

Deploying Oracle FLEXCUBE Application on WebSphere  
Oracle FLEXCUBE Universal Banking  
Release 14.1.0.0.0  
[May] [2018]



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# 1. Deploying Oracle FLEXCUBE on WebSphere

## 1.1 Introduction

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

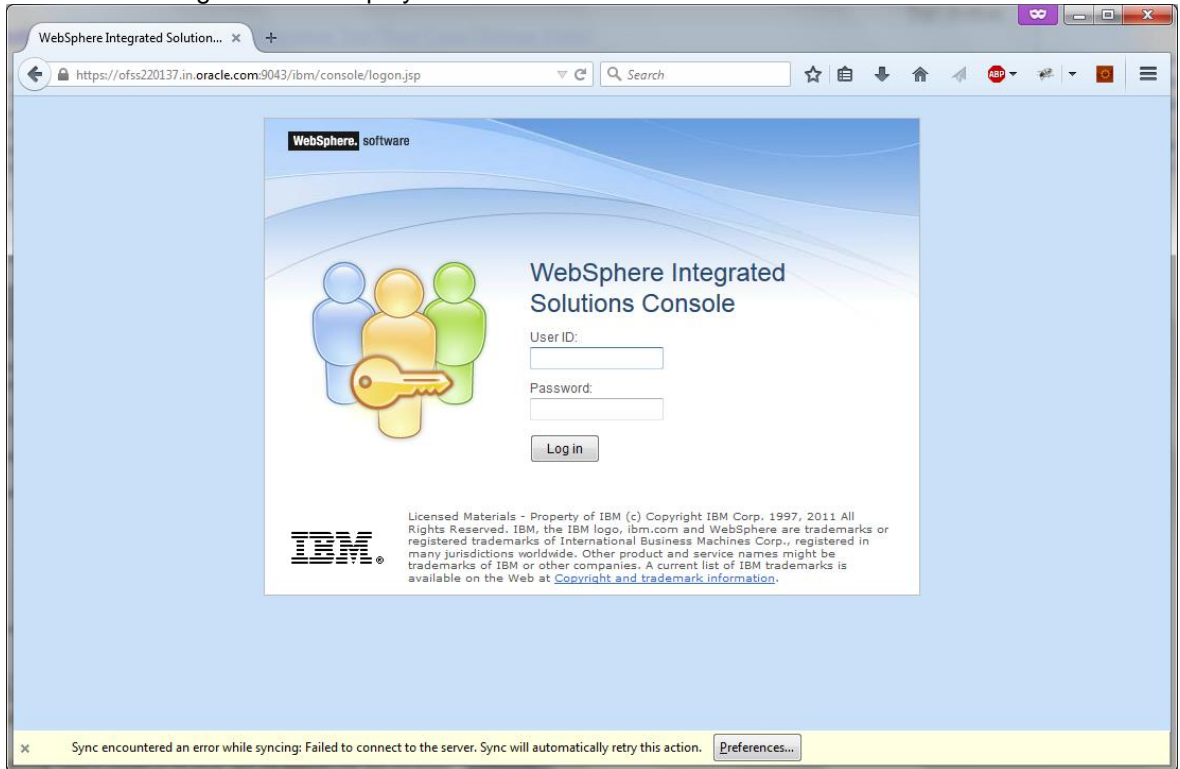
## 1.2 Deploying Application

### 1.2.1 Shared Library Deployment

To deploy Integration Adapter (OBCLExtAdapter.jar or ExtAdapter.jar) JAR on WebSphere application server, follow the steps given below:

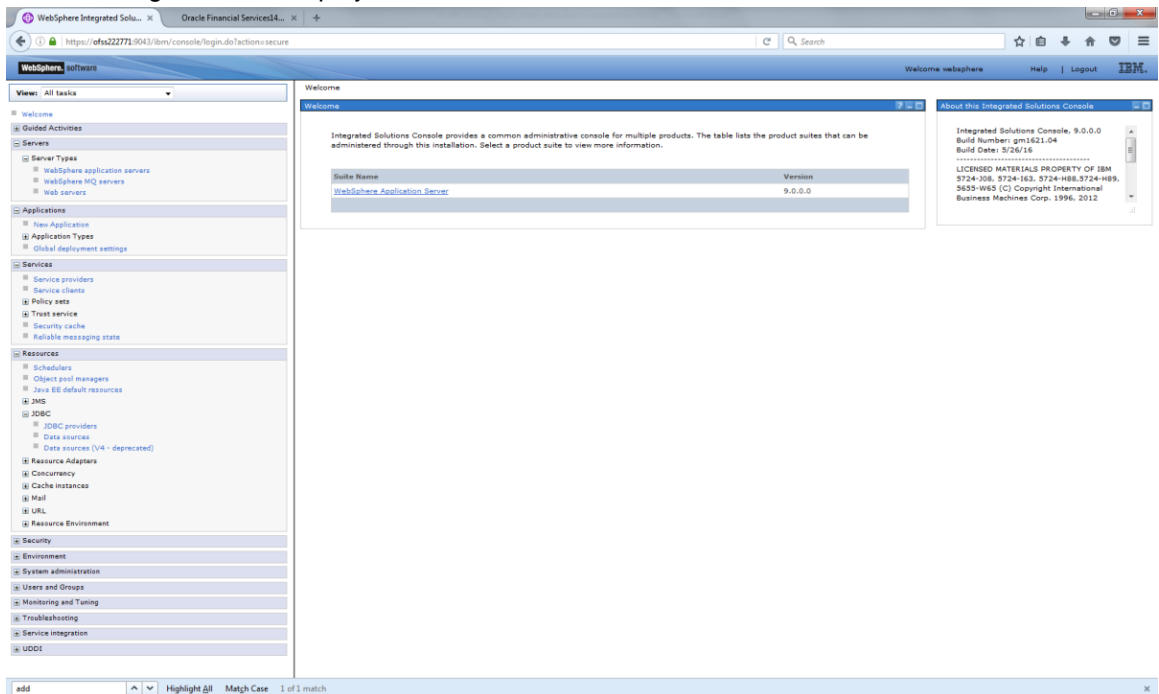
1. Copy Generated Integration Adapter (OBCLExtAdapter.jar or ExtAdapter.jar) to WebSphere Application server {Was\_profile}/Extadapter. Eg:  
/scratch/IBM8559/WebSphere/AppServer/profiles/BGV8559\_01/Extadapter
2. Open the Administrative Console of WebSphere server:
  - Open an internet browser and type the WebSphere Admin Console URL  
http://{Host}:{Port}/console.
  - Eg: https://10.10.10.10:1010/console
  - In the above example, 10.10.10.10 is the machine IP address on which WebSphere is running.

