FLEXCUBE UBS Oracle GL MDB Adapter Installation

Oracle FLEXCUBE Universal Banking

Release 12.1.0.0.0

[October] [2015]

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1. Installation Steps

1.1 Prerequisite

✓ Ensure that the basic KERNEL Oracle GL Adapter Environment Setup is done.

[Please refer ADOGL_Installation.doc.]

1.2 Steps

A. Modify ejb-jar.xml

✓ Edit <KERNEL_INSTALL_DIR>/ADOGL_MDB/config/ejb-jar.xml. This XML file shall have a similar section as the one shown below,

```
<resource-ref>
    <res-ref-name>ADOGL_DS</res-ref-name>
    <res-type>javax.sql.XADataSource</res-type>
    <res-auth>Container</res-auth>
</resource-ref>
```

Here **ADOGL_DS** is the name of the FLEXCUBE UBS Oracle GL Adapter Database Layer Instance.

✓ For each **res-ref-name** create an XA DataSource in WebSphere Application Server

[**Refer:** WAS_ADOGL_DataSource_Creation.doc]

B. Configure FLEXCUBE UBS MDB Gateway Properties

Edit ***<KERNEL_INSTALL_DIR>/ADOGL_MDB/config/ADOGL_MDB_Prop.properties*** file to give appropriate values for the properties as described below,

1. ADOGL_EJB_JNDI_NAME: This must be set to the JNDI name of the Oracle GL Facade Bean

   e.g. ADOGL_EJB_JNDI_NAME=AQBridgeFacade

2. ADOGL_EJB_CTX_FACTORY: This property specifies which JNDI service provider is in use.

   e.g. ADOGL_EJB_CTX_FACTORY=com.ibm.websphere.naming.WsnInitialContextFactory

3. ADOGL_EJB_SERVER_URL: This property specifies the URL of the service provider.

   e.g. ADOGL_EJB_SERVER_URL=iiop://10.80.4.102:2809

4. MAX_CLOB_LEN: This property specifies the length till which oracle considers the incoming text as string. For Oracle 10g R2 Database, it should be 32512.

   e.g. MAX_CLOB_LEN=32512

5. DB_TIMEOUT: This is the timeout in SECONDS for which the FCUBS MDB Gateway will wait for PL/SQL to finish its processing. If database does not return within this timeout, the call to PL/SQL will be timed out.

6. MSG_SCHEMA_CON_POOLNAME: This property specifies the FLEXCUBE UBS Oracle GL Adapter Database Layer Instance name.

7. **ADOGL**_MDB_JMS_QCF: This property specifies the Queue Connection Factory of the Queue Manager on which the MDB is deployed.

   e.g. **ADOGL**_MDB_JMS_QCF=**ADOGL**_MDBQCF

8. **ADOGL**_MDB_JMS_QUEUE_NAME: This property specifies the Queue on which the MDB is listening.

   ADOGL_MDB_JMS_QUEUE_NAME=NOTIFY_DEST_QUEUE

9. **ADOGL**_MDB_JMS_DLQ_CF: This property specifies the Queue Connection Factory of the Queue Manager having Dead Letter Queue.

   e.g. **ADOGL**_MDB_JMS_DLQ_CF=**ADOGL**_MDBQCF

10. **ADOGL**_MDB_JMS_DLQ: This property specifies the Dead Letter Queue.

    e.g. **ADOGL**_MDB_JMS_DLQ=NOTIFY_DEST_QUEUE_DLQ

11. LOGGER_PATH: This property specifies the path of the logger property file. This file can be found at <KERNEL_INSTALL_DIR>/ADOGL_MDB/config.

    [NOTE: Give the logger path with forward slash (/).]

The ADOGL_MDB_Prop.properties will look similar as follows,

```
ADOGL_EJB_JNDI_NAME=AQBridgeFacade

ADOGL_EJB_CTX_FACTORY=com.ibm.websphere.naming.WsnInitialContextFactory

ADOGL_EJB_SERVER_URL=iiop://10.80.4.102:2809

MAX_CLOB_LEN=32512

DB_TIMEOUT=200

MSG_SCHEMA_CON_POOLNAME=ADOGL_DS

ADOGL_MDB_JMS_QCF=ADOGL_MDBQCF

ADOGL_MDB_JMS_QUEUE_NAME=NOTIFY_DEST_QUEUE
```

ADOGL_MDB_JMS_DLQ_CF=ADOGL_MDBQCF

ADOGL_MDB_JMS_DLQ=NOTIFY_DEST_QUEUE_DLQ

LOGGER_PATH=**D:/Kernel7.2/ADOGL_MDB/config/adogl_mdb_logger.cfg**

C. Configure logger parameters

Edit <KERNEL_INSTALL_DIR>/ADOGL_MDB/config/adogl_mdb_logger.cfg file to change the value of the property "AD.LOGGER.FPATH" to <KERNEL_INSTALL_DIR>/ADOGL_MDB/log/.

E.g. If the value of your <KERNEL_INSTALL_DIR> is D:/Kernel7.2, then the entry for this property will be,

AD.LOGGER.FPATH=D:/Kernel7.2/ADOGL_MDB/log/

[NOTE: Give AD.LOGGER.FPATH with forward slash (/) as file separator and remember to give a slash (/) at the end.]

D. Run the build file

- ✓ For WINDOWS
  - Go to the folder <KERNEL_INSTALL_DIR>\setup in the command prompt, type **"set_env"** and press enter.
  - Change directory to <KERNEL_INSTALL_DIR>\ADOGL_MDB\setup\WAS in the command prompt, type **"ws_ant"** and press enter.
- ✓ For UNIX
  - Go to the folder <KERNEL_INSTALL_DIR>/setup in the shell prompt, type **"set_env.sh"** and press enter.

- Change directory to <KERNEL_INSTALL_DIR>/ADOGL_MDB/setup/WAS in the shell prompt, type **"ws_ant"** and press enter.

[NOTE: Please make sure that you get a message BUILD SUCCESSFUL after compilation.]

E. Deploy the MDB in WebSphere Application Server (WAS)

1. Stop the application server.

If the application server is already running, then stop the application server as follows:

✓ For Windows

- Go to the <APP_SERVER_HOME>/bin directory in the command prompt, type **stopServer.bat server1** and press enter.

2. Start the application server.

✓ For Windows

- Go to the < APP_SERVER_HOME>/bin .i.e. the application server installation directory in the command prompt, type **startServer.bat server1** and press enter.

