FLEXCUBE UBS Inbound Application 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 Gateway MDB Environment Setup is done.

[Please refer GW_MDB_Installation.doc.]

✓ Ensure that the basic Adapter Environment Setup is done.

[Please refer SSIAD_Installation_FCUBSV.UM8.0.0.0.0.0.0.doc.]

1.2 Steps

A. Configure FCC – FC SSI MH Integration Adapter Properties

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

1. XSD_PATH: This property specifies the path where the AckFile.XSD is stored.

   e.g. XSD_PATH=<KERNEL_INSTALL_DIR>/SSIAD_EJB_ACK/XSD/

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

2. SSIAD_ACK_XSD: This property specifies the name of the XSD against which SSIAD Envelope validation is done for acknowledgement messages.

   e.g. SSIAD_ACK_XSD = “AckFile.XSD”.

3. SSIAD_ERR_XSD: This property specifies the name of the XSD against which

SSIAD Envelope validation is done for error messages.

e.g. SSIAD_ERR_XSD ="ErrorInfo.xsd".

4. IS_XSD_VAL_REQD - This property specifies whether XSD validation should be done or not. To enable XSD validation specify "Y" and to make is disable specify "N".

5. IB_EJB_SERVER_URL: This property specifies protocol, server url and the port number on which WAS server is running “protocol:// server URL:port” format

   e.g. IB_EJB_SERVER_URL = "iiop://10.80.161.40:2809

6. IB_EJB_CTX_FACTORY: This property define context factory for WAS server used by WebSphere Application Server applications to perform JNDI operations

   e.g. IB_EJB_CTX_FACTORY =”com.ibm.websphere.naming.WsnInitialContextFactory”

7. IB_EJB_SECURITY_PRINCIPAL: specifying the identity of the principal for authenticating the caller to the service if required otherwise can be left blank.

8. IB_EJB_SECURITY_CREDENTIALS: specifies the credentials of the principal for authenticating the caller to the service if required otherwise can be left blank.

9. IB_EJB_CALL_TYPE: This property specifies the call type of EJB. This must always be REMOTE.

10. IB_EJB_LOCAL_CALL: This must always be LOCAL.

11. IB_EJB_REMOTE_CALL: This must always be REMOTE.

12. FCUBS_DB_SERVER_IP: This property defines FCUBS Database server IP address.

13. FCUBS_DB_SERVER_UID: This property defines user id for FCUBS Database server.

14. FCUBS_DB_SERVER_PWD: This property defines password for FCUBS Database server.

15. FCUBS_DB_PAYLOAD_PATH: This property defines payload file path on FCUBS database server.

16. FCUBS_DB_DEAD_LETTER_PATH: This property defines dead letter file path on FCUBS database server.

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

17. SSIAD_EJB_MH_IP: This property defines SSI MH server IP address.

18. SSIAD_EJB_MH_USERID: This property defines user id for SSI MH server.

19. SSIAD_EJB_MH_PASSWORD: This property defines password for SSI MH server.

20. SSIAD_EJB_MH_ENVELOPE: This property defines envelope file path on SSI MH Server.

21. SSIAD_MH_PAYLOAD_PATH: This property defines payload file path on SSI MH server.

22. SSIAD_EJB_MH_ACKNOWLEDGE: This property defines acknowledgement file path on SSI MH server.

23. SSIAD_EJB_JMS_ICF: This property defines InitialContextFactory that is responsible for getting and instance of the initial context. It is also responsible for looking up JMS topics and queues.

24. SSIAD_EJB_JMS_PROVIDER_URL: This property is used for external JNDI lookups.
eg. provider URL in <host>[:<port>] format.
Specify whole path of the binding file that has been created for Gateway MDB installation.

25. SSIAD_EJB_JMS_SECURITY_ PRINCIPAL: This property defines the name of the entity (user) that is authenticated when the connection to the JMS provider is established.
The Security Principal and the Security Credentials are included in the naming context

when the connection factory is looked up from the naming.

26. SSIAD_EJB_JMS_SECURITY_CREDENTIALS: This property defines the credentials (typically a password) that authenticate the security principal to the JMS provider.

27. SSIAD_EJB_JMS_QCF: This property specifies the Queue Connection Factory of the Queue Manager to which Gateway MDB is associated.

    e.g. SSIAD_EJB_JMS_QCF =MDBQCF

28. SSIAD_EJB_JMS_QUEUE_NAME: This property specifies the Queue on which the Gateway MDB is listening.

    SSIAD_EJB_JMS_QUEUE_NAME =MDB_QUEUE

29. SSIAD_EJB_JMS_Q_ACKNOWLEDGE: This property specifies the mode of acknowledgement to be given to the MOM by the application. The possible values are CLIENT_ACKNOWLEDGE, DUPS_OK_ACKNOWLEDGE and AUTO_ACKNOWLEDGE.

30. SSIAD_EJB_JMS_Q_TRANSACTION: This property specifies whether the message sent/received has to be transacted or not. The value is false.

31. SSIAD_EJB_JMS_Q_DELIVERY_OPT: The message delivery option represents whether the message will be delivered with the Delivery mode as PERSISTENT or NON-PERSISTENT. Possible values are 1 and 2. 1 represents delivery mode to be

NON-PRESISTENT while 2 represents the delivery mode to be PRESISTENT.

32. SSIAD_EJB_JMS_Q_TIME_TO_LIVE: This is the maximum time in milliseconds for which the outgoing/reply message will remain in the queue before expiring, if not already picked up by the external system application. Value 0 ensures that message will NEVER expire.

33. SSIAD_EJB_JMS_Q_PRIORITY: This is the priority of the outgoing/reply message.

    Priority value can be ranging from 0 to 9, 9 being highest priority and 0 being lowest priority. Priorities 0-4 are gradations of normal priority and priorities 5-9 are gradations of expedited priority.

34. XSL_PATH: This property specifies the path where the SSIAD_EJB_ACK_XSL.XSL is stored.

    eg. XSL_PATH =”<KERNEL_INSTALL_DIR>/SSIAD_EJB_ACK/XSL/”

