

Installation and Setup Guide  
Oracle FLEXCUBE Investor Servicing  
Release 14.1.0.0.0  
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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

|                                                                                     |                                                                                                                                                                   |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>boldface</b>                                                                     | 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"](#)

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## 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 Msxml:

Msxml 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\\_111060.html](http://www.oracle.com/technology/software/tech/java/sqlj_jdbc/htdocs/jdbc_111060.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

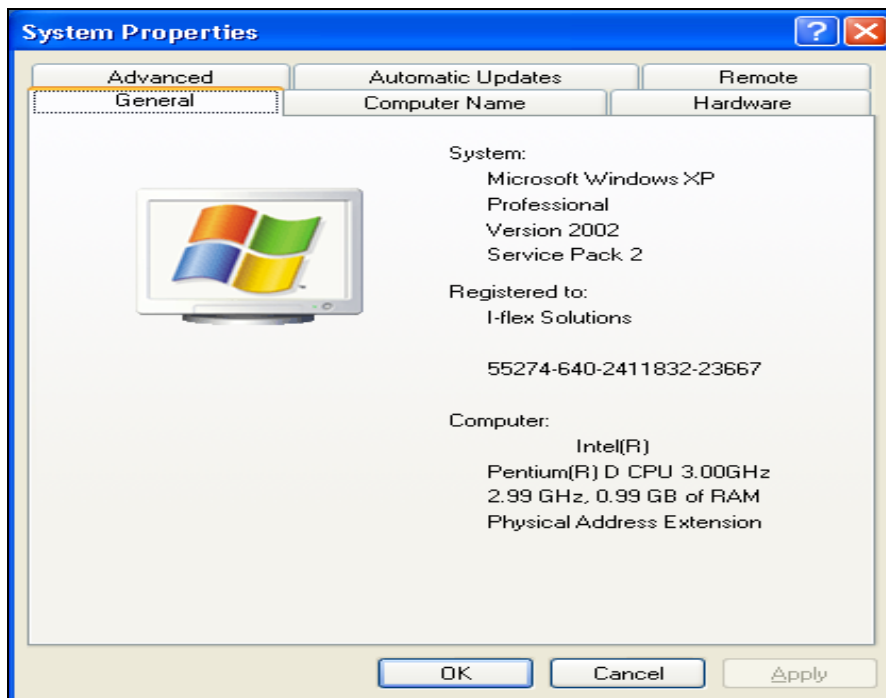
## 3.9 Setup for installer Open Development Applications

### 3.9.1 Step1

Navigate to Control Panel

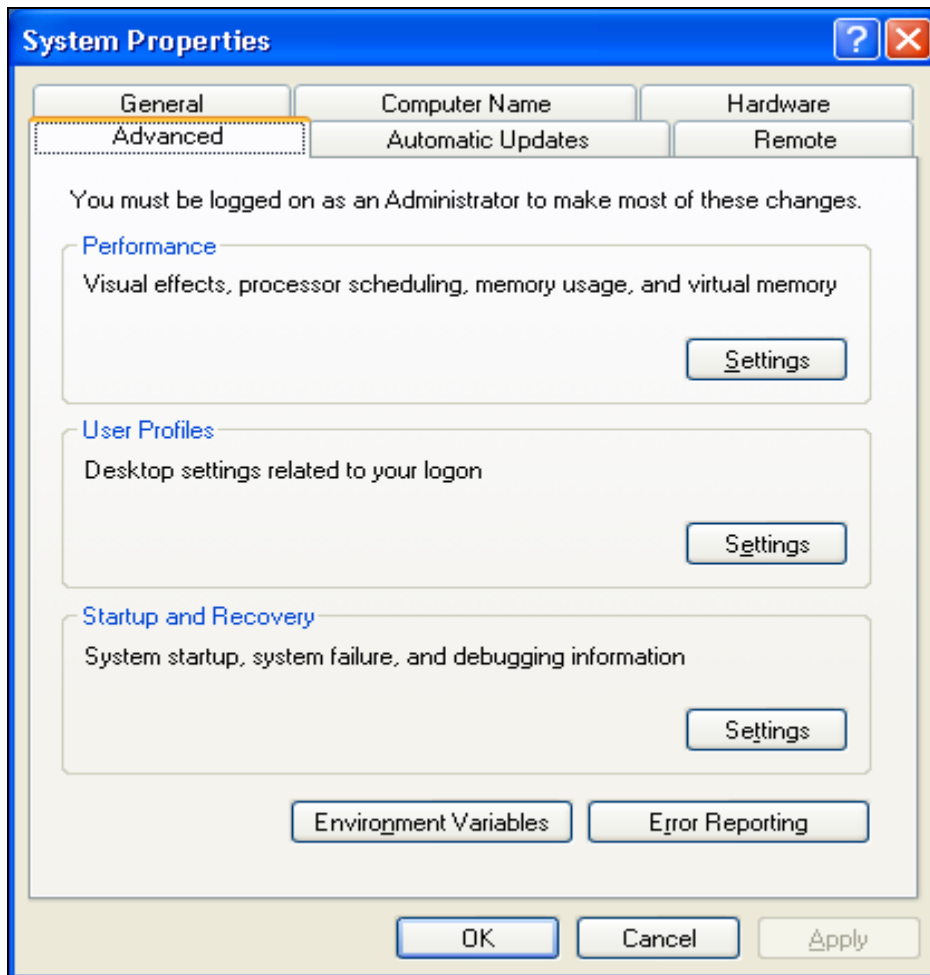
### 3.9.2 Step2

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



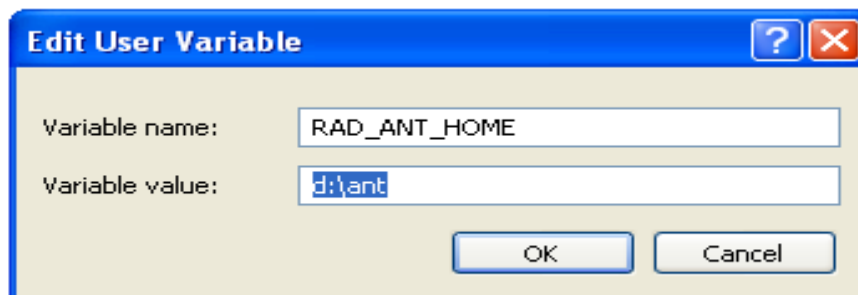
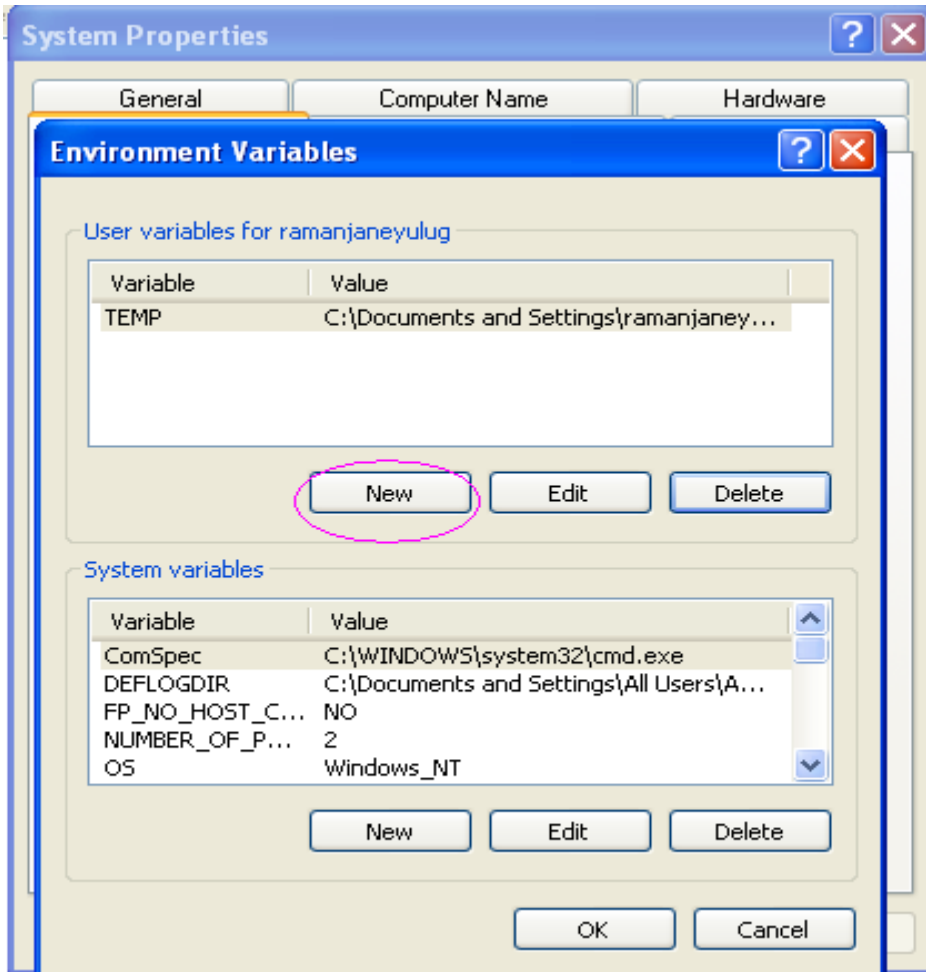
### 3.9.3 Step 3

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



### 3.9.4 Step 4

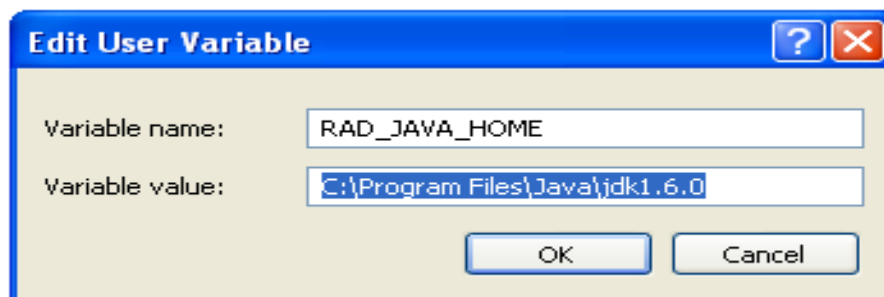
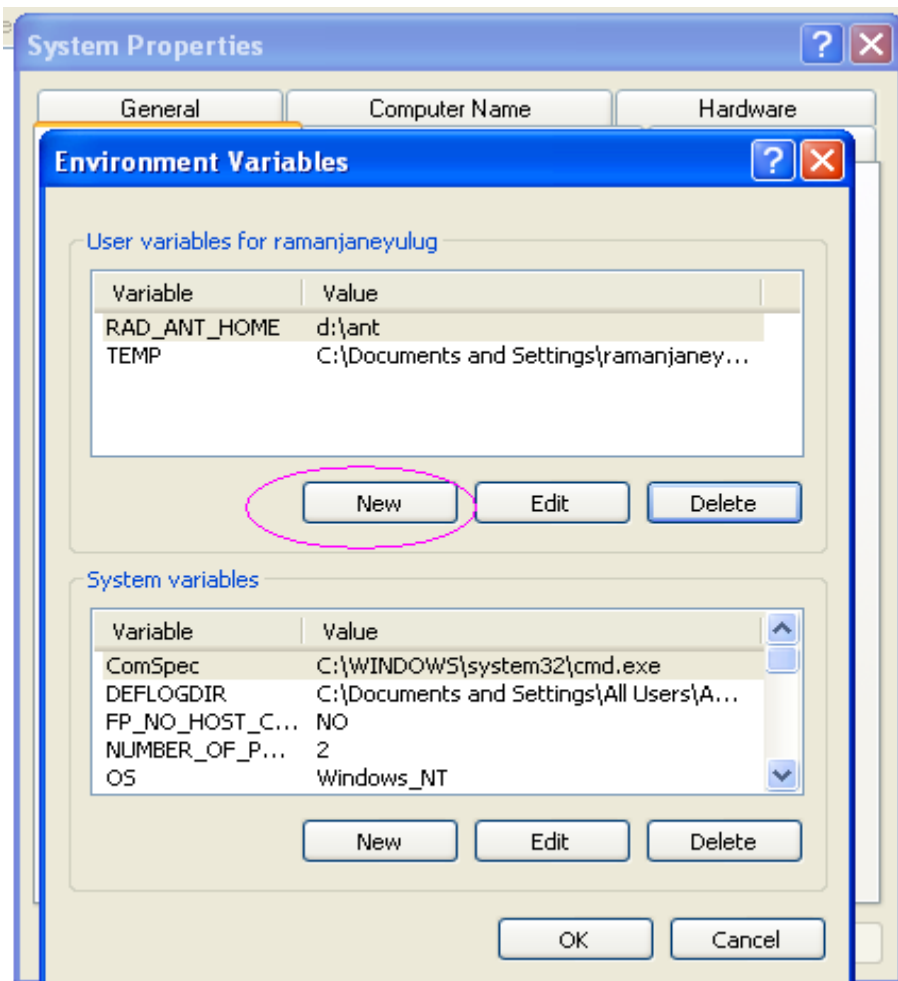
In User variables click New and in Variable name type **RAD\_ANT\_HOME**. In the value field give the path of Apache Ant root directory as shown below.



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

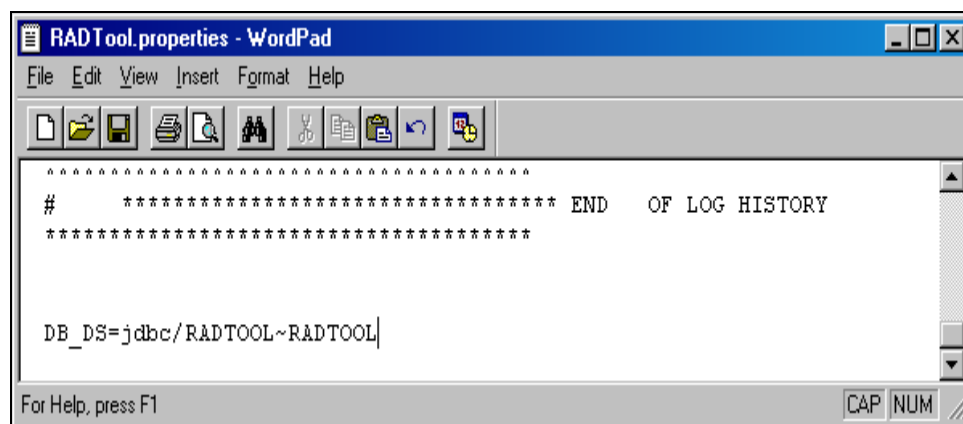
Copy all the contents from [\\IFLBLW-BPD-12\Vercon\\_IP-BPD-01\SOFT\FLEXCUBE Kernel\FC\\_IS\\_V.UM 11.1.0.0.0.0\TOOLS\RAD\SOURCE\](#)

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](\\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.

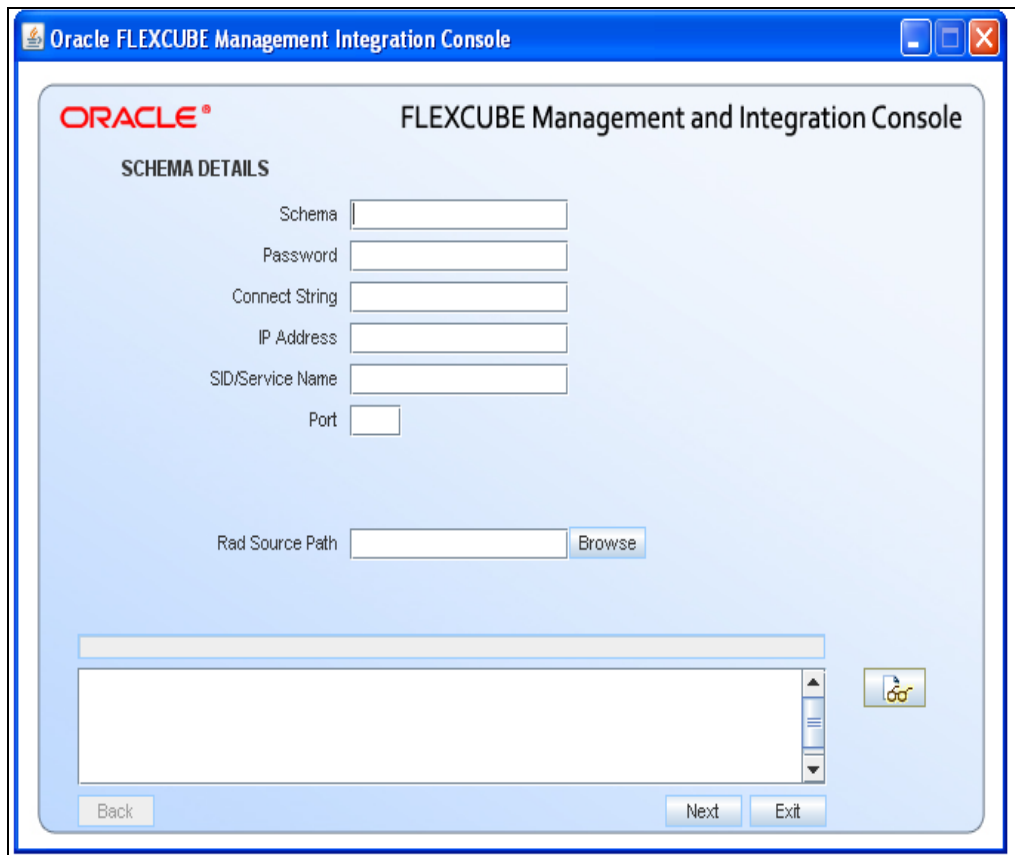
The screen shot below shows how the source folder in your local system should look like.