- This will start the server. Ensure that you get no error during start up. If the server start up is proper we shall get the following screen.

```
C:\Program Files\IBM\WebSphere\AppServer\bin>startServer.bat server1
ADMU0116I: Tool information is being logged in file C:\Program
           Files\IBM\WebSphere\AppServer\profiles\default\logs\server1\startServer.log
ADMU0128I: Starting tool with the default profile
ADMU3100I: Reading configuration for server: server1
ADMU3200I: Server launched. Waiting for initialization status.
ADMU3000I: Server server1 open for e-business; process id is 1852
```

3. **Open the administrative console of the application server**

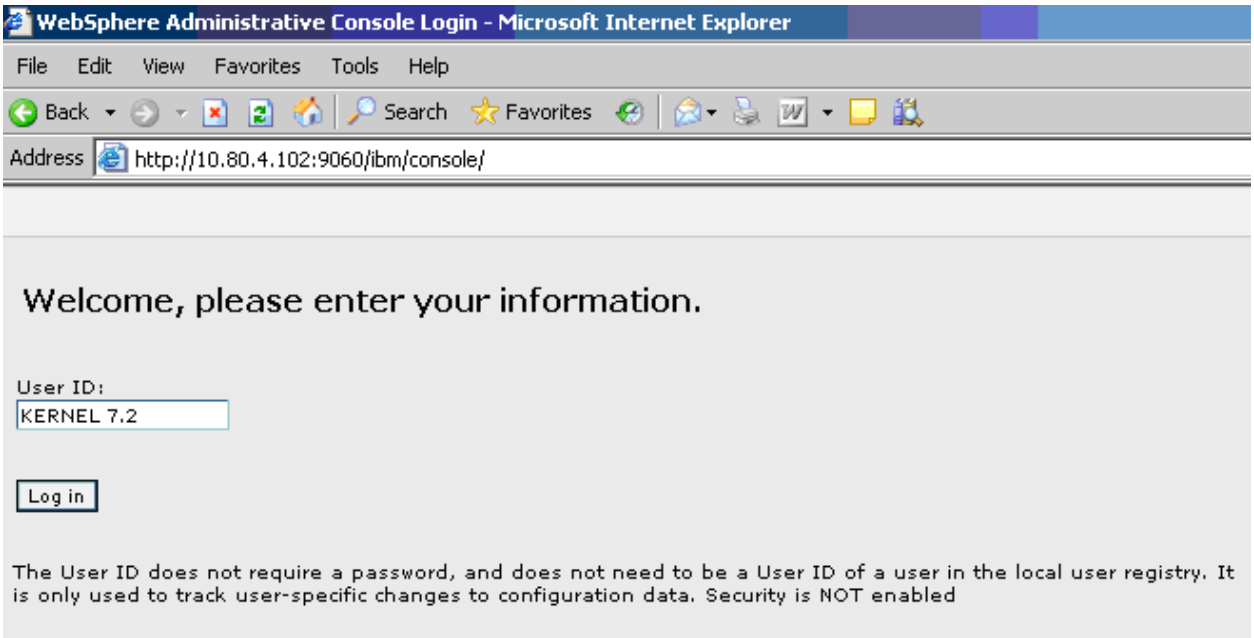
✓ Open an internet browser and type the WAS Admin Console URL Address of the server.

e.g. http://10.80.4.102:9060/ibm/console

Where, 10.80.4.102 is the machine IP Address on which WAS is running.

✓ Enter a user id for launching the WAS Admin Console window.

The user id can be any name e.g.: KERNEL 7.2



4. **For each "res-ref-name" in ejb-jar.xml create an XA DataSource in WebSphere Application Server**

[**Refer:** WAS_ADOGL_DataSource_Creation.doc]

5. **Create an XA QueueConnectionFactory with the name ADOGL_MDBQCF**

[**Refer:** WAS_ADOGL_DataSource_Creation.doc]

6. **Create WebSphere MQ Queue Destinations with the following names**

   a. NOTIFY_DEST_QUEUE_DLQ

   b. MDB_QUEUE_RESPONSE

   c. MDB_QUEUE_DLQ

   [**Refer:** WAS_ADOGL_WebSphereMQ_Installation.doc]

7. **Create Message Listener with the name OGL_MDB_LISTENER with Destination as NOTIFY_DEST_QUEUE and QueueConnectionFactory as ADOGL_MDBQCF**

   [**Refer:** WAS_ADOGL_WebSphereMQ_Installation.doc]

8. **Stop and re-start the WebSphere Application Server**

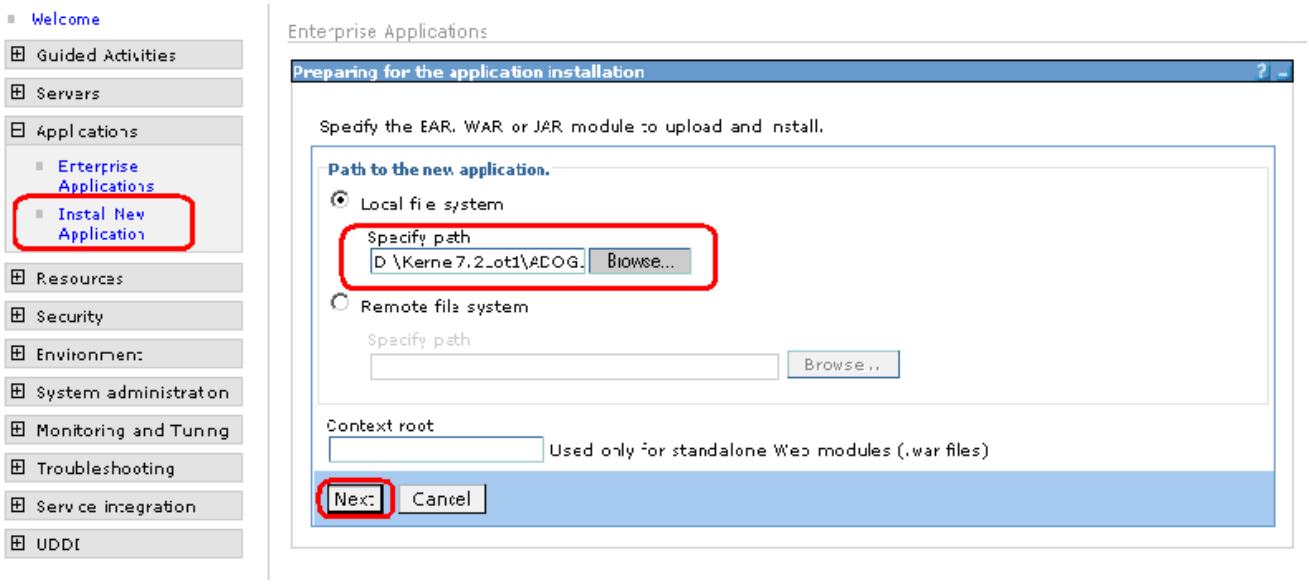
   [**Refer:** Steps 1 and 2 above.]

