

Deploying Oracle FLEXCUBE Investor Servicing Application on WebSphere

Oracle FLEXCUBE Investor Servicing

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Table of Contents

- 1. DEPLOYING ORACLE FLEXCUBE INVESTOR SERVICING ON WEBSPHERE 1-1
 - 1.1 INTRODUCTION 1-1
 - 1.2 DEPLOYING APPLICATION..... 1-1
 - 1.2.1 *FCIS Application Deployment*..... 1-1
 - 1.3 STANDALONE SCHEDULER CONFIGURATION 1-9

1. Deploying Oracle FLEXCUBE Investor Servicing on WebSphere

1.1 Introduction

This document explains the steps to deploy the Oracle FLEXCUBE IS application on IBM WebSphere application server.

1.2 Deploying Application

1.2.1 FCIS Application Deployment

To deploy Oracle FLEXCUBE IS application on WebSphere application server, you need to follow the steps given below:

1. Open the Administrative Console of WebSphere server:

Open an internet browser and type the WebSphere Admin Console URL:

<http://{Host}:{Port}/ibm/console>.

Eg: <https://10.10.10.10/ibm/console>

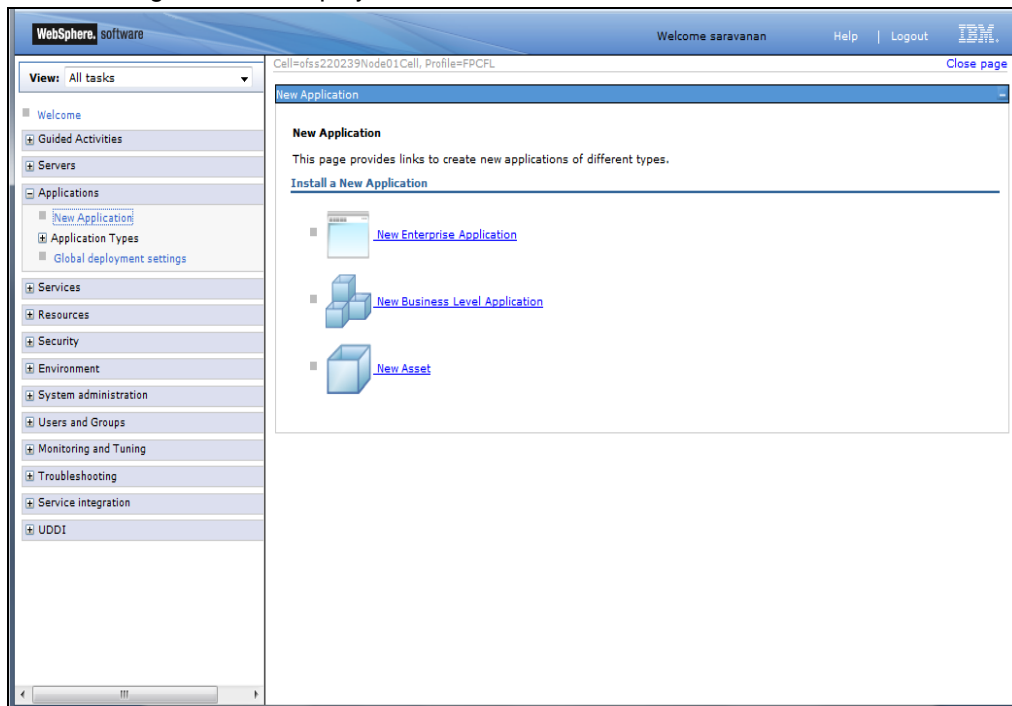
In the above example, 10.10.10.10 is the machine IP address on which WebSphere is running.

The following screen is displayed:

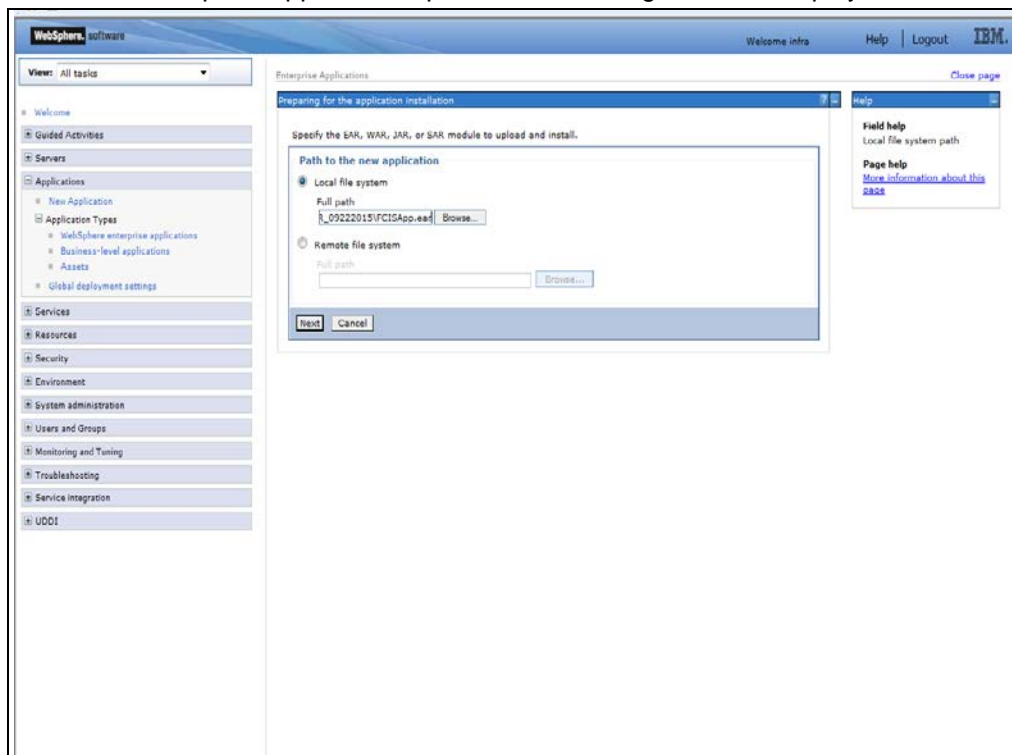


2. Enter the user name and password and click 'Log In' button to log in to the application server.
3. WebSphere Home Page will get launched.
4. Expand Applications and Click 'New Application' option.