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

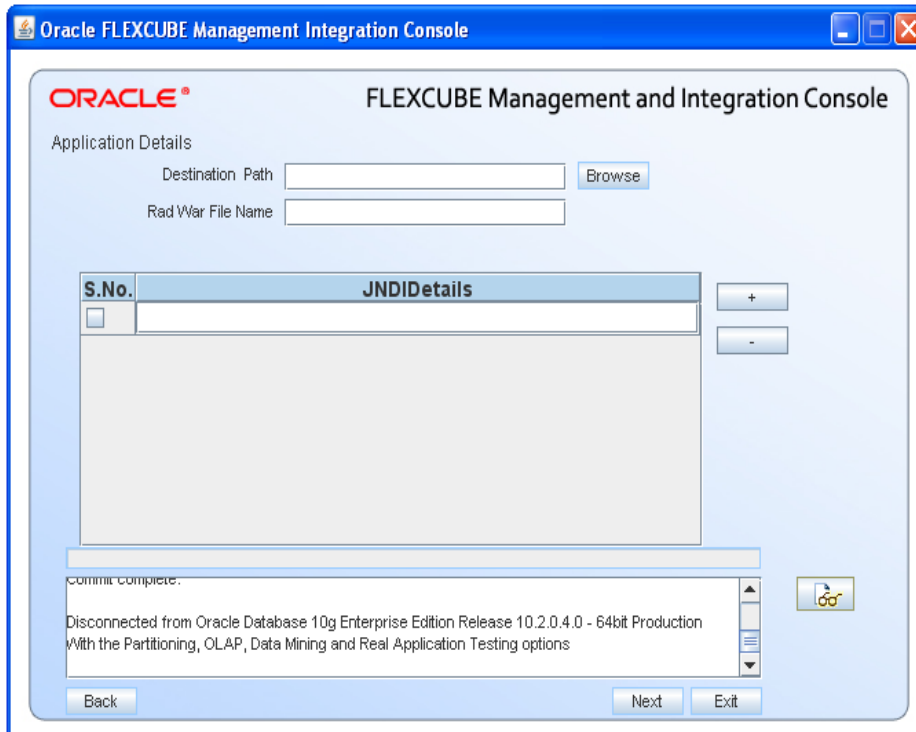


**RADInstaller11.1.bat**

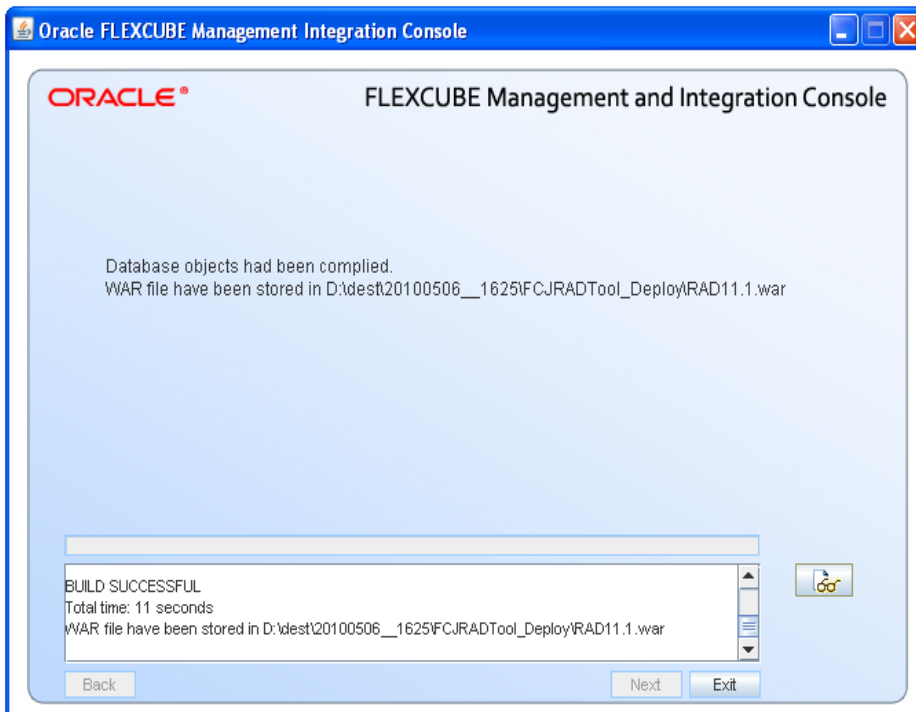
This displays the screen as follows.



The screenshot shows a Windows application window titled "Oracle FLEXCUBE Management Integration Console". The window has a blue title bar and standard Windows window controls (minimize, maximize, close). The main content area has a light blue background. At the top left is the "ORACLE" logo. To its right is the text "FLEXCUBE Management and Integration Console". Below this, the section "SCHEMA DETAILS" is displayed. It contains 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 next to it. At the bottom of the window, there are three buttons: "Back", "Next", and "Exit". A small icon of a document with a magnifying glass is visible on the right side 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.

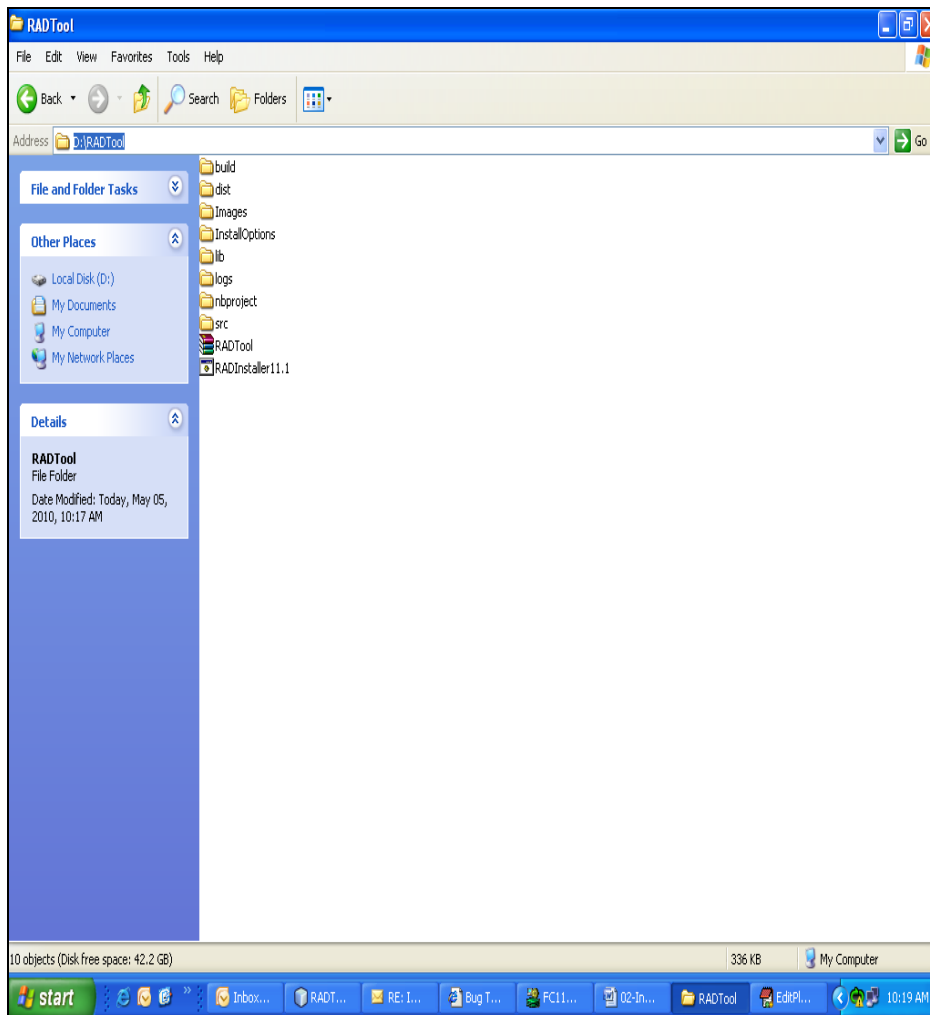
---

## 6. Troubleshooting

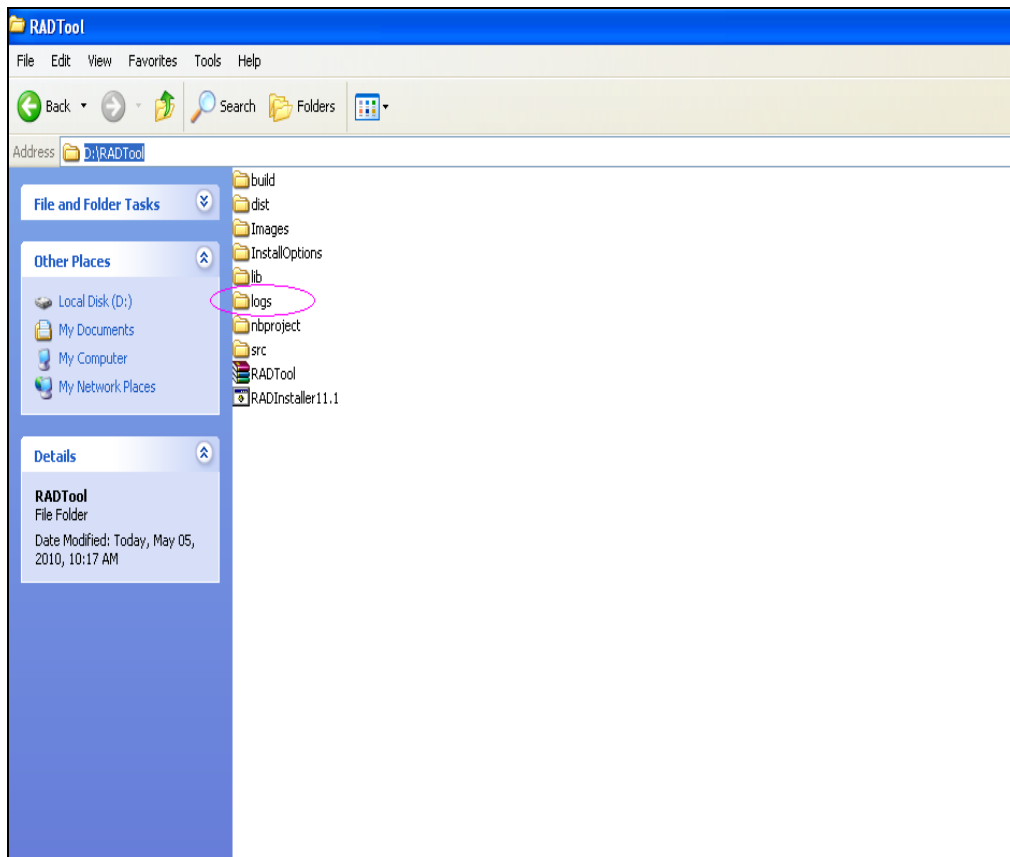
### 6.1 Checking Logs

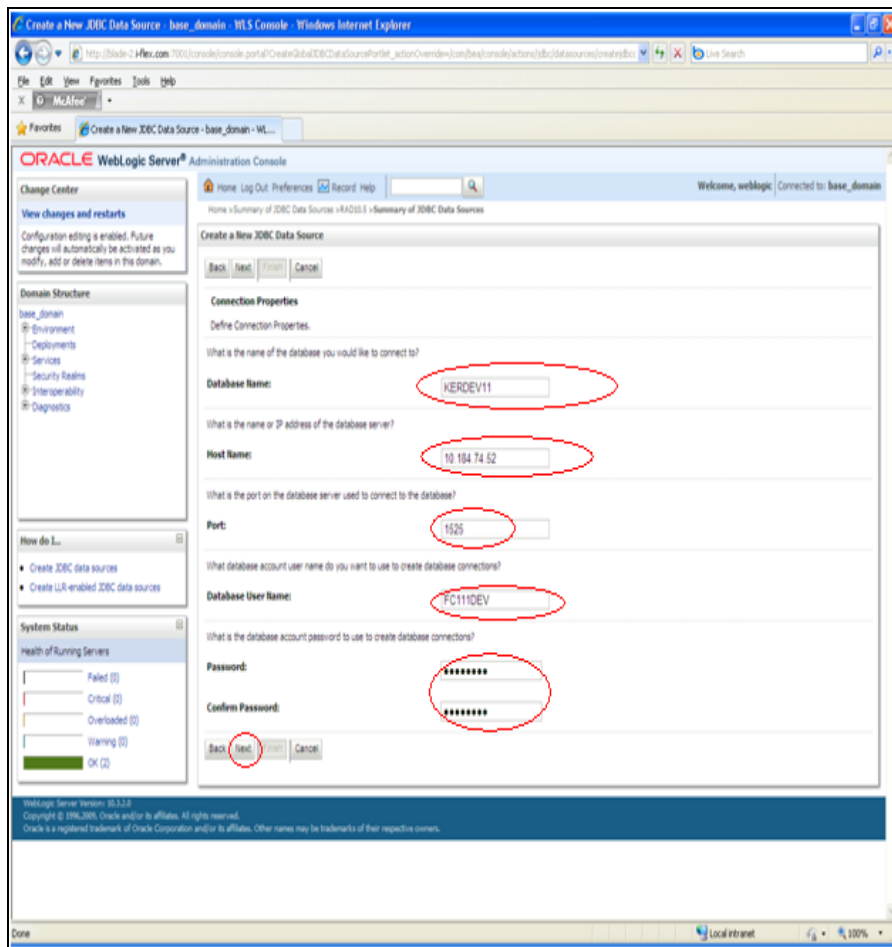
In case an error occurs while doing a particular Open Development activity and the user wants to know the exception, he can look at the log file which contains detailed information about executed and the type of error thrown if any.