9. **Deploying ADOGL_MDB_Bean.ear**

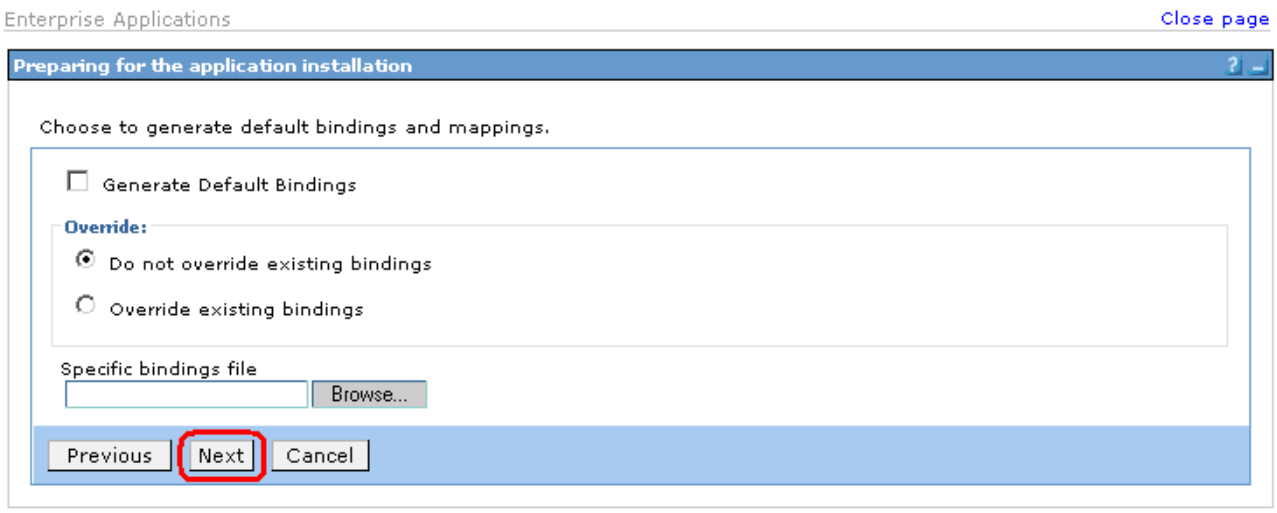
✓ Click on **Applications -> Install New Application**.

✓ Following screen will be displayed. Specify the local path of the enterprise archive file

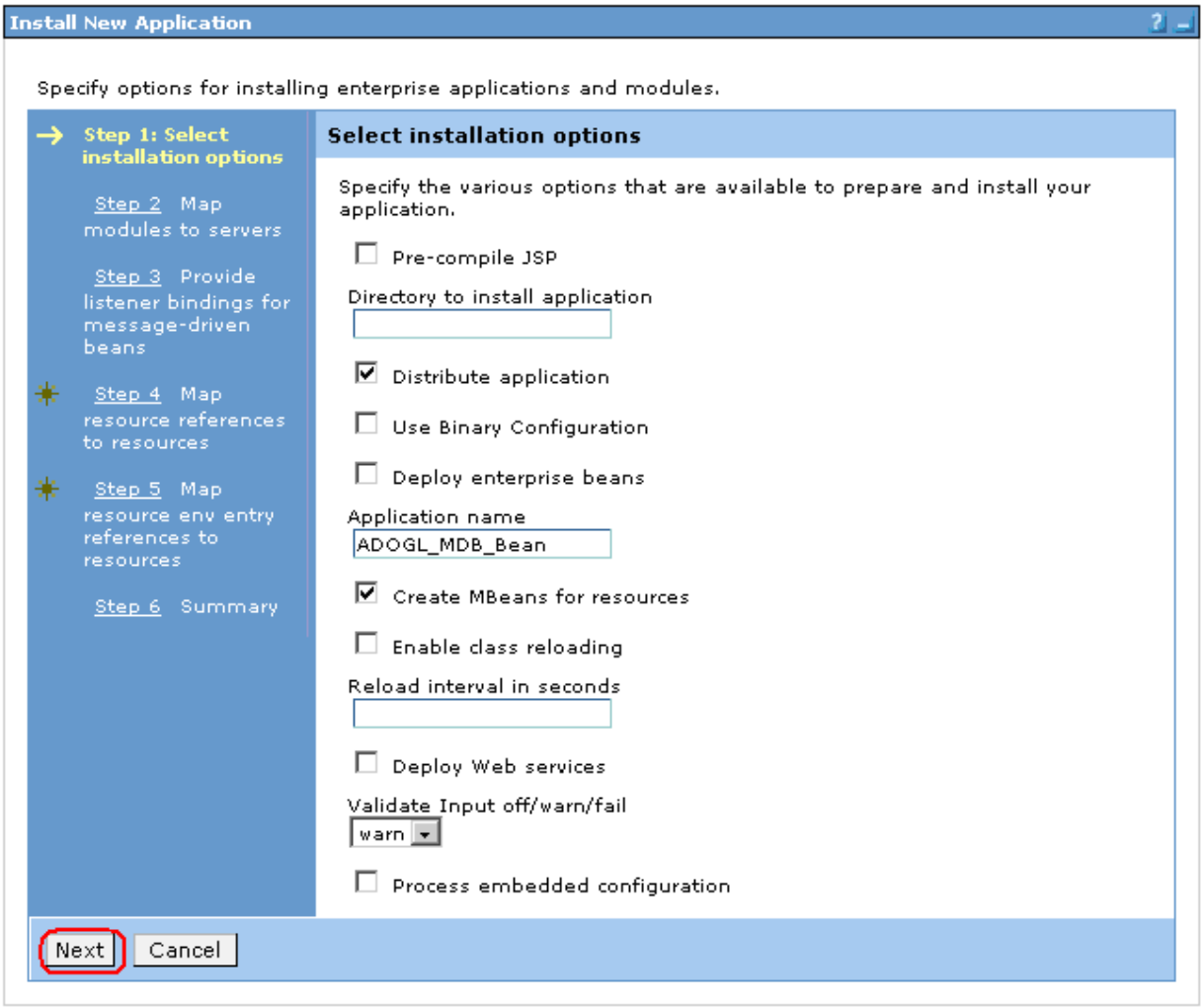
(ie <KERNEL_INSTALL_DIR>/ADOGL_MDB/build/ADOGL_MDB_Bean.ear) and click on **Next**.