The following screen is displayed.

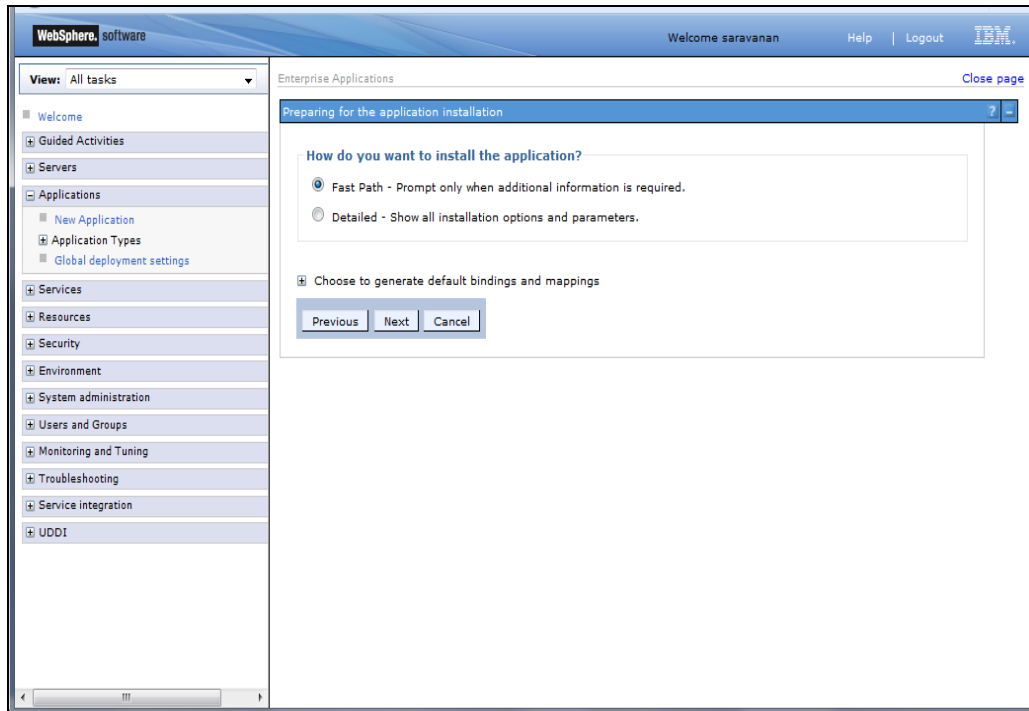


5. Click 'New Enterprise Application' option. The following screen is displayed:



6. Browse the application EAR file and click 'Next'.

The following screen is displayed.



- Click 'Next'. The following screen is displayed.

The screenshot shows the 'Install New Application' wizard in the WebSphere software interface. The left sidebar contains a navigation tree with 'Applications' > 'New Application' selected. The main panel is titled 'Select installation options' and contains several configuration sections:

- Specify the various options that are available for your application.**
 - ☐ Precompile JavaServer Pages files
 - Directory to install application:
 - ☒ Distribute application
 - ☐ Use Binary Configuration
 - ☐ Deploy enterprise beans
 - Application name:
 - ☒ Create MBeans for resources
 - ☐ Override class reloading settings for Web and EJB modules
 - Reload interval in seconds:
 - ☐ Deploy Web services
 - Validate input off/norm/tail:
 - ☐ Process embedded configuration
- File Permission**
 - Allow all files to be read but not written to
 - Allow executables to execute
 - Allow HTML and image files to be read by everyone
 - File permission:
- Application Build ID:
- ☐ Allow dispatching includes to remote resources
- ☐ Allow servicing includes from remote resources
- Business level application name:
- Asynchronous Request Dispatch Type:

At the bottom, there are 'Previous', 'Next', and 'Cancel' buttons.

- Enter the Application Name. This should be the application name mentioned as part of EAR building .
- Click 'Next'.

The screenshot shows the 'Map modules to servers' step of the 'Install New Application' wizard. The left sidebar is the same as in the previous screenshot. The main panel is titled 'Map modules to servers' and contains:

- Specify targets such as application servers or clusters of application servers where you want to install the modules that are contained in your application.**
- Clusters and servers:**
- A table with columns: Select, Module, URI, and Server.

Select	Module	URI	Server
<input type="checkbox"/>	FCJGeneralEJB.jar	FCJGeneralEJB.jar,META-INF/ejb-jar.xml	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03.server=server1
<input type="checkbox"/>	FCJSMS.jar	FCJSMS.jar,META-INF/ejb-jar.xml	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03.server=server1
<input type="checkbox"/>	FCJBatch.jar	FCJBatch.jar,META-INF/ejb-jar.xml	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03.server=server1
<input type="checkbox"/>	FCServiceEJB.jar	FCServiceEJB.jar,META-INF/ejb-jar.xml	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03.server=server1
<input type="checkbox"/>	FCJScheduler.jar	FCJScheduler.jar,META-INF/ejb-jar.xml	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03.server=server1
<input type="checkbox"/>	FlexCubeCorporate	FCJNeoWeb.war,WEB-INF/web.xml	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03.server=server1

At the bottom, there are 'Previous', 'Next', and 'Cancel' buttons.