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

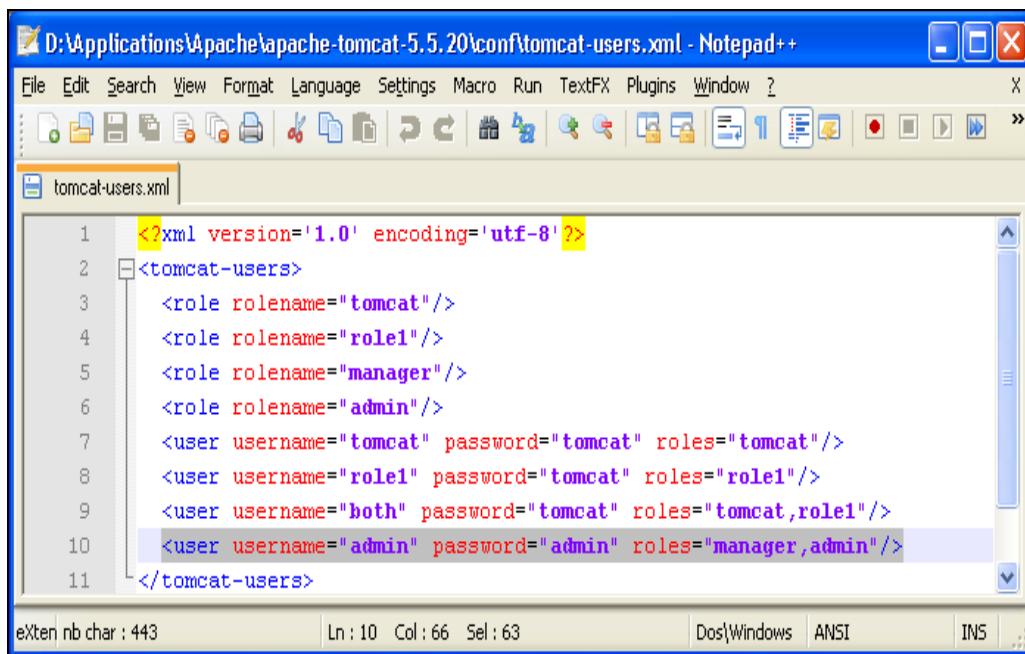
To deploy **FCJRADTool.war** to Apache Tomcat 5.5 Server follow the below mentioned steps

#### 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.

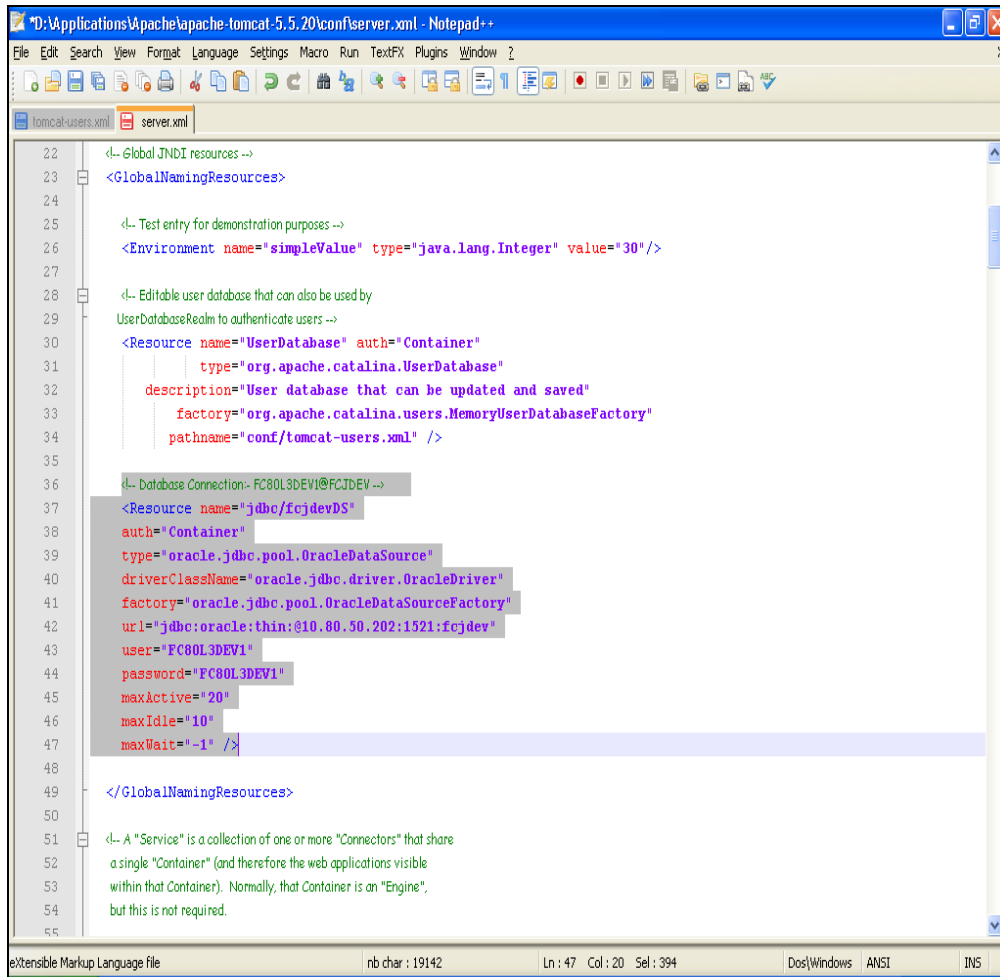


```
1  <?xml version='1.0' encoding='utf-8' ?>
2  <tomcat-users>
3      <role rolename="tomcat"/>
4      <role rolename="role1"/>
5      <role rolename="manager"/>
6      <role rolename="admin"/>
7      <user username="tomcat" password="tomcat" roles="tomcat"/>
8      <user username="role1" password="tomcat"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

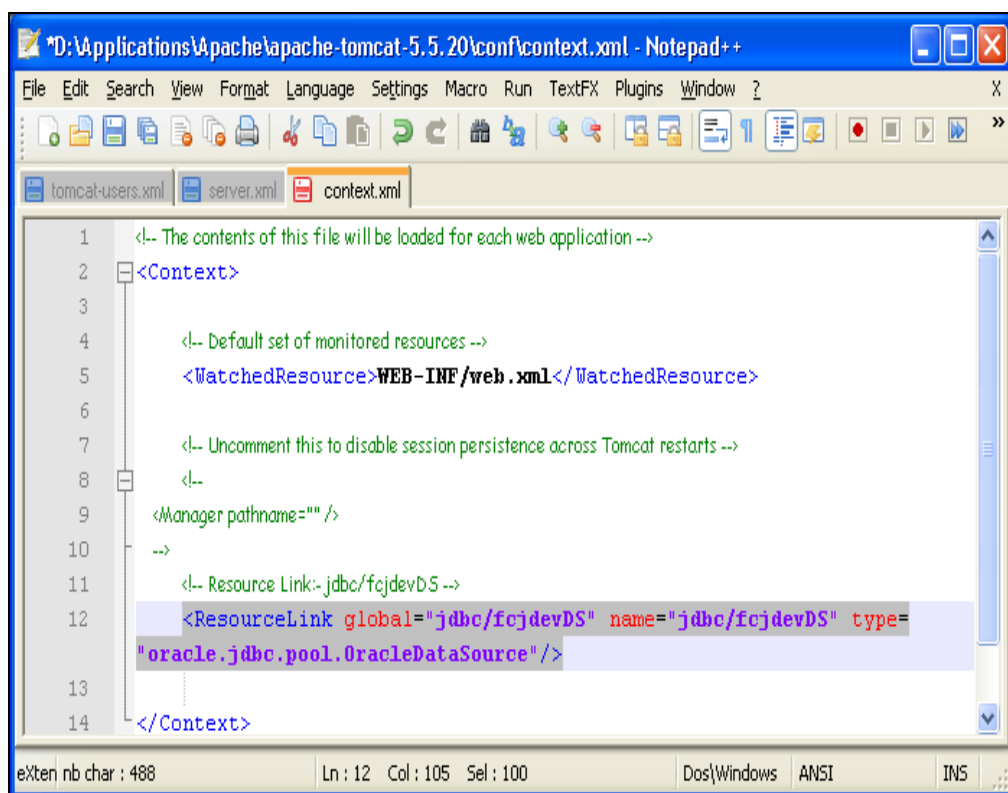


