" section shows the server status as "Up" with a green checkmark icon. The status details are: Start Time: Mar 1, 2008 4:19:25 PM IST; Version: 10.1.3.3.0; Oracle Home: D:\OracleAS_SOA; Host: cvrhp0705.i-flex.com; Virtual Machines: 1; Notifications: 0. There are "Stop" and "Restart" buttons. The "Response and Load" section contains a line graph showing "Request Processing Time (seconds)" and "Requests per second" over time. The x-axis labels are 5:34, 6:00, 6:20, 6:40, 7:00, 7:20. The y-axis ranges from 0 to 1.0. The status bar at the bottom shows "Done" and "Local intranet".

7.2.4 Step 4

Click JDBC Resources as shown below



The screenshot shows the Oracle Enterprise Manager 10g Administration console in a Microsoft Internet Explorer browser. The address bar shows the URL: <http://cvrhp0705:8889/em/console/ias/oc4j/administration>. The page title is "ORACLE Enterprise Manager 10g Application Server Control". The breadcrumb navigation is "Cluster Topology > Application Server: oracle.cvrhp0705.i-flex.com > OC4J: home". The page is refreshed on Mar 1, 2008 7:35:58 PM IST. The "Administration" tab is selected, and the "JDBC Resources" link under the "Services" section is highlighted.

Task Name	Go to Task	Description
Administration Tasks		
Properties		
EJB Compiler Settings		Configure the EJB Compiler.
J2EE Websites		Manage the J2EE websites in this OC4J instance.
JSP Properties		Set JSP container properties.
Logger Configuration		Set log levels for all Loggers.
Thread Pool Configuration		Configure the thread pools of this OC4J instance.
Shared Libraries		Manage the shared libraries of this OC4J instance.
Server Properties		Configure server properties for this OC4J instance.
Services		
JDBC Resources		Create/delete/view data sources and connection pools.
Enterprise Messaging Service		
JMS Destinations		Create/delete/edit JMS destinations.
JMS Connection Factories		Configure JMS connection factories.
In-Memory and File Based Persistence		Configure settings for in-memory and file based persistence.
Database Persistence		Configure settings for database persistence.
OracleAS JMS Router		Configure the JMS Router.

7.2.5 Step 5

Click Create Connection Pool as shown below

The screenshot shows the Oracle Enterprise Manager interface for JDBC Resources. The page title is "Oracle Enterprise Manager (oc4jadmin) - JDBC Resources - Microsoft Internet Explorer". The address bar shows the URL: http://cvrhp0705:8889/em/console/ias/oc4j/admin/jdbc?infoKey=1d4_11869f8fa97. The page was refreshed on Mar 1, 2008 7:37:19 PM IST.

The "Data Sources" section contains a table with the following data:

Name	Application	JNDI Location	Connection Pool	Managed by OCAJ	Test Connection	Delete
"BPESamplesDataSource"	default	jdbc/BPESamplesDataSource	"BPELPM_CONNECTION_POOL"	✓		
"BPEServerDataSource"	default	jdbc/BPEServerDataSource	"BPELPM_CONNECTION_POOL"	✓		
"BPEServerDataSourceWorkflow"	default	jdbc/BPEServerDataSourceWorkflow	"BPELPM_CONNECTION_POOL"	✓		
"ESBDataSource"	default	jdbc/esb	"ESBPool"	✓		
"OracleDS"	default	jdbc/OracleDS	"Example Connection Pool"	✓		

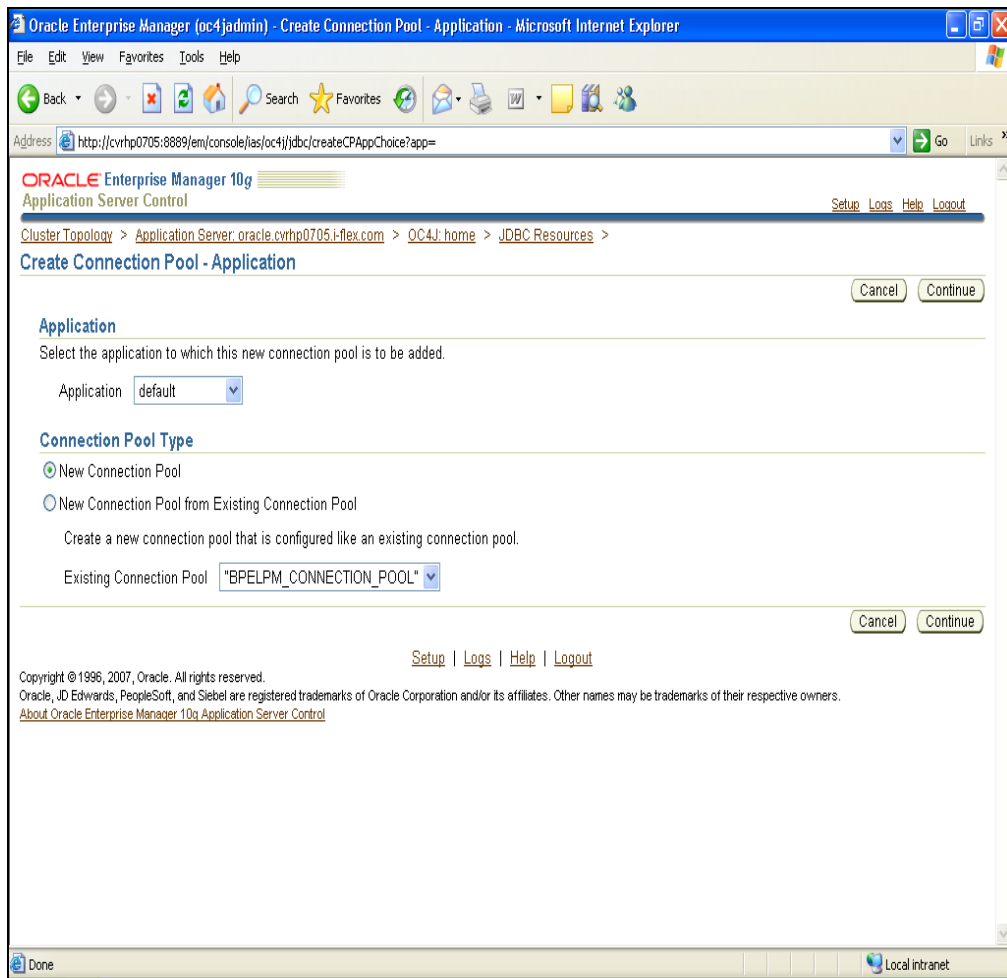
The "Connection Pools" section contains a table with the following data:

Name	Application	Connection Factory Class	Monitor Performance	Test Connection	Refresh Connection Pool	Delete
"BPELPM_CONNECTION_POOL"	default	oracle.lite.pooljdbc.POLJDBCdriver				
"ESBPool"	default	oracle.lite.pooljdbc.POLJDBCdriver				
"Example Connection Pool"	default	oracle.jdbc.pool.OracleDataSource				

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7.2.6 Step 6

Click **Continue** as shown below



7.2.7 Step 7

Refer the screen shots shown below. Provide equivalent information and click Finish

Oracle Enterprise Manager (oc4jadmin) - Create Connection Pool - Microsoft Internet Explorer

Address: http://cvrhp0705:8889/em/console/ias/oc4j/jdbc/createCPHome?app=default

ORACLE Enterprise Manager 10g
Application Server Control

Cluster Topology > Application Server oracle.cvrhp0705.i-flex.com > OC4J: home > JDBC Resources >

Create Connection Pool

Cancel Back Finish

Page Refreshed Mar 1, 2008 7:40:18 PM IST

Home Attributes Proxy Interfaces

* Name: FCUBS10.OCConnectionPool

* Connection Factory Class: oracle.jdbc.pool.OracleDataSource
Class must be available to the application's class loader.

URL

You can either specify a URL directly or have it generated from connection information. When you test a connection, the connection factory class and credentials specified on this page will be used to perform the test.

JDBC URL: jdbc:oracle:thin:@//10.80.150.202:1521/FCJDEV [Test Connection]

Generate URL from Connection Information [Test Connection]

Driver Type: Thin

DB Host Name: []

DB Listener Port: []

DB Identifier Type: Service Name

SID/Service Name: []

TNS Alias: []

Credentials

TIP For OracleDataSources, credentials must be entered if not already specified in the URL.

Username: FCB0L3DEV1

Oracle Enterprise Manager (oc4jadmin) - Create Connection Pool - Microsoft Internet Explorer

Address: http://cvrhp0705:8889/em/console/ias/oc4j/jdbc/createCPHome?app=default

* Connection Factory Class: oracle.jdbc.pool.OracleDataSource
Class must be available to the application's class loader.

URL

You can either specify a URL directly or have it generated from connection information. When you test a connection, the connection factory class and credentials specified on this page will be used to perform the test.

JDBC URL: jdbc:oracle:thin:@//10.80.150.202:1521/mydb.com [Test Connection]

Generate URL from Connection Information [Test Connection]

Driver Type: Thin

DB Host Name: []

DB Listener Port: []

DB Identifier Type: Service Name

SID/Service Name: []

TNS Alias: []

Credentials

TIP For OracleDataSources, credentials must be entered if not already specified in the URL.

Username: FCB0L3DEV1

Use Cleartext Password

Password: []

Use Indirect Password

Indirect Password: []
example: Scott, customers/Scott

Connection Factory Properties

Specify any properties needed by the connection factory here.

Name	Value	Delete
------	-------	--------

This creates the connection pool as shown below

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

Address: http://cvrhp0705:8889/em/console/ias/oc4j/admin/jdbc?infoKey=1dd_11869f8a97

Application: All

Data Sources

Create

Name	Application	JNDI Location	Connection Pool	Managed by OCAJ	Test Connection	Delete
"BPELSamplesDataSource"	default	jdbc/BPELSamplesDataSource	"BPELPM_CONNECTION_POOL"	✓		
"BPELServerDataSource"	default	jdbc/BPELServerDataSource	"BPELPM_CONNECTION_POOL"	✓		
"BPELServerDataSourceWorkflow"	default	jdbc/BPELServerDataSourceWorkflow	"BPELPM_CONNECTION_POOL"	✓		
"ESBDataSource"	default	jdbc/esb	"ESBPool"	✓		
"OracleDS"	default	jdbc/OracleDS	"Example Connection Pool"	✓		

Connection Pools

Create

Name	Application	Connection Factory Class	Monitor Performance	Test Connection	Refresh Connection Pool	Delete
"BPELPM_CONNECTION_POOL"	default	oracle.lite.poljdbc.POLJDBCdriver				
"ESBPool"	default	oracle.lite.poljdbc.POLJDBCdriver				
"Example Connection Pool"	default	oracle.jdbc.pool.OracleDataSource				
"FCUBS10_0ConnectionPool"	default	oracle.jdbc.pool.OracleDataSource				

Setup | Logs | Help | Logout

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Local intranet

7.2.8 Step 8

Click **Test Connection** as shown below

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

Address: http://cvrhp0705:8889/em/console/ias/oc4j/admin/jdbc?infoKey=1dd_11869f8a97

Application: All

Data Sources

Create

Name	Application	JNDI Location	Connection Pool	Managed by OCAJ	Test Connection	Delete
"BPELSamplesDataSource"	default	jdbc/BPELSamplesDataSource	"BPELPM_CONNECTION_POOL"	✓		
"BPELServerDataSource"	default	jdbc/BPELServerDataSource	"BPELPM_CONNECTION_POOL"	✓		
"BPELServerDataSourceWorkflow"	default	jdbc/BPELServerDataSourceWorkflow	"BPELPM_CONNECTION_POOL"	✓		
"ESBDataSource"	default	jdbc/esb	"ESBPool"	✓		
"OracleDS"	default	jdbc/OracleDS	"Example Connection Pool"	✓		

Connection Pools

Create

Name	Application	Connection Factory Class	Monitor Performance	Test Connection	Refresh Connection Pool	Delete
"BPELPM_CONNECTION_POOL"	default	oracle.lite.poljdbc.POLJDBCdriver				
"ESBPool"	default	oracle.lite.poljdbc.POLJDBCdriver				
"Example Connection Pool"	default	oracle.jdbc.pool.OracleDataSource				
"FCUBS10_0ConnectionPool"	default	oracle.jdbc.pool.OracleDataSource				