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

35. SSIAD_EJB_ACK_XSL: This property specifies the acknowledgement XSL file name.

    eg. SSIAD_EJB_ACK_XSL = SSIAD_EJB_ACK_XSL.xsl

36. SSIAD_EJB_ERR_XSL: This property specifies the error XSL file name.

    e.g. SSIAD_EJB_ERR_XSL = SSIAD_EJB_ERR_XSL.xsl

37. EJB_OBJ_PATH: This property specifies the path to store ejb reference.

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

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

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

39. MSG_REPOLL_SLEEP_TIME: This property specifies interval of polling in milliseconds

The SSIAD_EJB_ACK_Prop.xml will look similar as follows,

```
<add key="XSD_PATH" value="D:/KernelSSI_8.0/SSIAD_EJB_ACK/XSD/"/>
<add key="SSIAD_ACK_XSD" value="AckFile.xsd"/>
<add key="SSIAD_ERR_XSD" value="ErrorInfo.xsd"/>
<add key="IS_XSD_VAL_REQD" value="Y"/>
<add key="IB_EJB_JNDI_NAME" value="SSIAD_EJB_ACK_Bean"/>
<add key="IB_EJB_SERVER_URL" value="iiop://10.80.161.40:2809"/>
<add key="IB_EJB_CTX_FACTORY"
    value="com.ibm.websphere.naming.WsnInitialContextFactory"/>
<add key="IB_EJB_SECURITY_PRINCIPAL" value=""/>
<add key="IB_EJB_SECURITY_CREDENTIALS" value=""/>
<add key="IB_EJB_CALL_TYPE" value="REMOTE"/>
```

```
<add key="IB_EJB_LOCAL_CALL" value="LOCAL"/>

<add key="IB_EJB_REMOTE_CALL" value="REMOTE"/>

<!--

<add key="MAX_CLOB_LEN" value="32512"/>

<add key="DB_TIMEOUT" value="20"/>

-->

                    <!-- FTP details -->

<add key="FCUBS_DB_SERVER_IP" value="10.80.50.227"/>

<add key="FCUBS_DB_SERVER_UID" value="kerneldev"/>

<add key="FCUBS_DB_SERVER_PWD" value="kerneldev"/>

<add key="FCUBS_DB_PAYLOAD_PATH" value="users/TestDes/"/>

<add key="FCUBS_DB_ACK_DEAD_LETTER_PATH" value="C:/Documents and Settings/Default

          User/ejback/ACK_ERR_DLF/"/>

 <add key="SSIAD_EJB_MH_IP" value="10.80.161.40"/>

 <add key="SSIAD_EJB_MH_USERID" value="rashmish"/>

 <add key="SSIAD_EJB_MH_PASSWORD" value="Password123"/>

 <add key="SSIAD_MH_ACK_FOLEDER" value="ack/"/>

<!--

<add key="SSIAD_EJB_MH_ENVELOPE" value="Line1/CLIENT/REQ/"/>

 <add key="SSIAD_MH_PAYLOAD_PATH" value="Line1/CLIENT/FILEACT/PAYLOAD/PUT/"/>

-->

                    <!-- JMS details -->

<add key="SSIAD_EJB_JMS_ICF" value="com.sun.jndi.fscontext.RefFSContextFactory"/>
```

```
<add key="SSIAD_EJB_JMS_PROVIDER_URL" value="file:/D:/bindings"/>

<add key="SSIAD_EJB_JMS_SECURITY_PRINCIPAL" value=""/>

<add key="SSIAD_EJB_JMS_SECURITY_CREDENTIALS" value=""/>

<add key="SSIAD_EJB_JMS_QCF" value="MDBQCF"/>

<add key="SSIAD_EJB_JMS_QUEUE_NAME" value="MDB_QUEUE"/>

<add key="SSIAD_EJB_JMS_Q_ACKNOWLEDGE" value="AUTO_ACKNOWLEDGE"/>

<add key="SSIAD_EJB_JMS_Q_TRANSACTION" value="false"/>

<add key="SSIAD_EJB_JMS_Q_DELIVERY_OPT" value="2"/>

<add key="SSIAD_EJB_JMS_Q_TIME_TO_LIVE" value="500000"/>

<add key="SSIAD_EJB_JMS_Q_PRIORITY" value="7"/>

                    <!-- XSL -->

<add key="XSL_PATH" value="D:/KernelSSI_8.0/SSIAD_EJB_ACK/XSL/"/>

<add key="SSIAD_EJB_ACK_XSL" value="SSIAD_EJB_ACK_XSL.xsl"/>

<add key="SSIAD_EJB_ERR_XSL" value="SSIAD_EJB_ERR_XSL.xsl"/>

                  <!-- Client -->

<add key="EJB_OBJ_PATH" value="C:/Documents and Settings/Default User/ejback/obj"/>

                   <!-- ISCELLANEOUS PROPERTIES -->

<add key="LOGGER_PATH"

         value="D:/KernelSSI_8.0/SSIAD_EJB_ACK/config/ssiad_ejb_ack_logger.xml"/>

                  <!-- Kernel 8.0 Lot 1 ITR1 SFR#01 <Start> -->

<add key="MSG_REPOLL_SLEEP_TIME" value="1000"/>
```

B. Configure logger parameters

- Edit <KERNEL_INSTALL_DIR>/SSIAD_EJB_ACK/config/ssiad_ejb_ack_logger.xml file to change the value of the property “SSIAD.LOGGER.FPATH” to <KERNEL_INSTALL_DIR>/SSIAD_EJB_ACK/log/.

e.g. If the value of your <KERNEL_INSTALL_DIR> is D:/Kernel8.0, then the entry for this property will be,

```
<add key="SSIAD.LOGGER.FPATH" value="D:/Kernel8.0/SSIAD_EJB_ACK/log/"/>
```

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

C. 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>\SSIAD_EJB\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>/SSIAD_EJB/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.]

D. Deploy the EJB 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.

✓ For UNIX

- Go to the <APP_SERVER_HOME>/bin directory in the command prompt, type . ./**stopServer.sh 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.

✓ For UNIX

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

- This will start the server. Ensure that you get no error during start up.

3. Open the administrative console of the application server

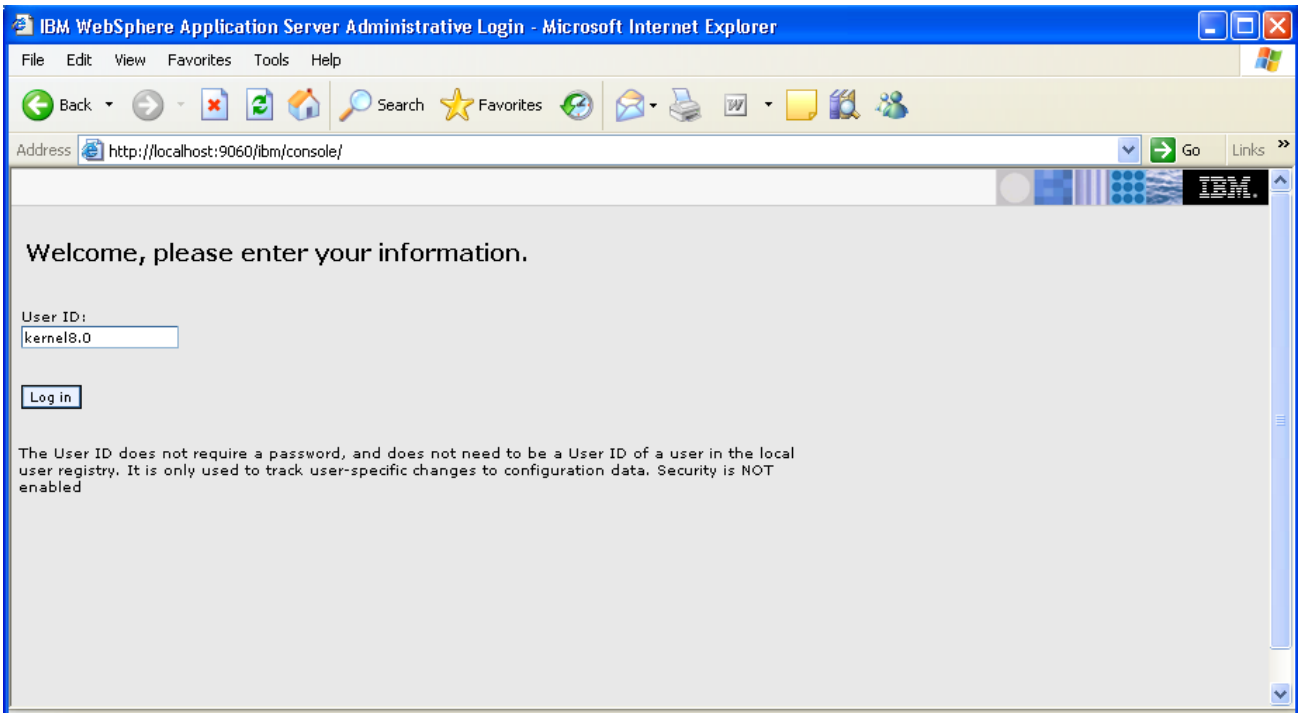
✓ Open an internet browser and type the WAS Admin Console URL Address of the server.