3. The following screen is displayed:



4. Enter the user name and password and click 'Log In' to log in to the application server.
5. Navigate to the WebSphere Home Page.

The following screen is displayed.





6. Expand Environment from left-side menu and Click 'Shared Libraries'.

The following screen is displayed.

The screenshot shows the WebSphere Shared Libraries configuration page. The left-hand navigation menu is expanded to the 'Environment' section, with 'Shared Libraries' selected. The main content area displays the configuration for a shared library. The scope is set to 'Cell=ofss2311694Node08Cell, Profile=ELCMO8CLAPP'. Below this, there is a dropdown menu for the scope, currently showing 'Node=ofss2311694Node08, Server=server1'. There are 'New...' and 'Delete' buttons for managing libraries. A table below shows the current resources, with one entry: 'OBCLExtAdapter'. The table has columns for 'Select', 'Name', and 'Description'. The total number of resources is 1. On the right side, there is a 'Help' panel with sections for 'Field help', 'Page help', and 'Command Assistance'.

WebSphere, software

Welcome infra Help | Logout

Cell=ofss2311694Node08Cell, Profile=ELCMO8CLAPP

View: All tasks

Shared Libraries

**Shared Libraries**

Use this page to define a container-wide shared library that can be used by deployed applications.

Scope: Cell=ofss2311694Node08Cell, Node=ofss2311694Node08, Server=server1

Scope specifies the level at which the resource definition is visible. For detailed information on what scope is and how it works, [see the scope settings help](#).

Node=ofss2311694Node08, Server=server1

Preferences

New... Delete

Select	Name	Description
<input type="checkbox"/>	OBCLExtAdapter	

You can administer the following resources:

Total 1

**Field help**  
For field help information, select a field label or list marker when the help cursor is displayed.

**Page help**  
[More information about this page](#)

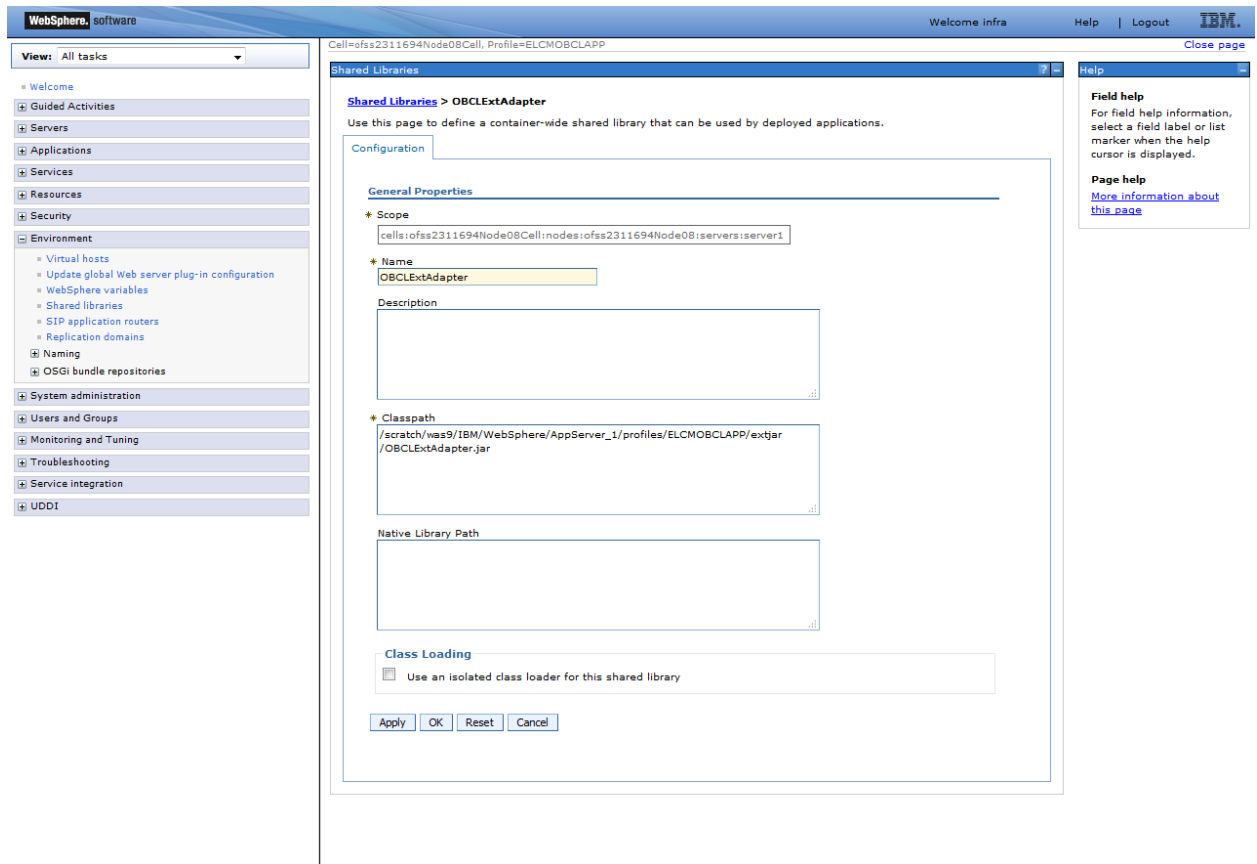
**Command Assistance**  
[View administrative scripting command for last action](#)

7. Click on New

The following screen is displayed.