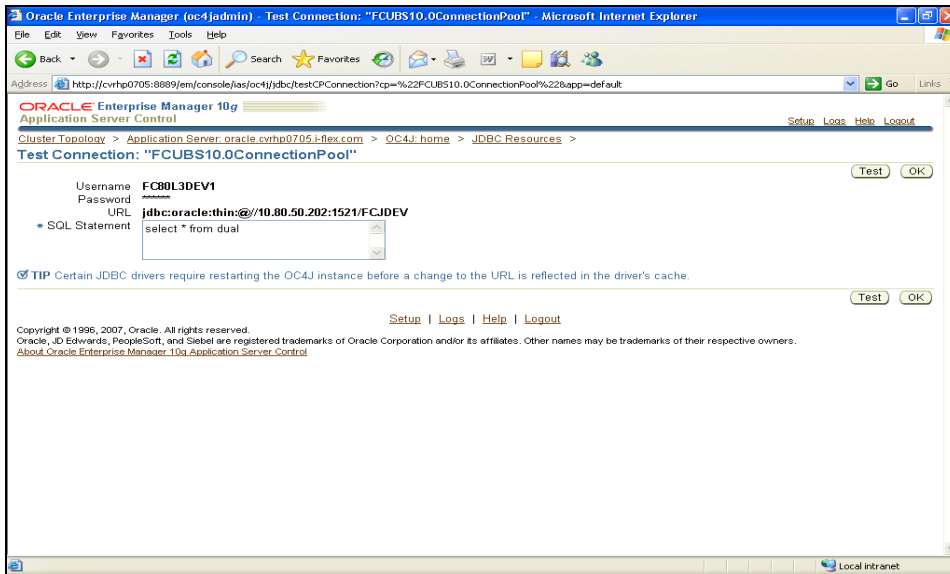
Setup | Logs | Help | Logout

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Local intranet

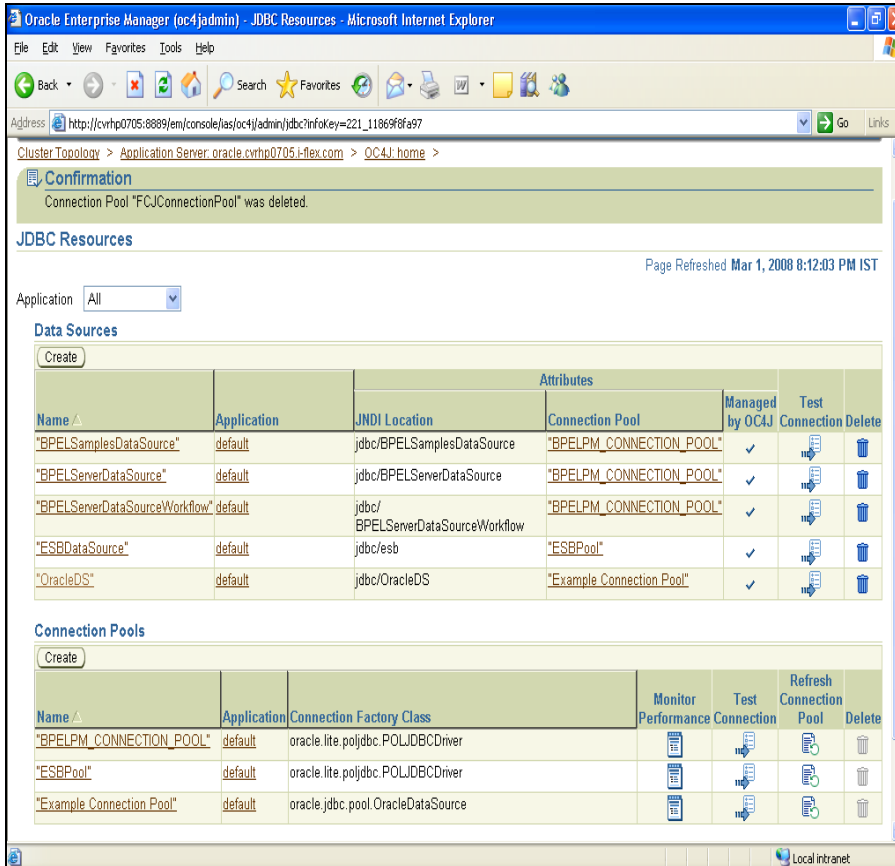
7.2.9 Step 9

Click **Test** as shown below



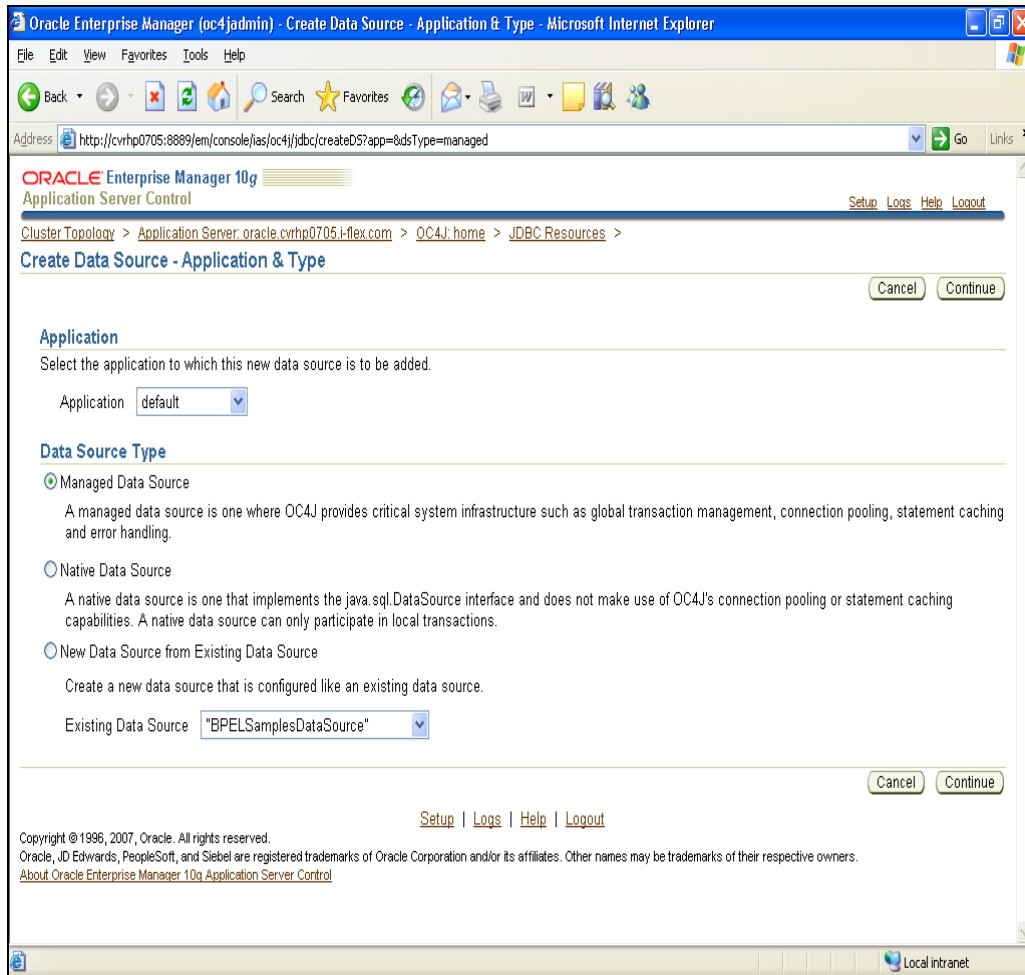
7.2.10 Step 10

Click **Create Data Sources** as shown below



7.2.11 Step 11

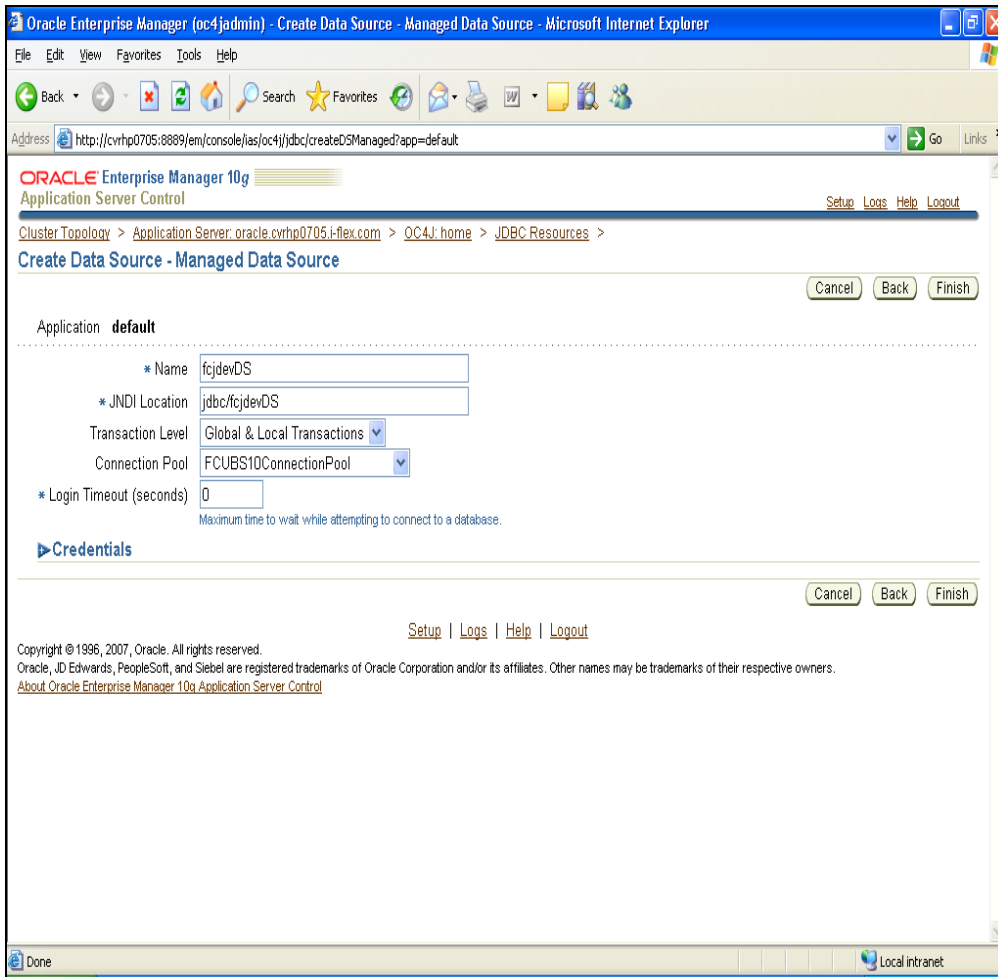
Click **Continue** as shown below



7.2.12 Step 12

Refer the **screen shot** below. Provide **equivalent information** as shown below and click Finish.

Select the **Connection Pool** that was created from the combo box



This creates Data Source as shown below.

The screenshot shows the Oracle Enterprise Manager 10g interface. At the top, a green confirmation banner states: "Data Source fcjdevDS has been created." Below this, the "JDBC Resources" section is active, showing a list of Data Sources. The "Application" filter is set to "All".

Name	Application	Attributes		Managed by OCAJ	Test Connection	Delete
		JNDI Location	Connection Pool			
"BPESamplesDataSource"	default	jdbc/BPESamplesDataSource	"BPELPM_CONNECTION_POOL"	✓		
"BPEServerDataSource"	default	jdbc/BPEServerDataSource	"BPELPM_CONNECTION_POOL"	✓		
"BPEServerDataSourceWorkflow"	default	jdbc/BPEServerDataSourceWorkflow	"BPELPM_CONNECTION_POOL"	✓		
"ESBDataSource"	default	jdbc/esb	"ESBPool"	✓		
"fcjdevDS"	default	jdbc/fcjdevDS	"FCUBS10ConnectionPool"	✓		
"OracleDS"	default	jdbc/OracleDS	"Example Connection Pool"	✓		

Name	Application	Connection Factory Class	Monitor Performance	Test Connection	Refresh Connection Pool	Delete
"BPELPM_CONNECTION_POOL"	default	oracle.lite.poljdbc.POLJDBCDriver				

7.2.13 Step 13

Click Test Connection as shown below

The screenshot shows the Oracle Enterprise Manager 10g interface. At the top, there is a confirmation message: "Data Source fcjdevDS has been created." Below this, the "JDBC Resources" section is visible. A dropdown menu for "Application" is set to "All". Under "Data Sources", there is a table with the following data:

Name	Application	JNDI Location	Connection Pool	Managed by OC4J	Test Connection	Delete
"BPELSamplesDataSource"	default	jdbc/BPELSamplesDataSource	"BPELPM_CONNECTION_POOL"	✓	Test	Delete
"BPEServerDataSource"	default	jdbc/BPELServerDataSource	"BPELPM_CONNECTION_POOL"	✓	Test	Delete
"BPEServerDataSourceWorkflow"	default	jdbc/BPELServerDataSourceWorkflow	"BPELPM_CONNECTION_POOL"	✓	Test	Delete
"ESBDataSource"	default	jdbc/esh	"ESBPool"	✓	Test	Delete
"fcjdevDS"	default	jdbc/fcjdevDS	"FCUBS10ConnectionPool"	✓	Test	Delete
"OracleDS"	default	jdbc/OracleDS	"Example.Connection.Pool"	✓	Test	Delete

Below the table, there is a "Connection Pools" section with a table:

Name	Application	Connection Factory Class	Monitor Performance	Test Connection	Refresh Connection Pool	Delete
"BPELPM_CONNECTION_POOL"	default	oracle.lite.poljdbc.POLJDBCdriver	Monitor	Test	Refresh	Delete

7.2.14 Step 14

Click Test as shown below

The screenshot shows the "Test Connection" dialog for the "fcjdevDS" data source. The dialog contains the following information:

- Username: Not Specified
- Password: Not Specified
- URL: jdbc:oracle:thin:@//10.80.50.202:1521/FCJDEV
- SQL Statement: select * from dual

There are "Test" and "OK" buttons. A tip at the bottom states: "TIP Certain JDBC drivers require restarting the OC4J instance before a change to the URL is reflected in the driver's cache." Below the tip, there are "Test" and "OK" buttons. The footer contains copyright information for Oracle Corporation.