10. Check all the options. Click 'Next'. The following screen is displayed. Specify the details as shown:

During property file creation, if insulation adapter is applicable, then the following screen will be displayed:

Bind listeners for message-driven beans

Each message-driven enterprise bean in your application or module must be bound to a listener port name or to an activation specification JNDI name. When a message-driven enterprise bean is bound to an activation specification JNDI name you can also specify the destination JNDI name and authentication alias.

☒ Apply Multiple Mappings

Select	Module	Bean	URI	Messaging type	Listener Bindings
<input type="checkbox"/>	FCJScheduler.jar	EMSInMDB	FCJScheduler.jar,META-INF/ejb-jar.xml	javax.jms.MessageListener	<input checked="" type="radio"/> Listener port Name: <input type="text" value="EMSIn_Listener"/> <input type="radio"/> Activation Specification Target Resource JNDI Name: <input type="text"/> Destination JNDI name: <input type="text"/> ActivationSpec authentication alias: <input type="text"/>
<input type="checkbox"/>	FcISMDBAdapter.jar	CIFCreationMDBListenerBean	FcISMDBAdapter.jar,META-INF/ejb-jar.xml	javax.jms.MessageListener	<input checked="" type="radio"/> Listener port Name: <input type="text" value="CIFCreationMDBListener"/> <input type="radio"/> Activation Specification Target Resource JNDI Name: <input type="text"/> Destination JNDI name: <input type="text"/> ActivationSpec authentication alias: <input type="text"/>

If insulation adapter is not applicable, then the following screen will be displayed:

Install New Application

Specify options for installing enterprise applications and modules.

Step 1: Select installation options
 Step 2: Map modules to servers
Step 3: Bind listeners for message-driven beans
 Step 4: Map virtual hosts for Web modules
 Step 5: Metadata for modules
 Step 6: Summary

Bind listeners for message-driven beans

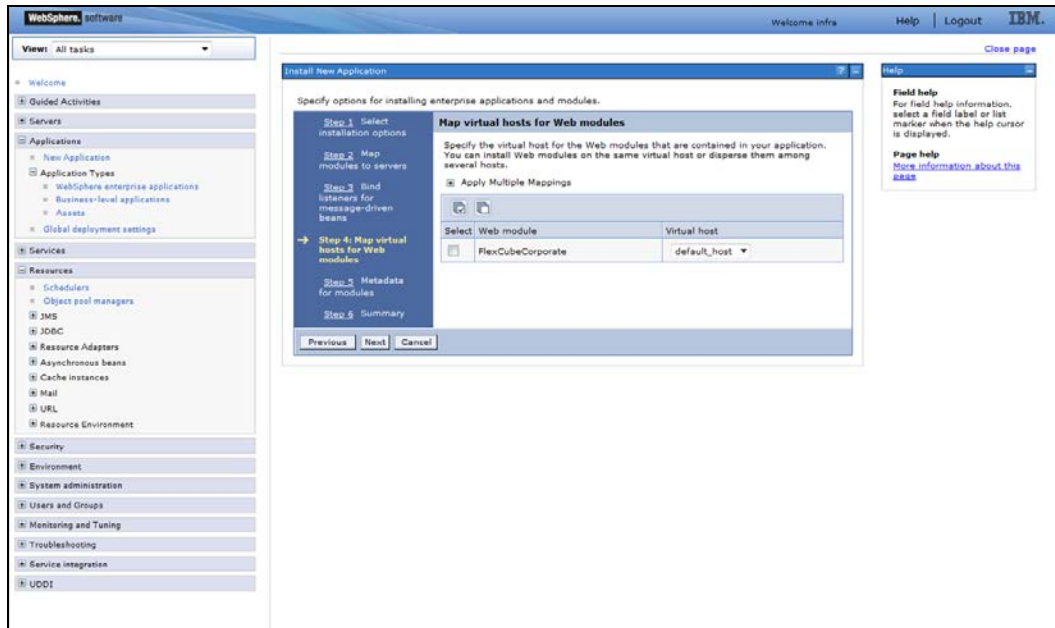
Each message-driven enterprise bean in your application or module must be bound to a listener port name or to an activation specification JNDI name. When a message-driven enterprise bean is bound to an activation specification JNDI name you can also specify the destination JNDI name and authentication alias.