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 8.0

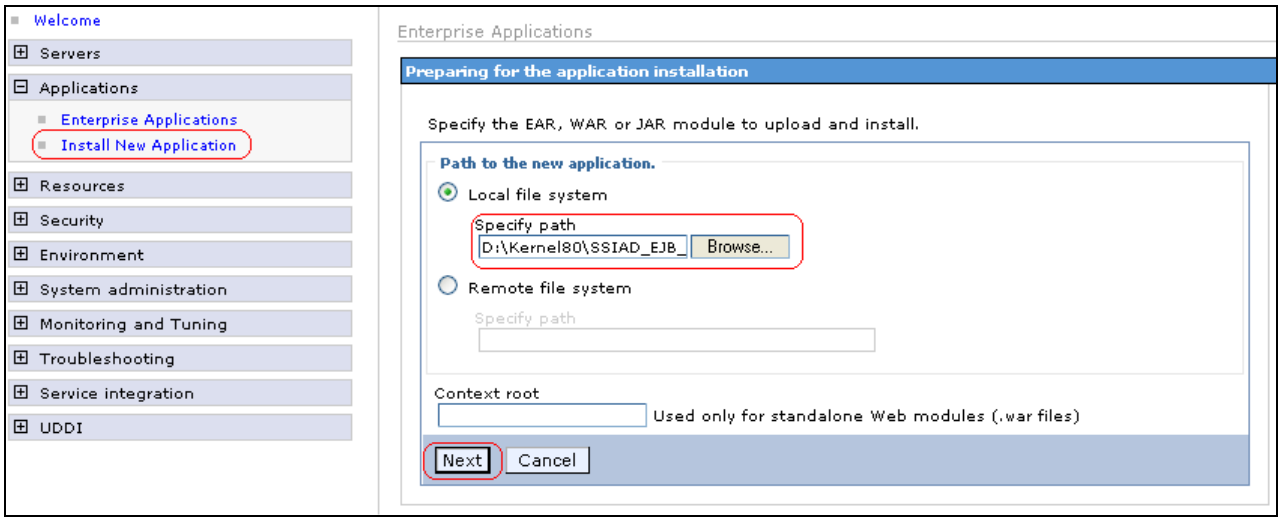


4. Deploying SSIAD_EJB_Bean.ear

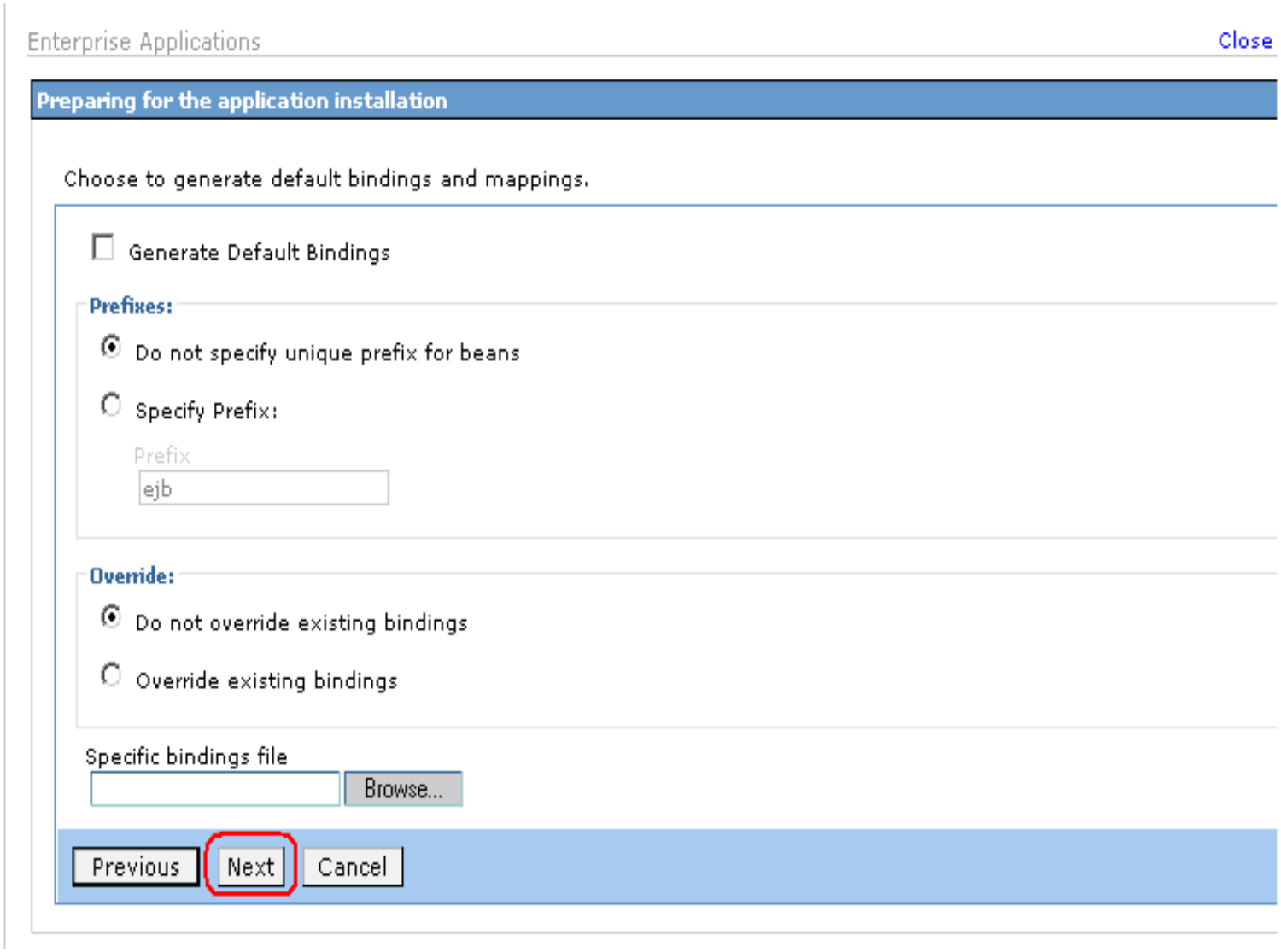
✓ Click on **Applications -> Install New Application**.

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

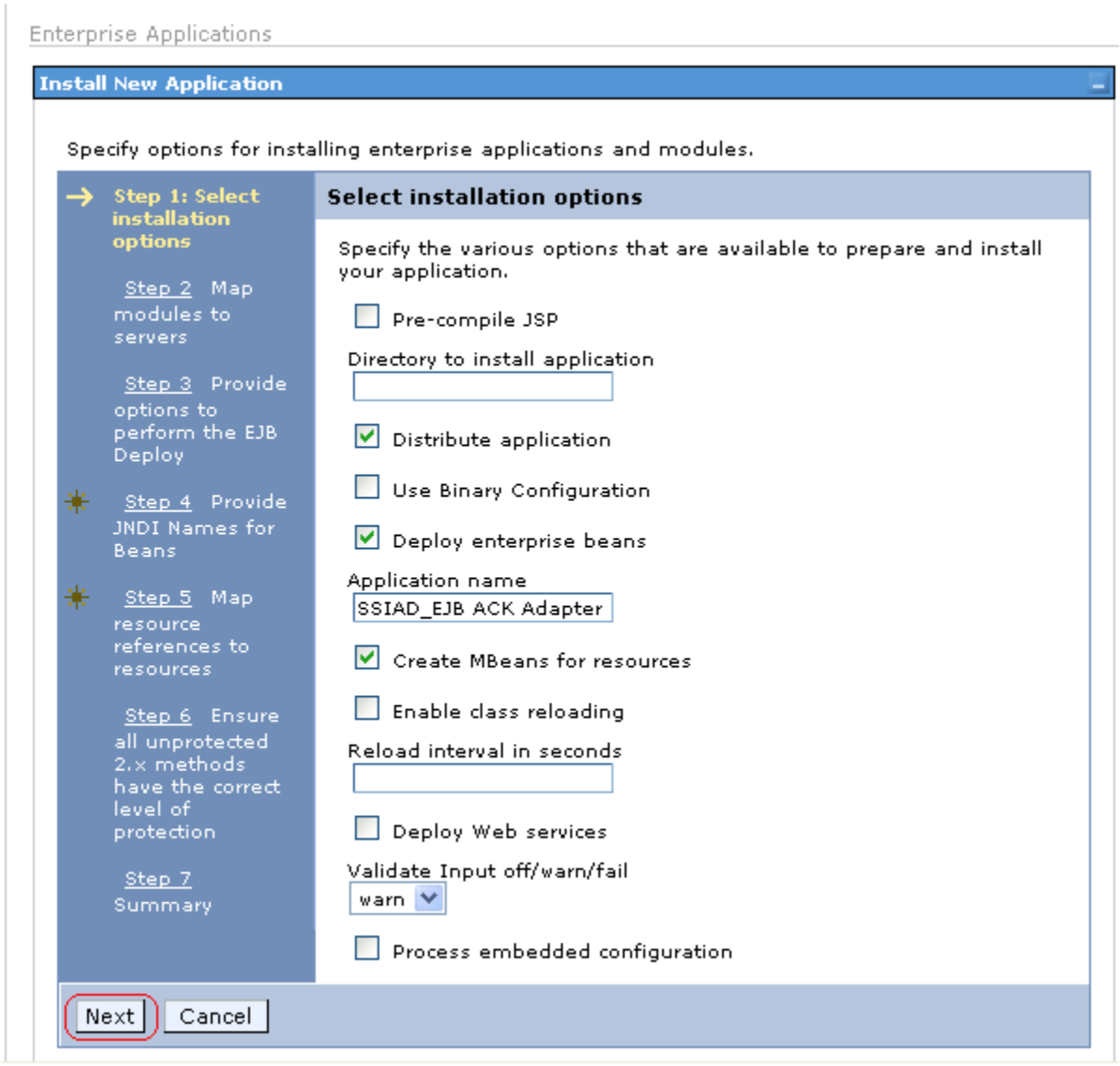
(i.e. <KERNEL_INSTALL_DIR>/SSIAD_EJB_ACK/build/SSIAD_EJB_ACK_Bean.ear) and click on Next.