This completes Data source creation

7.2.15 Step 15

Click **Applications Tab** to navigate to the screen shown and then click **Deploy**

Oracle Enterprise Manager 10g
Application Server Control

OC4J: home

Page Refreshed Apr 20, 2009 4:20:02 PM IST

Home Applications Web Services Performance Administration

This page shows the J2EE applications and application components (EJB Modules, WAR Modules, Resource Adapter Modules) deployed to this OC4J instance.

View Applications

Start Stop Restart Undeploy Redeploy Deploy

Select All Select None Expand All Collapse All

Select	Name	Status	Start Time	Active Requests	Request Processing Time (seconds)	Active EJB Methods	Application Defined MBeans
<input type="checkbox"/>	▼ All Applications						
<input type="checkbox"/>	ascontrol	↑	Apr 20, 2009 4:14:55 PM IST	1	0.06	0	
<input type="checkbox"/>	▼ default	↑	Apr 20, 2009 4:14:54 PM IST	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.

Home Applications Web Services Performance Administration

Setup | Logs | Help | Logout

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Done Local intranet

7.2.16 Step 16

Upload **FCJRADTool.war** file as shown below and click Next

Oracle Enterprise Manager (oc4jadmin) - Deploy: Select Archive - Microsoft Internet Explorer

Address: http://localhost:8888/em/console/ias/j2ee/deploy/deploySelectArchive?command=startWizard&appName=apps

ORACLE Enterprise Manager 10g
Application Server Control

Setup | Logs | Help | Logout

Select Archive Application Attributes Deployment Settings

Deploy: Select Archive

Cancel Step 1 of 3 Next

Archive

The following types of archives can be deployed: J2EE application (EAR files), Web Modules (WAR files), EJB Modules (EJB JAR files) and Resource Adapter Modules (RAR files).

- Archive is present on local host. Upload the archive to the server where Application Server Control is running.
Archive Location:
- Archive is already present on the server where Application Server Control is running.
Location on Server:
The location on server must be the absolute path or the relative path from j2ee/home

Deployment Plan

The deployment plan is an XML file that contains the deployment settings for an application. If you do not have a deployment plan, one will be created automatically during the deployment process. Later in the deployment process, you can optionally edit the deployment plan and save it for a future deployment of this application.

- Automatically create a new deployment plan.
The deployment plan settings will be based on OC4J defaults and information contained in the archive
- Deployment plan is present on local host. Upload the deployment plan to the server where Application Server Control is running.
Plan Location:
- Deployment plan is already present on server where Application Server Control is running.
Location on Server:
The location on server must be the absolute path or the relative path from j2ee/home

Cancel Step 1 of 3 Next

Setup | Logs | Help | Logout

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Local intranet

7.2.17 Step 17

Refer the screen shot below and click Next

The screenshot shows the Oracle Enterprise Manager 10g Application Server Control console in Microsoft Internet Explorer. The browser address bar shows `http://localhost:8888/em/console/iasj2ee/deploy/deployAppAttributes`. The page title is "Oracle Enterprise Manager 10g Application Server Control".

The main content area is titled "Deploy: Application Attributes" and is part of a three-step process. The current step is "Application Attributes", with "Select Archive" and "Deployment Settings" being the previous and next steps, respectively. Navigation buttons include "Cancel", "Back", "Step 2 of 3", and "Next".

Deployment details are as follows:

- Archive Type: **Web Module (WAR file)**
- Archive Location: **D:\Development\FLEXCUBE\FCJRADTool.war**
- Deployment Plan: **Creating a new plan**

Configuration fields include:

- * Application Name:
- Parent Application:
- Bind Web Module to Site:
- Context Root:

Web Module	Context Root
ORACLE RAD Tool	<input type="text" value="FCJRADTool"/>

At the bottom of the form, there are "Cancel", "Back", "Step 2 of 3", and "Next" buttons. Below the form, there are links for "Help" and "Logout".

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7.2.18 Step 18

Click **Go To Task for Map Environment Reference** as shown below

Oracle Enterprise Manager 10g
Application Server Control

Deploy: Deployment Settings

Archive Type: **Web Module (WAR file)**
 Archive Location: **D:\Development\FLEXCUBE\FCJRADTool.war**
 Deployment Plan: **Creating a new plan**

Application Name: **FCJRADTool**
 Parent Application: **default**
 Bind Web Module to Site: **default-web-site**
 Context Root: **FCJRADTool**

Deployment Tasks

The table below provides a set of common deployment tasks you might want to perform for this application. Only those tasks that apply to the current application are enabled.

Task Name	Go To Task	Description
Map Environment References		Map any environment references in your application (for example, data sources) to physical entities currently present on the operational environment.
Select Security Provider		A security provider acts as the source for available users and groups when mapping security roles.
Map Security Roles		Map any security roles exposed by your application to existing users and groups. The list of users and groups is obtained from the security provider you selected for this application.
Configure EJBs		Configure the Enterprise JavaBeans in your application.
Configure Clustering		Configure clustering of your application.
Configure Class Loading		Manipulate the classpath of your application.

Advanced Deployment Plan Editing
 Click Edit Deployment Plan to set more advanced deployment options. [Edit Deployment Plan](#)

Save Deployment Plan
 After you make changes, you can save the deployment plan to your local disk. You

7.2.19 Step 19

Refer the screen shot below and enter corresponding details and then click OK.

Oracle Enterprise Manager 10g
Application Server Control

Deployment Settings: Map Environment References

Archive Type: **Web Module (WAR file)**
 Archive Location: **D:\Development\FLEXCUBE\FCJRADTool.war**
 Deployment Plan: **Creating a new plan**

Application Name: **FCJRADTool**
 Parent Application: **default**
 Bind Web Module to Site: **default-web-site**
 Context Root: **FCJRADTool**

Map Resource References

The table below lists the resource references which need to be associated with physical entities on the system where the selected instance/cluster is running.

Resource Reference	Description	Type	Referenced By		Map to JNDI Location
			Module	Enterprise Bean	
jdbc/fccdev		javax.sql.DataSource	ORACLE RAD Tool	n/a	<input type="text" value="jdbc/fccdev"/>
jdbc/fcdev		javax.sql.DataSource	ORACLE RAD Tool	n/a	<input type="text" value="jdbc/fcdev"/>
jdbc/fcdevDS		javax.sql.DataSource	ORACLE RAD Tool	n/a	<input type="text" value="jdbc/fcdevDS"/>

Map URL Resource References

The table below lists the resource references of type java.net.URL each of which must be linked to a URL.

Resource Reference	Description	Referenced By		
		Module	Enterprise Bean	Map to URL
No resource references were				

7.2.20 Step 20

Click Deploy

The screenshot shows the Oracle Enterprise Manager 10g console in Microsoft Internet Explorer. The address bar shows `http://localhost:8888/em/console/ias/j2ee/deploy/deploymentSettings`. The page title is "ORACLE Enterprise Manager 10g Application Server Control". A progress bar at the top indicates the current step is "Deployment Settings".

Information
Deployment plan has been updated successfully.

Deploy: Deployment Settings

Buttons: Cancel, Back, Step 3 of 3, Deploy

Archive Type: **Web Module (WAR file)**
Archive Location: **D:\Development\FLEXCUBE\FCJRADTool.war**
Deployment Plan: **Creating a new plan**

Application Name: **FCJRADTool**
Parent Application: **default**
Bind Web Module to Site: **default-web-site**
Context Root: **FCJRADTool**

Deployment Tasks

The table below provides a set of common deployment tasks you might want to perform for this application. Only those tasks that apply to the current application are enabled.

Task Name	Go To Task	Description
Map Environment References		Map any environment references in your application (for example, data sources) to physical entities currently present on the operational environment.
Select Security Provider		A security provider acts as the source for available users and groups when mapping security roles.
Map Security Roles		Map any security roles exposed by your application to existing users and groups. The list of users and groups is obtained from the security provider you selected for this application.
Configure EJBs		Configure the Enterprise JavaBeans in your application.
Configure Clustering		Configure clustering of your application.
Configure Class Loading		Manipulate the classpath of your application.

Advanced Deployment Plan Editing
Click Edit Deployment Plan to set more advanced deployment options. [Edit Deployment Plan](#)

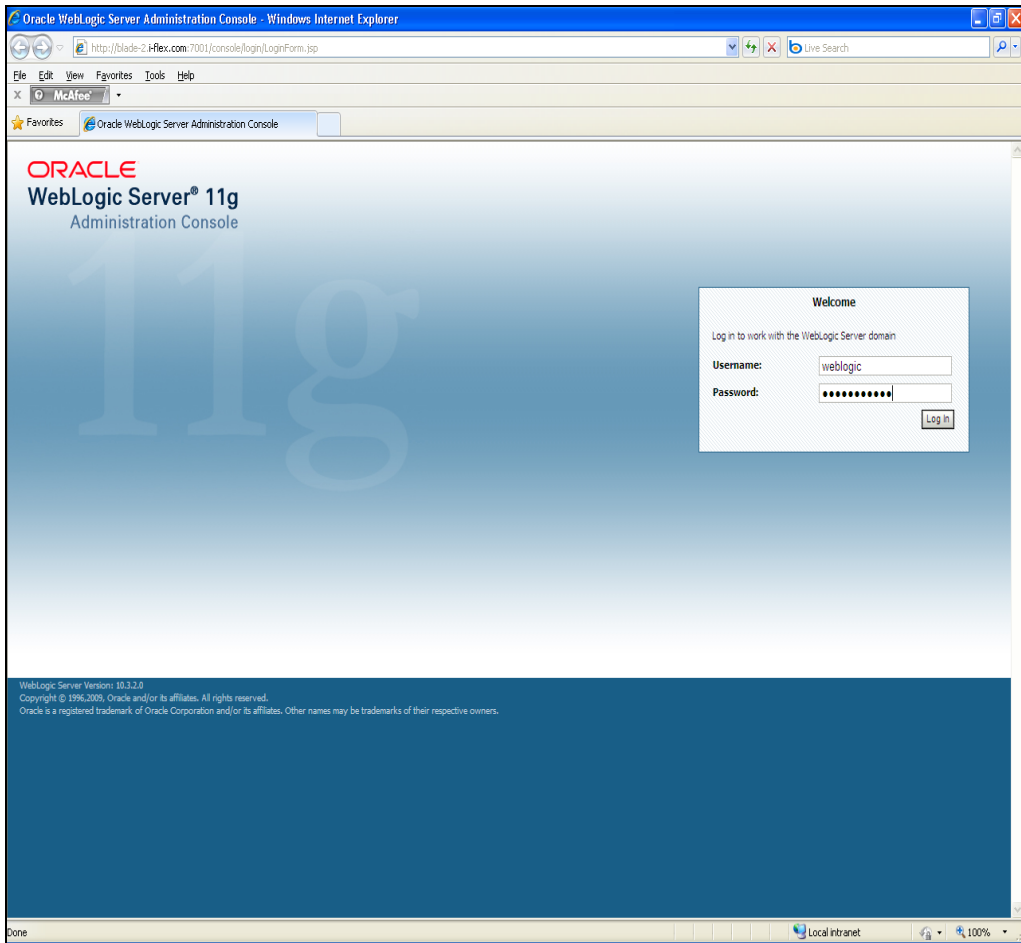
This completes Deployment of FCJRADTool.war file to OC4J 10.1.3.x Application server.

7.3 WebLogic Application server

To deploy **FCJRADTool.war** to WebLogic Application Server follow the below mentioned steps

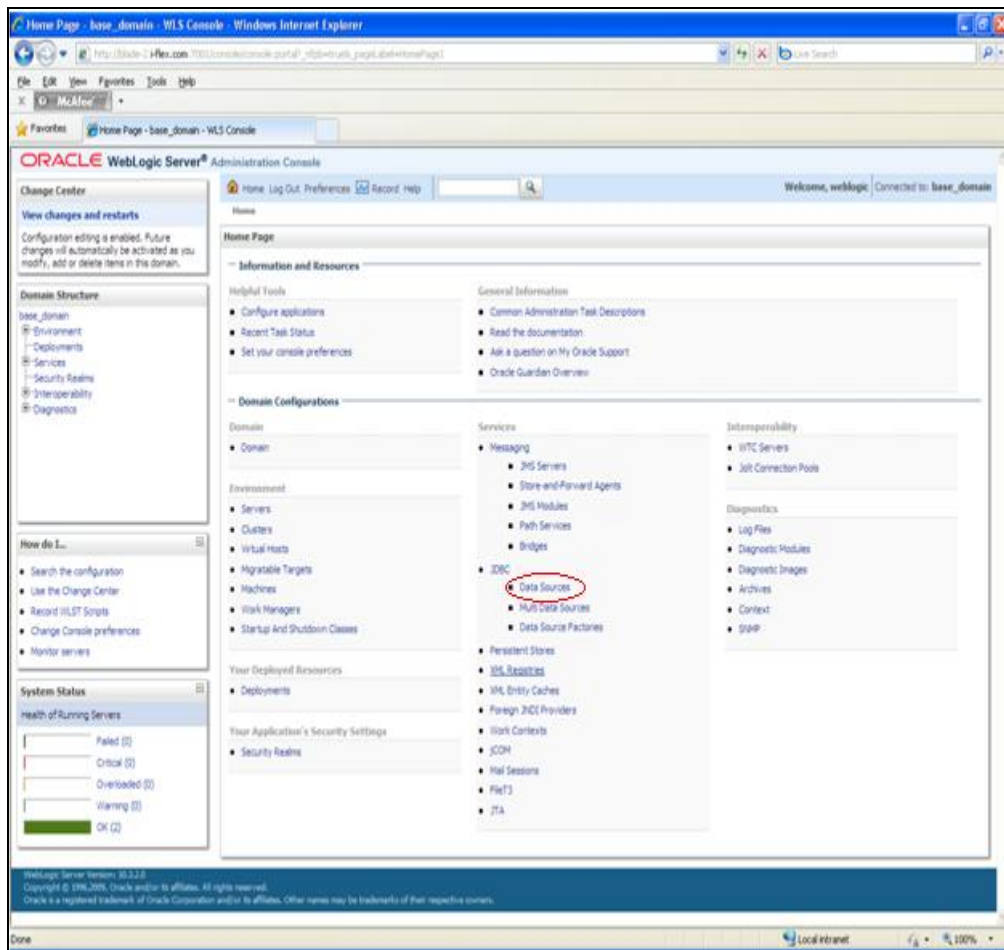
Steps 1-18 explain creation of Connection Pool and Data source. Skip these steps if Connection pool and data source already exists in the WebLogic Application server.