☒ Apply Multiple Mappings

Select	Module	Bean	URI	Messaging type	Listener Bindings
<input checked="" type="checkbox"/>	FCJScheduler.jar	EMSInMDB	FCJScheduler.jar,META-INF/ejb-jar.xml	javax.jms.MessageListener	<input checked="" type="radio"/> Listener port Name: <input type="text" value="EMSIn_Listener"/> <input type="radio"/> Activation Specification Target Resource JNDI Name: <input type="text"/> Destination JNDI name: <input type="text"/> ActivationSpec authentication alias: <input type="text"/>

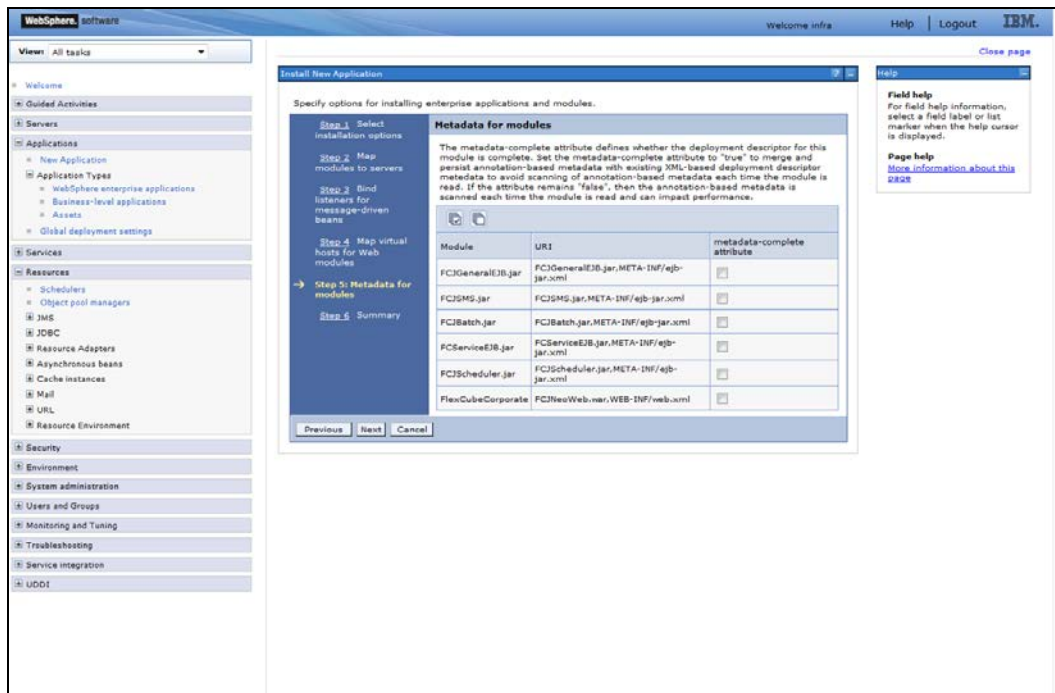
Previous Next Cancel

11. Click 'Next'. Following screen is displayed

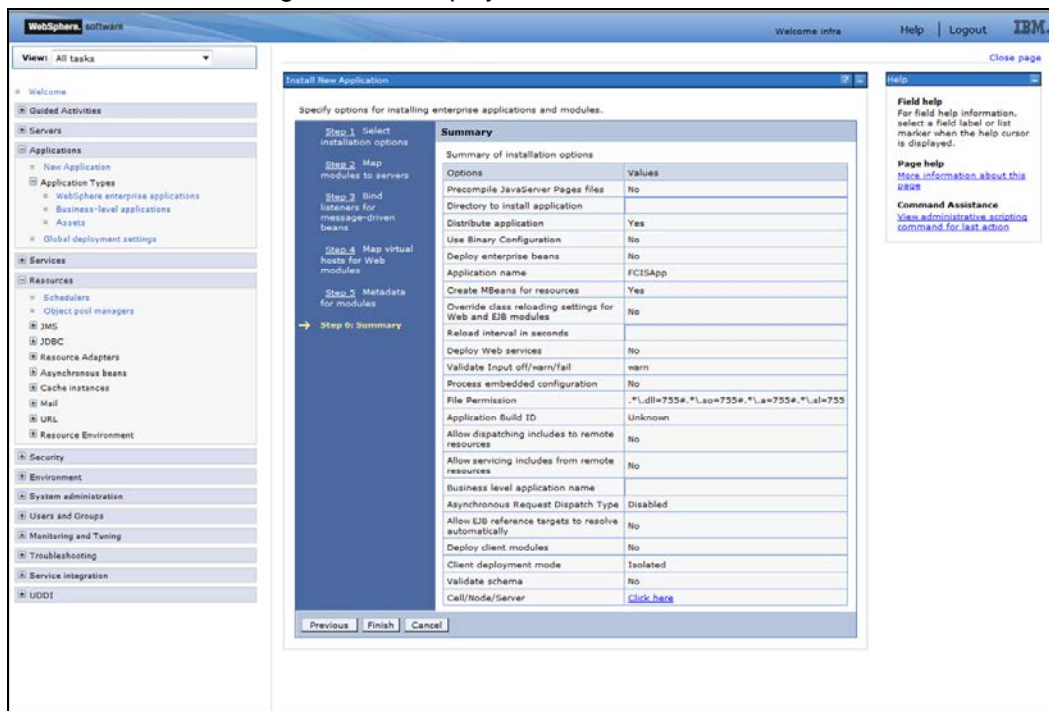


12. Click 'Next'.

The following screen is displayed.