Welcome
Servers
Applications
Enterprise Applications
Install New Application
Resources
Security
Environment
System administration
Monitoring and Tuning
Troubleshooting
Service integration
UDDI
Enterprise Applications
Preparing for the application installation
Specify the EAR, WAR or JAR module to upload and install.
Path to the new application.
Local file system
Specify path
D:\Kernel80\SSIAD_EJB_
Browse...
Remote file system
Specify path
Context root
Used only for standalone Web modules (.war files)
Next
Cancel

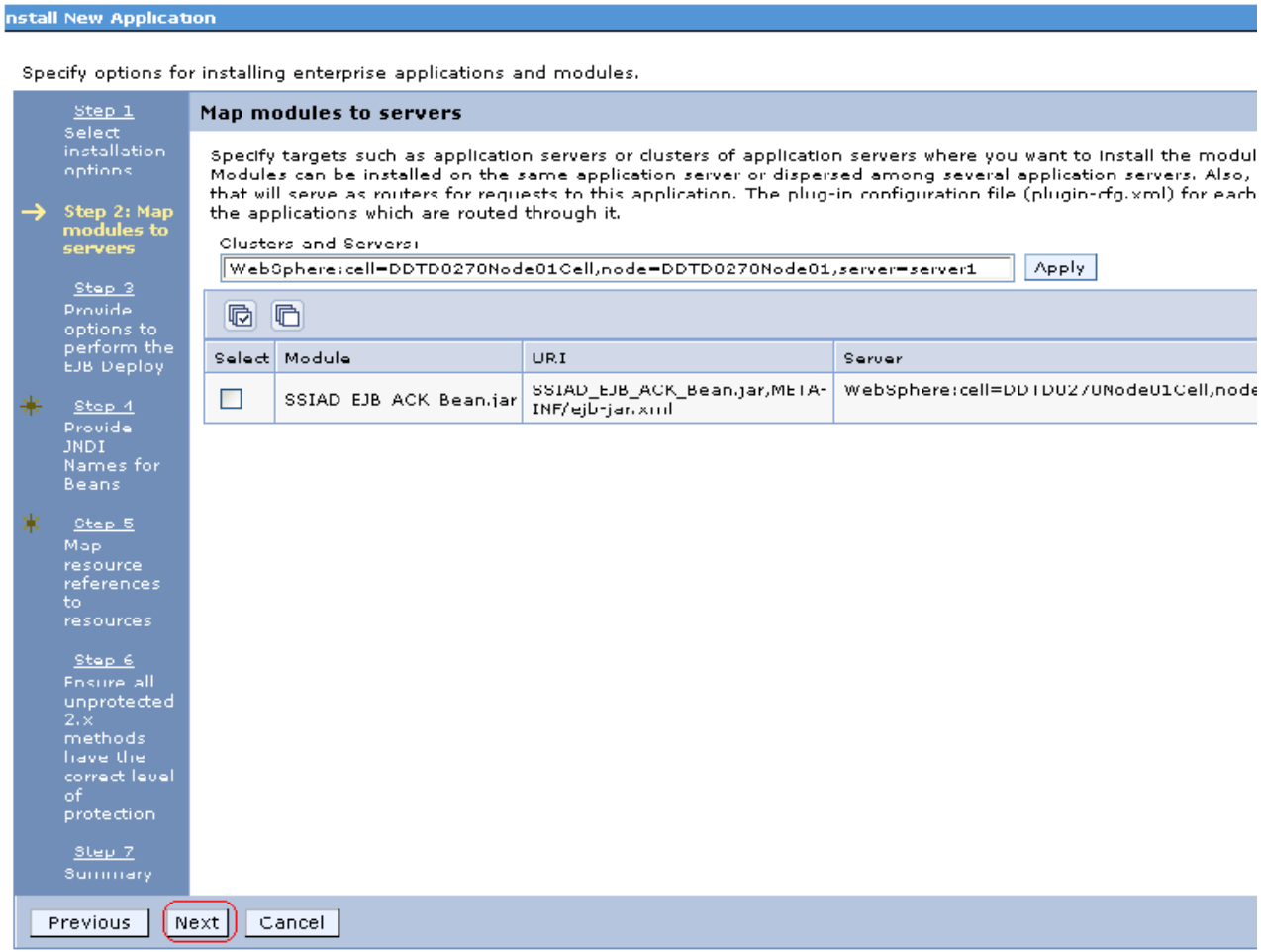
5. Following screen will be displayed. Click on Next.