The screenshot shows the WebSphere Administration Console interface. The main content area is titled "Shared Libraries > New...". Below the title, there is a "Configuration" tab and a "General Properties" section. The "Scope" field contains the text "cells:ofss2311694Node08Cell:nodes:ofss2311694Node08:servers:server1". The "Name" field is empty. The "Description" field is a large text area. The "Classpath" field is also a large text area. The "Native Library Path" field is a large text area. Below these fields is the "Class Loading" section, which has a checkbox labeled "Use an isolated class loader for this shared library" that is currently unchecked. At the bottom of the configuration area are buttons for "Apply", "OK", "Reset", and "Cancel". On the right side, there is a "Help" panel with "Field help" and "Page help" sections.

- Name : Name of the Adapter
- Description : provide description
- Classpath: provide ExtAdapter Jar path server {Was\_profile}/Extadapter. Eg: /scratch/IBM8559/WebSphere/AppServer/profiles/BGV8559\_01/Extadapter.



8. Click 'Apply' and 'save' the changes.

## 1.2.2 FCUBS Application Deployment

To deploy Oracle FLEXCUBE UBS application on WebSphere application server, follow the steps given below:

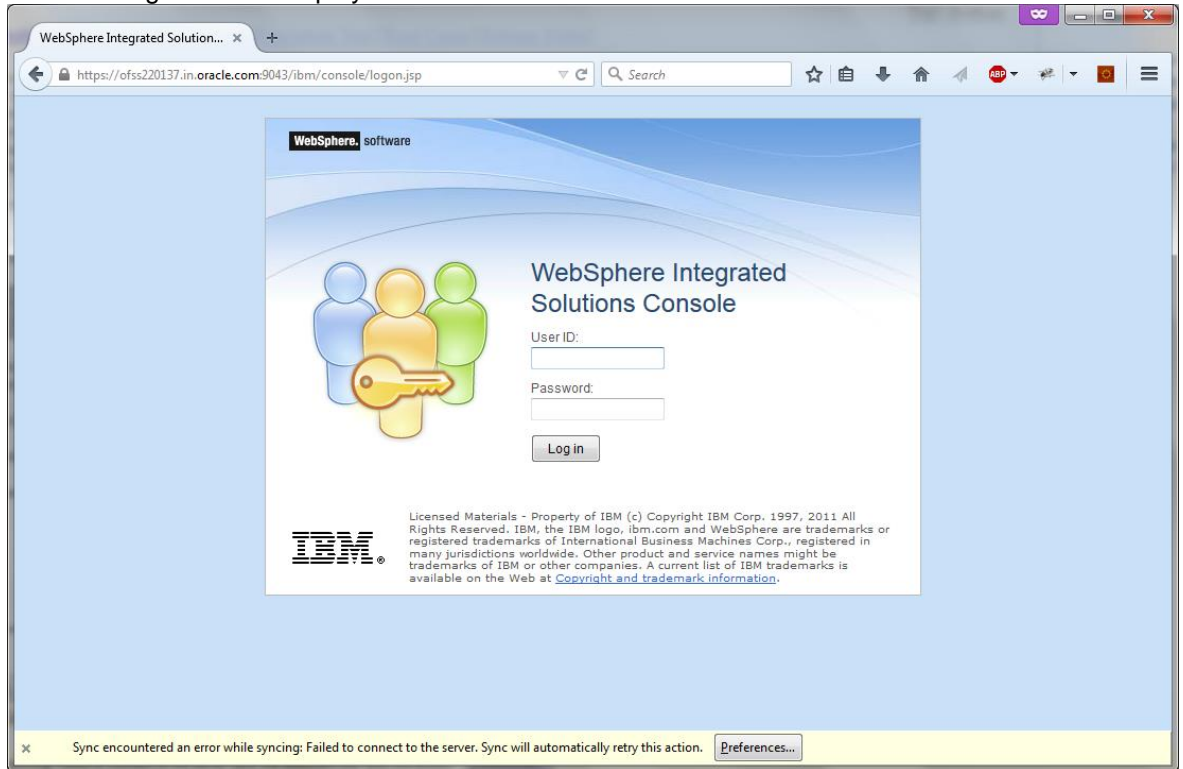
9. Open the Administrative Console of WebSphere server:

Open an internet browser and type the WebSphere Admin Console URL  
 http://{Host}:{Port}/console.

Eg: https://10.10.10.10:1010/console

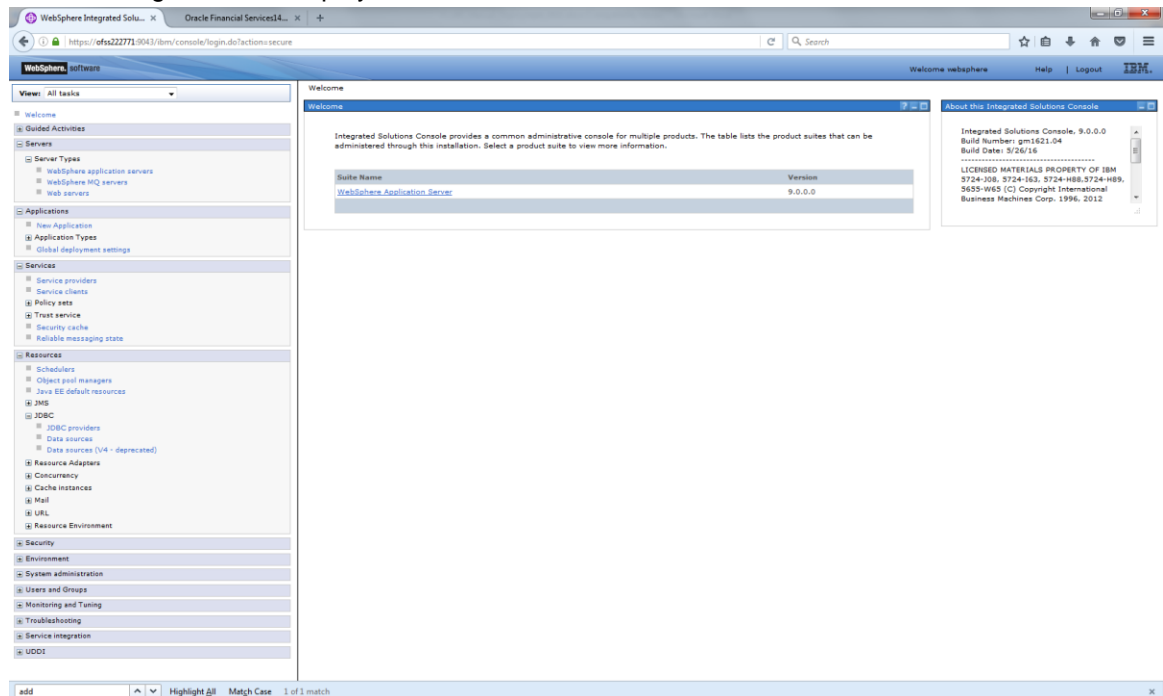
In the above example, 10.10.10.10 is the machine IP address on which WebSphere is running.