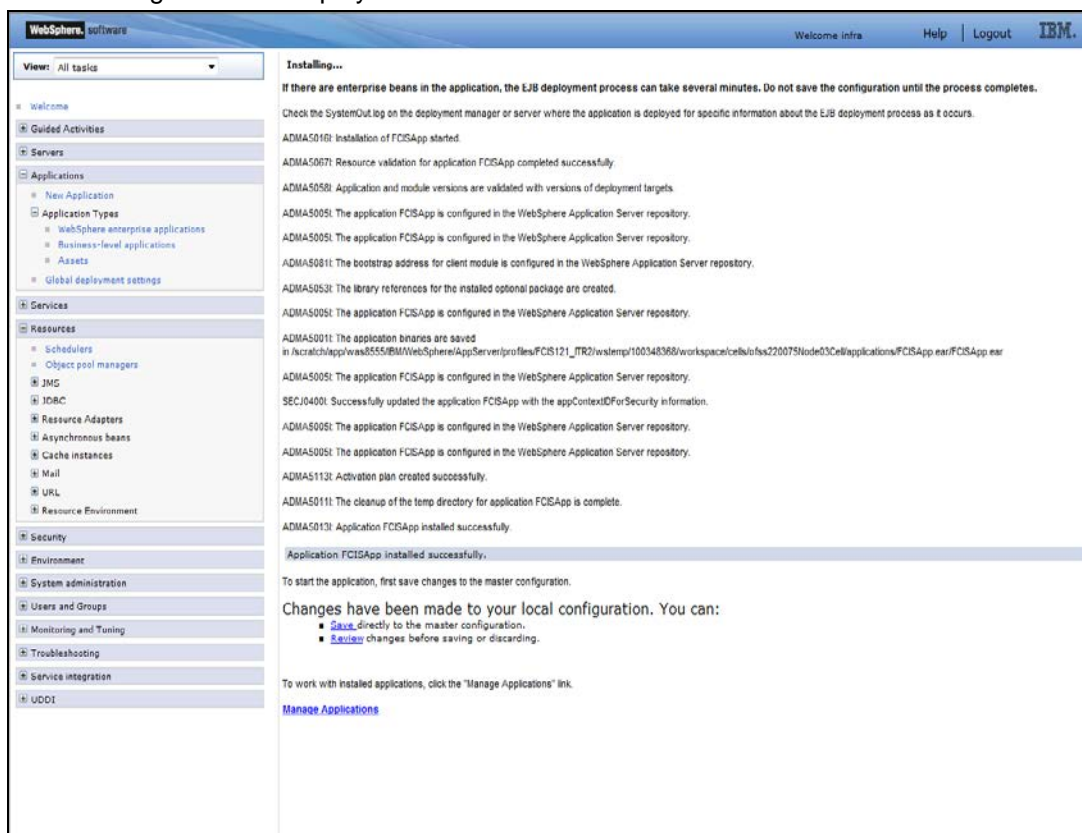


Click next. The following screen is displayed:



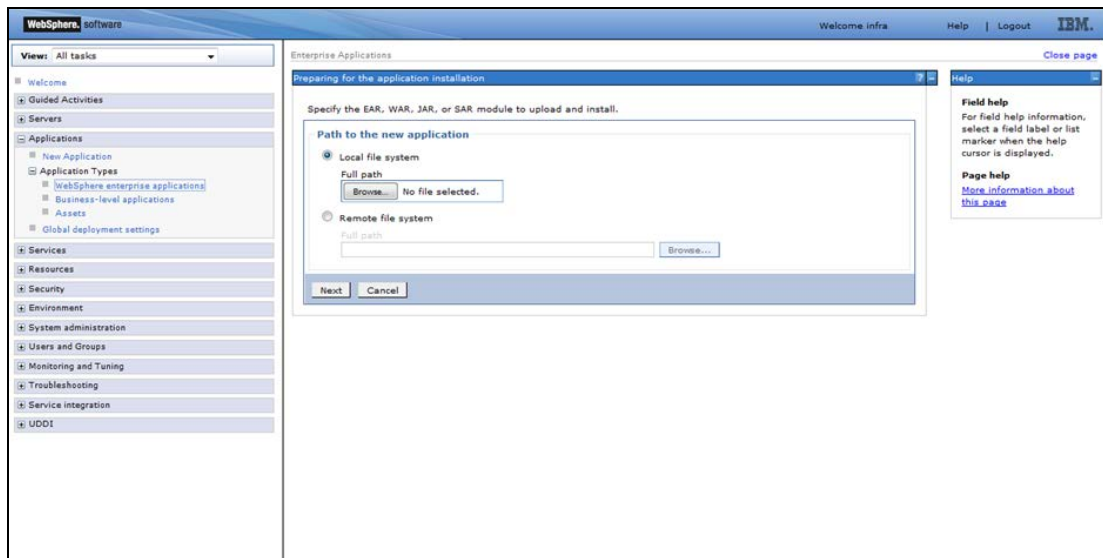
13. Click 'Finish'.

The following screen is displayed.