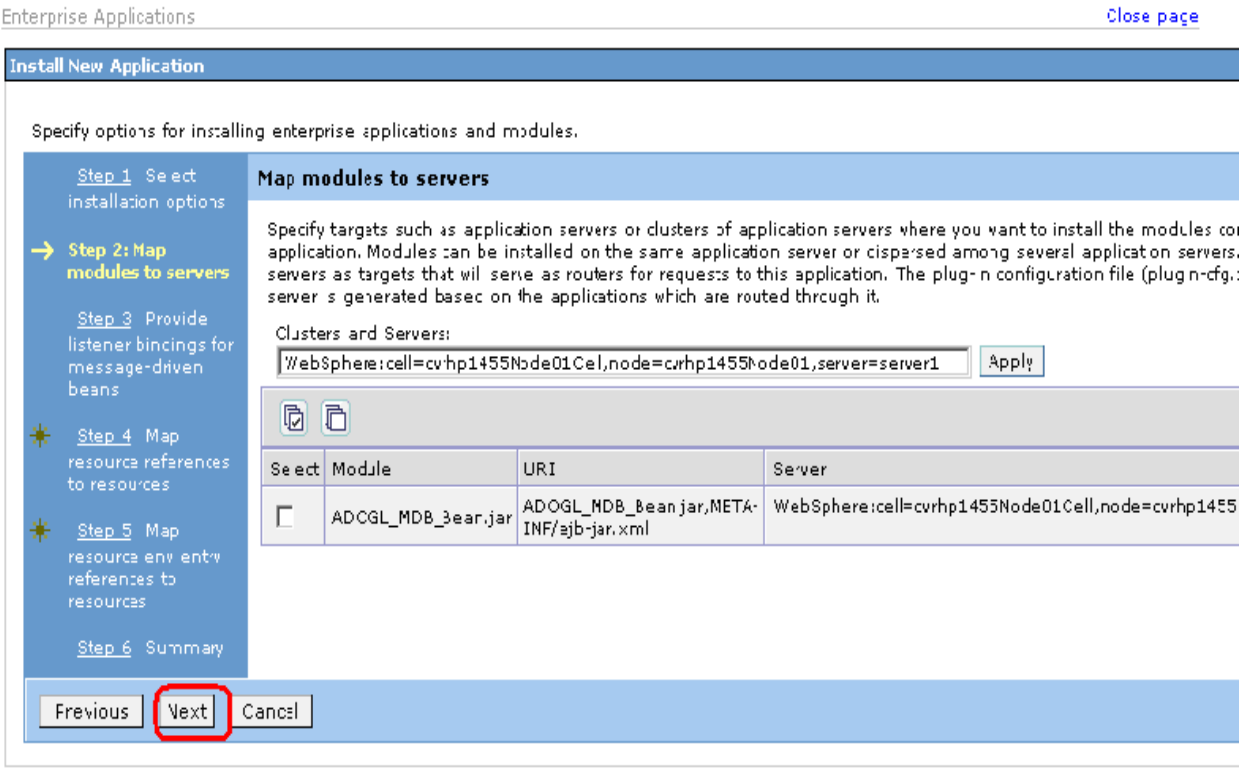
10. Following screen will be displayed. Click on Next.