Login to the Weblogic Server with <USername> and <Password>



7.3.1 Step 1

Under Domain Configurations→Services→JDBC, Click on Data Sources



7.3.2 Step 2

JDBC Data Sources shows a list of available Data Sources. To create a new DS, Click on New

The screenshot displays the Oracle WebLogic Server Administration Console interface. The main content area is titled "Summary of JDBC Data Sources" and contains a table listing existing data sources. A red circle highlights the "New" button located above the table. The table has the following data:

Name	JNDI Name	Targets
fcjSchedulerDS	jbc:fcjSchedulerDS	ManagedServer_1
FCU8511.1	jbc:fcjole-DS11	ManagedServer_1
HDFC	jbc:fcjole-DS	ELCManaged
RAO10.5	jbc:FCCEV	ManagedServer_1

At the bottom of the console, the system status is shown as "OK (2)".

7.3.3 Step 3

- Give a suitable name for the Data Source. The JNDI Name(Case Sensitive) should match the name as given in Open Development web.xml. Click Next.
- JNDI Name Should be like jdbc/<Schema-Name>



Schema Name is same added while adding environment details.

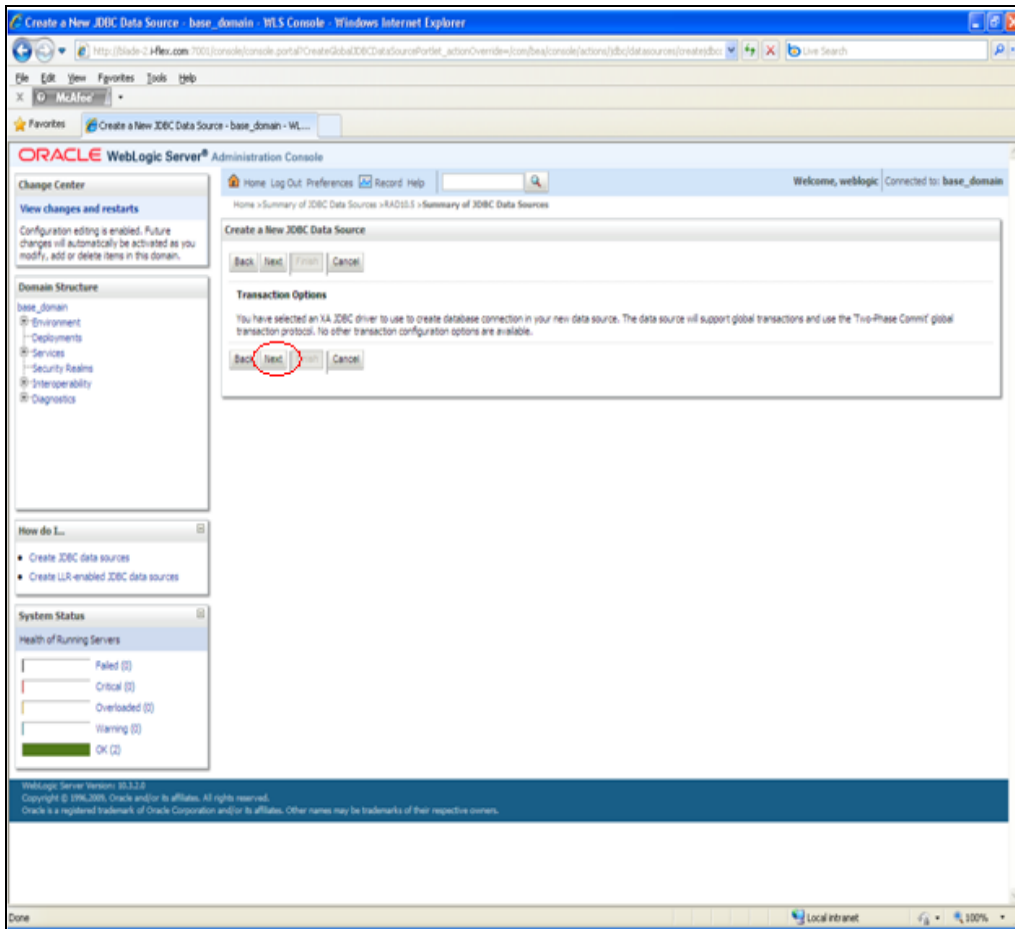
The screenshot shows the Oracle WebLogic Server Administration Console. The main window is titled "Create a New JDBC Data Source - base_domain - WLS Console - Windows Internet Explorer". The console displays the "Create a New JDBC Data Source" wizard. The "JDBC Data Source Properties" section is visible, with the following fields:

- Name:** RAD11
- JNDI Name:** jdbc/TC111DEV
- Database Type:** Oracle
- Database Driver:** Oracle's Driver (Thin XA) for Instance connections: Versions 9.0.1.9.2.0.10.11

The "Next" button is highlighted with a red circle. The "Cancel" button is also visible. The console also shows a "Change Center" on the left and a "System Status" section at the bottom.

7.3.4 Step 4

Click Next

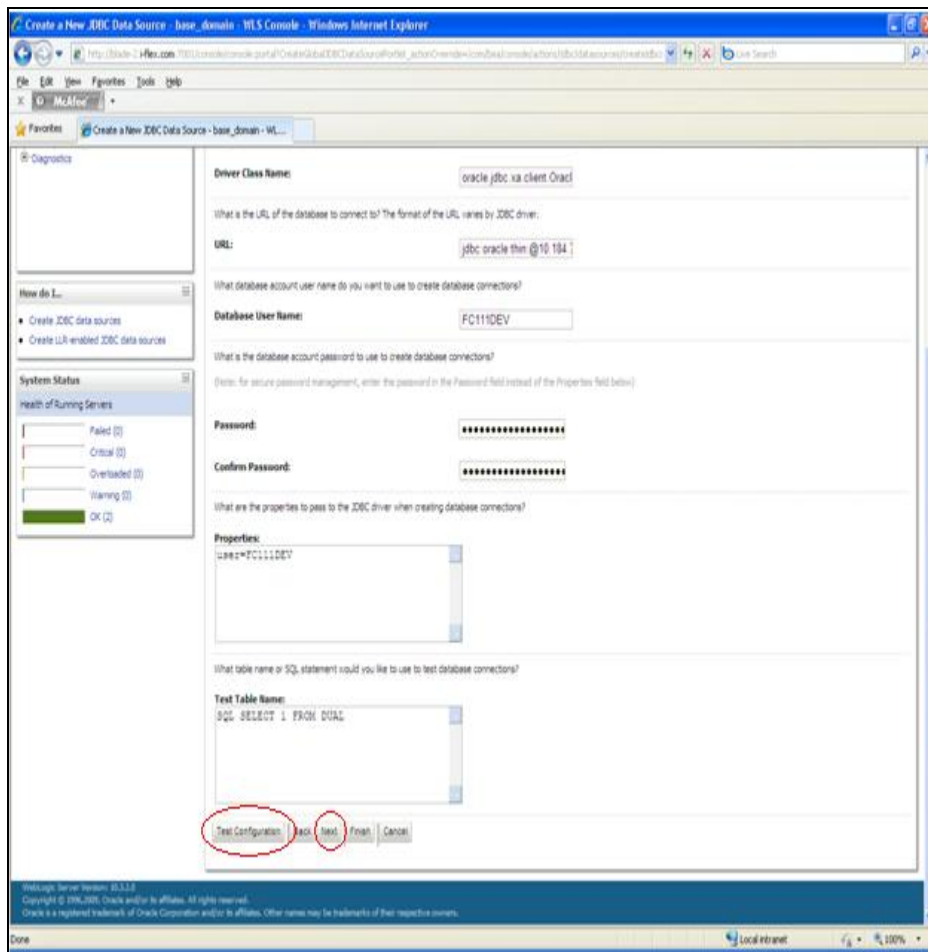


7.3.5 Step 5

Fill in the Marked Fields in Connection Properties. Click Next

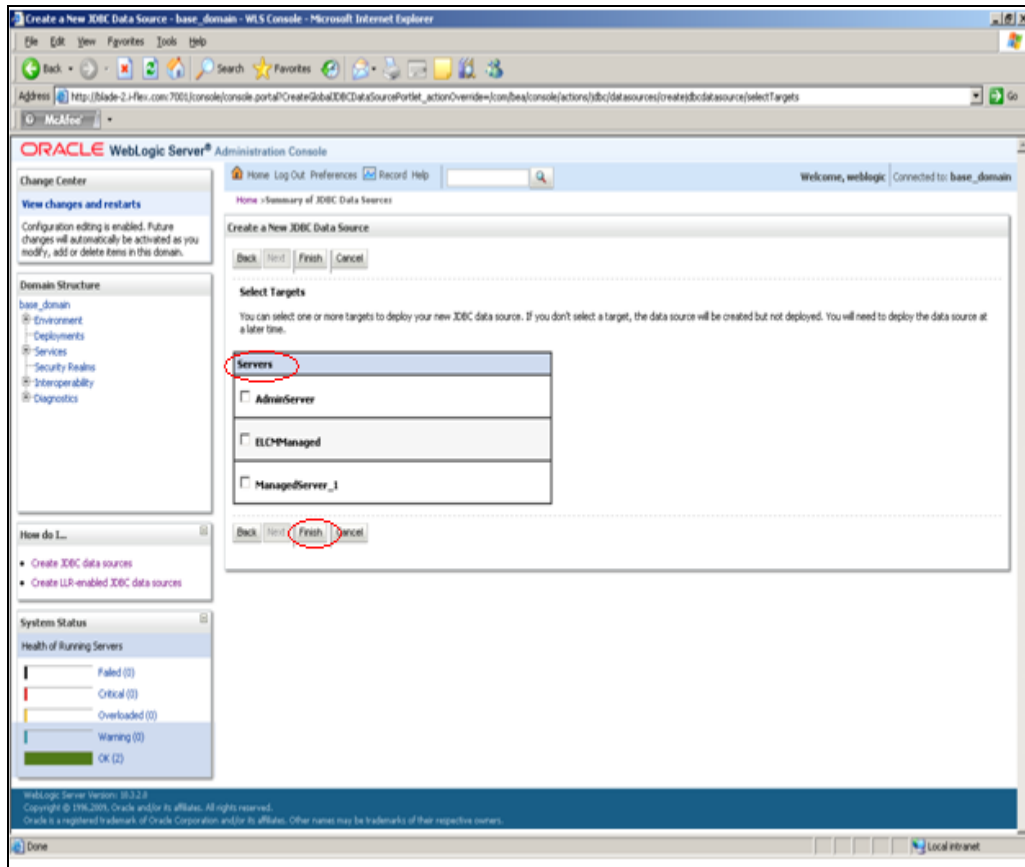
7.3.6 Step 6

Click on Test Configuration to test if connection is being made to the data source. Click next.



7.3.7 Step 7

Choose a Target where you wish to deploy the new Data source and Click Finish.