The following screen is displayed:



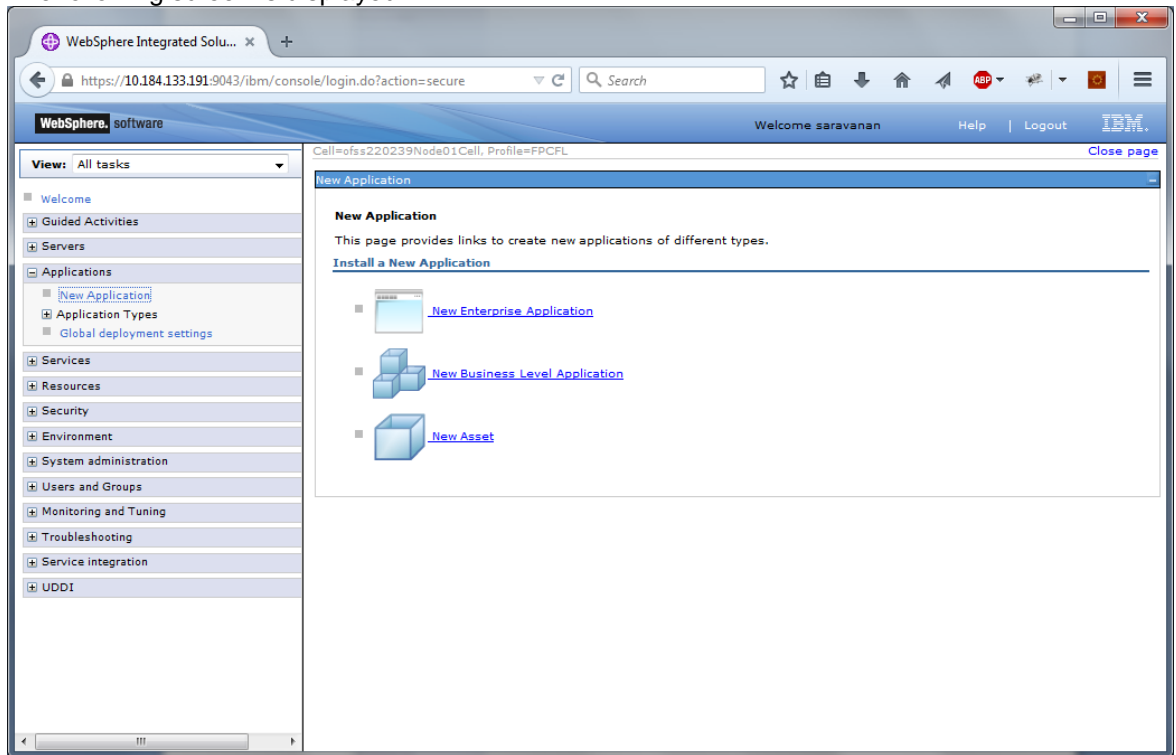
10. Enter the user name and password and click 'Log In' to log in to the application server.
11. Navigate to the WebSphere Home Page.

The following screen is displayed.