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

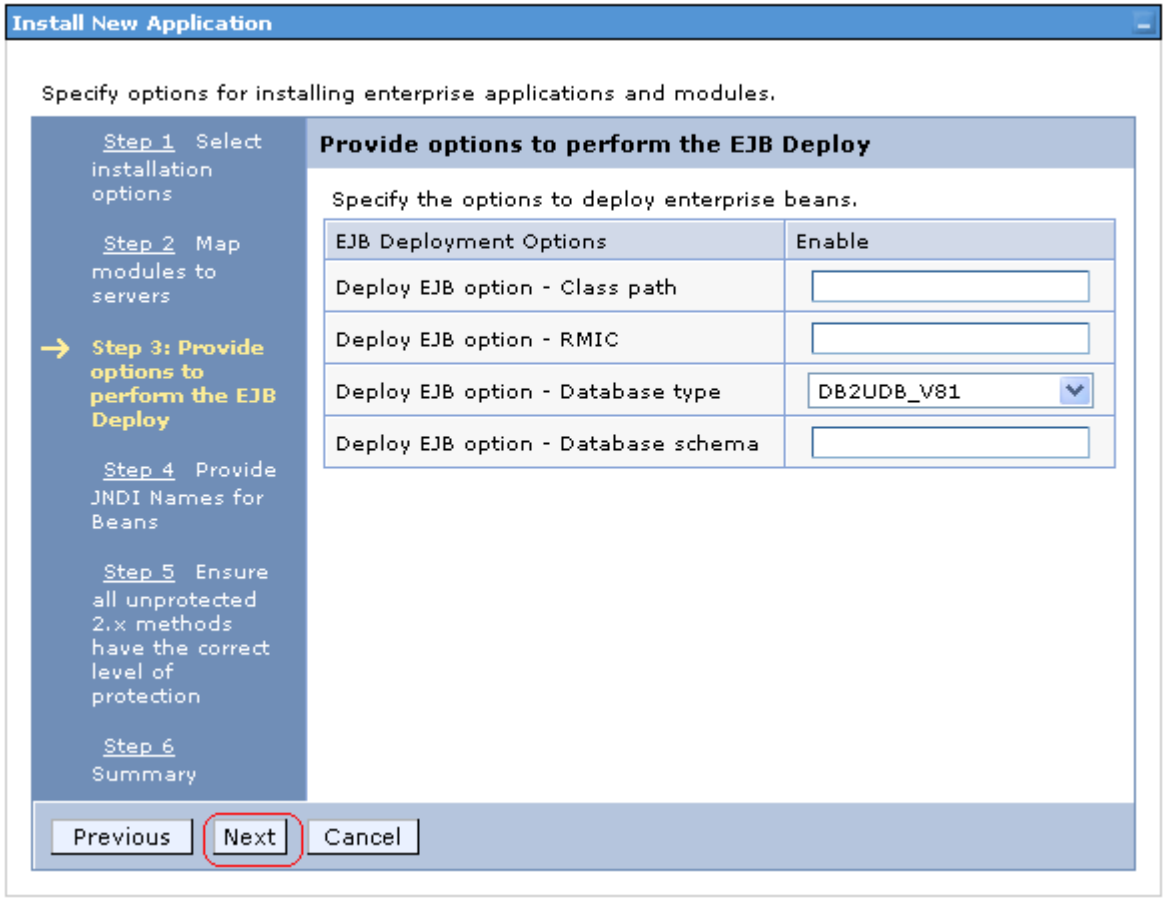

Enterprise Applications
Install New Application
Specify options for installing enterprise applications and modules.
Step 1: Select installation options
Step 2 Map modules to servers
Step 3 Provide options to perform the EJB Deploy
Step 4 Provide JNDI Names for Beans
Step 5 Map resource references to resources
Step 6 Ensure all unprotected 2.x methods have the correct level of protection
Step 7 Summary
Select installation options
Specify the various options that are available to prepare and install your application.
Pre-compile JSP
Directory to install application
Distribute application
Use Binary Configuration
Deploy enterprise beans
Application name
SSIAD_EJB ACK Adapter
Create MBeans for resources
Enable class reloading
Reload interval in seconds
Deploy Web services
Validate Input off/warn/fail
warn
Process embedded configuration
Next
Cancel

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



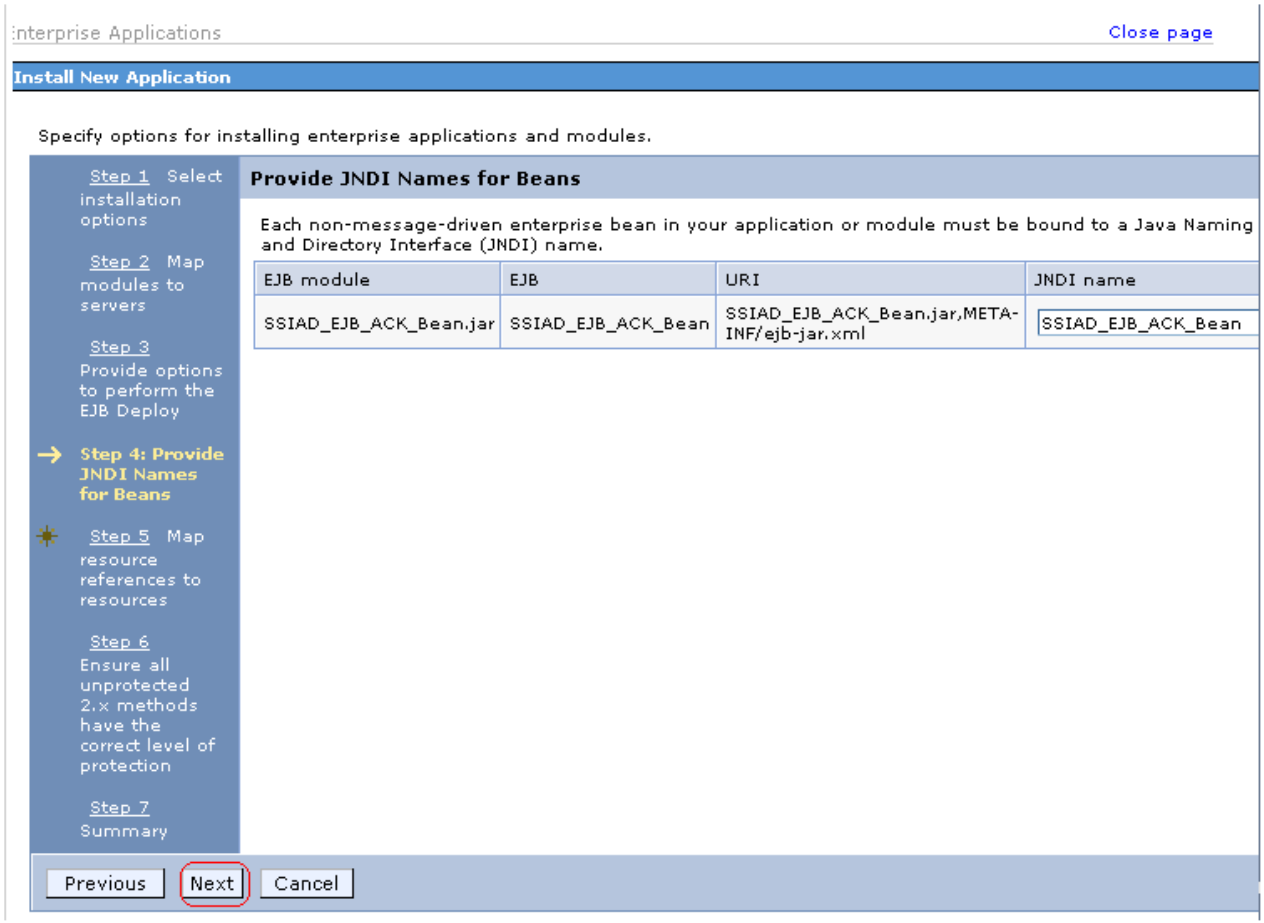
8. Following screen will be displayed.

click on NEXT.


Install New Application
Specify options for installing enterprise applications and modules.
Step 1 Select installation options
Step 2 Map modules to servers
Step 3: Provide options to perform the EJB Deploy
Step 4 Provide JNDI Names for Beans
Step 5 Ensure all unprotected 2.x methods have the correct level of protection
Step 6 Summary
Provide options to perform the EJB Deploy
Specify the options to deploy enterprise beans.
EJB Deployment Options
Enable
Deploy EJB option - Class path
Deploy EJB option - RMIC
Deploy EJB option - Database type
DB2UDB_V81
Deploy EJB option - Database schema
Previous
Next
Cancel