```
22 <!-- Global JNDI resources -->
23 <GlobalNamingResources>
24
25 <!-- Test entry for demonstration purposes -->
26 <Environment name="simpleValue" type="java.lang.Integer" value="30"/>
27
28 <!-- Editable user database that can also be used by
29 UserDatabaseRealm to authenticate users -->
30 <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:fcjddev"
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>
```

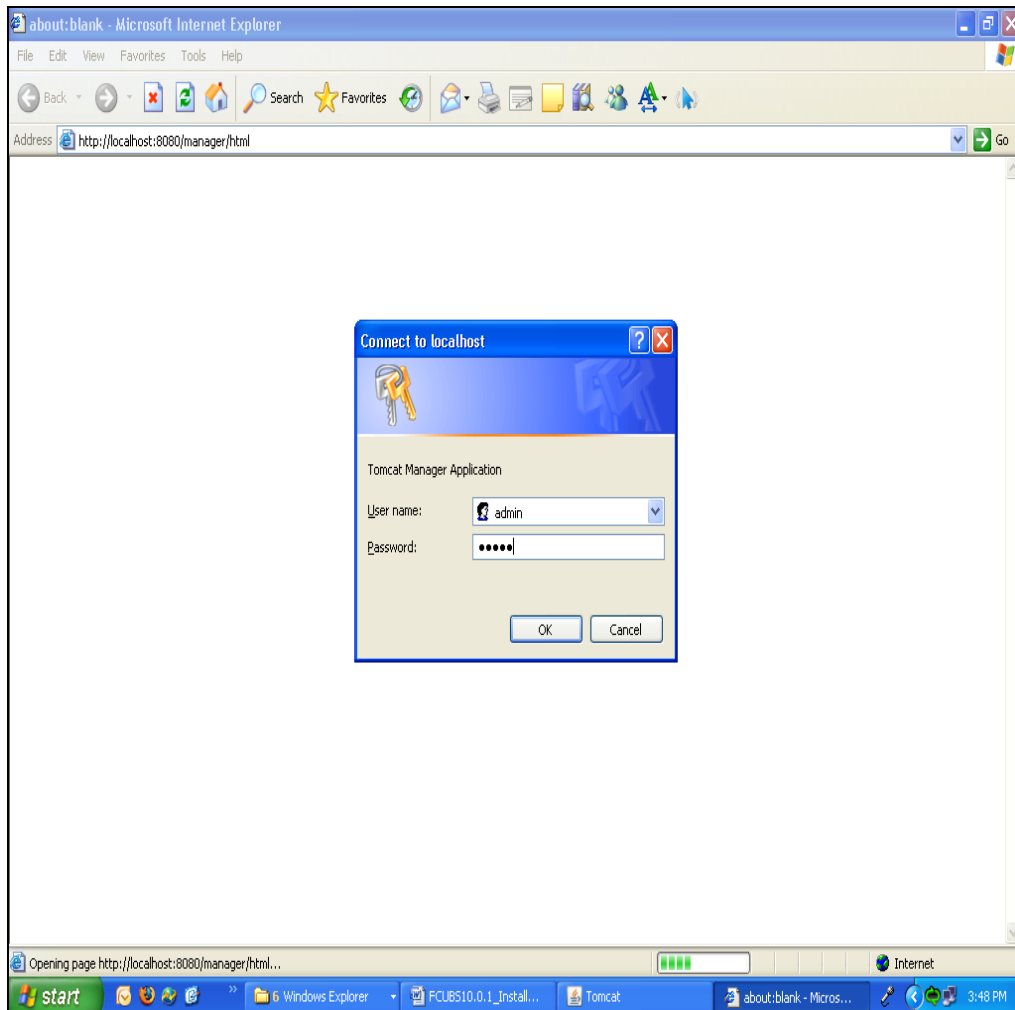
#### 7.1.4 Step 4

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

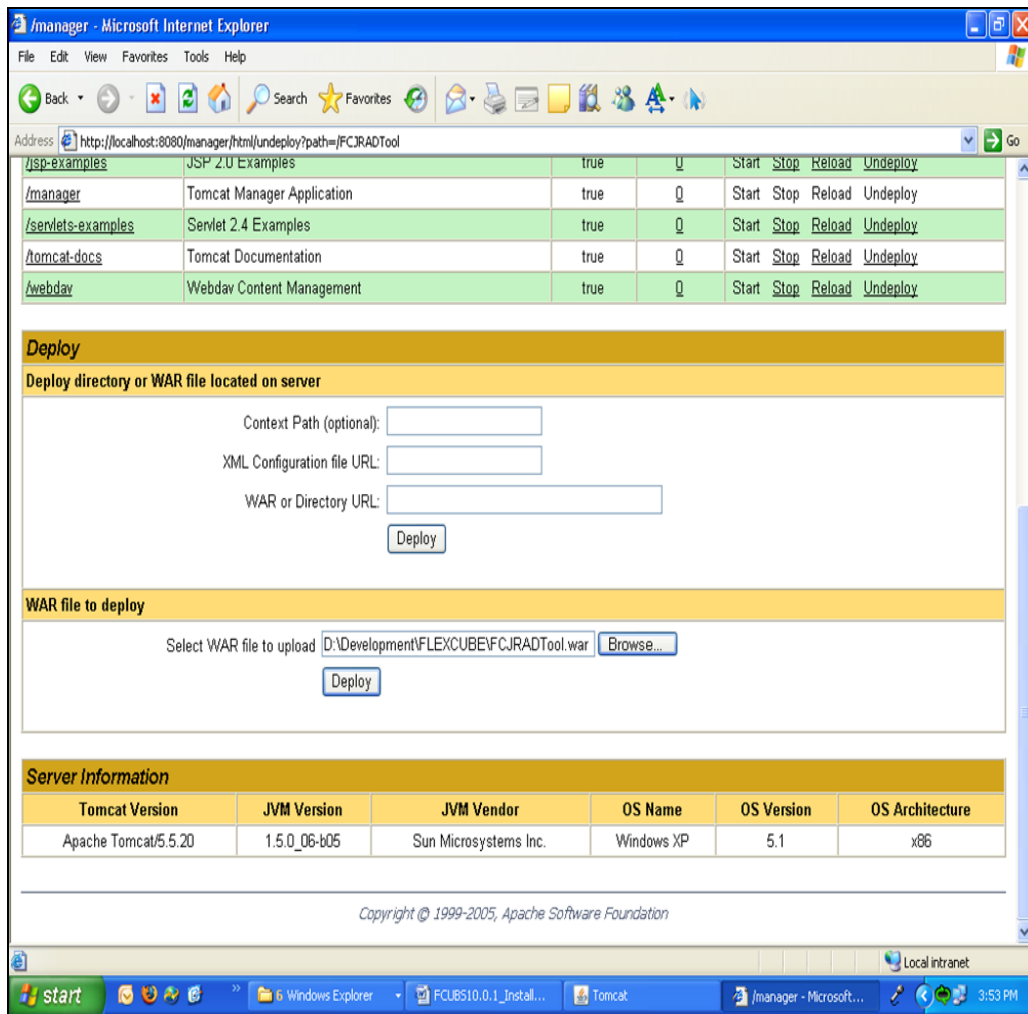
Launch Internet Explorer with URL Error! Hyperlink reference not valid.

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**.



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

RADTool 11.1 Application can be launched with the URL.

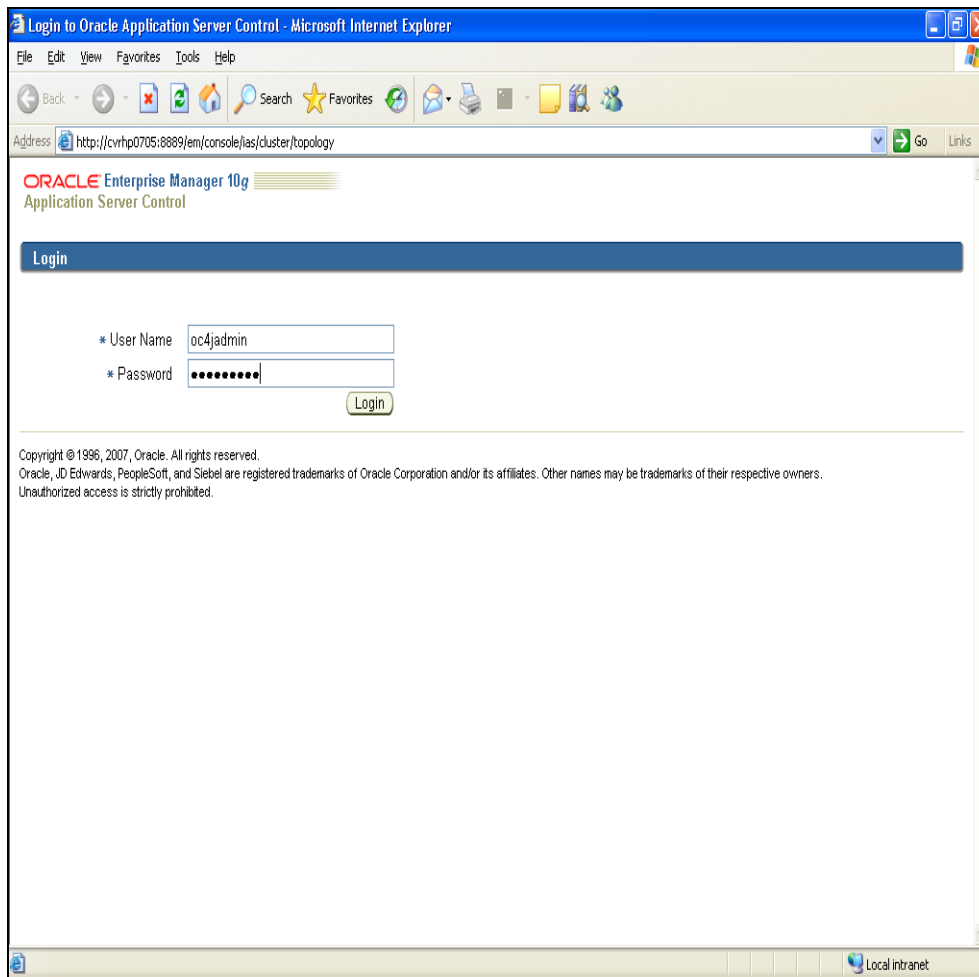
## 7.2 OC4J Application server

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.

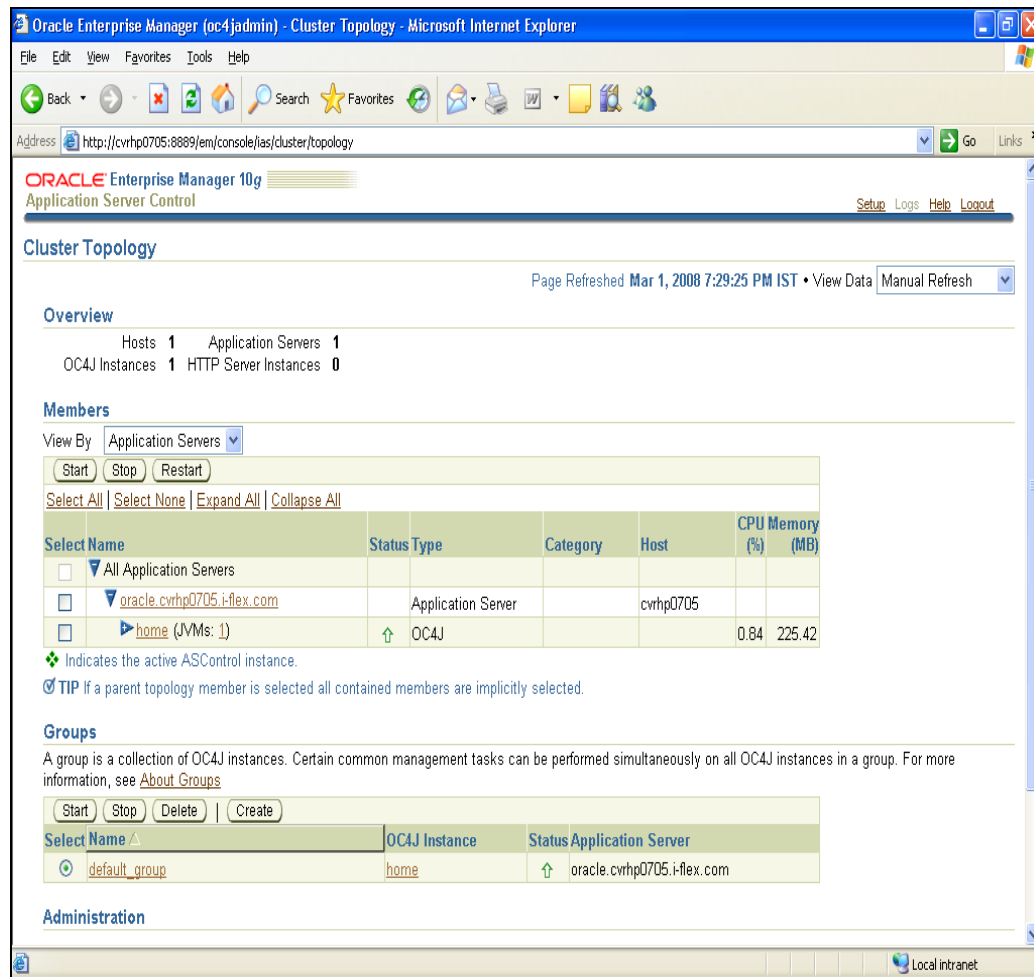
## 7.2.1 Step 1

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 Cluster Topology page in a Microsoft Internet Explorer browser. The address bar shows the URL: <http://cvrhp0705:8889/em/console/ias/cluster/topology>. The page title is "Oracle Enterprise Manager 10g - Cluster Topology - Microsoft Internet Explorer". The main content area is titled "Cluster Topology" and includes a "Page Refreshed" timestamp of "Mar 1, 2008 7:29:25 PM IST" and a "View Data" button. The "Overview" section shows the following statistics:

| Hosts          | Application Servers   |
|----------------|-----------------------|
| 1              | 1                     |
| OC4J Instances | HTTP Server Instances |
| 1              | 0                     |

The "Members" section shows a "View By" dropdown set to "Application Servers". Below this are buttons for "Start", "Stop", and "Restart". A "Select All" link is also present. The table below lists the members:

| 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      |

Below the table, there is a note: "Indicates the active ASControl instance." and a tip: "TIP If a parent topology member is selected all contained members are implicitly selected."

The "Groups" section explains that a group is a collection of OC4J instances and provides a link to "About Groups". Below this are buttons for "Start", "Stop", "Delete", and "Create". The table below lists the groups:

| Select                           | Name          | OC4J Instance | Status | Application Server          |
|----------------------------------|---------------|---------------|--------|-----------------------------|
| <input checked="" type="radio"/> | default_group | home          | ↑      | oracle.cvrhp0705.i-flex.com |

The "Administration" section is visible at the bottom of the page.

### 7.2.3 Step 3

Click Administration tab as shown below

The screenshot displays the Oracle Enterprise Manager 10g Application Server Control console 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 tabs include Home, Applications, Web Services, Performance, and Administration, with the Administration tab currently selected. The page indicates it was refreshed on Mar 1, 2008 at 7:34:11 PM IST.

**General**

Status: **Up** (Stop Restart)

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**

**Response and Load**

The graph shows Request Processing Time (seconds) and Requests per second over a period of 5:34 to 6:00:06:206:407:007:20. The Y-axis ranges from 0.0 to 1.0. The Request Processing Time (seconds) is represented by a blue line, and the Requests per second is represented by a green line.

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## 7.2.4 Step 4

Click JDBC Resources as shown below

The screenshot shows the Oracle Enterprise Manager 10g 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 shows "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, showing a list of tasks. The "JDBC Resources" task is highlighted.

| Task Name                            | Go to Task | Description                                                  |
|--------------------------------------|------------|--------------------------------------------------------------|
| <b>Administration Tasks</b>          |            |                                                              |
| <b>Properties</b>                    |            |                                                              |
| 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.          |
| <b>Services</b>                      |            |                                                              |
| JDBC Resources                       |            | Create/delete/view data sources and connection pools.        |
| <b>Enterprise Messaging Service</b>  |            |                                                              |
| 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 (oc4jadmin) - JDBC Resources page in a Microsoft Internet Explorer browser. The address bar shows the URL: http://cvrhp0705:8889/em/console/ias/oc4j/admin/jdbc?infoKey=1d4\_11869f8fa97. The page is titled "JDBC Resources" and shows a "Page Refreshed Mar 1, 2008 7:37:19 PM IST".

Under the "Data Sources" section, there is a "Create" button and a table listing several data sources. The table has columns: Name, Application, JNDI Location, Connection Pool, Managed by OCAJ, Test Connection, and Delete. The data sources listed are:

| 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" | ✓               |                 |        |

Under the "Connection Pools" section, there is a "Create" button and a table listing several connection pools. The table has columns: Name, Application, Connection Factory Class, Monitor Performance, Test Connection, Refresh Connection Pool, and Delete. The connection pools listed are:

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

At the bottom of the page, there are links for Setup, Logs, Help, and Logout. The footer text reads: Copyright © 1996, 2007, Oracle. All rights reserved. Oracle, JD Edwards, PeopleSoft, and Siebel are registered trademarks of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners. About Oracle Enterprise Manager 10g Application Server Control.

## 7.2.6 Step 6

Click **Continue** as shown below

The screenshot shows the Oracle Enterprise Manager 10g Application Server Control interface in a Microsoft Internet Explorer browser window. The title bar reads "Oracle Enterprise Manager (oc4jadmin) - Create Connection Pool - Application - Microsoft Internet Explorer". The address bar shows the URL: `http://cvrhp0705:8889/em/console/ias/oc4j/jdbc/createCPAppChoice?app=`. The page header includes the Oracle logo, "Enterprise Manager 10g", and "Application Server Control". Navigation links for "Setup", "Logs", "Help", and "Logout" are present. The breadcrumb trail is: "Cluster Topology > Application Server: oracle.cvrhp0705.i-flex.com > OC4J: home > JDBC Resources >". The main heading is "Create Connection Pool - Application". Below this heading are two buttons: "Cancel" and "Continue". The "Application" section prompts the user to "Select the application to which this new connection pool is to be added." and features a dropdown menu with "default" selected. The "Connection Pool Type" section has two radio buttons: "New Connection Pool" (which is selected) and "New Connection Pool from Existing Connection Pool". Below the radio buttons, text states: "Create a new connection pool that is configured like an existing connection pool." and "Existing Connection Pool" is followed by a dropdown menu showing "BPCLPM\_CONNECTION\_POOL". At the bottom of this section are "Cancel" and "Continue" buttons. The footer contains copyright information: "Copyright © 1996, 2007, Oracle. All rights reserved. Oracle, JD Edwards, PeopleSoft, and Siebel are registered trademarks of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners." and a link to "About Oracle Enterprise Manager 10g Application Server Control". The browser's status bar at the bottom shows "Done" and "Local intranet".