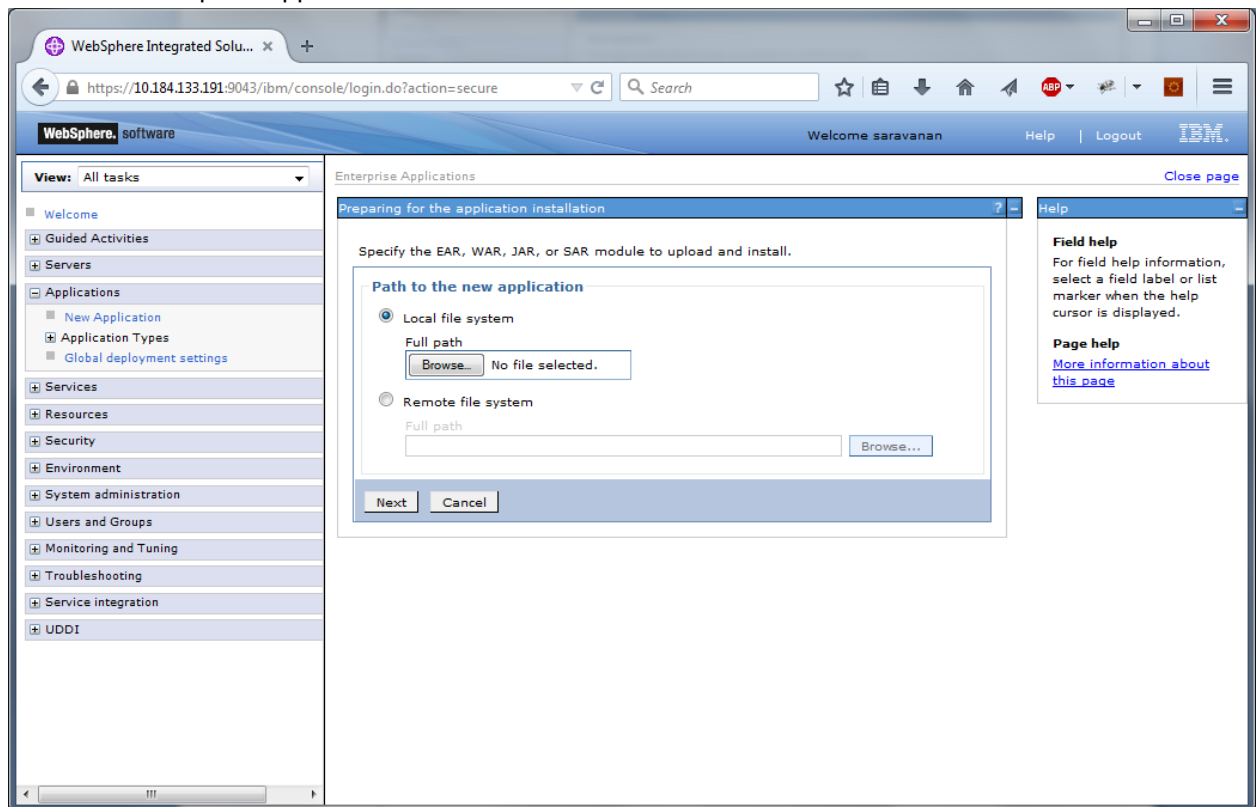


12. Expand Applications from left-side menu and Click 'New Application'.

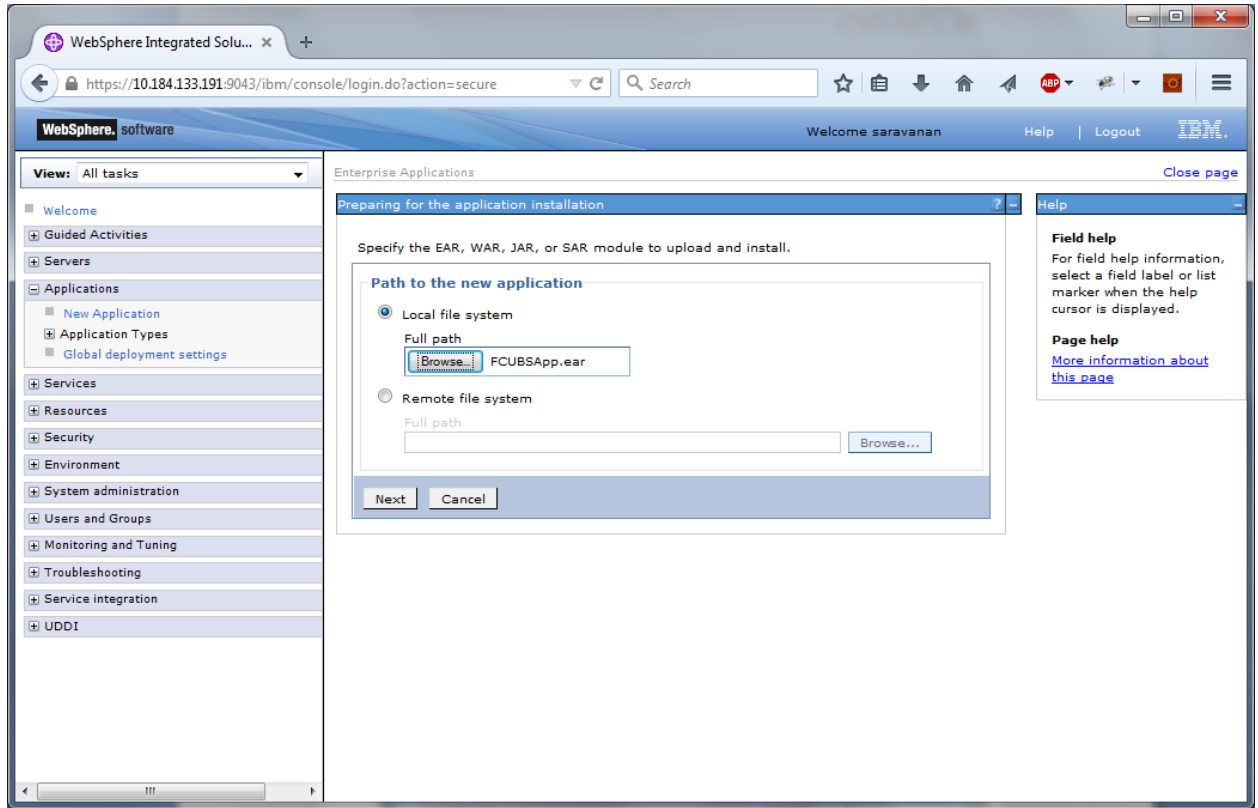
The following screen is displayed.



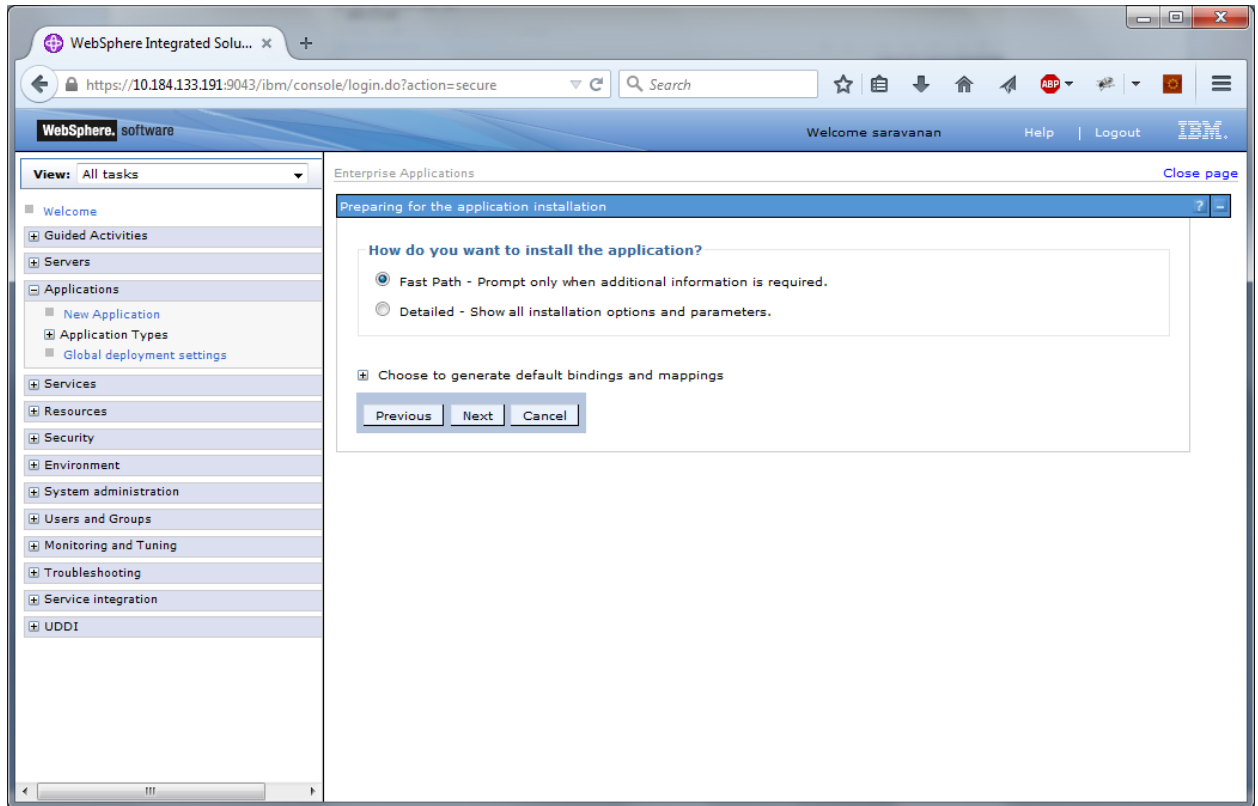
13. Click 'New Enterprise Application'.