7.3.8 Step 8

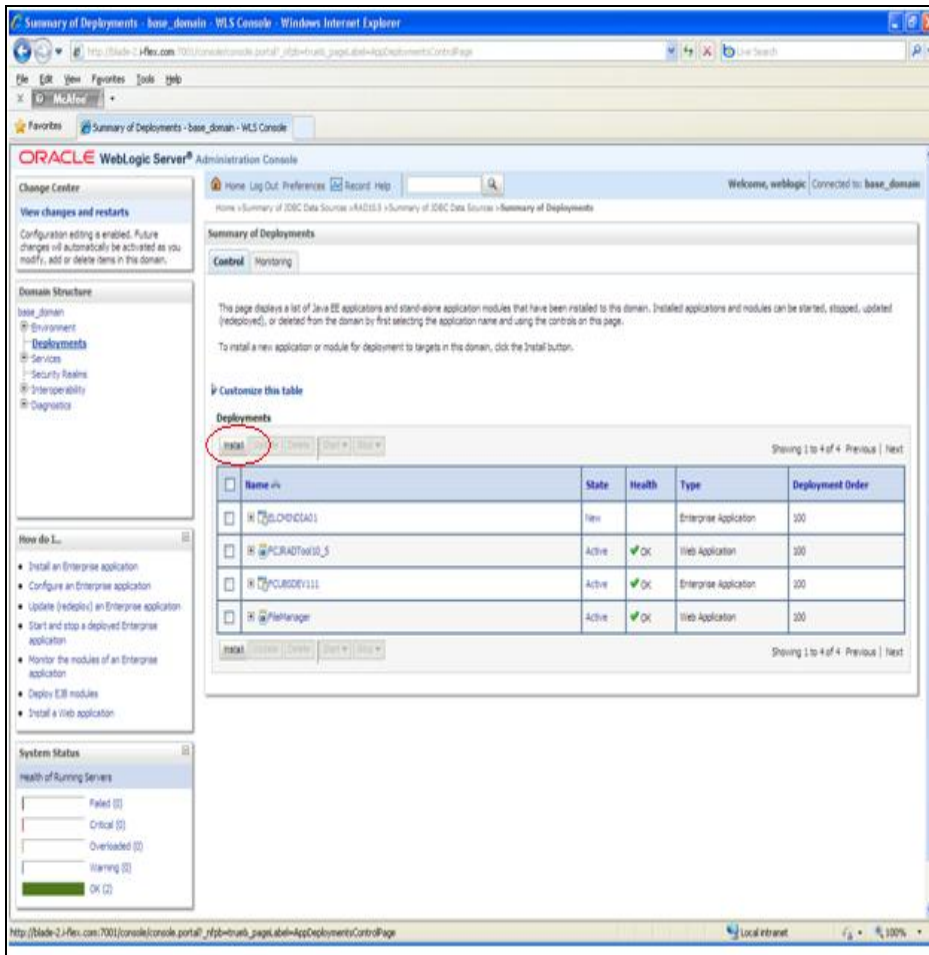
This completes the creation of Datasources. Now to deploy the War file click on Deployments under Domain Structure.

The screenshot displays the Oracle WebLogic Server Administration Console. The left-hand navigation pane shows the 'Domain Structure' tree with 'Deployments' highlighted and circled in red. The main content area is titled 'Summary of JDBC Data Sources' and contains a table of data sources.

Name	JNDI Name	Targets
fcjScheduleDS	jbc/fcjschedJarDS	ManagedServer_1
FCUBS11.1	jbc/fcjb11	ManagedServer_1
HPIC	jbc/fcjb-DS	EOManaged
RAD10.5	jbc/PCODEV	ManagedServer_1
RAD11	jbc/PC11DEV	

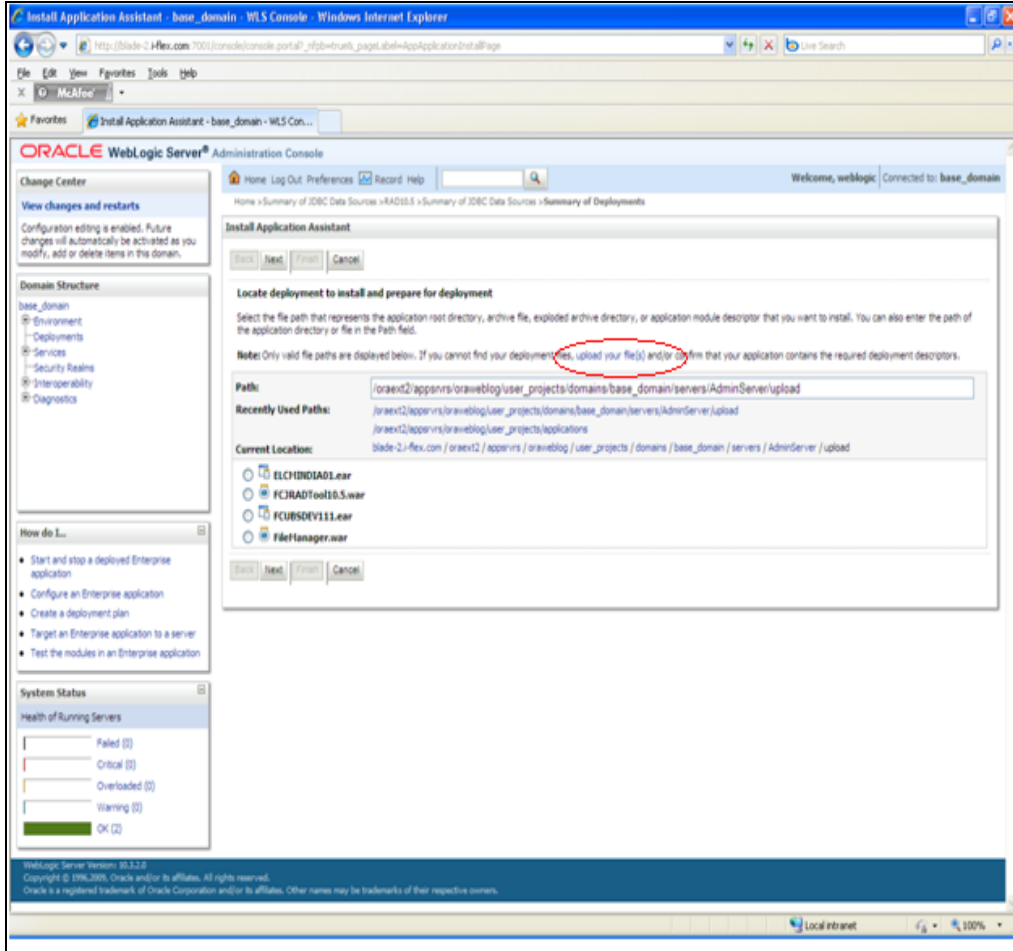
7.3.9 Step 9

To install a new application or module for deployment click the Install button.



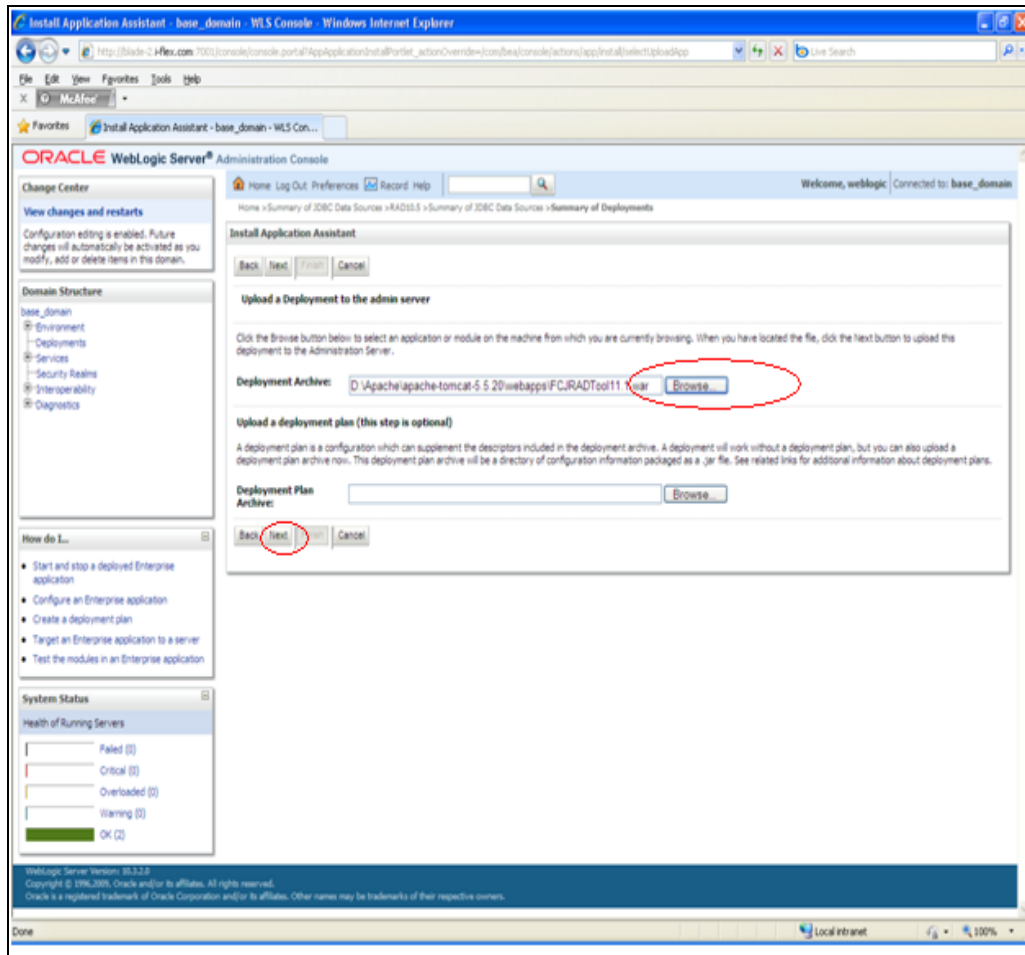
7.3.10 Step 10

The Open Development war file first needs to be uploaded to weblogic local machine. Click on upload your file(s) hyperlink.



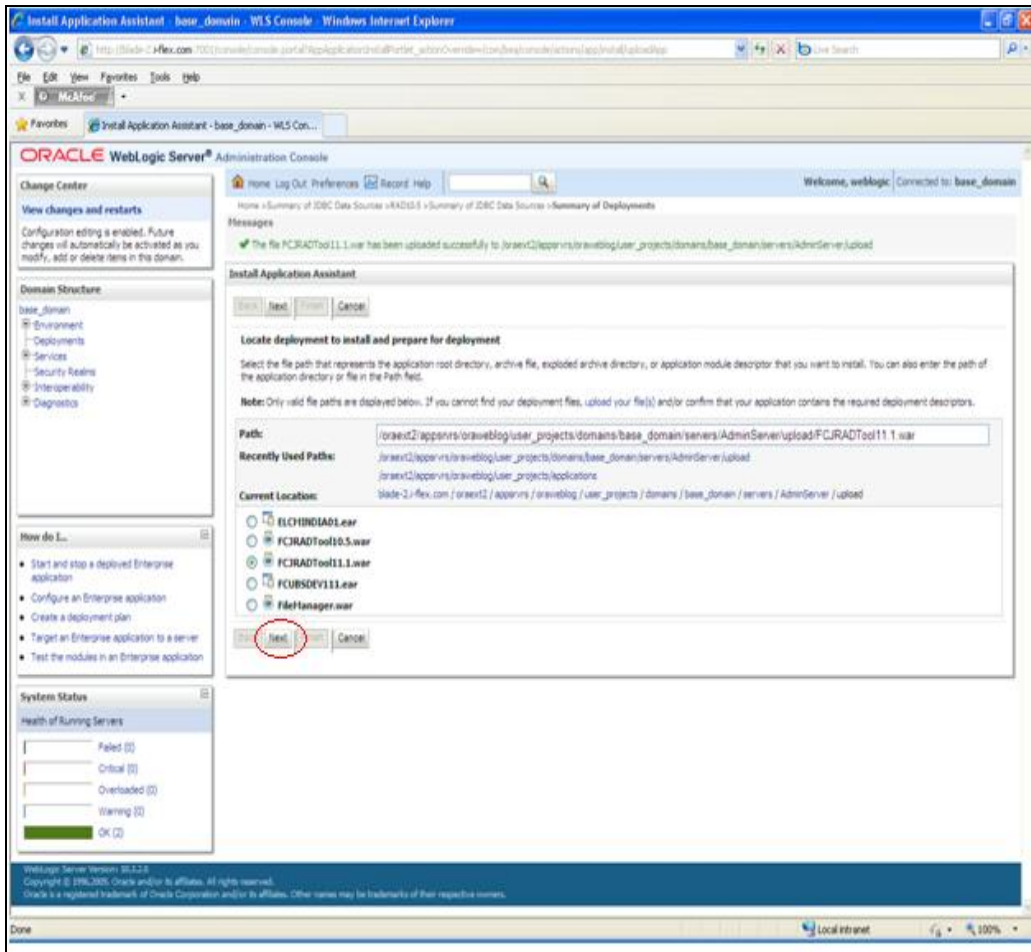
7.3.11 Step 11

Choose the deployment archive by click on Browse Button. Skip the optional step of uploading a deployment plan. Click Next.