11. Following screen will be displayed. Click on Next.

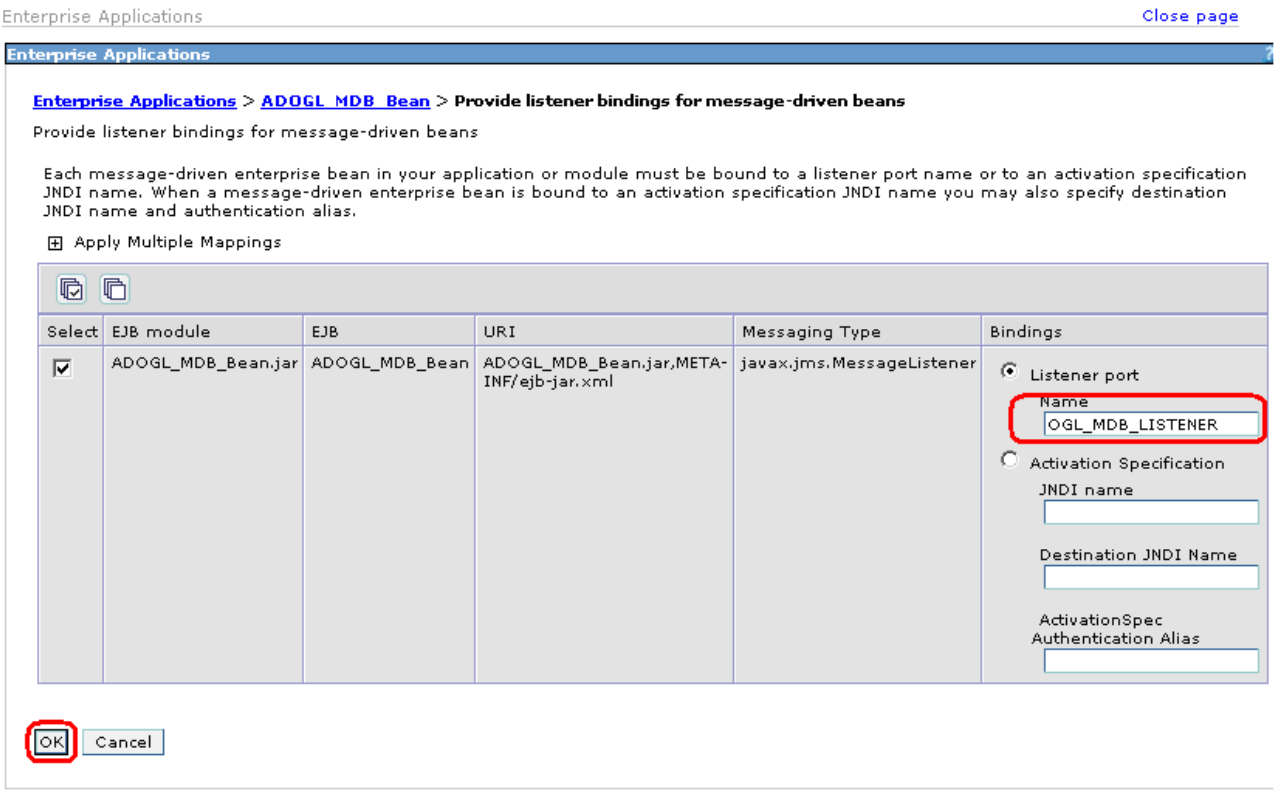


12. Following screen will be displayed. Click on Next.



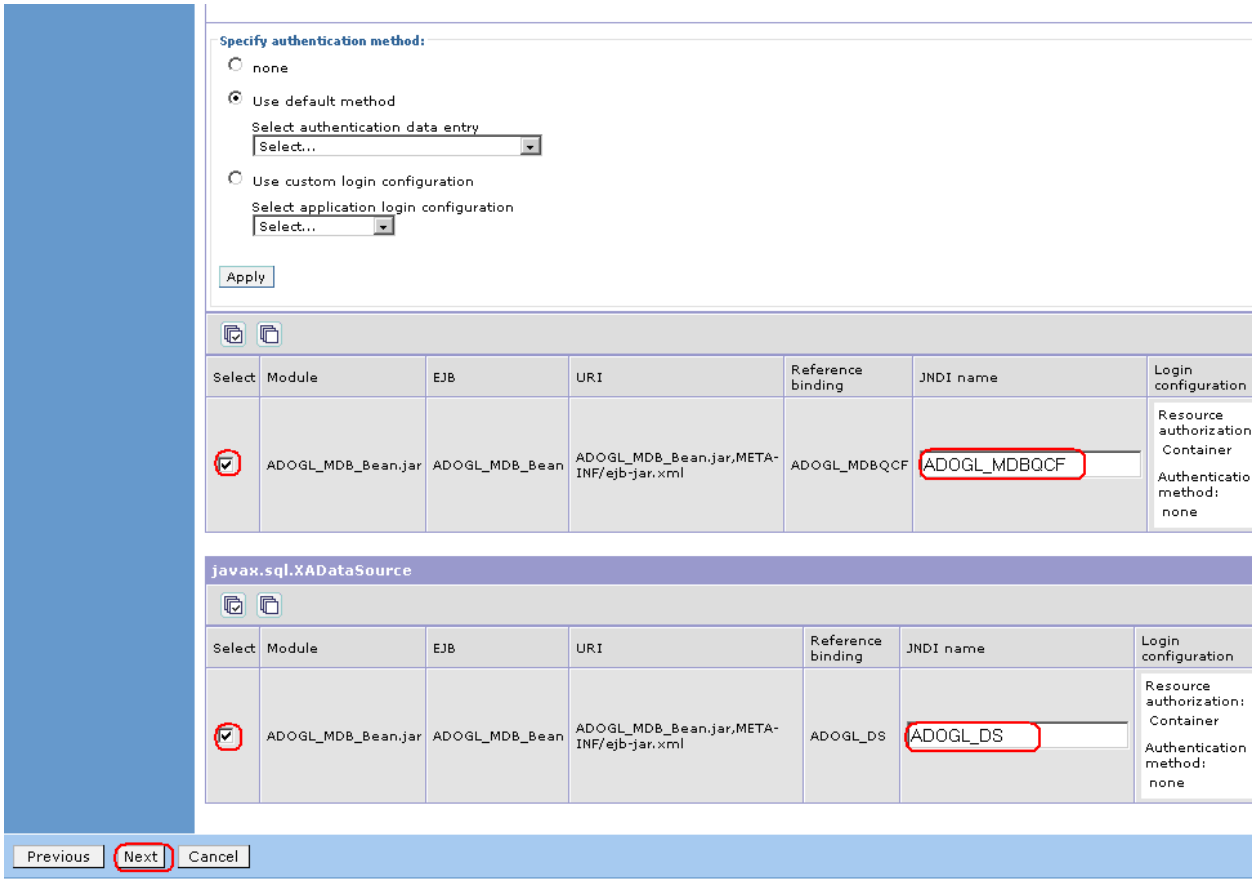
13. **Following screen will be displayed.**

    Give the Listener Name as provided in step 7 and click on Next.

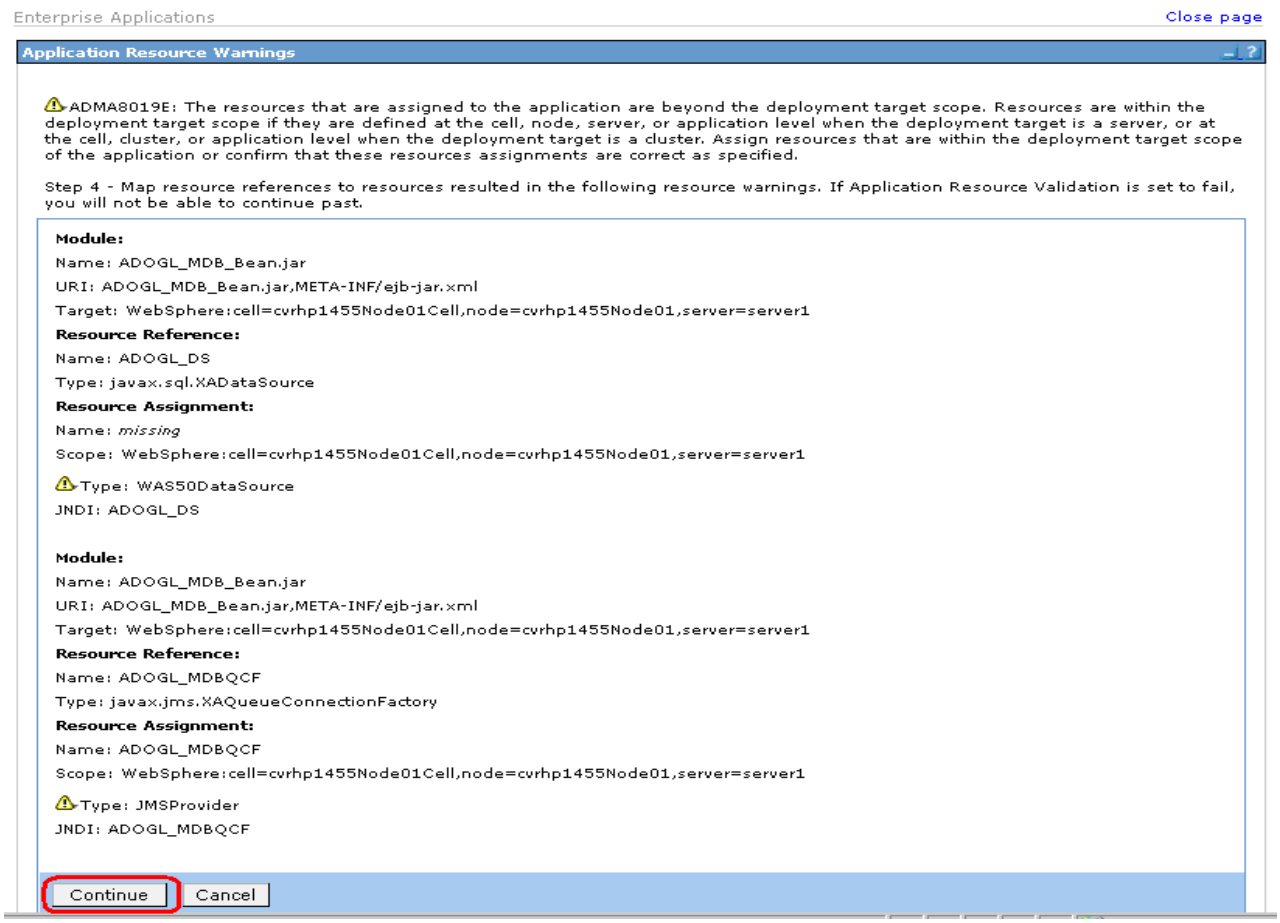


14. Following screen will be displayed.

Give the mapping for Queue Connection Factory and Data Source that has been created in above steps 6 and 7.