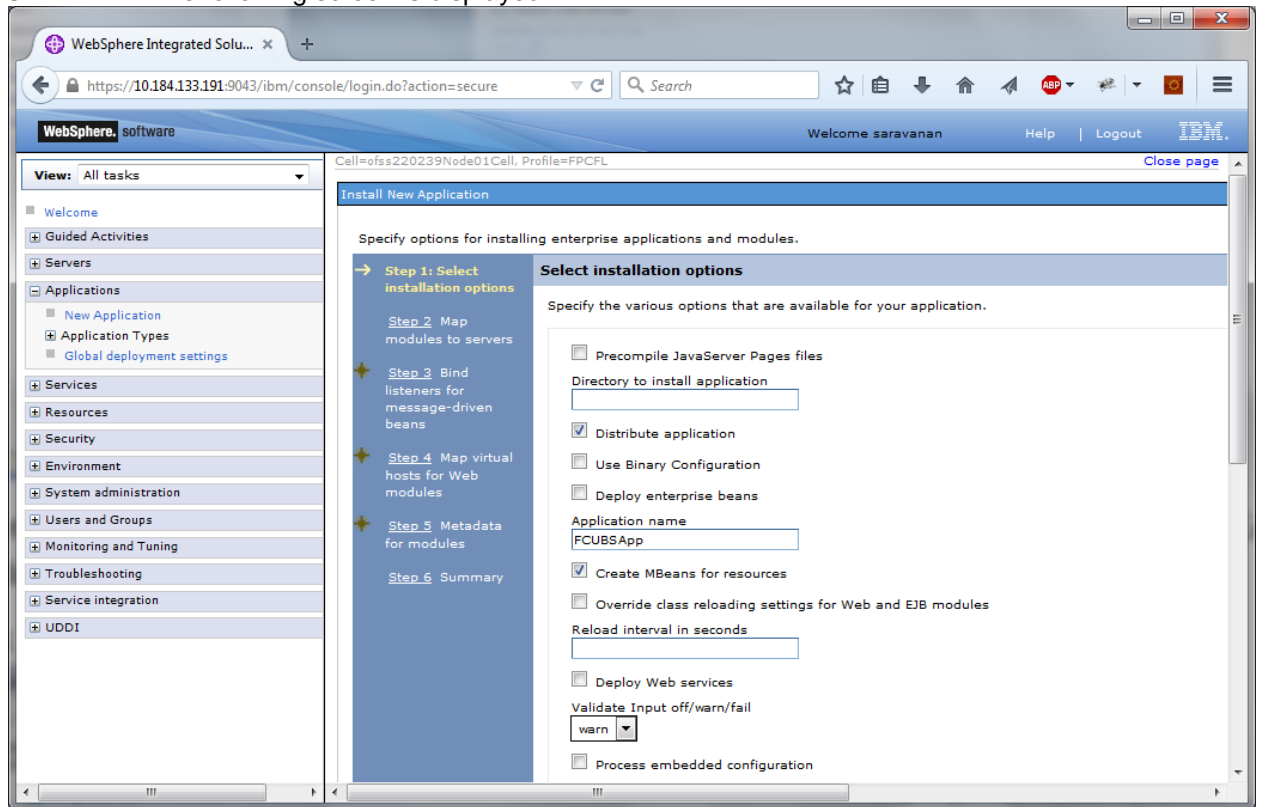
14. Browse the application EAR file and click next button



The following screen is displayed.