## 7.2.7 Step 7

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

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: FCUBS10.0ConnectionPool

\* 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 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: FCUBS10.0ConnectionPool

\* 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

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Home

Address http://cvrhp0705:8889/em/console/ias/oc4j/admin/jdbc?infokey=1dd\_11869f8a97 Go Links

Application All

### Data Sources

Create

| Name                           | Application | JNDI Location                     | Connection Pool           | Managed by OC4J | Test Connection | Delete |
|--------------------------------|-------------|-----------------------------------|---------------------------|-----------------|-----------------|--------|
| "BPelsSamplesDataSource"       | default     | jdbc/BPelsSamplesDataSource       | "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

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Home

Address http://cvrhp0705:8889/em/console/ias/oc4j/admin/jdbc?infokey=1dd\_11869f8a97 Go Links

Application All

### Data Sources

Create

| Name                           | Application | JNDI Location                     | Connection Pool           | Managed by OC4J | Test Connection | Delete |
|--------------------------------|-------------|-----------------------------------|---------------------------|-----------------|-----------------|--------|
| "BPelsSamplesDataSource"       | default     | jdbc/BPelsSamplesDataSource       | "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 |                     |                 |                         |        |

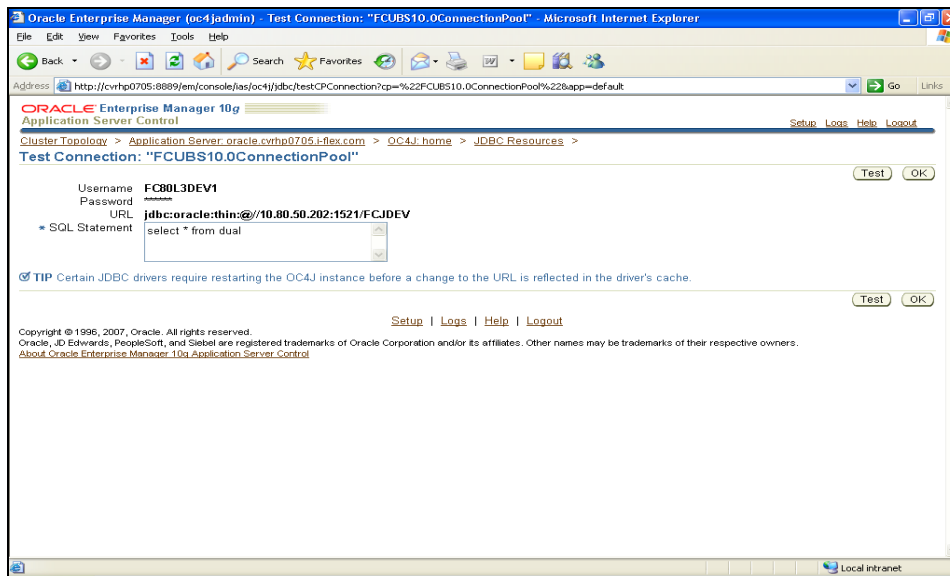
Setup | Logs | Help | Logout

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Local intranet

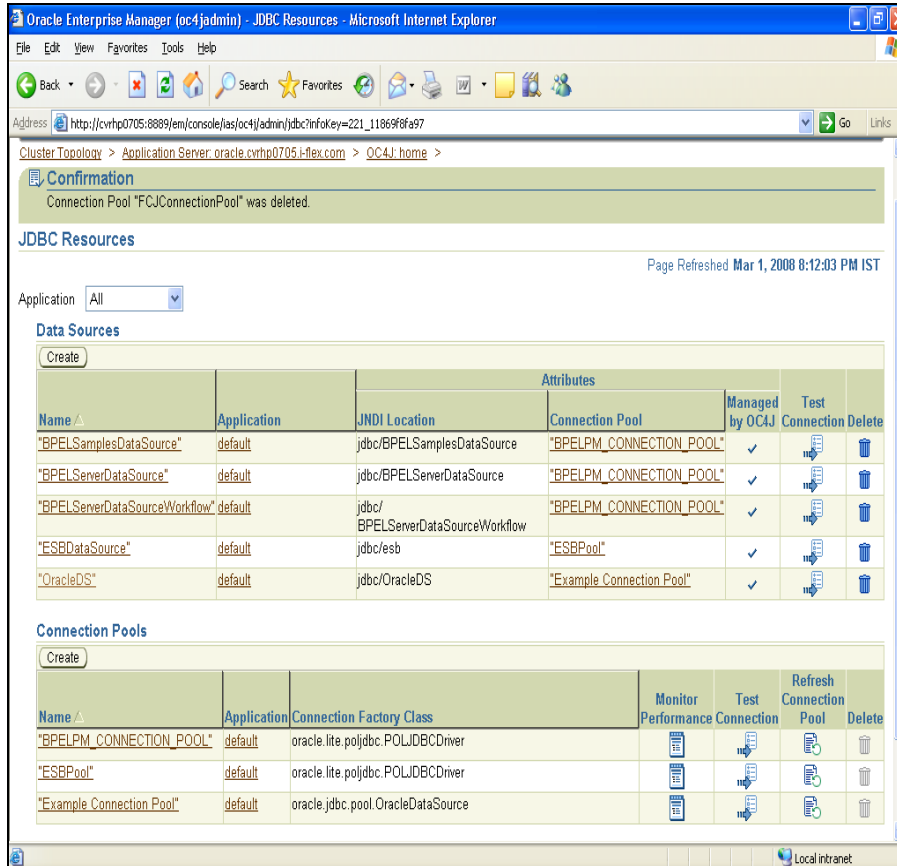
## 7.2.9 Step 9

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

The screenshot shows the Oracle Enterprise Manager 10g Application Server Control interface in a Microsoft Internet Explorer browser. The page title is "Oracle Enterprise Manager (oc4jadmin) - Create Data Source - Application & Type - Microsoft Internet Explorer". The address bar shows the URL: <http://cvrhp0705:8889/em/console/ias/oc4j/jdbc/createDS?app=8dsType=managed>. The page content includes the Oracle logo, "Enterprise Manager 10g", and "Application Server Control". A breadcrumb trail shows: [Cluster Topology](#) > [Application Server oracle.cvrhp0705.i-flex.com](#) > [OC4J home](#) > [JDBC Resources](#) > [Create Data Source - Application & Type](#). There are "Cancel" and "Continue" buttons at the top right. The "Application" section has a dropdown menu set to "default". The "Data Source Type" section has three radio buttons: "Managed Data Source" (selected), "Native Data Source", and "New Data Source from Existing Data Source". Below the "New Data Source from Existing Data Source" option, there is a text field for "Existing Data Source" with the value "BPELSamplesDataSource" and a dropdown arrow. At the bottom right, there are "Cancel" and "Continue" buttons. The footer contains copyright information: "Copyright © 1996, 2007, Oracle. All rights reserved. Oracle, JD Edwards, PeopleSoft, and Siebel are registered trademarks of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners. [About Oracle Enterprise Manager 10g Application Server Control](#)". The status bar at the bottom shows "Local intranet".

### 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

Oracle Enterprise Manager 10g  
Application Server Control

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

Cancel Back Finish

Application default

\* Name fcjdevDS

\* JNDI Location jdbc/fcjdevDS

Transaction Level Global & Local Transactions

Connection Pool FCUBS10ConnectionPool

\* Login Timeout (seconds) 0  
Maximum time to wait while attempting to connect to a database.

Credentials

Cancel Back Finish

Setup | Logs | Help | Logout

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Done Local intranet

This creates Data Source as shown below.

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

Address: http://cvrhp0705:8889/em/console/ias/oc4j/admin/jdbc?infokey=234\_11869f8fa97

ORACLE Enterprise Manager 10g  
Application Server Control

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

**Confirmation**  
Data Source fcjdevDS has been created.

**JDBC Resources**  
Page Refreshed Mar 1, 2008 8:27:15 PM IST

Application: All

**Data Sources**

Create

| Name                           | Application | JNDI Location                     | Attributes                |  | Managed by OCAJ | Test Connection | Delete |
|--------------------------------|-------------|-----------------------------------|---------------------------|--|-----------------|-----------------|--------|
|                                |             |                                   | Connection Pool           |  |                 |                 |        |
| "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"                 |  | ✓               |                 |        |
| "fcjdevDS"                     | default     | jdbc/fcjdevDS                     | "FCUBS10ConnectionPool"   |  | ✓               |                 |        |
| "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.pooljdbc.POLJDBCdriver |                     |                 |                         |        |

Done Local intranet

## 7.2.13 Step 13

Click Test Connection as shown below

The screenshot shows the Oracle Enterprise Manager 10g interface in a Microsoft Internet Explorer browser. The page title is "Oracle Enterprise Manager 10g - JDBC Resources". The breadcrumb trail is "Cluster Topology > Application Server: oracle.cvrhp0705.i-flex.com > OC4J: home > JDBC Resources". A confirmation message states "Data Source fcjdevDS has been created." Below this, the "JDBC Resources" section is displayed, with a "Page Refreshed Mar 1, 2008 8:27:15 PM IST" timestamp. The "Data Sources" table lists several data sources, including "BPESamplesDataSource", "BPEServerDataSource", "BPEServerDataSourceWorkflow", "ESBDataSource", "fcjdevDS", and "OracleDS". The "fcjdevDS" data source is highlighted. Below the table, the "Connection Pools" section shows a single connection pool named "BPCLPM\_CONNECTION\_POOL" with application "default" and connection factory class "oracle.lite.pooljdbc.POLJDBCdriver".