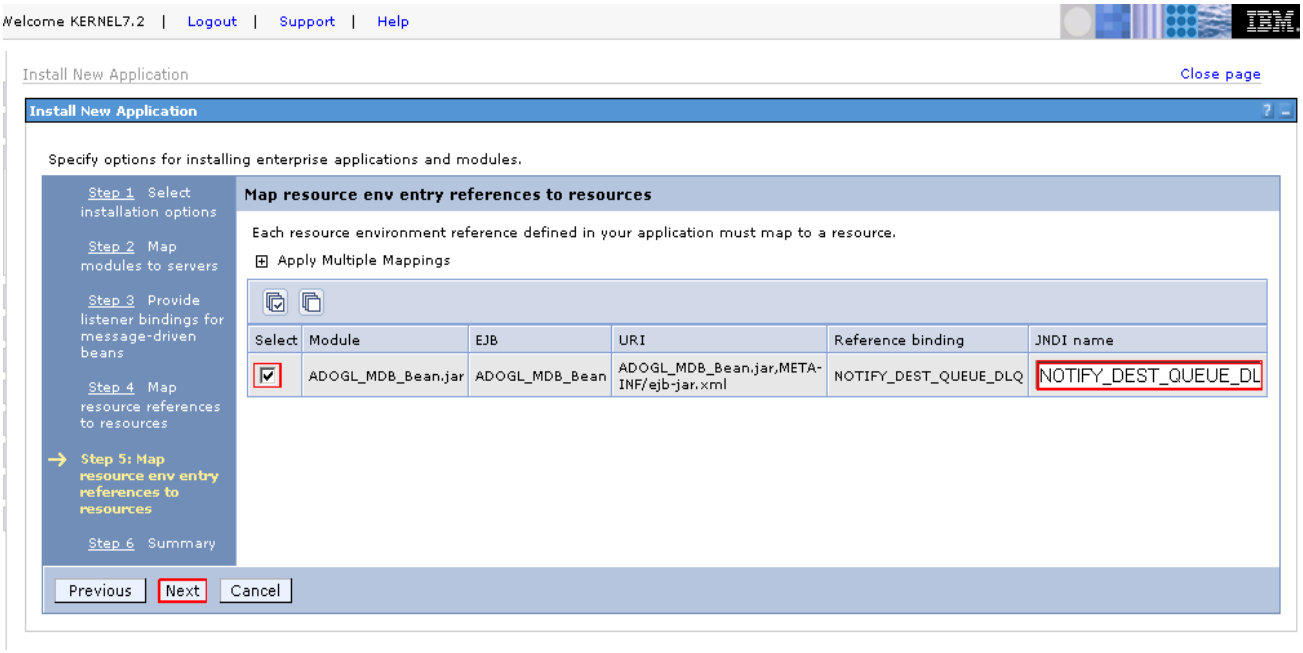


15. Following screen will be displayed. Click on Continue.

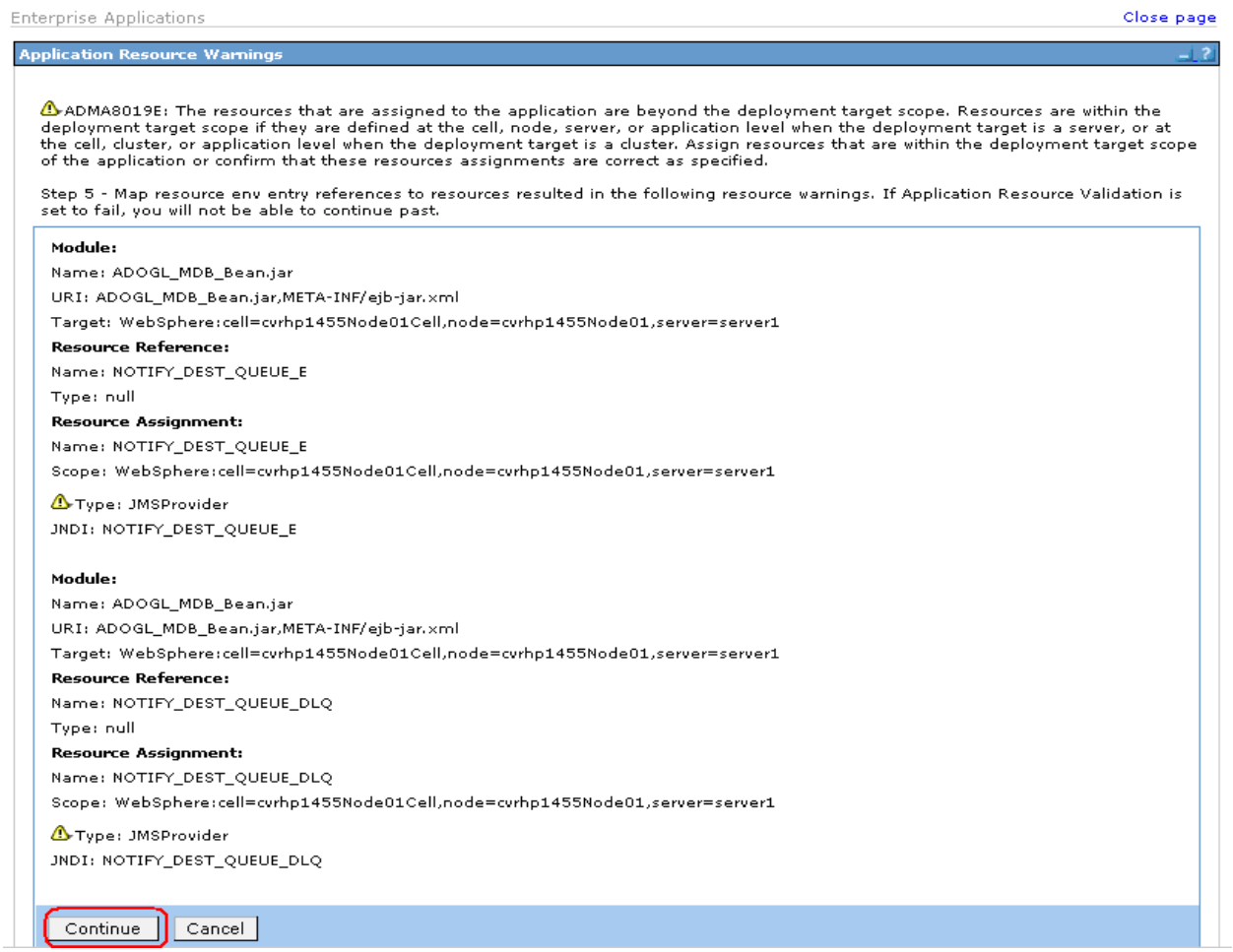


16. Following screen will be displayed.

✓ Give the JNDI name mapping for Queues same as their respective reference Bindings names.