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



16. Enter the Application Name. This should be the application name mentioned as part of EAR building.

17. Click 'Next'.

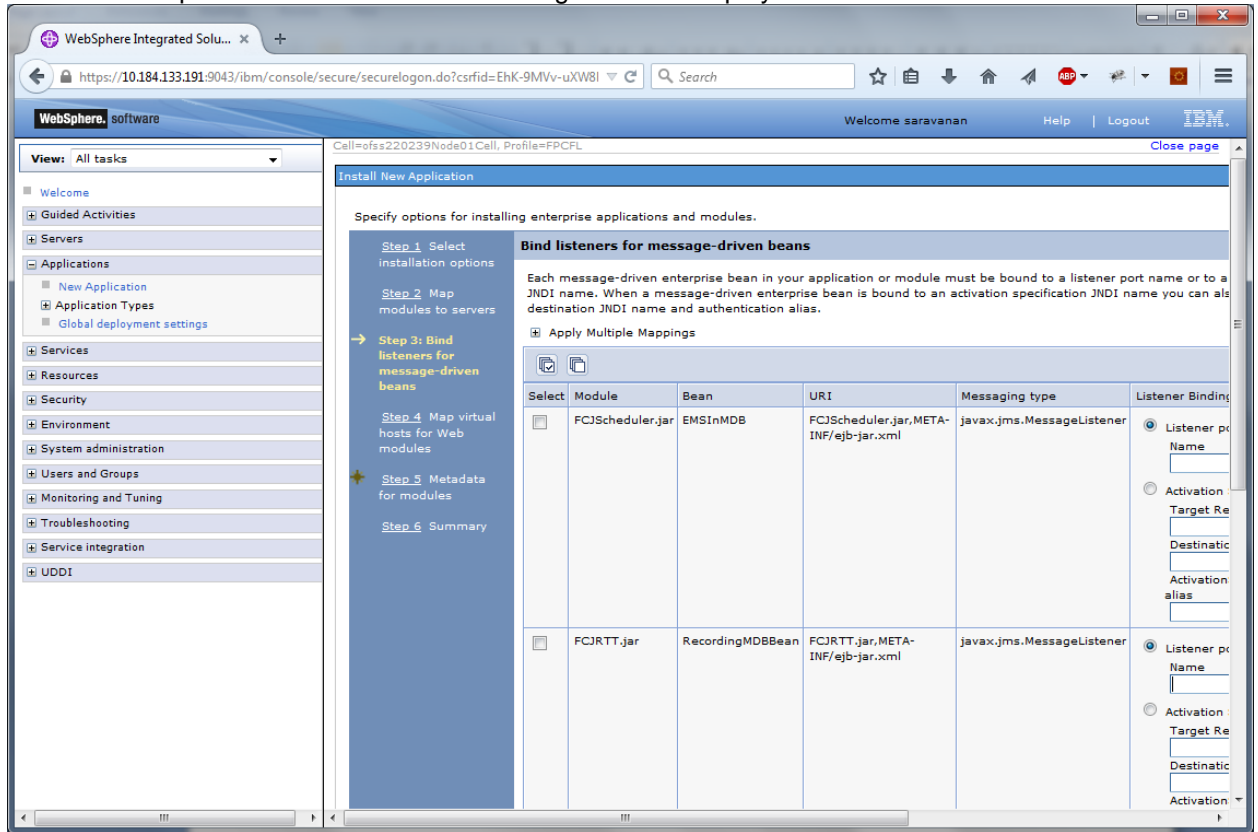
The screenshot shows the WebSphere Integrated Solutions console. The main content area is titled "Map modules to servers" and contains the following table:

Select	Module	URI	Server
<input type="checkbox"/>	FCJGeneralEJB.jar	FCJGeneralEJB.jar,META-INF/ejb-jar.xml	WebSphere:cell=ofss220239Node01Cell,node=ofss220239Node01,server=server1
<input type="checkbox"/>	FCJSMS.jar	FCJSMS.jar,META-INF/ejb-jar.xml	WebSphere:cell=ofss220239Node01Cell,node=ofss220239Node01,server=server1
<input type="checkbox"/>	FCJBatch.jar	FCJBatch.jar,META-INF/ejb-jar.xml	WebSphere:cell=ofss220239Node01Cell,node=ofss220239Node01,server=server1
<input type="checkbox"/>	FCServiceEJB.jar	FCServiceEJB.jar,META-INF/ejb-jar.xml	WebSphere:cell=ofss220239Node01Cell,node=ofss220239Node01,server=server1
<input type="checkbox"/>	FCJScheduler.jar	FCJScheduler.jar,META-INF/ejb-jar.xml	WebSphere:cell=ofss220239Node01Cell,node=ofss220239Node01,server=server1
<input type="checkbox"/>	FCJRTT.jar	FCJRTT.jar,META-INF/ejb-jar.xml	WebSphere:cell=ofss220239Node01Cell,node=ofss220239Node01,server=server1
<input type="checkbox"/>	ELCMEJB.jar	ELCMEJB.jar,META-INF/ejb-jar.xml	WebSphere:cell=ofss220239Node01Cell,node=ofss220239Node01,server=server1
<input type="checkbox"/>	ELGateway.jar	ELCGateway.jar,META-INF/ejb-jar.xml	WebSphere:cell=ofss220239Node01Cell,node=ofss220239Node01,server=server1
<input type="checkbox"/>	FlexCubeCorporate	FCJNeoWeb.war,WEB-INF/web.xml	WebSphere:cell=ofss220239Node01Cell,node=ofss220239Node01,server=server1
<input type="checkbox"/>	Enterprise Limits Gateway	ELCMWeb.war,WEB-INF/web.xml	WebSphere:cell=ofss220239Node01Cell,node=ofss220239Node01,server=server1

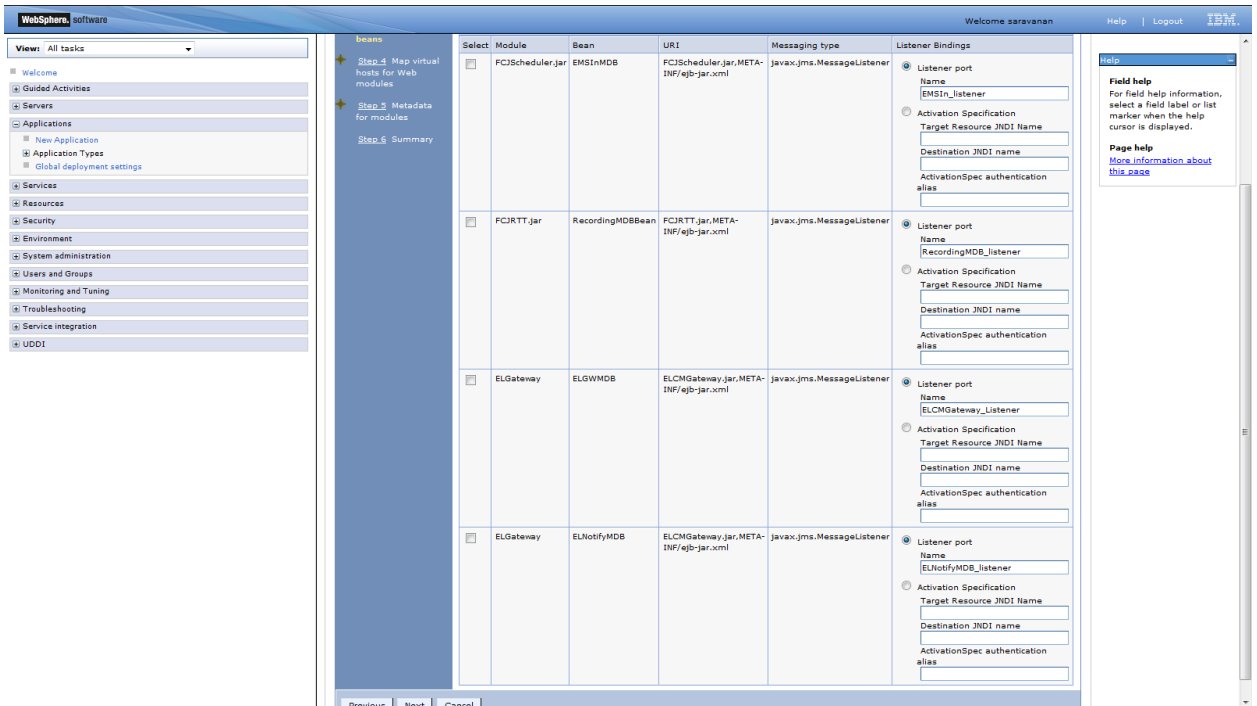
At the bottom of the console, the "Next" button is highlighted, indicating the next step in the process.