| Name                          | Application | JNDI Location                    | Connection Pool           | Managed by OC4J | Test Connection | Delete |
|-------------------------------|-------------|----------------------------------|---------------------------|-----------------|-----------------|--------|
| "BPESamplesDataSource"        | default     | jdbc/BPESamplesDataSource        | "BPCLPM_CONNECTION_POOL"  | ✓               |                 |        |
| "BPEServerDataSource"         | default     | jdbc/BPEServerDataSource         | "BPCLPM_CONNECTION_POOL"  | ✓               |                 |        |
| "BPEServerDataSourceWorkflow" | default     | jdbc/BPEServerDataSourceWorkflow | "BPCLPM_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 |
|--------------------------|-------------|------------------------------------|---------------------|-----------------|-------------------------|--------|
| "BPCLPM_CONNECTION_POOL" | default     | oracle.lite.pooljdbc.POLJDBCdriver |                     |                 |                         |        |

## 7.2.14 Step 14

Click Test as shown below

The screenshot shows the "Test Connection" dialog for the "fcjdevDS" data source. The dialog is titled "Oracle Enterprise Manager 10g - Test Connection: 'fcjdevDS'". The breadcrumb trail is "Cluster Topology > Application Server: oracle.cvrhp0705.i-flex.com > OC4J: home > JDBC Resources > Test Connection: 'fcjdevDS'". The "Test Connection" button is highlighted. 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

Below the input fields, there is a "TIP" section stating: "Certain JDBC drivers require restarting the OC4J instance before a change to the URL is reflected in the driver's cache." At the bottom of the dialog, there are "Test" and "OK" buttons.

This completes Data source creation

## 7.2.15 Step 15

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

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://localhost:8888/em/console/fas/oc4j/applications>. The page title is "OC4J: home". The navigation tabs include Home, Applications (selected), Web Services, Performance, and Administration. The page indicates it was refreshed on Apr 20, 2009 4:20:02 PM IST.

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

View: Applications

Buttons: Start, Stop, Restart, Undeploy, Redeploy, Deploy

Links: 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.

Navigation tabs: Home, Applications, Web Services, Performance, Administration

Links: 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

The screenshot shows the Oracle Enterprise Manager 10g Application Server Control interface in a Microsoft Internet Explorer browser window. The title bar reads "Oracle Enterprise Manager (oc4jadmin) - Deploy: Select Archive - Microsoft Internet Explorer". The address bar shows the URL: `http://localhost:8888/em/console/ias/j2ee/deploy/deploySelectArchive?command=startWizard&appName=apps`. The page header includes "ORACLE Enterprise Manager 10g" and "Application Server Control" with links for "Setup", "Logs", "Help", and "Logout". A progress bar at the top indicates three steps: "Select Archive" (current), "Application Attributes", and "Deployment Settings".

The main content area is titled "Deploy: Select Archive" and includes "Cancel", "Step 1 of 3", and "Next" buttons. It is divided into two sections: "Archive" and "Deployment Plan".

**Archive Section:**

- Text: "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)."
  - Selected option: "Archive is present on local host. Upload the archive to the server where Application Server Control is running."
    - Field: "Archive Location" with value "D:\Development\FLEXCUBE\FCJRADTool.war" and a "Browse..." button.
  - Option: "Archive is already present on the server where Application Server Control is running."
    - Field: "Location on Server" (empty).
    - Text: "The location on server must be the absolute path or the relative path from j2ee/home".

**Deployment Plan Section:**

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

At the bottom of the form, there are "Cancel", "Step 1 of 3", and "Next" buttons, and a footer with "Setup | Logs | Help | Logout". The footer also contains copyright information: "Copyright © 1996, 2007, Oracle. All rights reserved. Oracle, JD Edwards, PeopleSoft and Siebel are registered trademarks of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners."

## 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 a Microsoft Internet Explorer browser window. The address bar shows the URL: <http://localhost:8888/em/console/ias/j2ee/deploy/deployAppAttributes>. The page title is "Oracle Enterprise Manager 10g Application Server Control". The navigation bar shows three steps: "Select Archive", "Application Attributes" (current step), and "Deployment Settings". The main content area is titled "Deploy: Application Attributes" and includes a progress bar with buttons for "Cancel", "Back", "Step 2 of 3", and "Next". The form contains the following fields:

- Archive Type: **Web Module (WAR file)**
- Archive Location: **D:\Development\FLEXCUBE\FCJRADTool.war**
- Deployment Plan: **Creating a new plan**
- \* 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 buttons for "Cancel", "Back", "Step 2 of 3", and "Next". The footer contains copyright information and a link to "About Oracle Enterprise Manager 10g Application Server Control".

## 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.

The screenshot shows the Oracle Enterprise Manager 10g console in Microsoft Internet Explorer. The page title is "Oracle Enterprise Manager 10g - Deployment Settings: Map Environment References". The breadcrumb trail is "Select Archive" > "Application Attributes" > "Deployment Settings". The main heading is "Deployment Settings: Map Environment References".

On the right side, there are buttons for "Cancel" and "OK".

Deployment Details:

- 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**

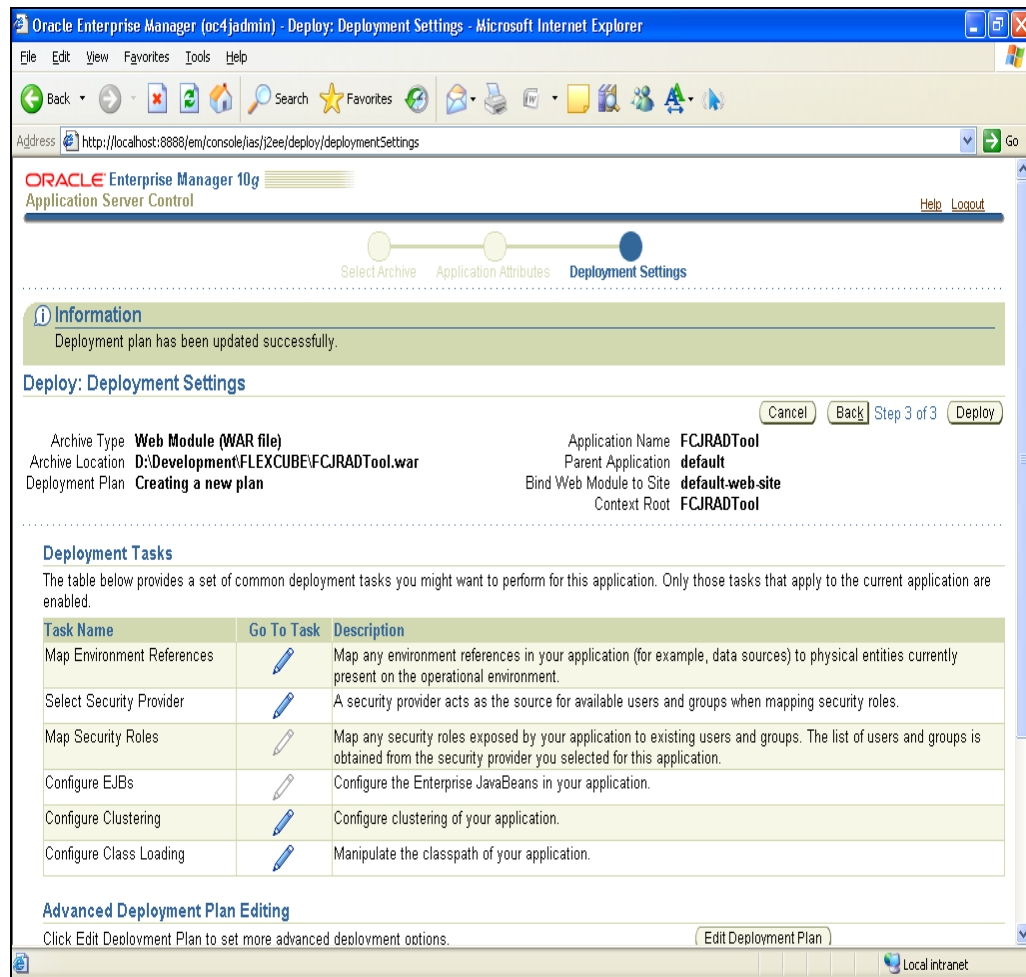
The table below lists the resource references of type java.net.URL each of which must be linked to a URL.

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

At the bottom of the page, there is a "Done" button and a "Local intranet" status indicator.

## 7.2.20 Step 20

Click Deploy



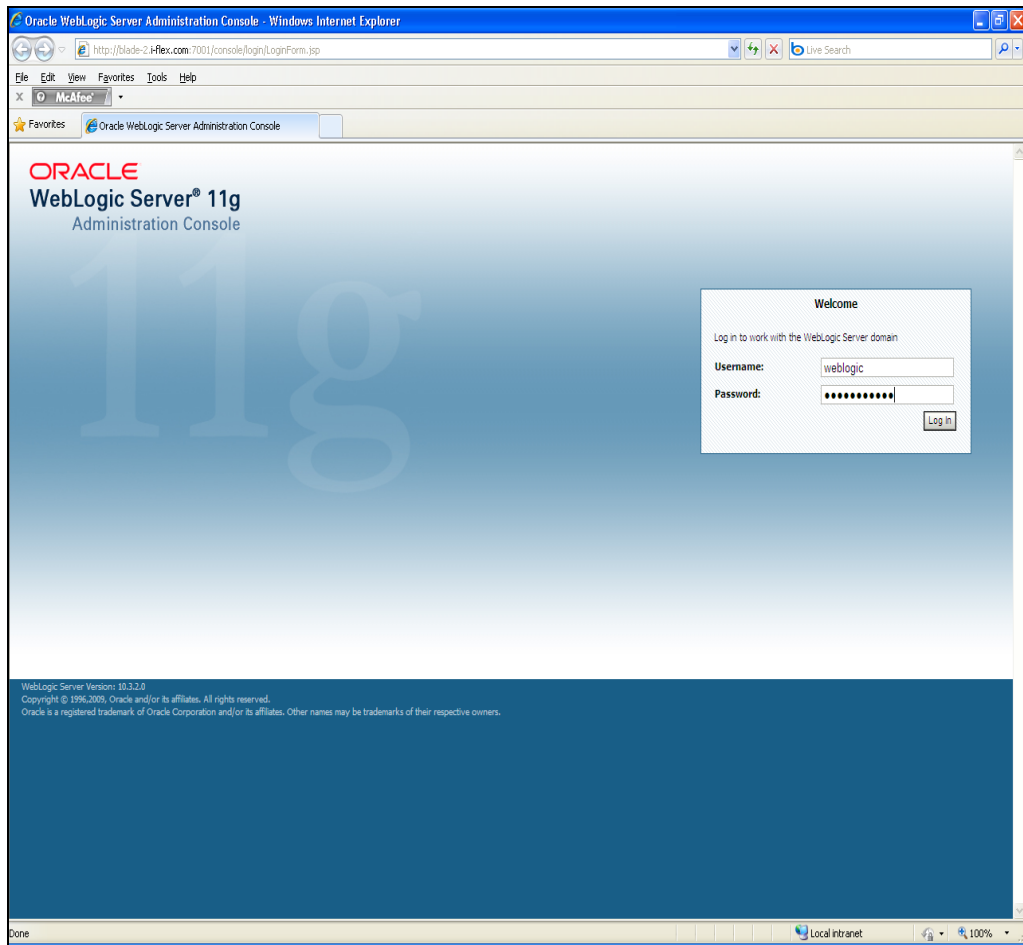
This completes Deployment of FCJRADTool.war file to OC4J 10.1.3.x Application server.

## 7.3 WebLogic Application server

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

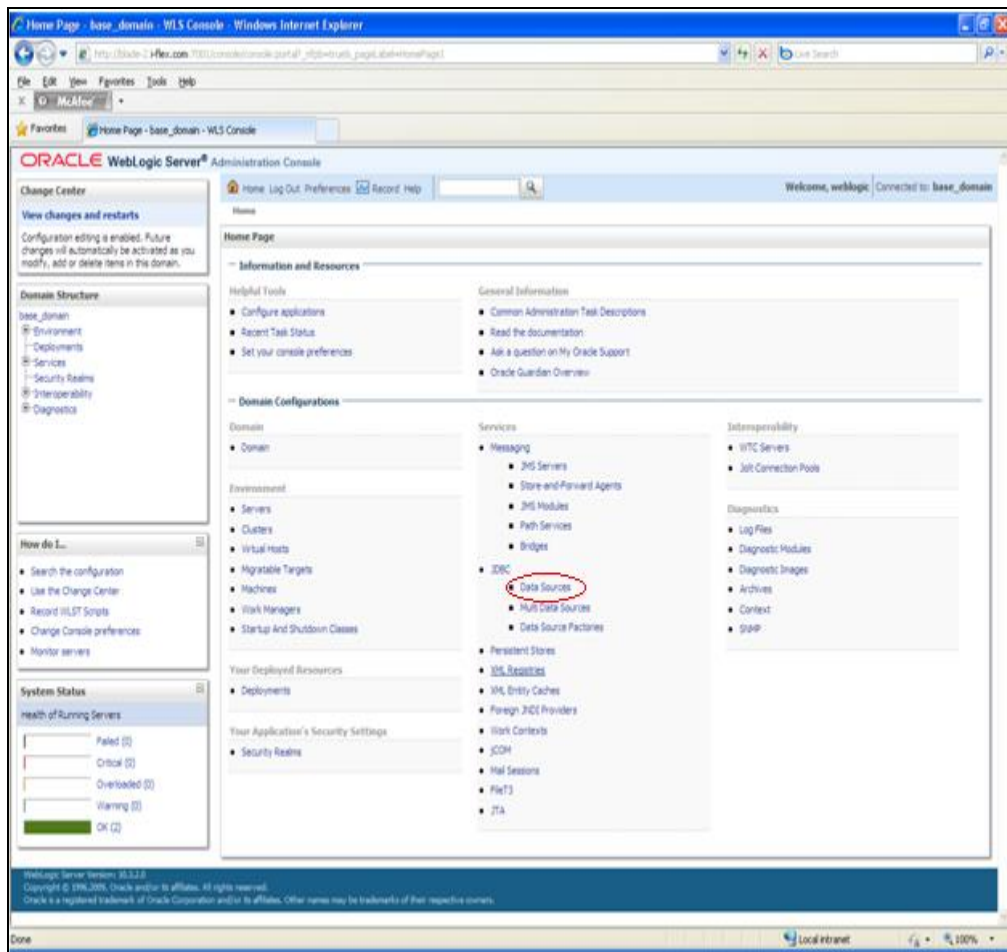
Steps 1-18 explain creation of Connection Pool and Data source. Skip these steps if Connection pool and data source already exists in the WebLogic Application server.

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 shows the Oracle WebLogic Server Administration Console in a web browser. The page title is "Summary of JDBC Data Sources - base\_domain - WLS Console - Windows Internet Explorer". The URL is "http://blade21:7001/console/console.portal?\_afpb=trunk\_page&afpb=GlobalJDBCDataSourceTablePage". The page content includes a "Summary of JDBC Data Sources" section with a description and a table of existing data sources. A "New" button is circled in red, indicating where to click to create a new data source.