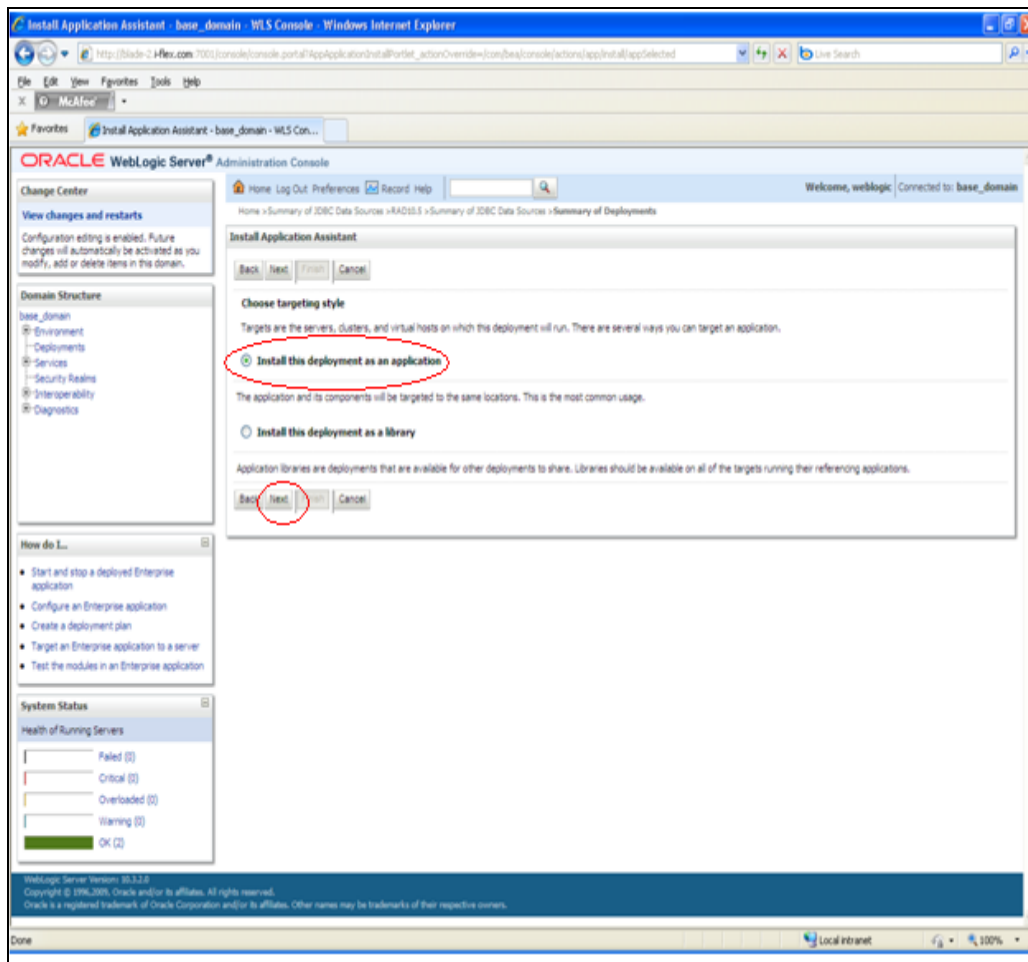
7.3.12 Step 12

Click Next



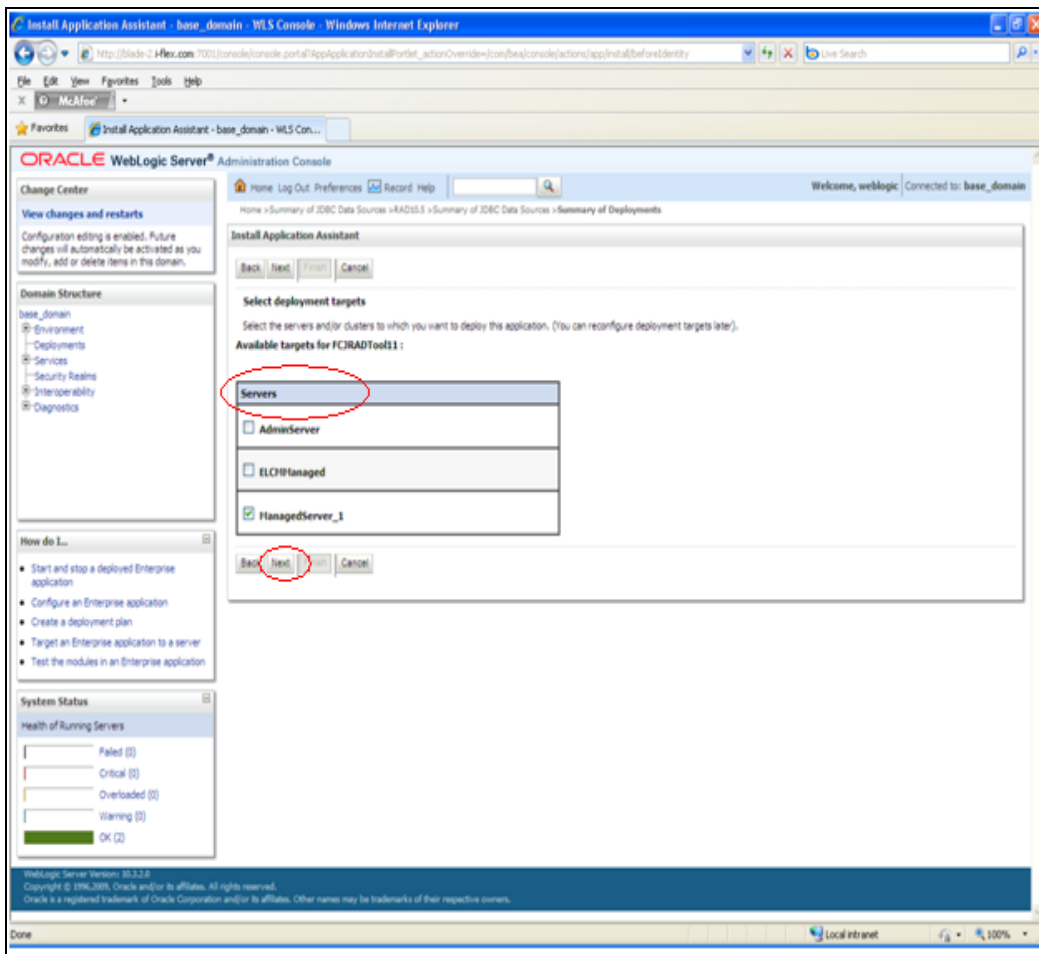
7.3.13 Step 13

Choose the option Install the deployment as an application and Click on Next.



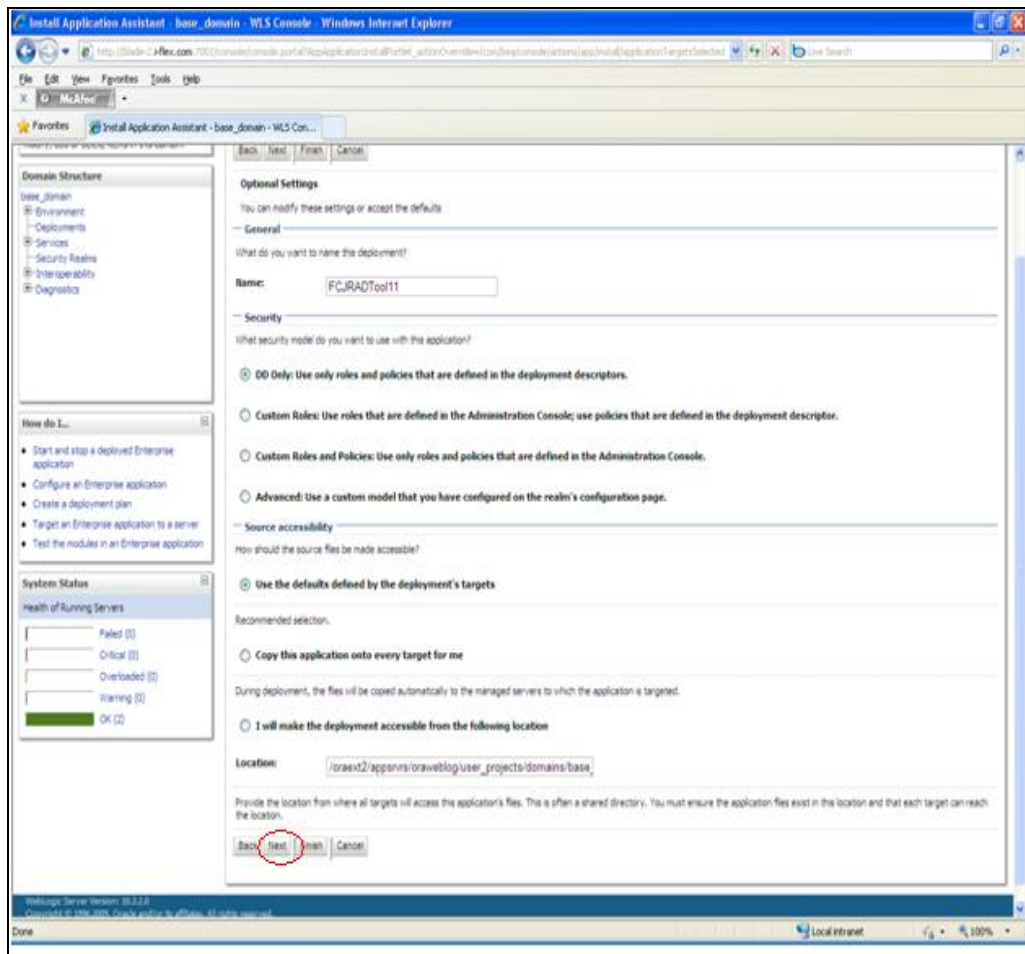
7.3.14 Step 14

Choose the target server where the deployment will be located and Click on Next.



7.3.15 Step 15

Click Next.



7.3.16 Step 16

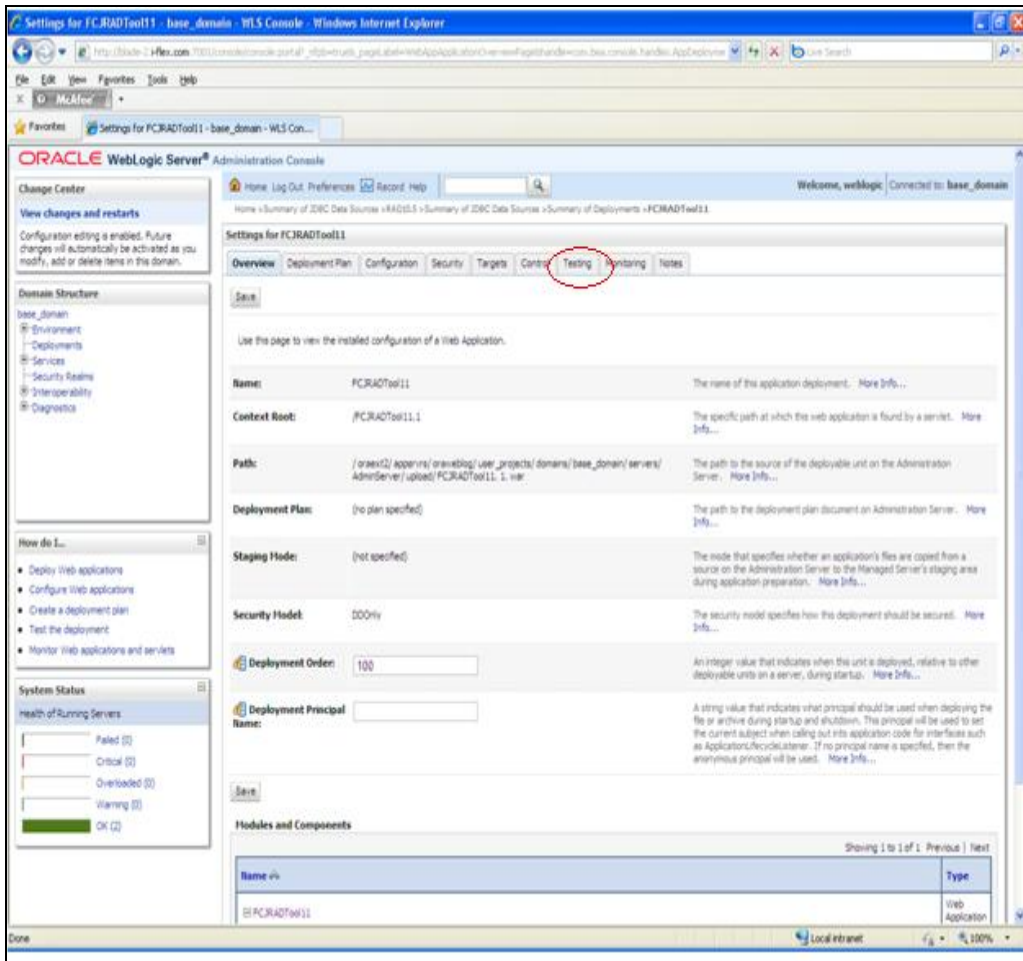
This completes the deployment of War File. The Open Development Deployment will now be seen under the list of Deployments. Click on the Hyperlink marked in Red.

The screenshot shows the Oracle WebLogic Server Administration Console interface. The main content area displays the 'Summary of Deployments' page. A table lists the deployed applications with columns for Name, State, Health, Type, and Deployment Order. The entry 'PCRAJTool1' is circled in red. The table also includes a 'PCRAJTool1_5' entry. The interface includes a left-hand navigation pane with 'Deployments' selected, and a top navigation bar with 'Home', 'Log Out', 'Preferences', 'Record', and 'Help' options.