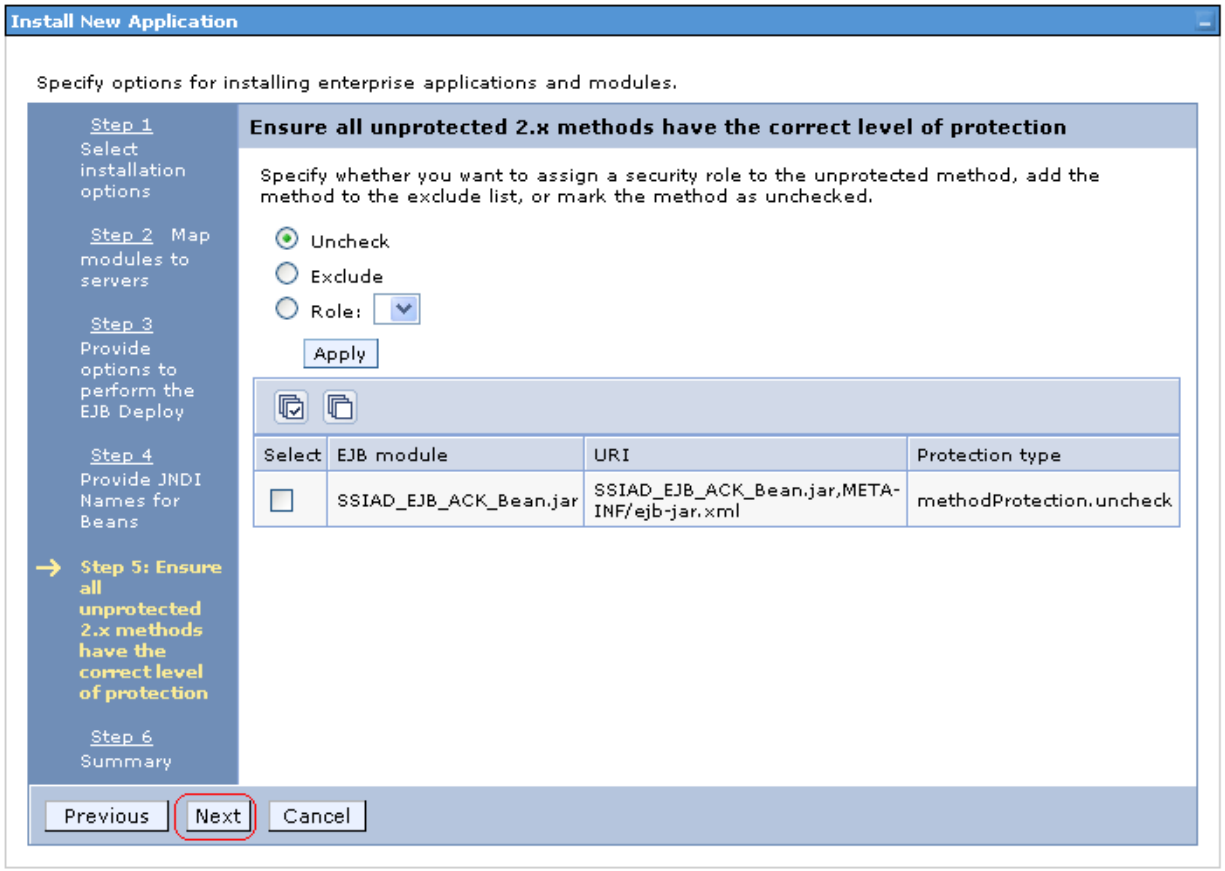
9. Following screen will be displayed.

Specify the JNDI name of the EJB Bean i.e. “SSIAD_EJB_ACK_Bean” and click on NEXT.



10. Following screen will be displayed.

Click on NEXT.