**Summary of JDBC Data Sources**

A JDBC data source is an object bound to the JNDI tree that provides database connectivity through a pool of JDBC connections. Applications can look up a data source on the JNDI tree and then borrow a database connection from a data source.

This page summarizes the JDBC data source objects that have been created in this domain.

**Customize this table**

**Data Sources (Filtered - More Columns Exist)**

| <input type="checkbox"/> | Name          | JNDI Name          | Targets         |
|--------------------------|---------------|--------------------|-----------------|
| <input type="checkbox"/> | fcjScheduleDS | jdbc/fcjScheduleDS | ManagedServer_1 |
| <input type="checkbox"/> | FCJBS11.1     | jdbc/fcjbs11.1     | ManagedServer_1 |
| <input type="checkbox"/> | HDPC          | jdbc/fcjbs11.1     | ELCManaged      |
| <input type="checkbox"/> | RAD10.5       | jdbc/PCCEV         | ManagedServer_1 |

Showing 1 to 4 of 4 Previous | Next

### 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.

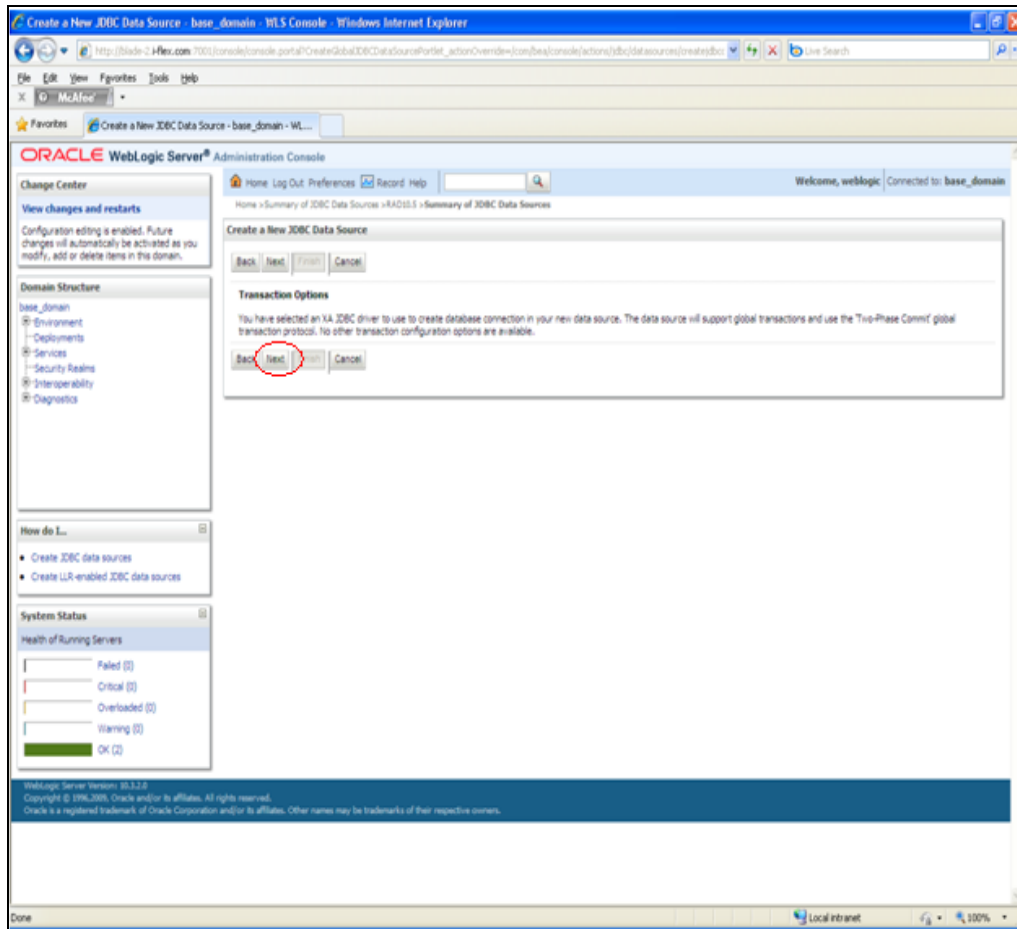
The screenshot shows the Oracle WebLogic Server Administration Console in a web browser. The main window displays the 'Create a New JDBC Data Source' wizard. The 'JDBC Data Source Properties' section is active, showing the following fields:

- Name:** RAD11 (highlighted with a red circle)
- JNDI Name:** jdbc/TC111DEV (highlighted with a red circle)
- Database Type:** Oracle (selected in a dropdown menu)
- Database Driver:** Oracle's Driver (Thin XA) for Instance connections: Versions 9.0.1.9.2.0.10.11 (selected in a dropdown menu)

The 'Next' button is highlighted with a red circle. The left sidebar shows the 'Domain Structure' tree with 'base\_domain' selected. The bottom status bar indicates 'WebLogic Server Version: 10.3.2.0'.

### 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.

The screenshot shows the 'Create a New JDBC Data Source' wizard in the WLS Console. The wizard is titled 'Create a New JDBC Data Source - base\_domain - WLS Console - Windows Internet Explorer'. The URL in the address bar is 'http://localhost:7001/console/console.portal?\_afCreateJDBCDataSourcePortal\_actionOverwrite=com.bea.console.actions.jdbc.datasource.CreateJDBCDataSource'. The wizard has several sections:

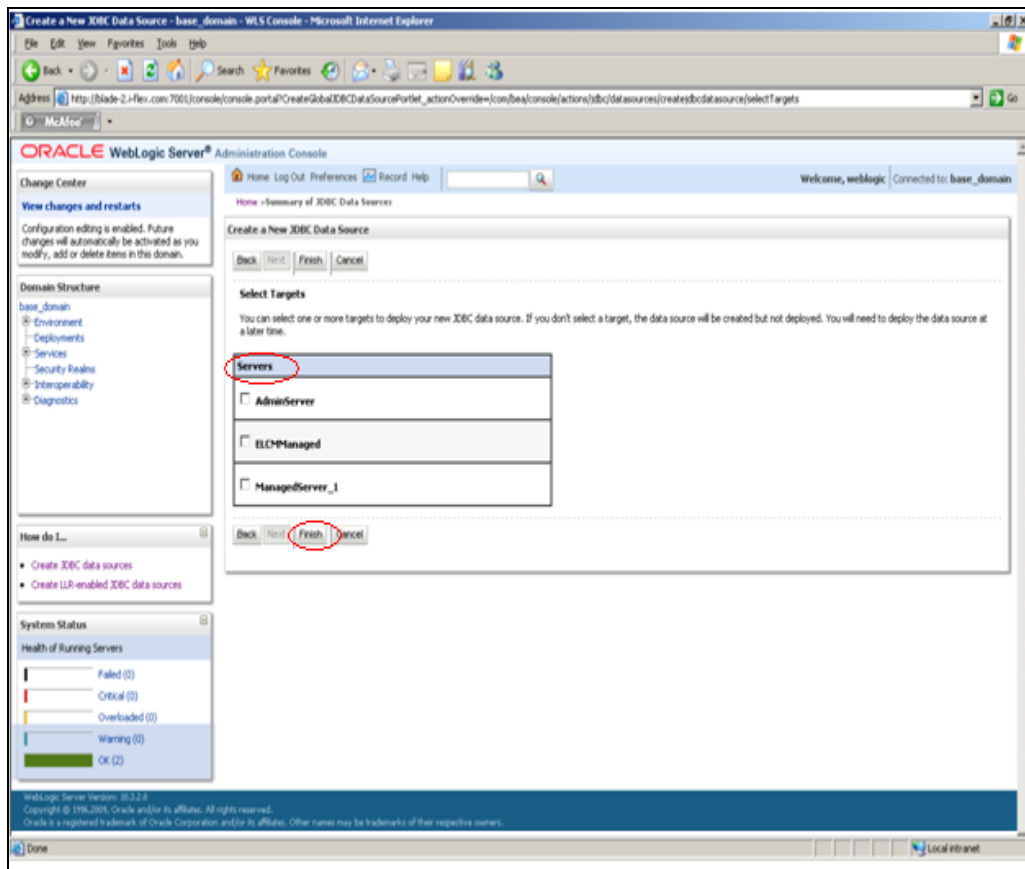
- Driver Class Name:** oracle.jdbc.xa.client.OracleThinDriver
- URL:** jdbc:oracle:thin:@10.104.1.1:1521:orcl
- Database User Name:** FC111DEV
- Password:** (masked with asterisks)
- Confirm Password:** (masked with asterisks)
- Properties:** (empty text area)
- Test Table Name:** DUAL

At the bottom of the wizard, there are four buttons: 'Test Configuration', 'Back', 'Next', and 'Cancel'. The 'Test Configuration' button is circled in red. The 'Next' button is also circled in red.

At the bottom of the console window, there is a status bar with the text 'Done' and 'Local Intranet'.

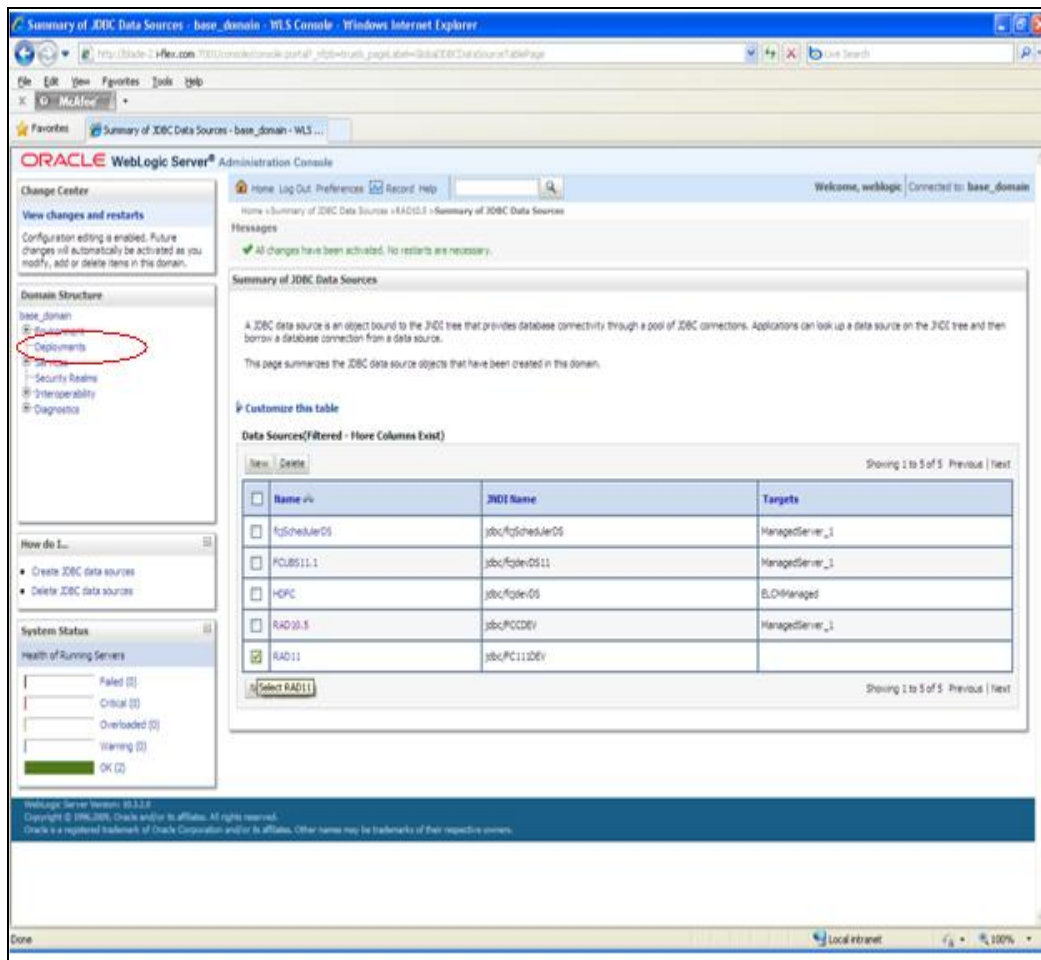
### 7.3.7 Step 7

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

| Name                                      | JNDI Name           | Targets         |
|-------------------------------------------|---------------------|-----------------|
| fcjSchedulerDS                            | jdbc/fcjschedulerDS | ManagedServer_1 |
| FCJBS11.1                                 | jdbc/fcjsclerDS11   | ManagedServer_1 |
| HDPC                                      | jdbc/fcjsclerDS     | BLDManaged      |
| RAD10.5                                   | jdbc/PCCODEV        | ManagedServer_1 |
| <input checked="" type="checkbox"/> RAD11 | jdbc/PC11CODEV      |                 |

### 7.3.9 Step 9

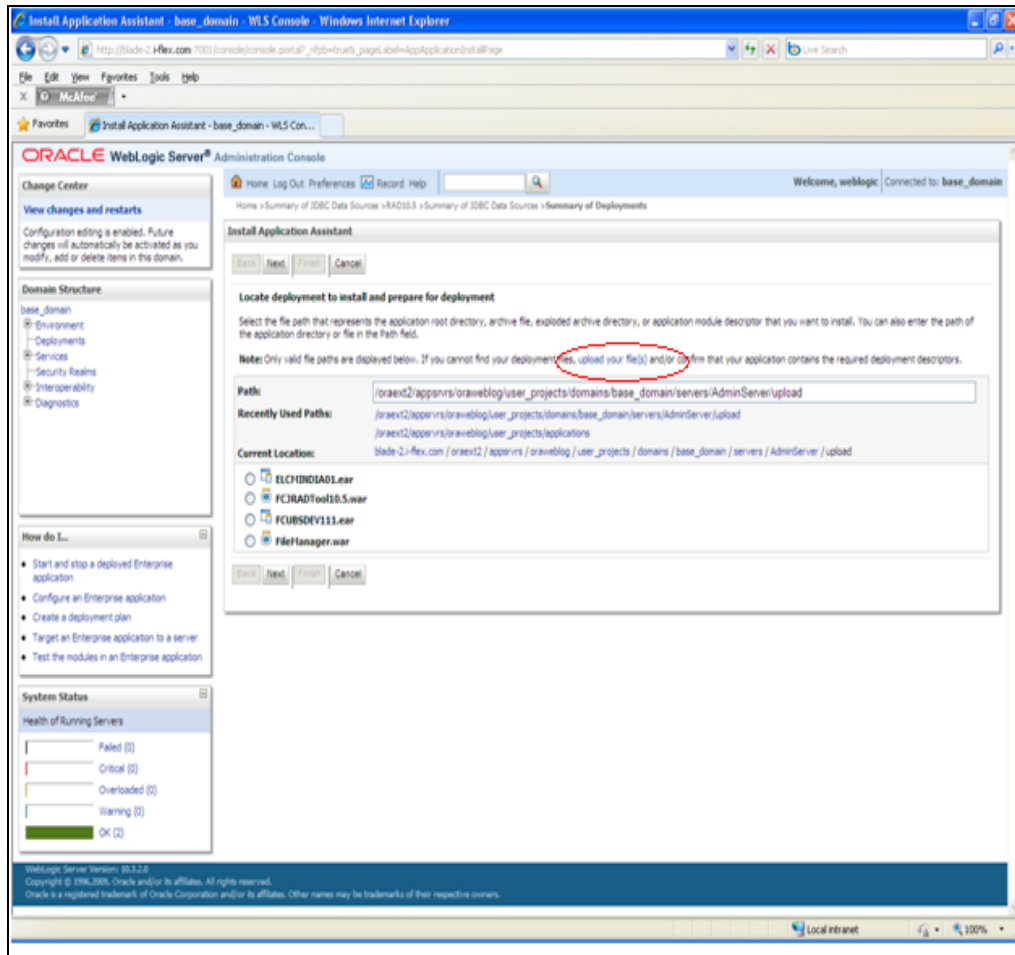
To install a new application or module for deployment click the Install button.

The screenshot shows the Oracle WebLogic Server Administration Console in a web browser. The main content area is titled "Summary of Deployments" and includes a "Control" tab. Below the tab, there is a table of deployed applications. The "Install" button is highlighted with a red circle. The table lists four applications: "WLOCHCA01", "PCRADT0010\_5", "PCUBDEV111", and "WebManager".

| Name         | State  | Health | Type                   | Deployment Order |
|--------------|--------|--------|------------------------|------------------|
| WLOCHCA01    | New    |        | Enterprise Application | 100              |
| PCRADT0010_5 | Active | OK     | Web Application        | 100              |
| PCUBDEV111   | Active | OK     | Enterprise Application | 100              |
| WebManager   | Active | OK     | Web Application        | 100              |

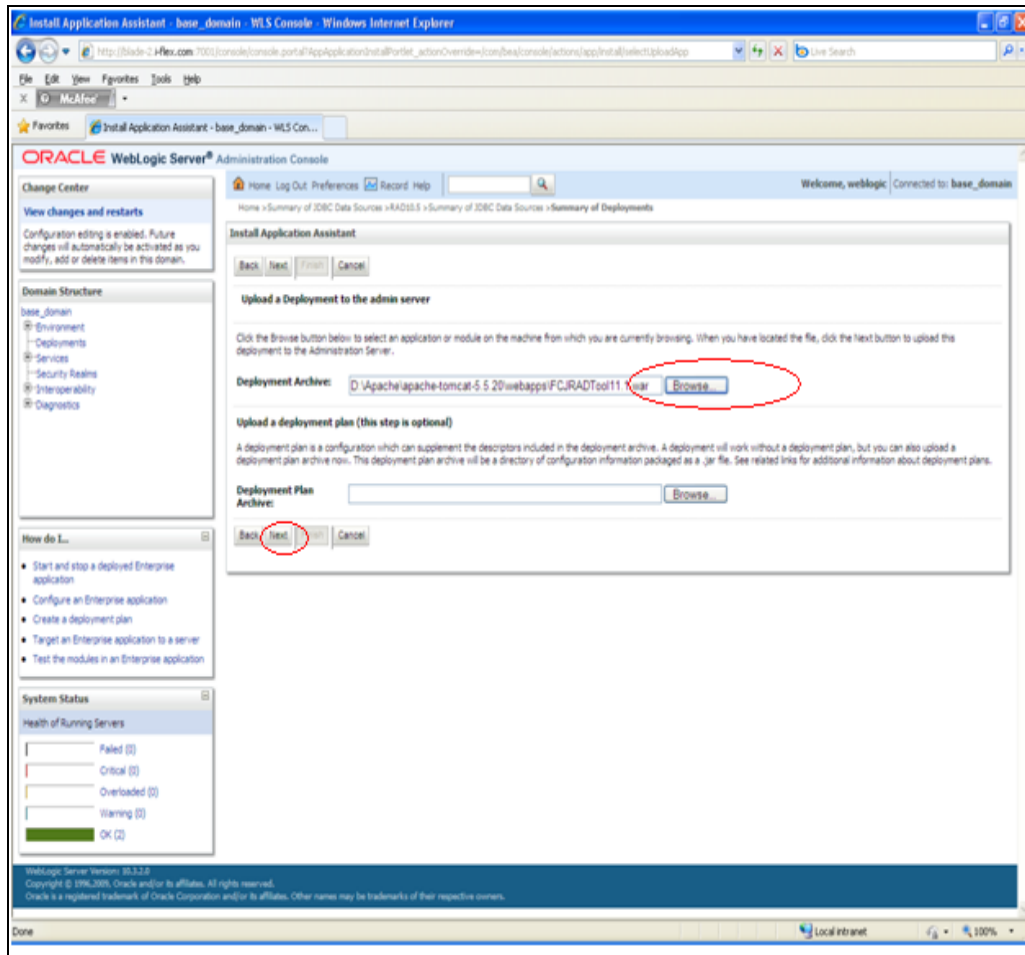
### 7.3.10 Step 10

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



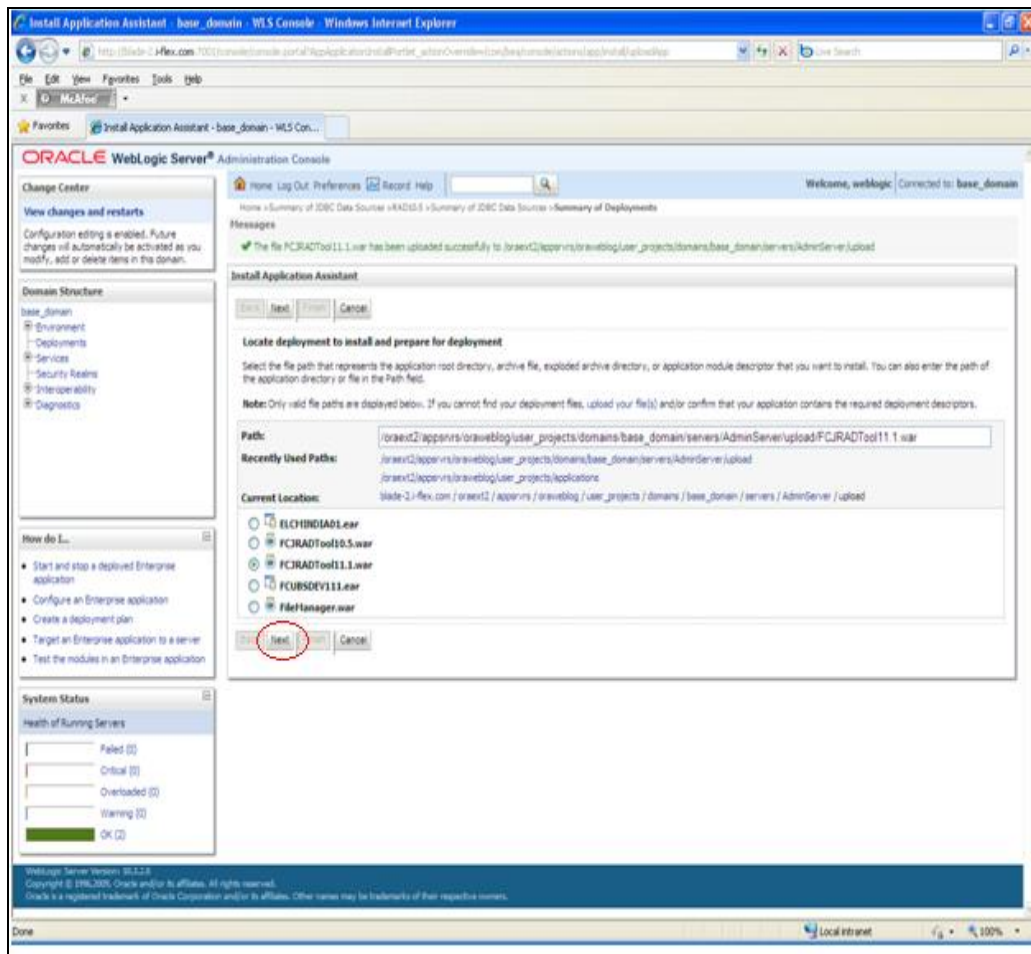
### 7.3.11 Step 11

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



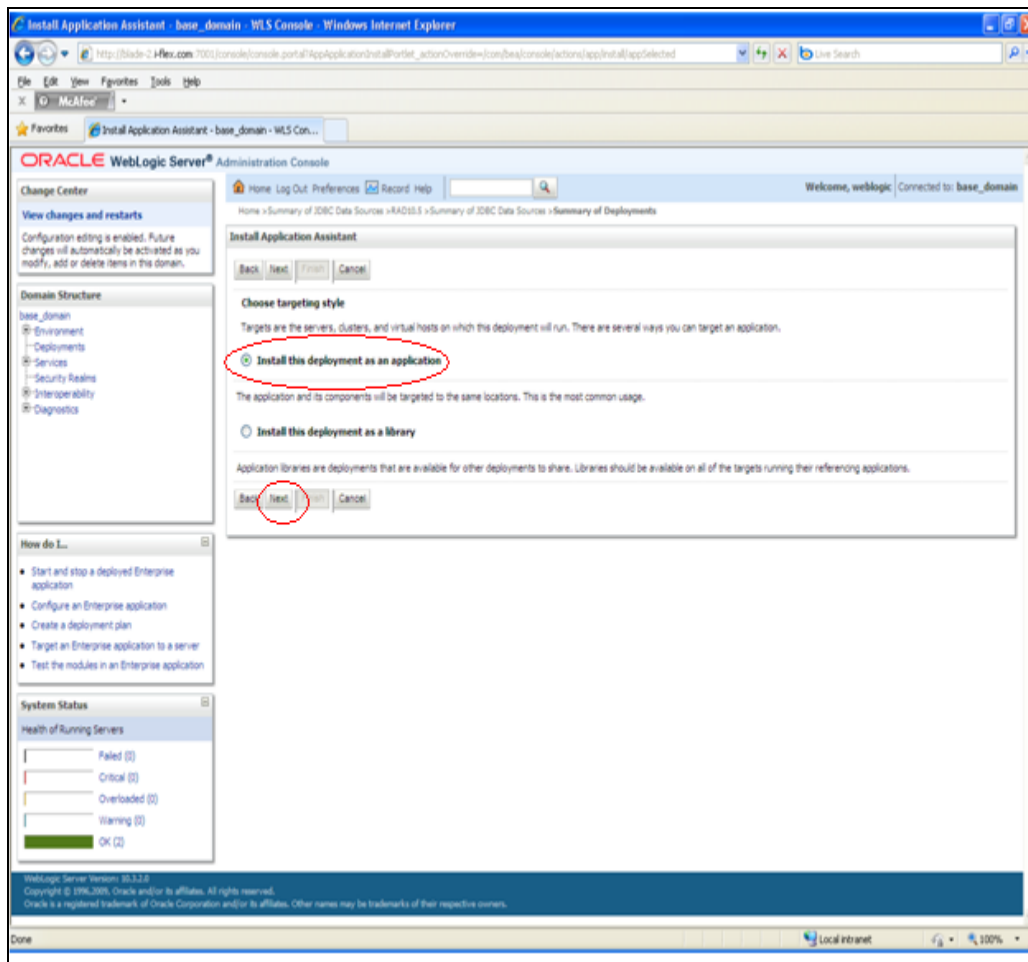
## 7.3.12 Step 12

Click Next



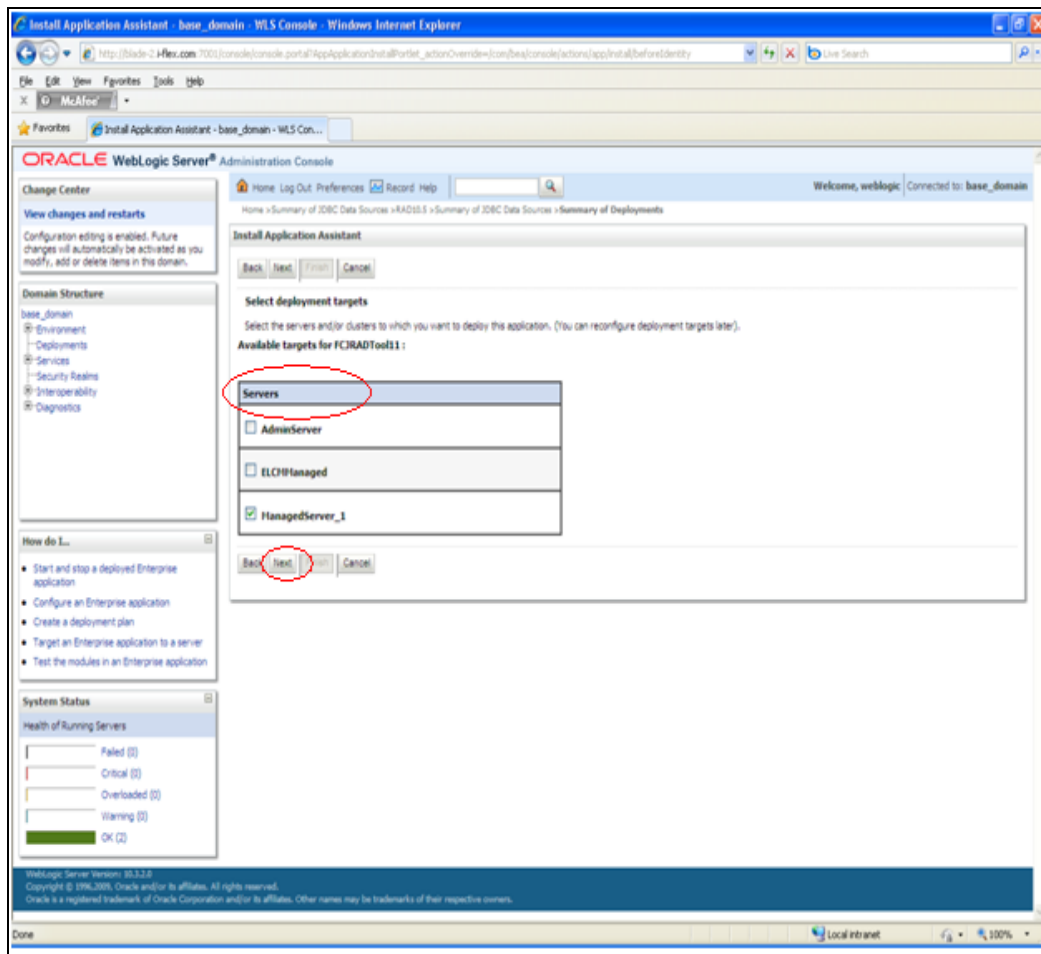
### 7.3.13 Step 13

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



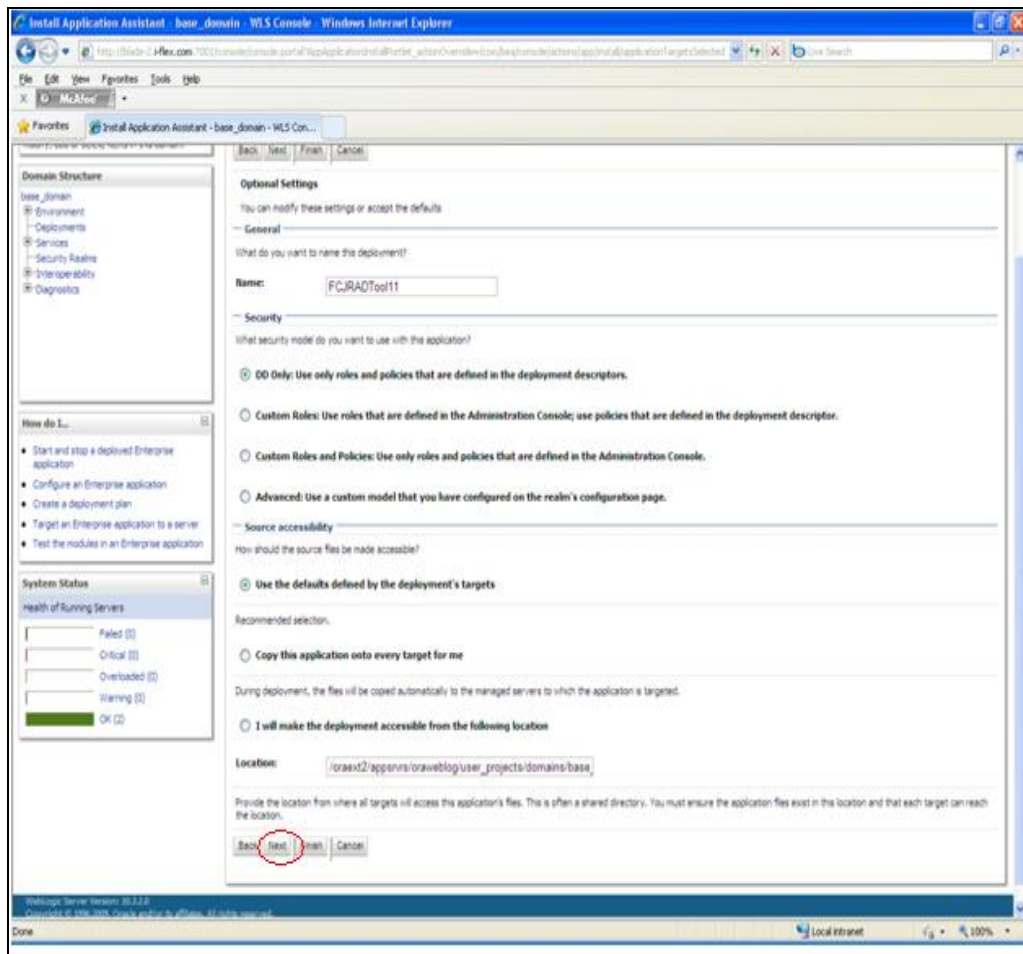
### 7.3.14 Step 14

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. The main content area displays the 'Summary of Deployments' page. On the left, there is a 'Domain Structure' tree with 'base\_domain' selected. Below it, a 'How to...' section lists various tasks. The 'System Status' section shows the health of running servers. The main table lists the following deployments:

| Name           | State  | Health | Type                   | Deployment Order |
|----------------|--------|--------|------------------------|------------------|
| WLSCHN12121    | New    |        | Enterprise Application | 100              |
| PCSRADTool10_5 | Active | OK     | Web Application        | 100              |
| PCSRADTool11   | Active | OK     | Web Application        | 100              |
| PCSRADTool111  | Active | OK     | Enterprise Application | 100              |
| FileManager    | Active | OK     | Web Application        | 100              |

The 'PCSRADTool11' deployment is highlighted with a red circle. The 'Health' column for all active deployments shows 'OK'.

### 7.3.17 Step 17

Go to the Testing Tab.

The screenshot shows the Oracle WebLogic Server Administration Console in a web browser. The 'Testing' tab is selected and highlighted with a red circle. The console displays the configuration for the 'PCRADTool11' application. The left sidebar contains navigation links for 'Change Center', 'Domain Structure', 'How do I...', and 'System Status'. The main content area shows the 'Testing' tab with a 'Save' button and a table of application details. Below the table, there is a 'Modules and Components' section showing a table with one entry: 'PCRADTool11' of type 'Web Application'.

| Name        | Type            |
|-------------|-----------------|
| PCRADTool11 | Web Application |

### 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.

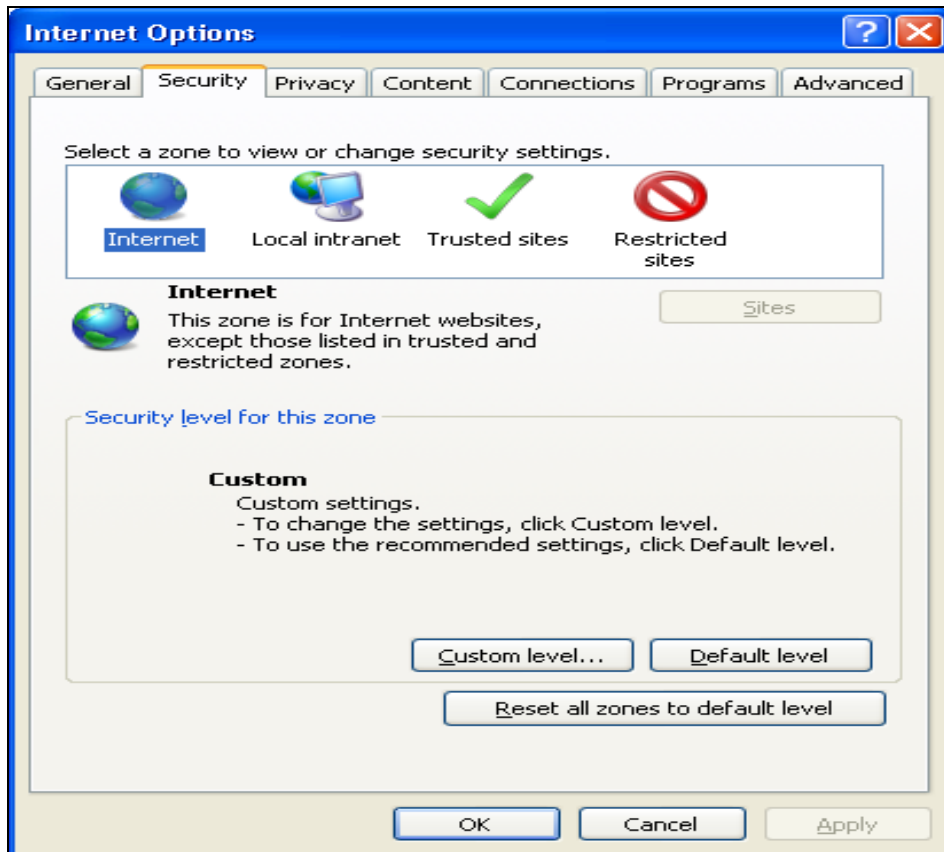
The screenshot shows the Oracle WebLogic Server Administration Console. The main content area displays the 'Settings for PCRADTool11' page, with the 'Testing' tab selected. The 'Deployment Tests' section shows a table with the following data:

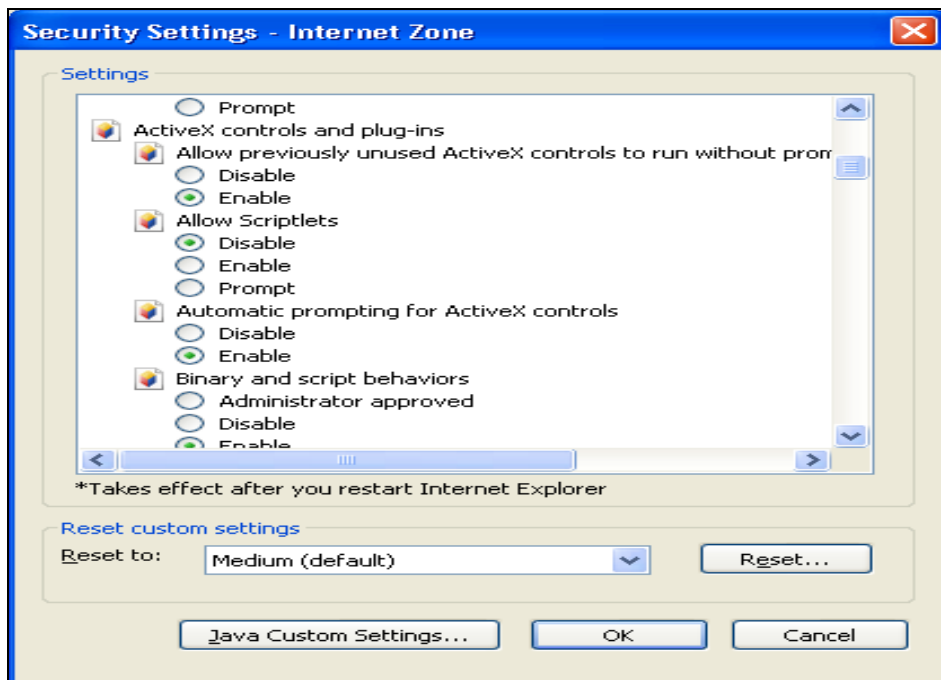