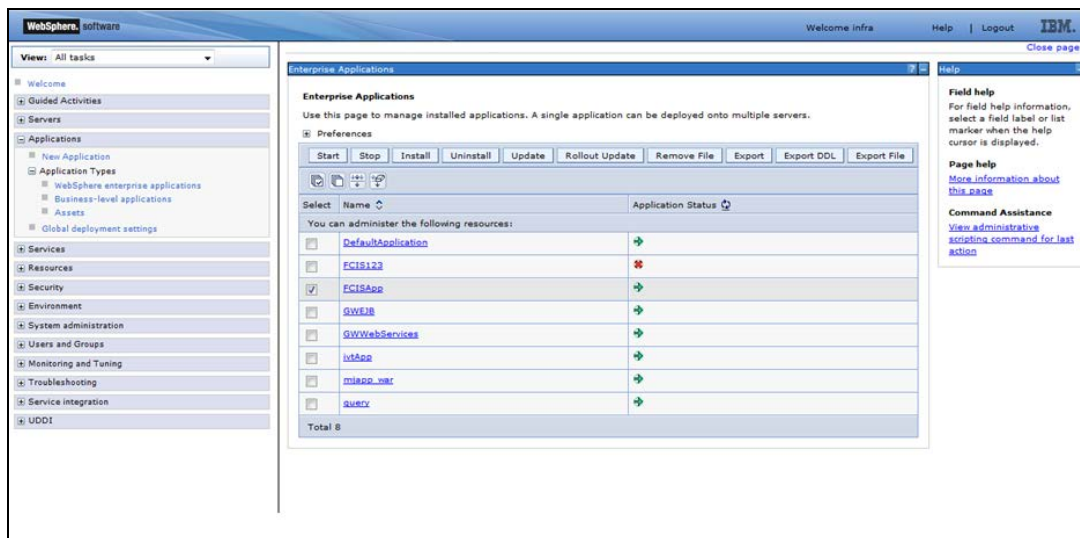


14. Click 'Save'.

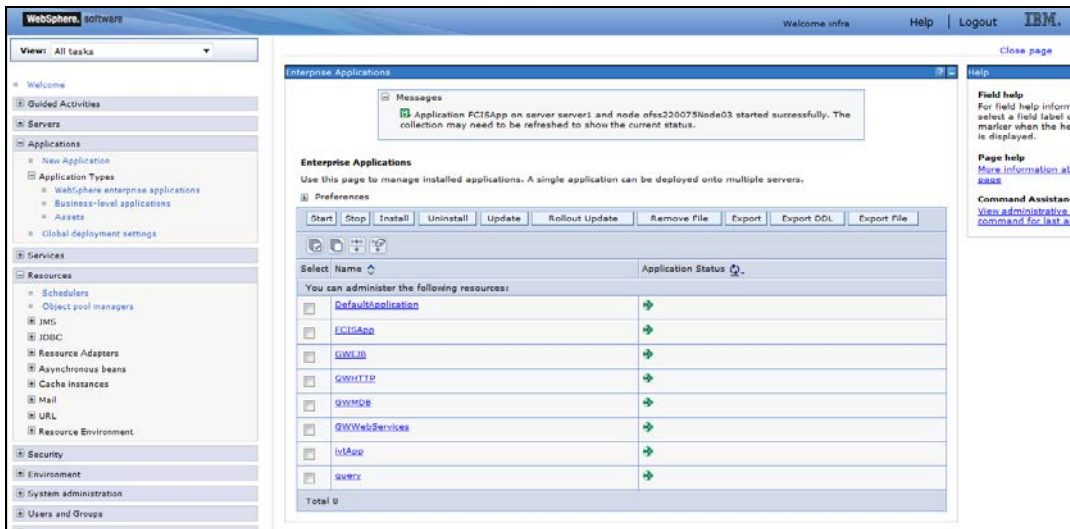
The following screen is displayed.



You need to manually select 'Websphere Enterprise Applications' from the left menu. The following screen is displayed:



Select the application and click 'Start'. The application starts as shown below:

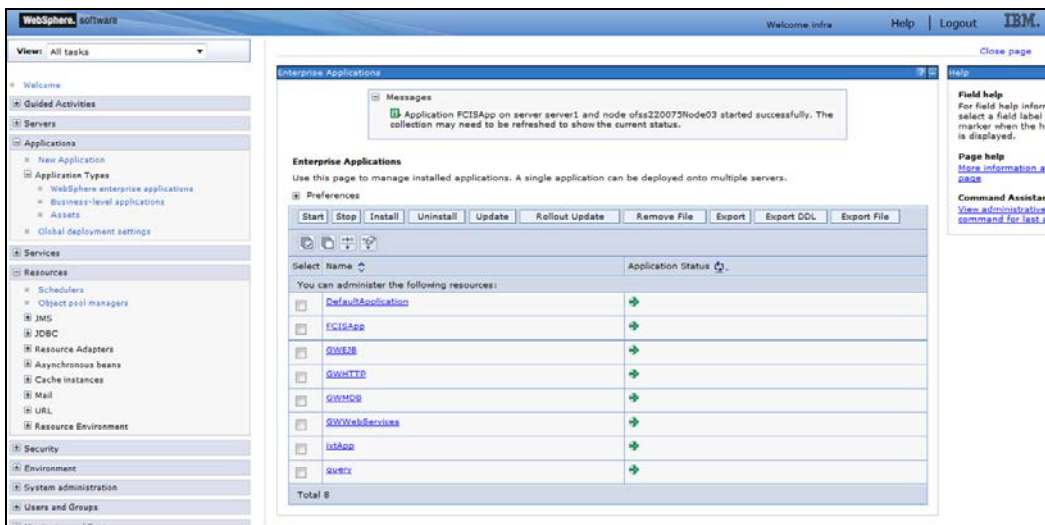


This completes the deployment of EAR (FCJNeoWeb.ear) on IBM WebSphere Application Server from the Administration Console.