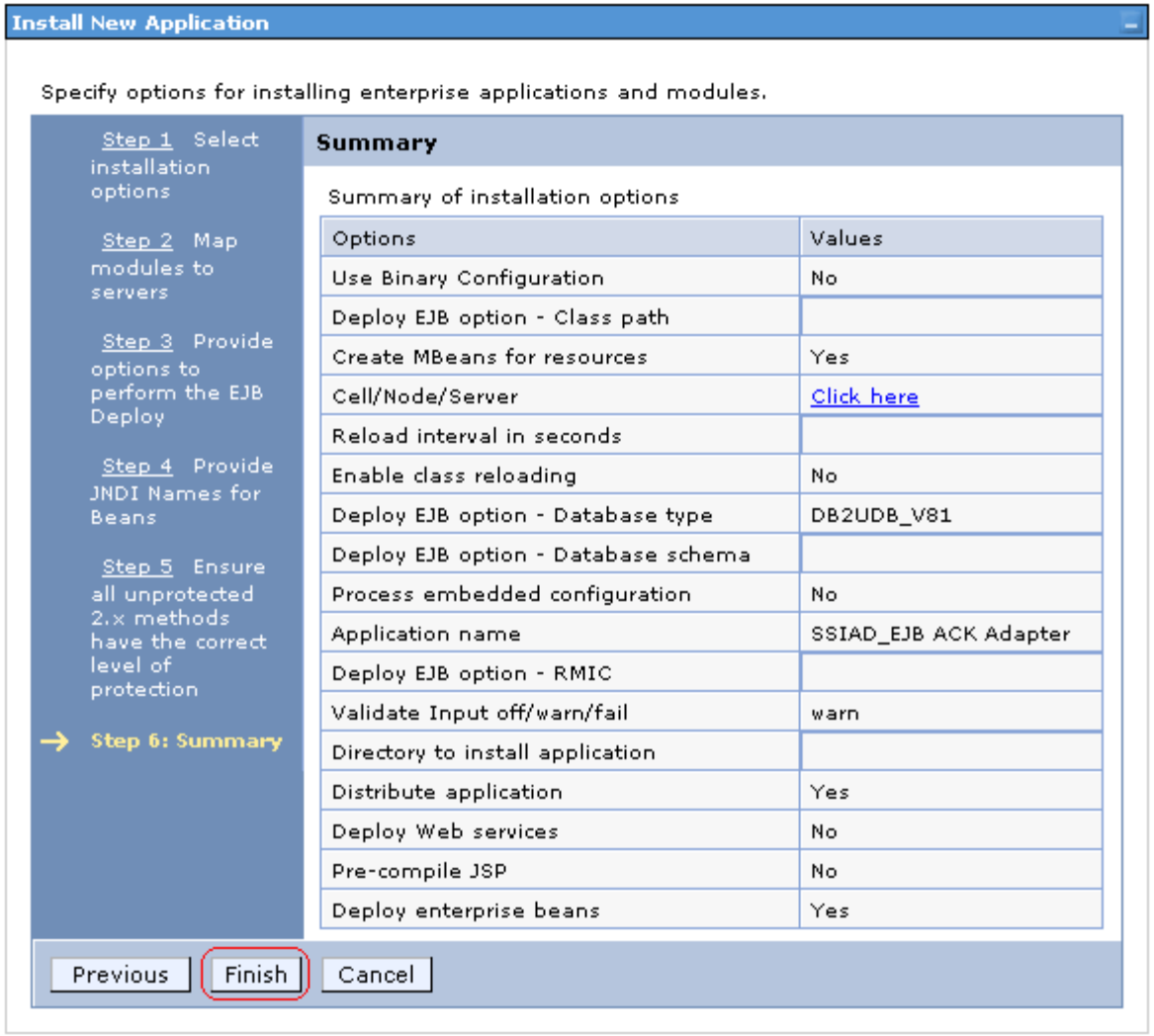


11. **Following screen will be displayed.**

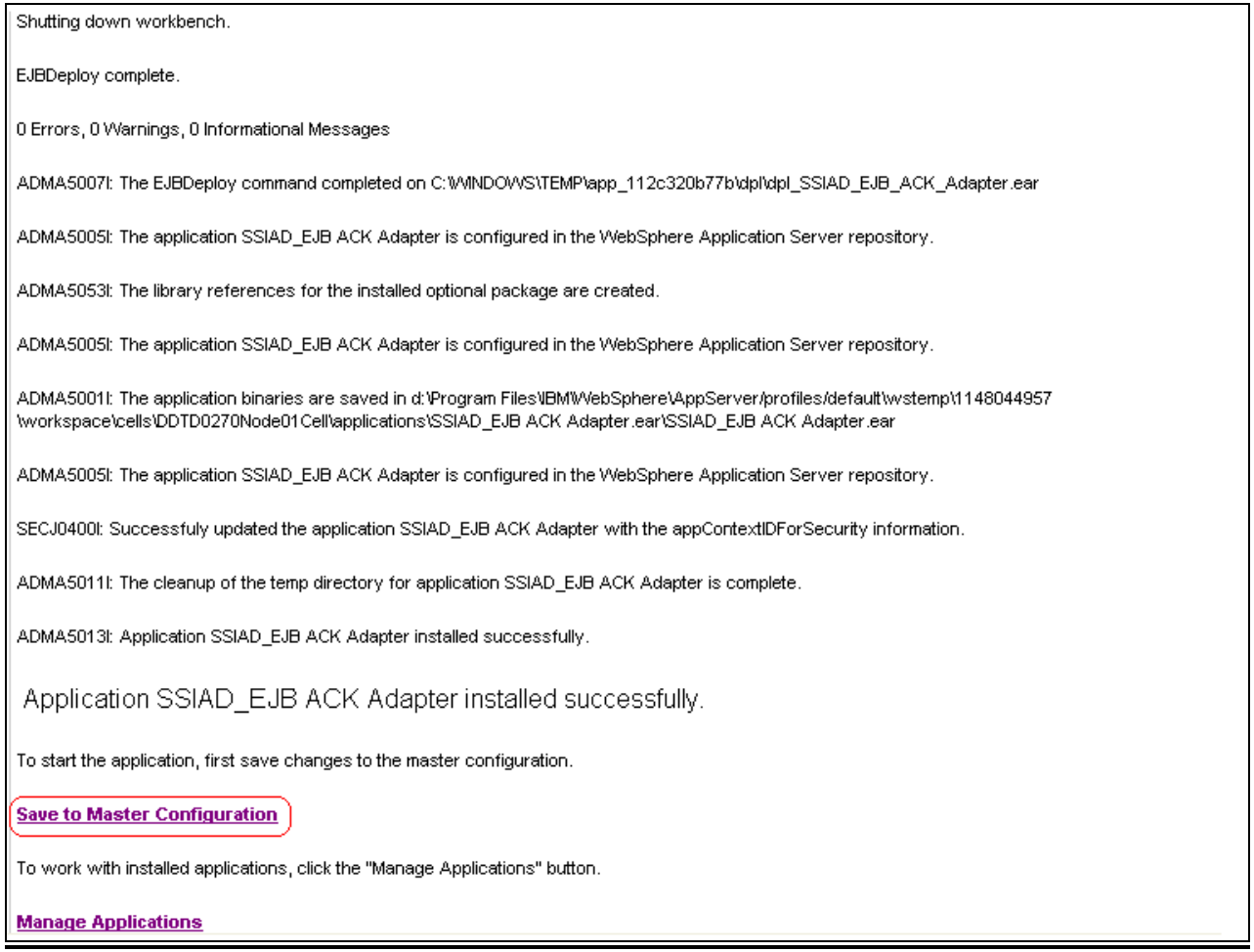
    Click on Finish.

    [NOTE: This may take a few minutes.]

    .


Install New Application
Specify options for installing enterprise applications and modules.
Step 1 Select installation options
Step 2 Map modules to servers
Step 3 Provide options to perform the EJB Deploy
Step 4 Provide JNDI Names for Beans
Step 5 Ensure all unprotected 2.x methods have the correct level of protection
Step 6: Summary
Summary
Summary of installation options
Options
Values
Use Binary Configuration
No
Deploy EJB option - Class path
Create MBeans for resources
Yes
Cell/Node/Server
Click here
Reload interval in seconds
Enable class reloading
No
Deploy EJB option - Database type
DB2UDB_V81
Deploy EJB option - Database schema
Process embedded configuration
No
Application name
SSIAD_EJB ACK Adapter
Deploy EJB option - RMIC
Validate Input off/warn/fail
warn
Directory to install application
Distribute application
Yes
Deploy Web services
No
Pre-compile JSP
No
Deploy enterprise beans
Yes
Previous
Finish
Cancel

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



Shutting down workbench.

EJBDeploy complete.

0 Errors, 0 Warnings, 0 Informational Messages

ADMA5007I: The EJBDeploy command completed on C:\WINDOWS\TEMP\app_112c320b77b\dpl\dpl_SSIAD_EJB_ACK_Adapter.ear

ADMA5005I: The application SSIAD_EJB ACK Adapter is configured in the WebSphere Application Server repository.

ADMA5053I: The library references for the installed optional package are created.

ADMA5005I: The application SSIAD_EJB ACK Adapter is configured in the WebSphere Application Server repository.

ADMA5001I: The application binaries are saved in d:\Program Files\IBM\WebSphere\AppServer/profiles/default\wstemp\1148044957
\workspace\cells\DDTD0270Node01Cell\applications\SSIAD_EJB ACK Adapter.ear\SSIAD_EJB ACK Adapter.ear

ADMA5005I: The application SSIAD_EJB ACK Adapter is configured in the WebSphere Application Server repository.

SECJ0400I: Successfuly updated the application SSIAD_EJB ACK Adapter with the appContextIDForSecurity information.

ADMA5011I: The cleanup of the temp directory for application SSIAD_EJB ACK Adapter is complete.

ADMA5013I: Application SSIAD_EJB ACK Adapter installed successfully.

Application SSIAD_EJB ACK Adapter installed successfully.

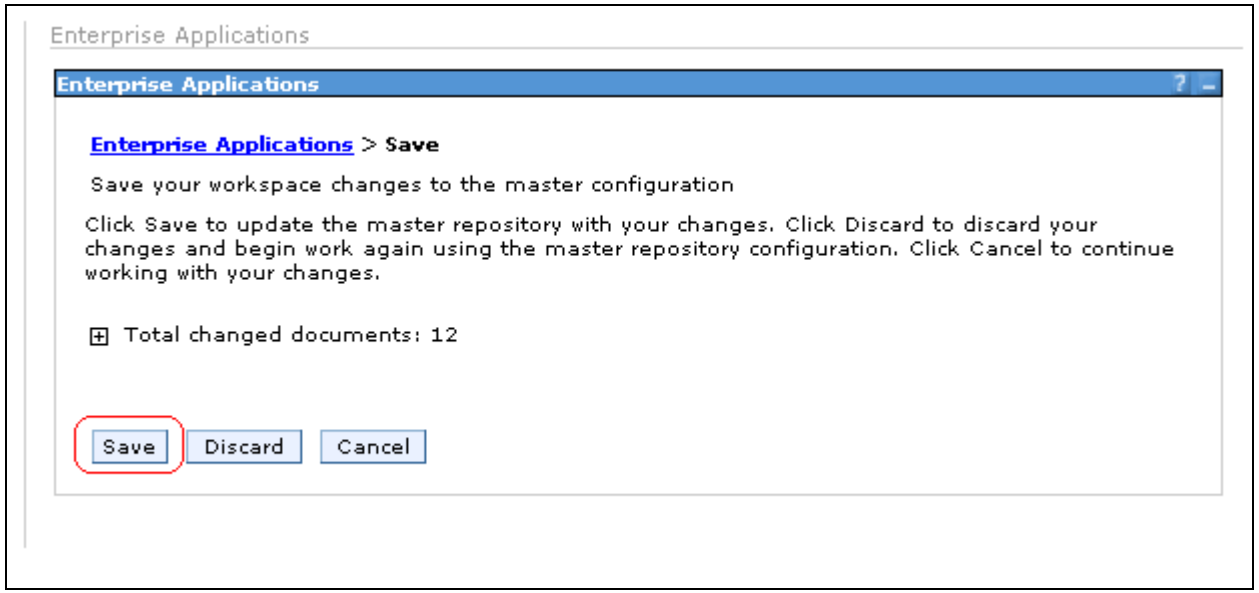
To start the application, first save changes to the master configuration.

Save to Master Configuration

To work with installed applications, click the "Manage Applications" button.