| Name        | Test Point                                                                                                      | Comments                                          |
|-------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| PCRADTool11 |                                                                                                                 |                                                   |
| default     | <a href="http://10.104.74.104:9001/PCRADTool11">http://10.104.74.104:9001/PCRADTool11</a>                       | Default url on server ManagedServer_1             |
| index.html  | <a href="http://10.104.74.104:9001/PCRADTool11/index.html">http://10.104.74.104:9001/PCRADTool11/index.html</a> | Welcome file index.html on server ManagedServer_1 |

The 'Test Point' for the 'default' test is circled in red. The left sidebar shows the 'Domain Structure' and 'How do I...' sections. The bottom status bar indicates 'WebLogic Server Version: 12.1.3.0' and 'Copyright © 1996, 2009, Oracle and/or its affiliates. All rights reserved.'

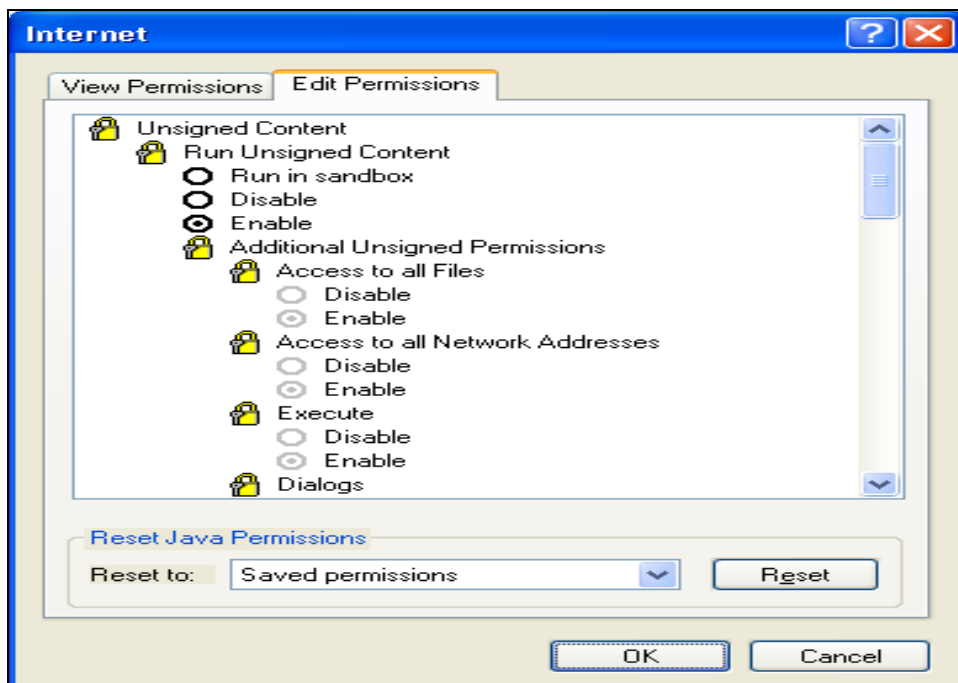
## 8. IE Settings

- 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

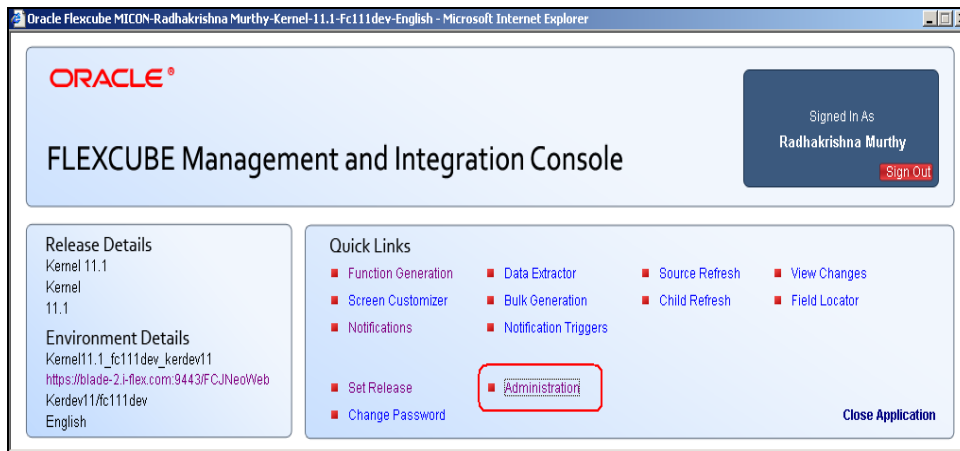
This Role is meant for Project Leaders and Team leaders and allows them to Release administration. Users with this role would be allowed to perform the below tasks

- 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.

The screenshot shows a web browser window titled "Oracle Flexcube MICON- Admin Details- Admin-Default --English -- Webpage Dialog". The Oracle logo is in the top left. A left-hand navigation pane contains a tree view with folders for "User", "Environment", "Release", "Detail", and "Summary". The "Release" folder is selected, and the "Release Details" page is displayed. The page contains the following fields:

- \* Release Code:** FC\_UBS\_VUM\_11.2.CU.0.0.0.0
- Release Description:** FC\_UBS\_VUM\_11.2.CU.0.0.0.0 Test Customer Re
- Release Type:** Custom (dropdown menu)
- Release No:** 1
- Remarks:** Customer Test release base on 11.2
- Release SPC:** B Anandan

The Windows taskbar at the bottom shows the start button, several application icons, a search bar, and the system clock displaying 4:06 PM.

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

Oracle Flexcube MICON- Admin Details- Admin-Default---English -- Webpage Dialog

**ORACLE**

User Maintenance

Upload From Excel

\* User ID  User Name

Default Release  Default Environment

User Password  User Status

| <input type="checkbox"/> | * Release Code            | User Role                                  |
|--------------------------|---------------------------|--------------------------------------------|
| <input type="checkbox"/> | FC_UBS_V.UM_11.2.CU.0.0.0 | <input type="text" value="Release Admin"/> |

### 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

The screenshot shows the 'Oracle Flexcube MICON- Admin Details- Admin-Default--English -- Webpage Dialog' window. The 'Environment Master Details' tab is active, displaying a 'Save' button and various configuration fields. The left sidebar shows a tree view with 'User', 'Environment', and 'Release' categories, each with 'Detail' and 'Summary' sub-items. The main area contains the following fields:

|                                                                       |                                                                         |                                                                    |  |
|-----------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------|--|
| * Environment Code: <input type="text" value="I_11.2.CU.0.0.0_DEV"/>  |                                                                         | Environment Name: <input type="text" value="I_11.2.CU.0.0.0_DEV"/> |  |
| Release Code: <input type="text" value="V_UM_11.2.CU.0.0.0.0"/>       |                                                                         | Language Code: <input type="text" value="ENG"/>                    |  |
| Database Instance: <input type="text" value="ORCLNEW"/>               | Database HostName: <input type="text" value="localhost"/>               |                                                                    |  |
| Database Port: <input type="text" value="1521"/>                      | Database IP Address: <input type="text" value="localhost"/>             |                                                                    |  |
| Database Name: <input type="text" value="FCUBS112N"/>                 | Database Password: <input type="password" value="*****"/>               |                                                                    |  |
| JNDI Name: <input type="text" value="jdbcfjdevDS"/>                   |                                                                         |                                                                    |  |
| Application Name: <input type="text" value="FCUBS11.2"/>              | Application URL: <input type="text" value="com:7001/FCJNeoWeb"/>        |                                                                    |  |
| Application IP Address: <input type="text" value="localhost"/>        | Application Operating System: <input type="text" value="Windows"/>      |                                                                    |  |
| Application Transfer Type: <input type="text" value="File Copy"/>     |                                                                         |                                                                    |  |
| JS Directory Path: <input type="text" value="12\yv1aaolwanScriptUS"/> | UIXML Directory Path: <input type="text" value="3112\yv1aaolwanUIXML"/> |                                                                    |  |
| Server Username: <input type="text"/>                                 | Server Password: <input type="password"/>                               |                                                                    |  |
| Server Filemanager URL: <input type="text"/>                          | Filemanager Username: <input type="text"/>                              |                                                                    |  |
| Filemanager Password: <input type="password"/>                        |                                                                         |                                                                    |  |

### 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.

Oracle Flexcube MICON- Admin Details- Radhakrishna Murthy- Kernel-11.1-Fc111dev-English -- Web Page Dialog

**ORACLE**

User Maintenance

Upload From Excel

\* User ID: RADHAKRISHNAM User Name: Radhakrishna Murthy

Default Release: FCUBSKERNEL11.1 Default Environment: KERNEL11.1\_FC111D

User Password: \*\*\*\*\* User Status: Enabled

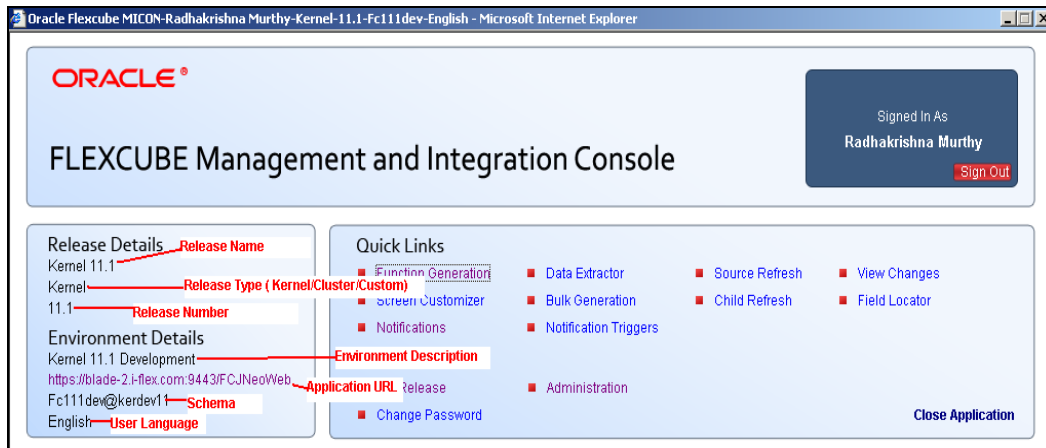
| *Release Code           | User Role     |
|-------------------------|---------------|
| FCUBSKERNEL11.0_FCCDEV  | Developer     |
| FCUBSKERNEL11.0_TESTING | Developer     |
| FCUBSKERNEL11.1         | Release Admin |

## 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





Installation and Setup Guide  
[May] [2019]  
Version 14.1.0.0.0

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