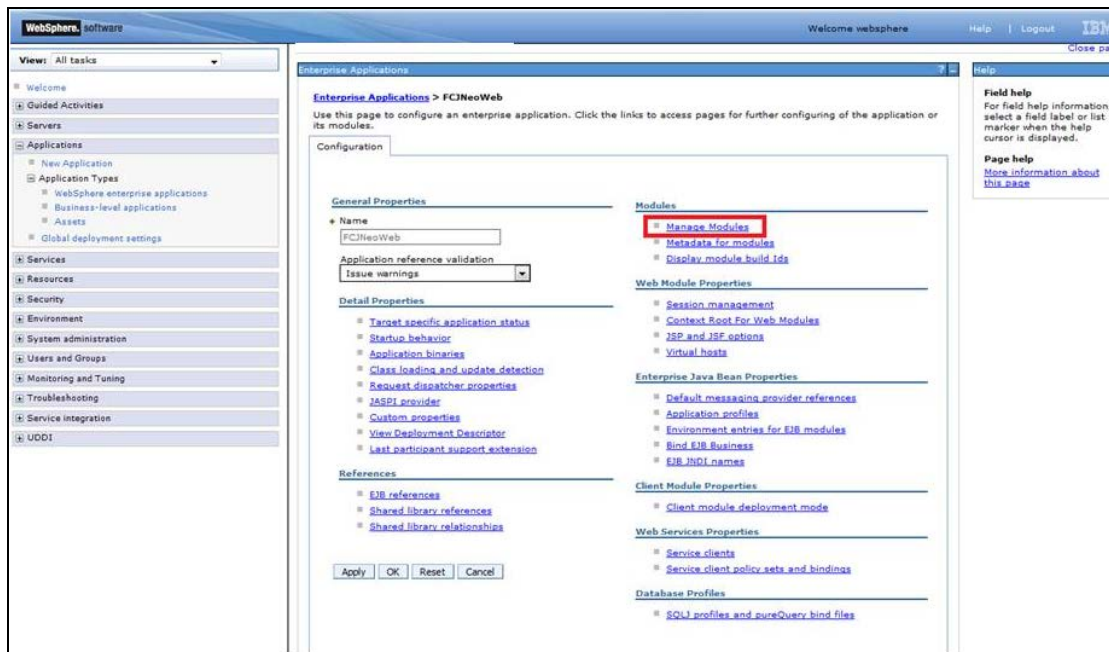
1.3 Standalone Scheduler Configuration

If standalone scheduler is enabled then below configuration should be done

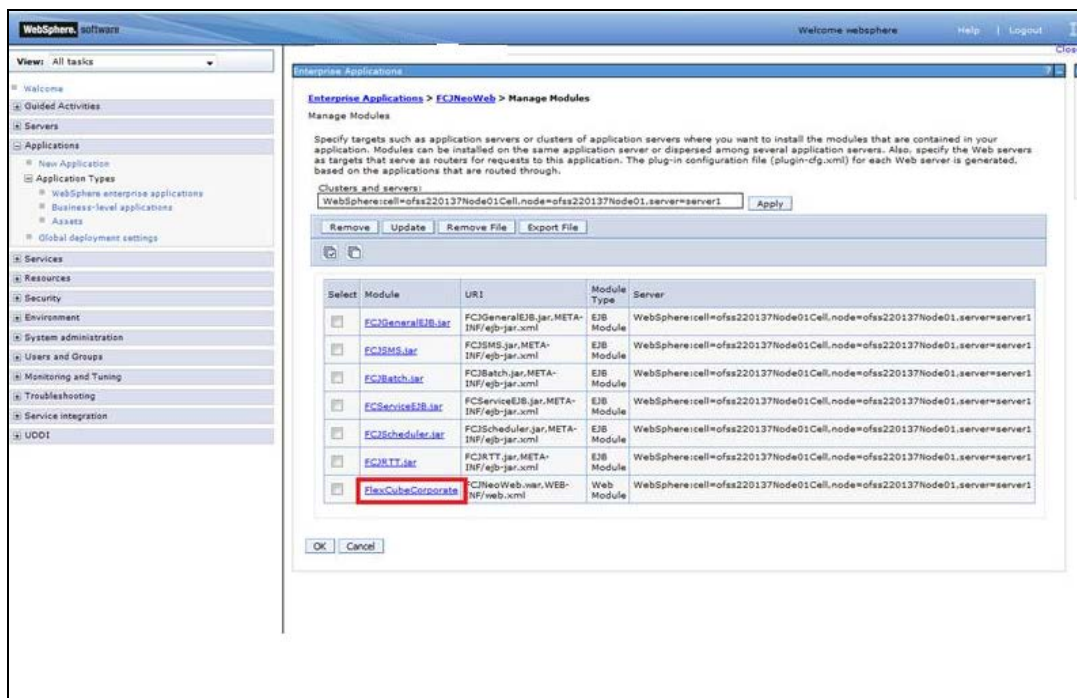
1. Login to websphere admin console. Expand 'Application > Application Types> WebSphere Enterprise Applications'. The following screen is displayed:



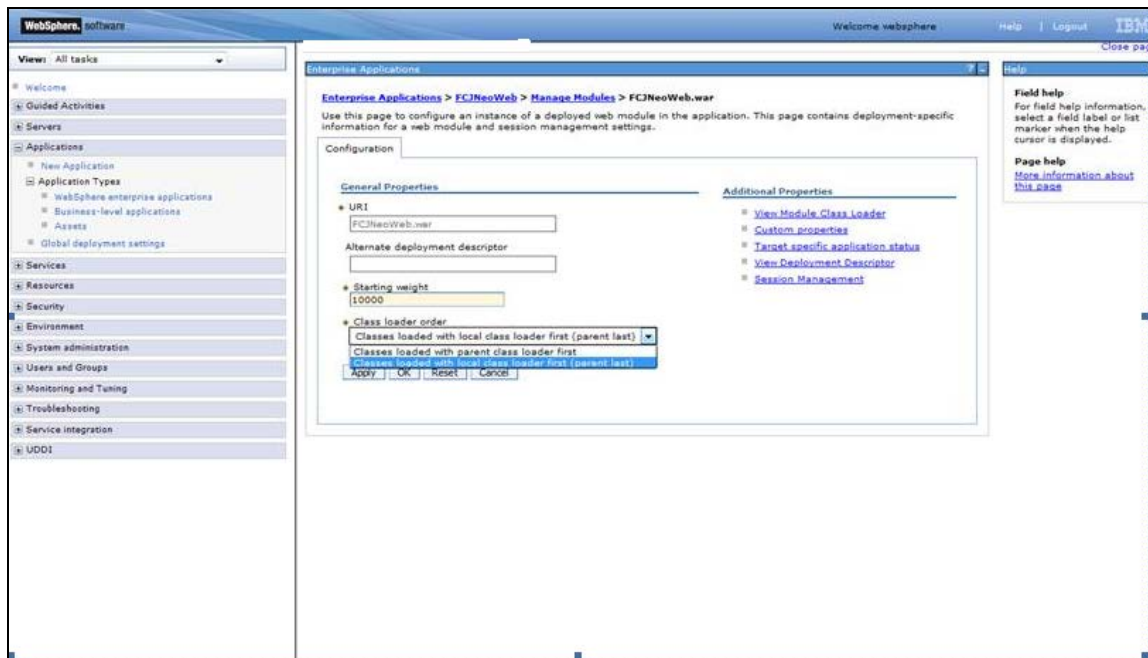
Click on the application 'FCISApp'. The following screen is displayed:



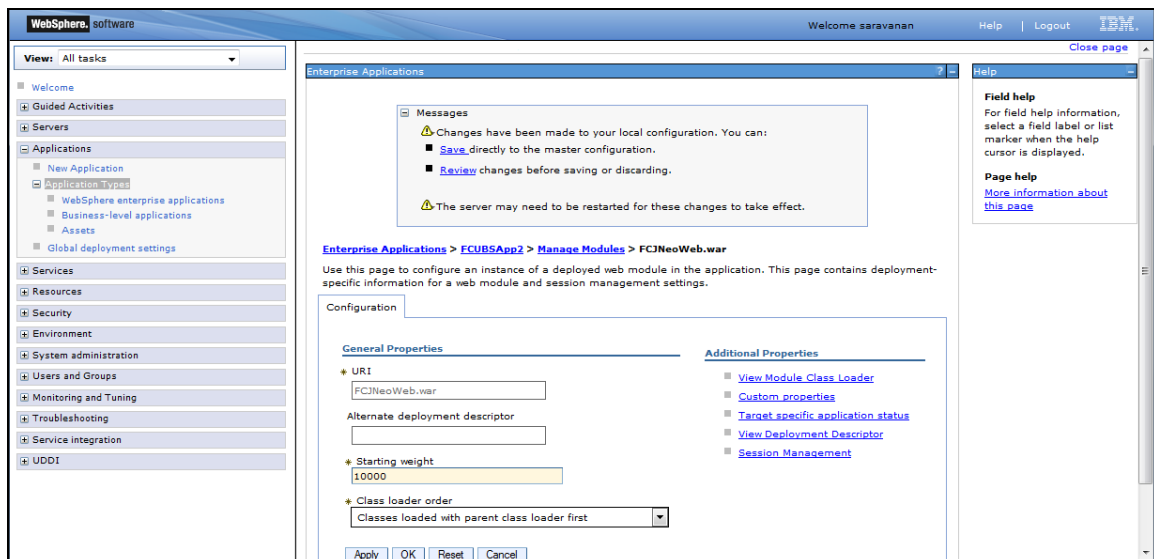
Click on 'Manage Modules'



Click on 'FlexCubeCorporate'. The following screen is displayed:



Select "Classes loaded with local class loader first (parent last)" from the dropdown 'Class loader order'. Click 'Apply' button.



Click 'Save' link and restart the server.

The screenshot shows the IBM WebSphere software console interface. The left sidebar contains a navigation menu with options like 'View: All tasks', 'Welcome', 'Guided Activities', 'Servers', 'Applications', 'Services', 'Resources', 'Security', 'Environment', 'System administration', 'Users and Groups', 'Monitoring and Tuning', 'Troubleshooting', 'Service integration', and 'UDDI'. The main content area is titled 'Enterprise Applications' and 'Manage Modules'. It includes a text box for 'Clusters and servers' with the value 'WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03,server=server1'. Below this is a table with columns 'Select', 'Module', 'URI', 'Module Type', and 'Server'. The table lists several modules, all of which are selected. At the bottom, there are 'OK' and 'Cancel' buttons.

Select	Module	URI	Module Type	Server
<input checked="" type="checkbox"/>	FCJGeneralEJB.jar	FCJGeneralEJB.jar,META-INF/ejb-jar.xml	EJB Module	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03,server=server1
<input checked="" type="checkbox"/>	FCJSMS.jar	FCJSMS.jar,META-INF/ejb-jar.xml	EJB Module	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03,server=server1
<input checked="" type="checkbox"/>	FCJBatch.jar	FCJBatch.jar,META-INF/ejb-jar.xml	EJB Module	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03,server=server1
<input checked="" type="checkbox"/>	FCSserviceEJB.jar	FCSserviceEJB.jar,META-INF/ejb-jar.xml	EJB Module	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03,server=server1
<input checked="" type="checkbox"/>	FCJScheduler.jar	FCJScheduler.jar,META-INF/ejb-jar.xml	EJB Module	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03,server=server1
<input checked="" type="checkbox"/>	FlexCubeCorporate	FCJNeoWeb.war,WEB-INF/web.xml	Web Module	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03,server=server1



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