Name	State	Health	Type	Deployment Order
PCCHORICIA1	New		Enterprise Application	200
PCRAJTool1_5	Active	OK	Web Application	200
PCRAJTool1	Active	OK	Web Application	200
PCUSDEV111	Active	OK	Enterprise Application	200
FileManager	Active	OK	Web Application	200

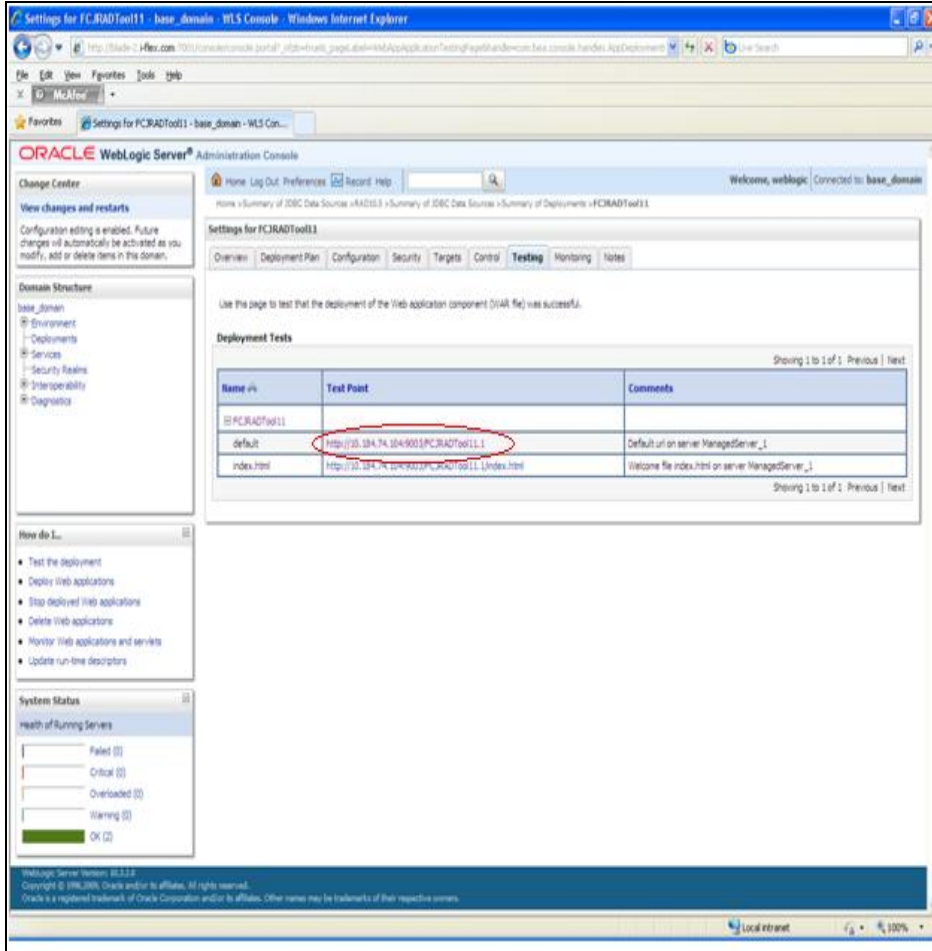
7.3.17 Step 17

Go to the Testing Tab.



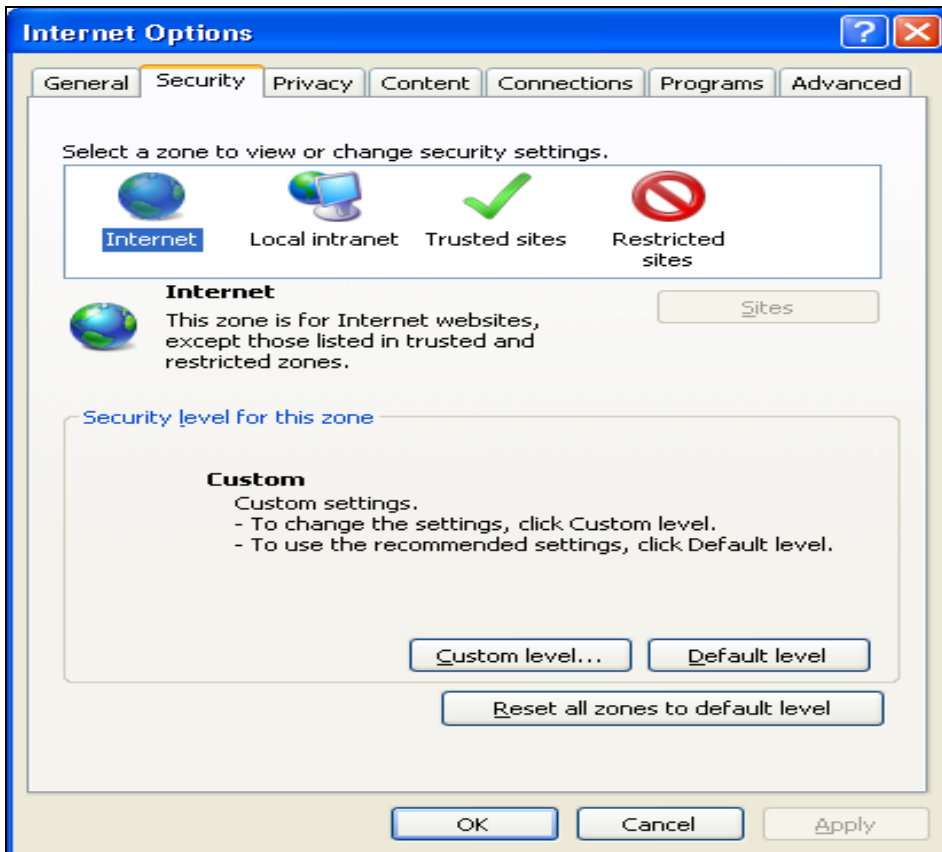
7.3.18 Step 18

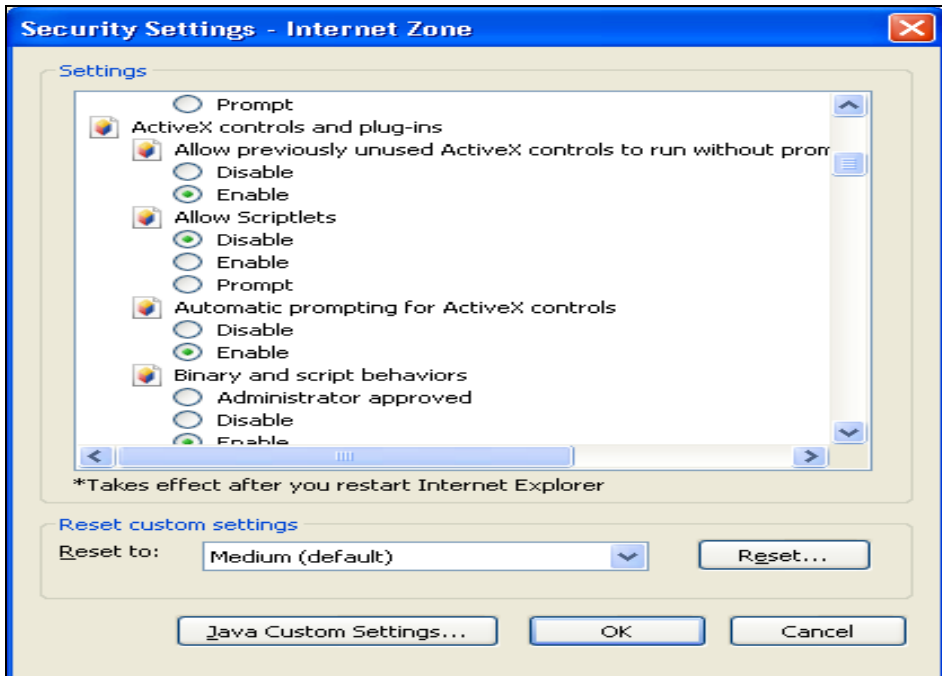
The Deployment of Open Development on Weblogic Server has been finished and you may launch the application by the link mentioned below.



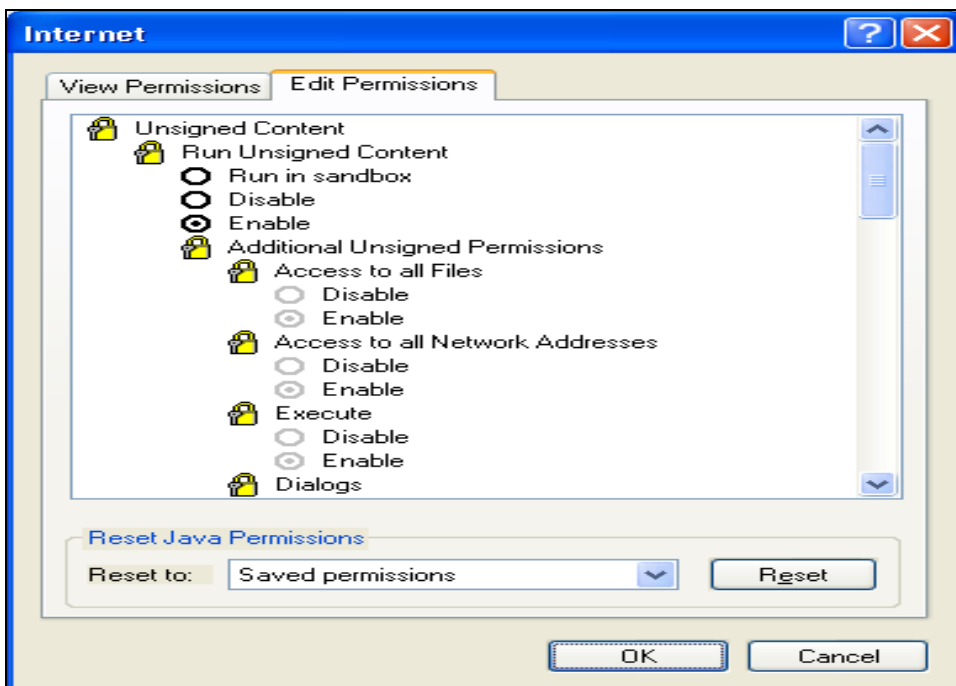
8. IE Settings

- Open Internet Explorer click on Tools → Internet Options → Security (Tab) → Internet → Custom Level





- Enable all the Options, select custom for Java Permissions
- Click on Java Custom Settings



- Select Edit Permissions Tab.
- Select Enable Option for Run Unsigned Content and Run Signed Content.
- Same Settings For Local Intranet



Click on Custom Level select Enable for all Options, for Java Permissions it should be custom.

9. Administration

9.1 User Roles

Open Development Tool has the below User Roles for controlling the access rights:

- System Administrator
- Release Administrator
- Developer

Users will be allowed to perform various tasks based on the “Role” assigned to the user. Users can have different Roles for different Releases. However, System Administrator Role is not at a Release Level and is only for Open Development Tool Administration.

9.1.1 System Administrator

This Role is only meant for the Open Development Team and Users with this Role will have full control over the system. Users with this Role only would be able to create New Releases in Open Development Tool.

Login Open Development tool with RADTOOL as user Name and RADTOOL as Password

9.1.2 Release Administrator

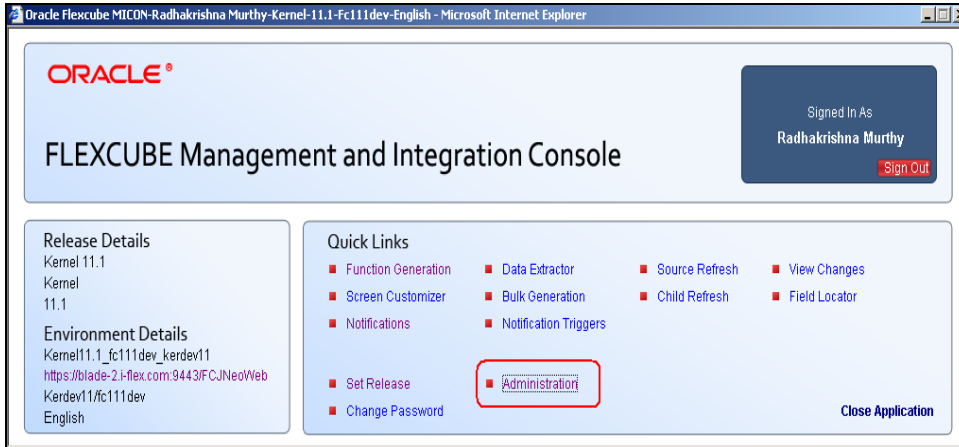
This Role is meant for Project Leaders and Team leaders and allows them to Release administration. Users with this role would be allowed to perform the below tasks

- Creation of Environment(s) for the Release
- Creation of users
- Provide access to the Release for required Users

9.1.3 Developer

This Role is for Developers and Users with role would be able to access the Function development related features of the Open Development tool.

User will also be able to Switch Between releases and Environments Using the “Set Release” Option.