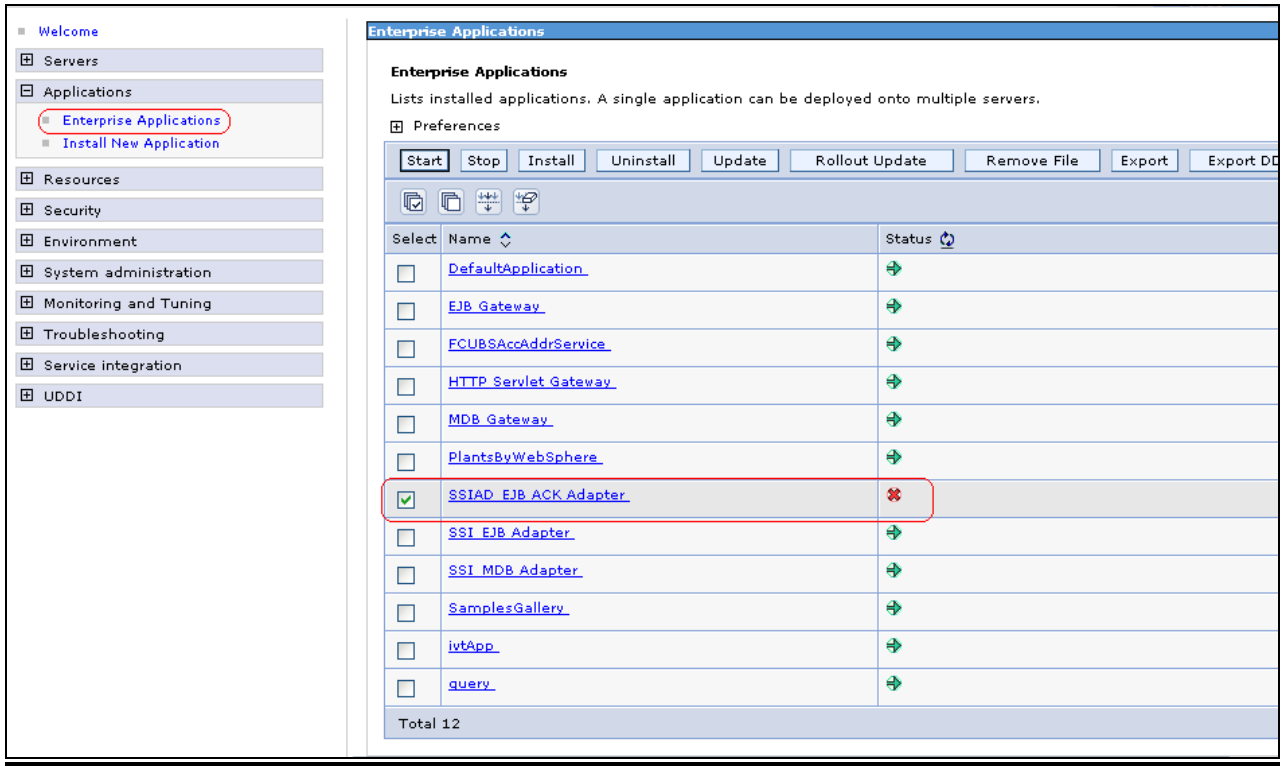
Manage Applications

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

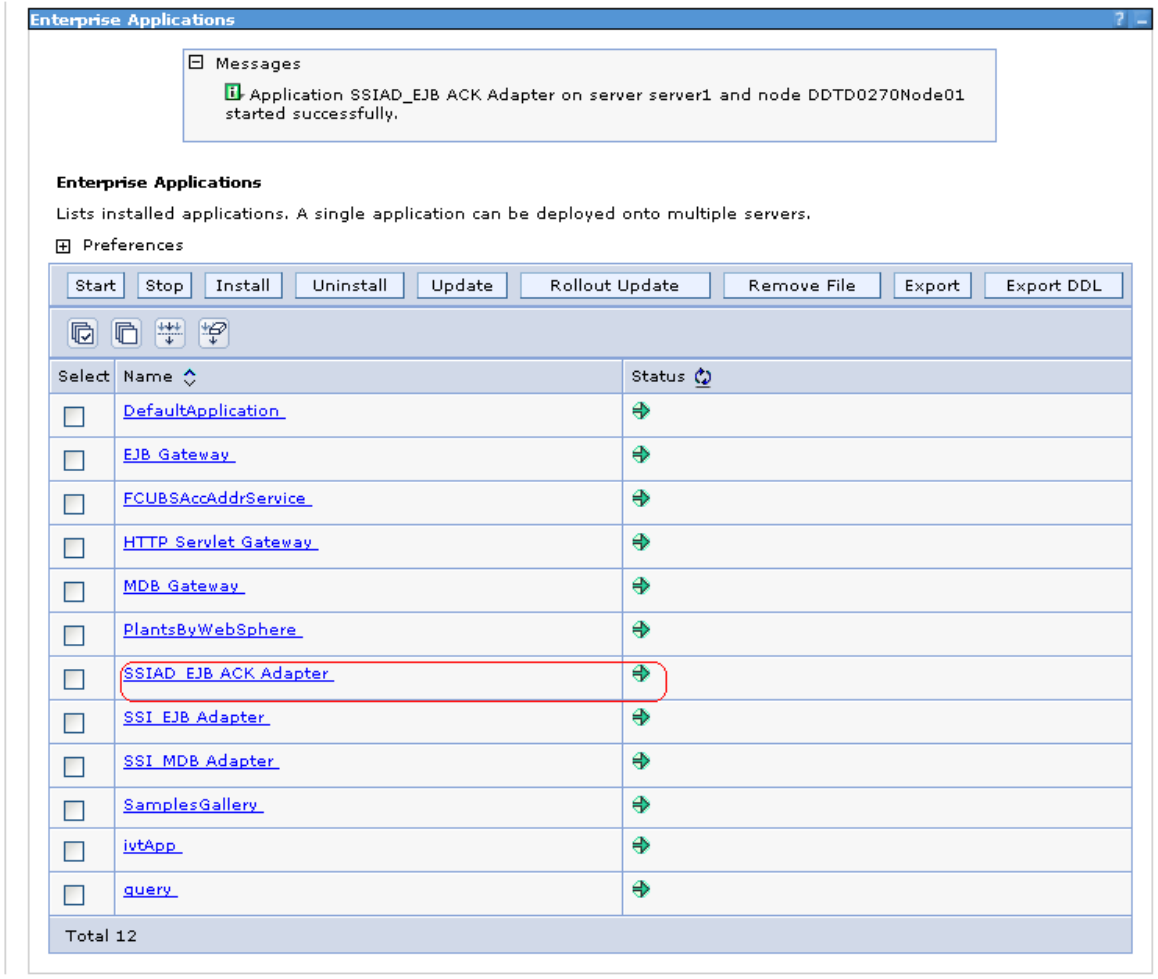


14. Browse to Application -> Enterprise Applications.

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



15. **Following screen will be displayed with a green arrow as the status indicating that the deployed SSIAD_EJB_ACK_Bean is running.**



E. Notifying the SSIAD_EJB_ACK_Bean to start polling on Folder

- ✓ For Windows

1. Open a Command prompt
2. Go to <KERNEL_INSTALL_DIR>\setup
3. Type **set_env** and press Enter.
4. Go to <KERNEL_INSTALL_DIR>\SSIAD_EJB_ACK\client\WAS
5. Type **runEJB_ACKClient START** and press enter

- ✓ For Unix

1. Go to <KERNEL_INSTALL_DIR>/setup
2. Type **chmod +x set_env.sh** and press Enter.
3. Type **set_env.sh** and Press Enter.
4. Go to <KERNEL_INSTALL_DIR>/ SSIAD_EJB_ACK /client/WAS
5. Type **chmod +x runEJB_ACKClient.sh**

6. Type **runEJB_ACKClient.sh START** and press Enter

F. Canceling the SSIAD_EJB_ACK_Bean so as to stop polling on Folder

✓ For Windows

1. Open a Command prompt
2. Go to <KERNEL_INSTALL_DIR>/setup
3. Type **set_env** and press Enter.
4. Go to <KERNEL_INSTALL_DIR>/ SSIAD_EJB_ACK/client/WAS
5. Type **runEJB_ACKClient STOP** and press enter

✓ For Unix

1. Go to <KERNEL_INSTALL_DIR>/setup
2. Type **chmod +x set_env.sh** and press Enter.
3. Type **set_env.sh** and Press Enter.
4. Go to <KERNEL_INSTALL_DIR>/ SSIAD_EJB_ACK/client/WAS
5. Type **chmod +x runEJB_ACKClient.sh**
6. Type **runEJB_ACKClient.sh STOP** and press Enter

FLEXCUBE UBS Inbound Application Adapter Installation
[October] [2015]
Version 12.1.0.0.0

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

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