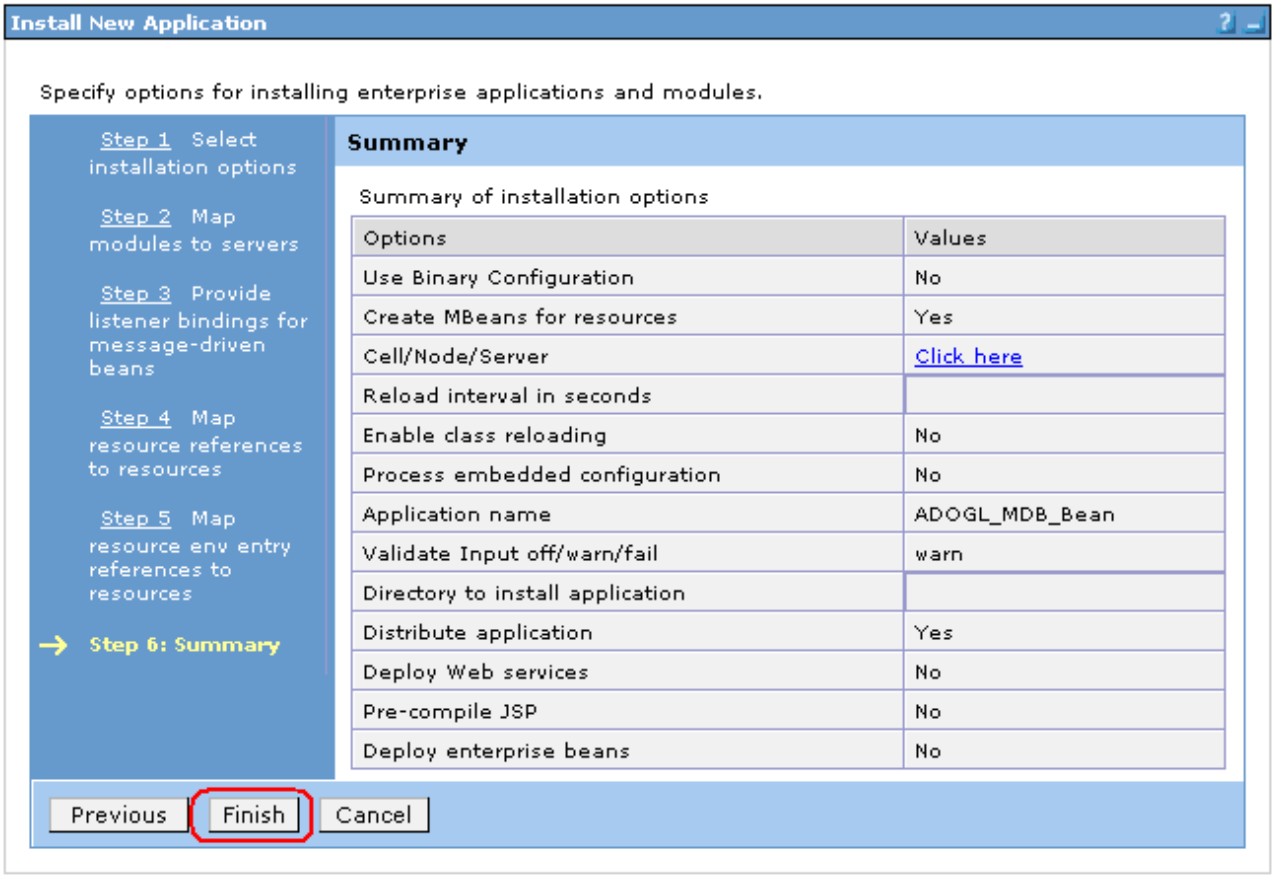


17. Following screen will be displayed. Click on Continue.



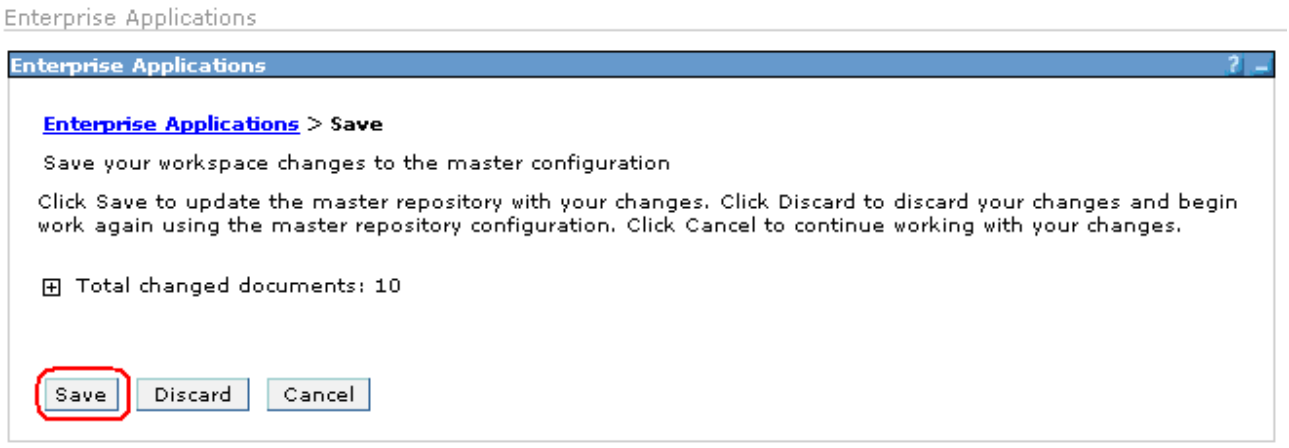
18. Following screen will be displayed. Click on Finish.

[NOTE: This may take a few minutes.]