9.2 Release Definition

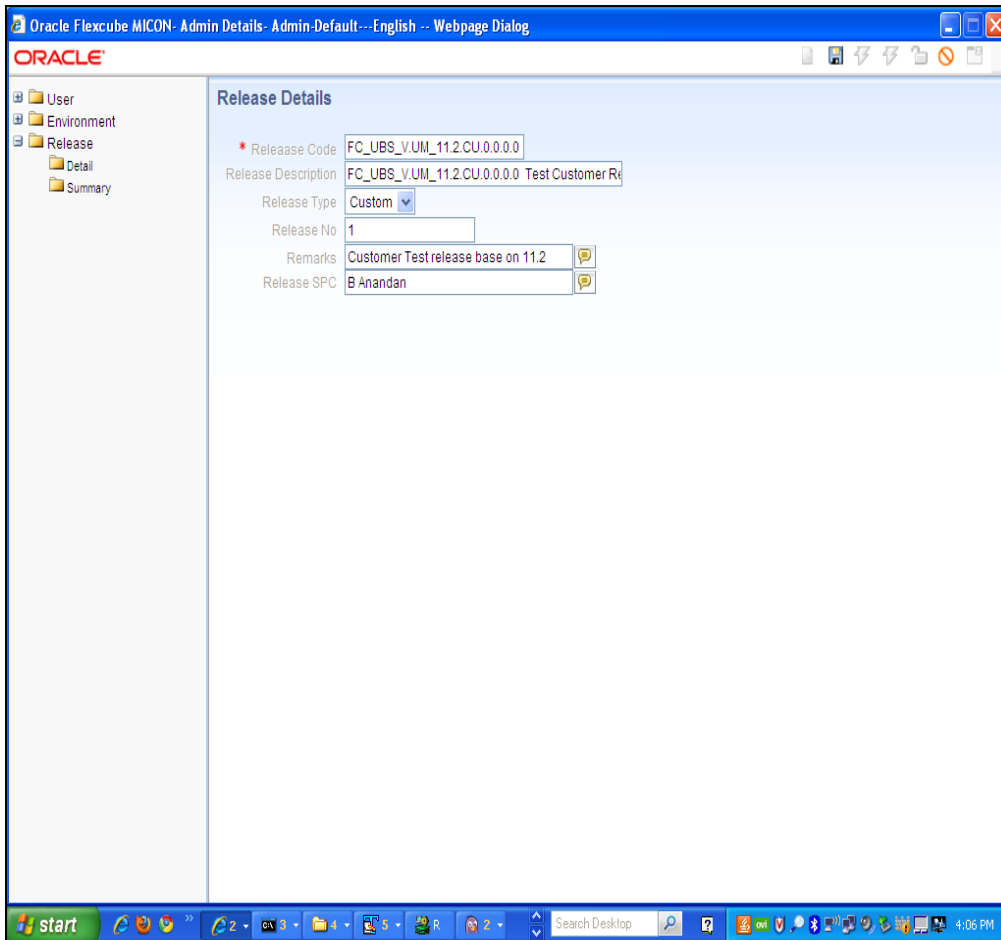
Every Release needs to be maintained in Open Development Tool. Below details need to be maintained in Open Development Tool before starting any New Release

- Release Code : A unique Code which would identify the release E.g. FCUBSKERNEL11.1
- Release Description : Brief Description of the Release
- Release Type : Kernel/Cluster/Custom

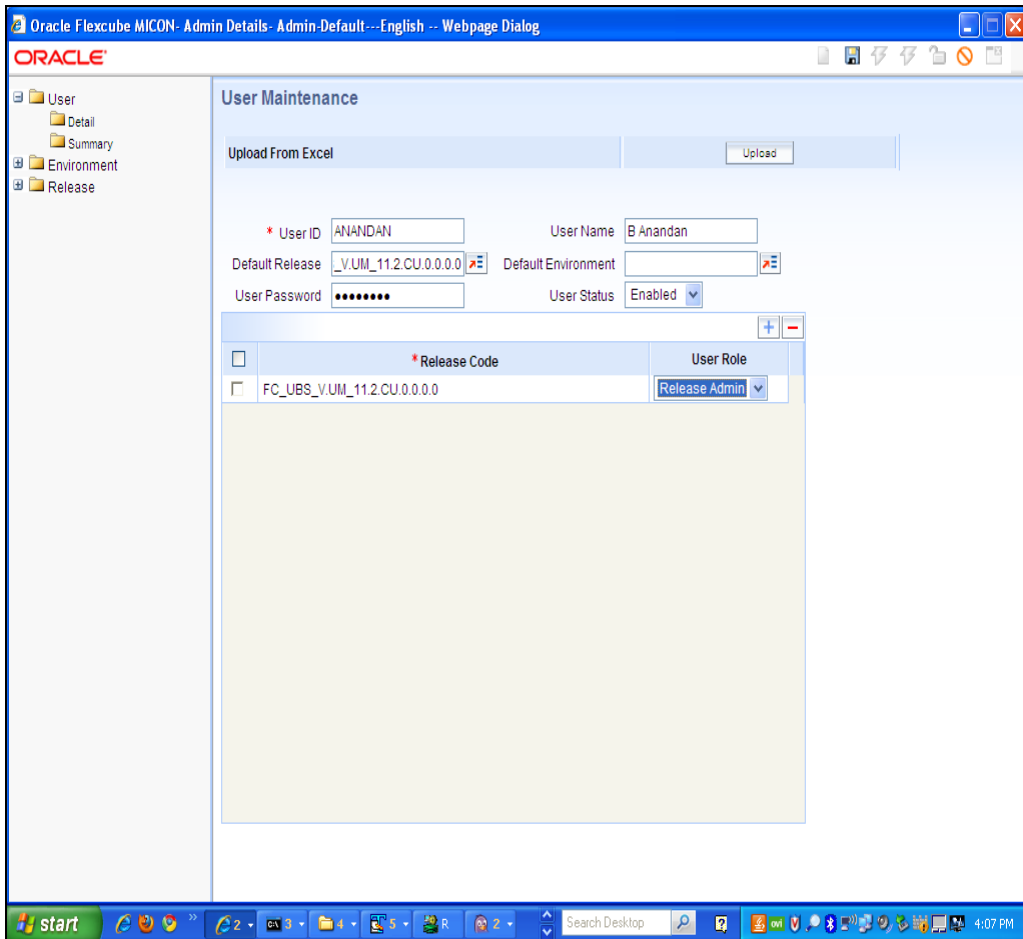


Create the Release with Custom type for extensibility environment

- Release Number: Release Number e.g. .11.1
- A release can have multiple environments for various activities like Development, Unit Testing, and Support etc.
- Release Creation can only be done by Open Development Team and a request with the above details needs to be sent to the Open Development Team in the beginning of every Release. Open Development team would create a release and grants “Release Administrator” Role to the Requester. Release administrator then can provide access to this Particular release for the developers.
- Release administrator will be able to create Environment(s) for this Release. Release administrator can also create New Users if required and can provide them the access to this Release.



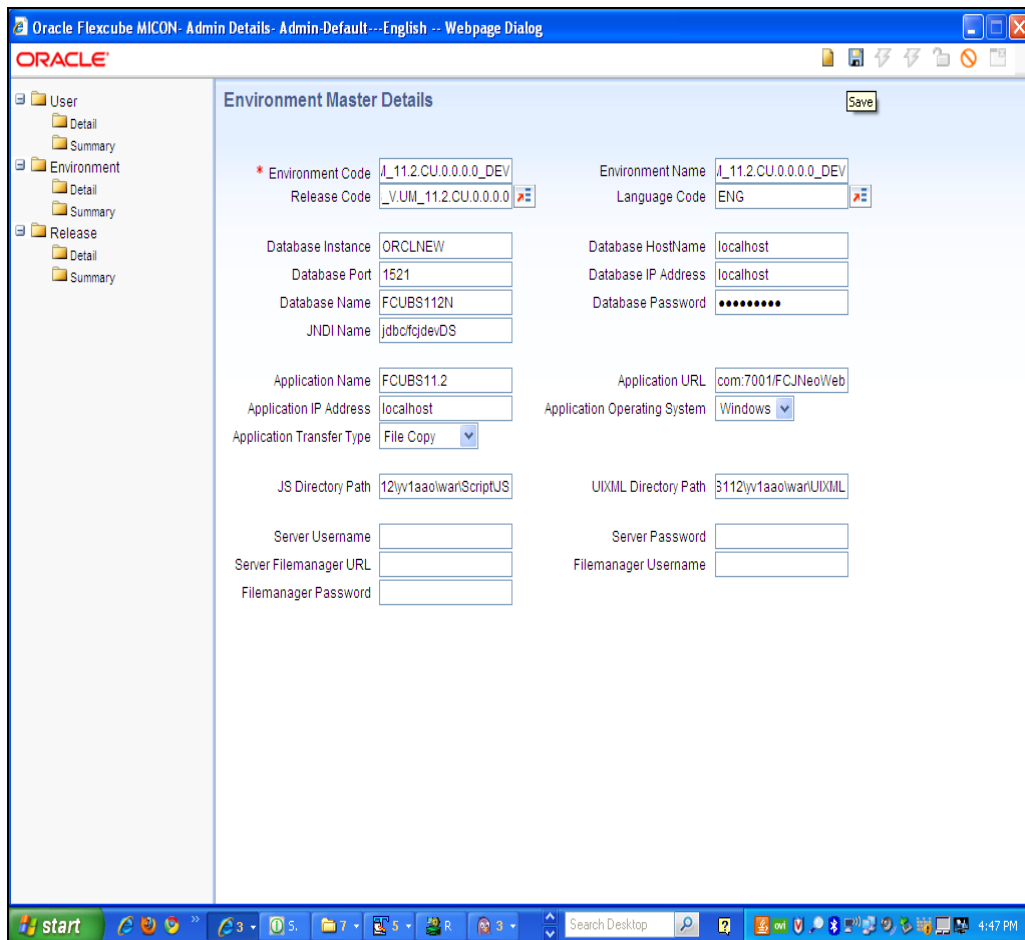
Create the User and assign Release Admin role for a release that created



9.3 Environment Creation

Open Development Tool requires at least one environment for each release and the below environment details need to be maintained in Open Development Tool for each environment

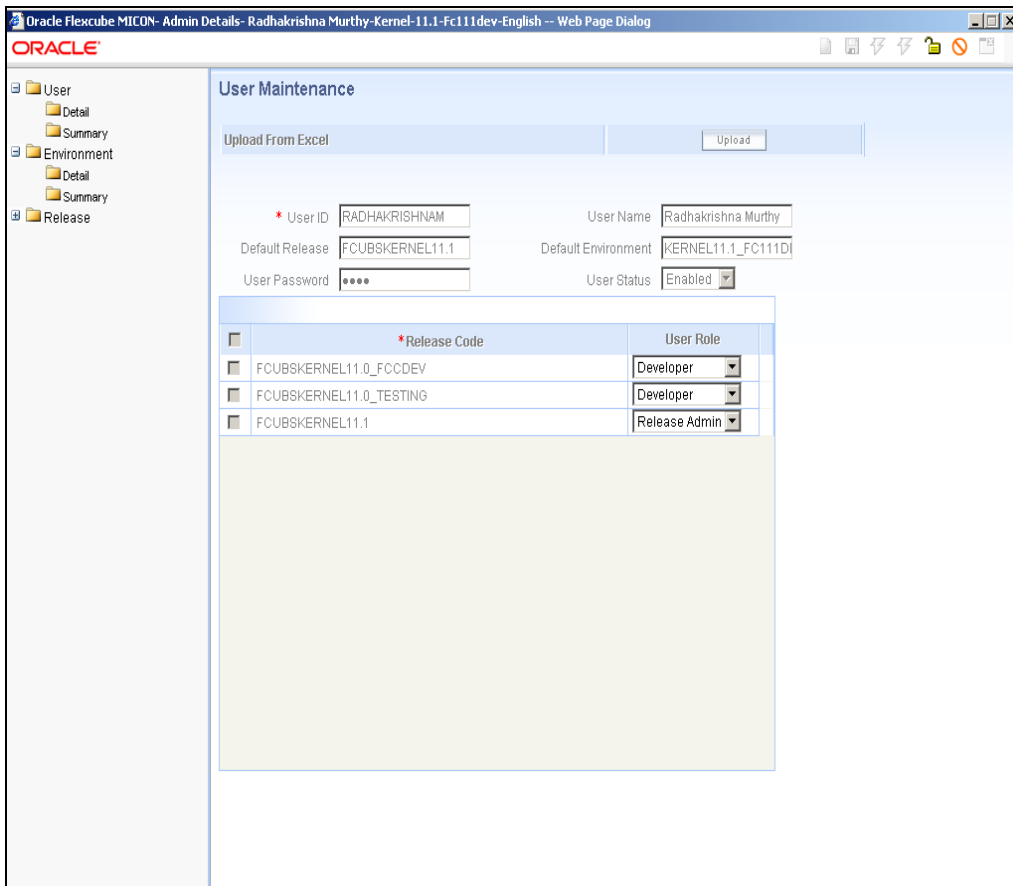
- Data Base Details
 - Instance Name
 - Port Number
 - Schema Name
 - Password
- Application Server Details
 - Target FLEXCUBE IS Application URL
 - Target FLEXCUBE IS JS Path
 - Target FLEXCUBE IS UIXML Path
- Server Password and user id in case the App server is on Unix



9.3.1 User Definition

New users can be created by System Administrators and Release administrators.

- User Id
- Password
- Default Release
- Default Environment
- User Releases
 - Releases for which the user needs access should be given here
 - One user can have access to multiple Release with one of those Release as the default release
 - User Role for each of these Releases.



10. Developer Check List

As Open Development tool identifies the Release parameters and accordingly generates the output, it is important to ensure the correct release before using the Tool.

Open Development Tool also reads several tables from FLEXCUBE schema, Developers should ensure the correctness of the environment they are currently connected to.

The Landing page of Open Development Tool has both Release details and environment details as shown below

The screenshot displays the Oracle Flexcube Management and Integration Console interface. The page title is "FLEXCUBE Management and Integration Console" and the user is signed in as "Radhakrishna Murthy". The interface is divided into several sections:

- Release Details:** Shows "Kernel 11.1" with labels for "Release Name", "Release Type (Kernel/Cluster/Custom)", and "Release Number".
- Environment Details:** Shows "Kernel 11.1 Development" with labels for "Environment Description", "Application URL", "Schema", and "User Language".
- Quick Links:** A grid of links including "Function Generator", "Data Extractor", "Source Refresh", "View Changes", "Screen Customizer", "Bulk Generation", "Child Refresh", "Field Locator", "Notifications", "Notification Triggers", "Administration", and "Change Password".
- Sign Out:** A button labeled "Sign Out" is located in the top right corner.
- Close Application:** A button labeled "Close Application" is located in the bottom right corner.



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