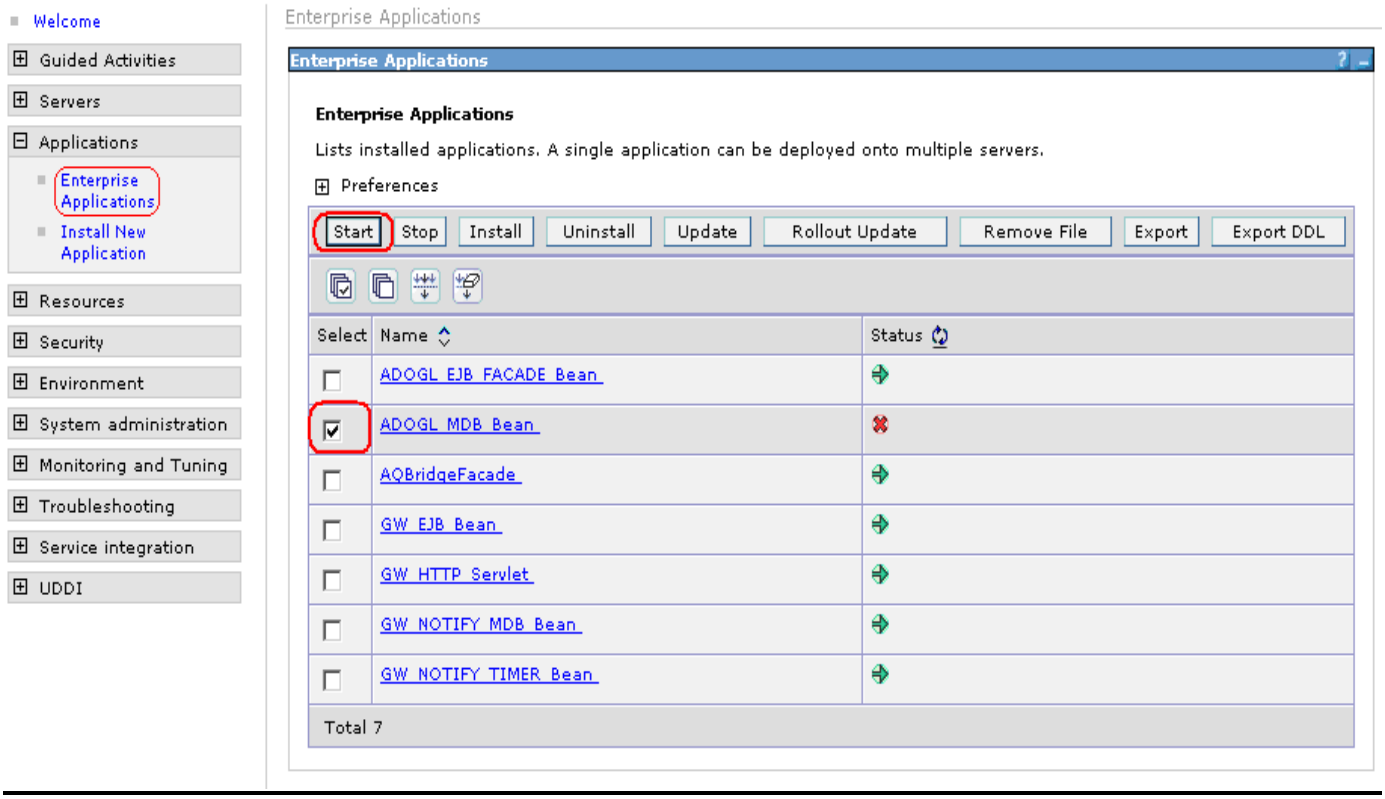
19. Following screen will be displayed. Click on "Save to Master Configuration".

20. Following screen will be displayed. Click on Save.

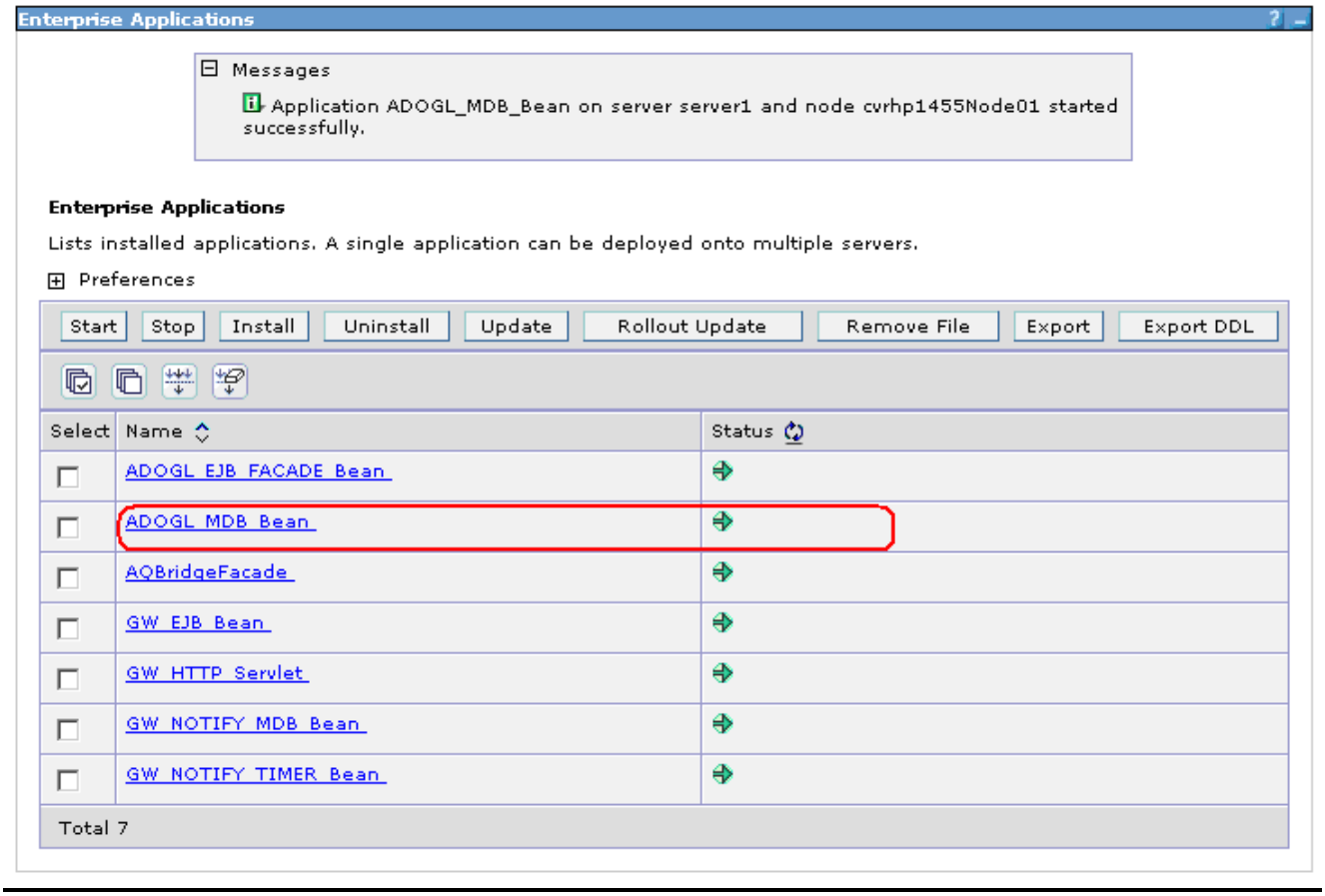


21. Browse to Application -> Enterprise Applications.

- ✓ The deployed ADOGL_MDB_Bean will be displayed on the screen.
- ✓ Click the check box beside it and click on **Start**.



22. Following screen will be displayed with a green arrow as the status indicating that the deployed ADOGL_MDB_Bean is running.


Enterprise Applications
Messages
Application ADOGL_MDB_Bean on server server1 and node cvrhp1455Node01 started successfully.
Enterprise Applications
Lists installed applications. A single application can be deployed onto multiple servers.
Preferences
Start
Stop
Install
Uninstall
Update
Rollout Update
Remove File
Export
Export DDL
Select
Name
Status
ADOGL_EJB_FACADE_Bean
ADOGL_MDB_Bean
AQBridgeFacade
GW_EJB_Bean
GW_HTTP_Servlet
GW_NOTIFY_MDB_Bean
GW_NOTIFY_TIMER_Bean
Total 7

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