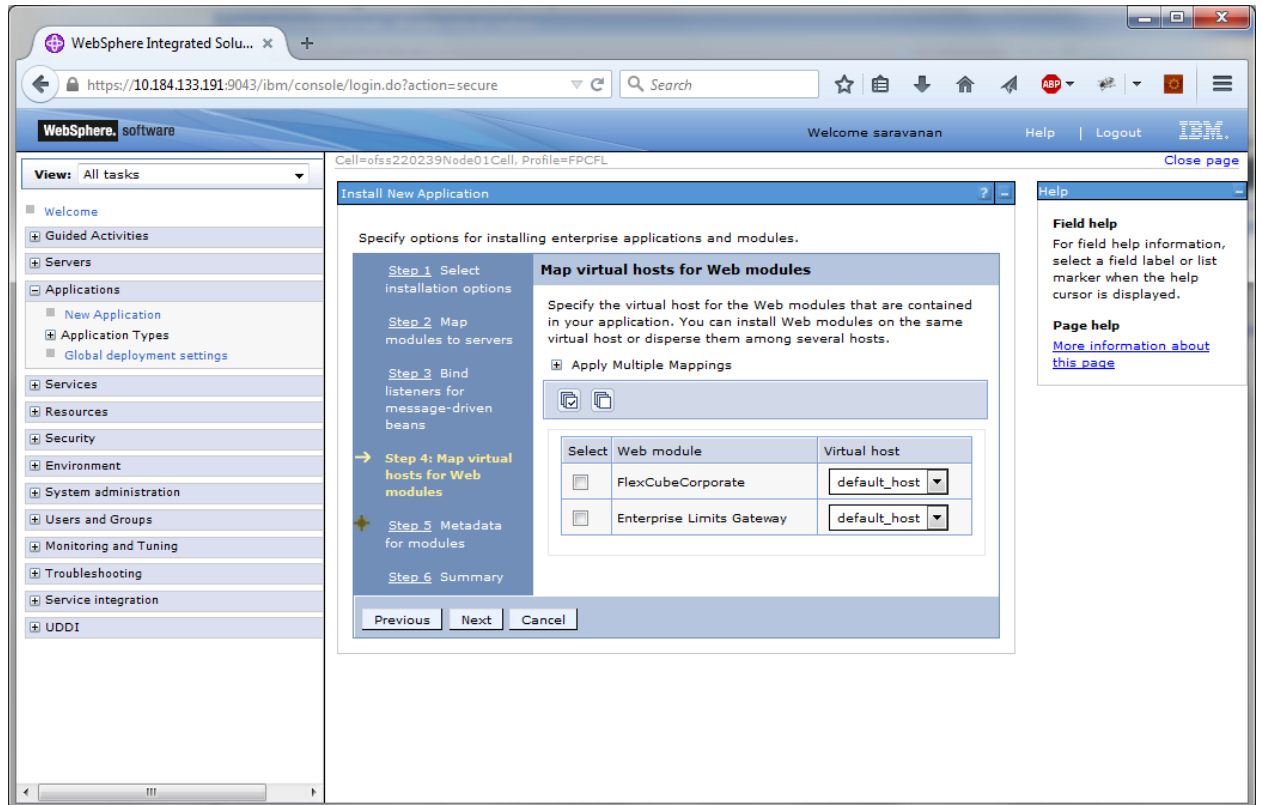
18. Check all the options. Click 'Next'. The following screen is displayed.



19. Specify the details as shown in the figure.



20. Click 'Next'. Following screen is displayed



21. Click 'Next'.

The following screen is displayed.

WebSphere Integrated Solu... x +

https://10.184.133.191:9043/ibm/console/login.do?action=secure

WebSphere, software Welcome saravanan Help | Logout IBM

View: All tasks

- Welcome
- Guided Activities
- Servers
- Applications
  - New Application
  - Application Types
  - Global deployment settings
- Services
- Resources
- Security
- Environment
- System administration
- Users and Groups
- Monitoring and Tuning
- Troubleshooting
- Service integration
- UDDI

listeners for message-driven beans

Step 4 Map virtual hosts for Web modules

→ Step 5: Metadata for modules

Step 6 Summary

read. If the attribute remains 'false', then the annotation-based metadata is scanned each time the module is read and can impact performance.

Module	URI	metadata-complete attribute
FCJGeneralEJB.jar	FCJGeneralEJB.jar,META-INF/ejb-jar.xml	<input type="checkbox"/>
FCJSMS.jar	FCJSMS.jar,META-INF/ejb-jar.xml	<input type="checkbox"/>
FCJBatch.jar	FCJBatch.jar,META-INF/ejb-jar.xml	<input type="checkbox"/>
FCServiceEJB.jar	FCServiceEJB.jar,META-INF/ejb-jar.xml	<input type="checkbox"/>
FCJScheduler.jar	FCJScheduler.jar,META-INF/ejb-jar.xml	<input type="checkbox"/>
FCJRTT.jar	FCJRTT.jar,META-INF/ejb-jar.xml	<input type="checkbox"/>
ELCMEJB	ELCMEJB.jar,META-INF/ejb-jar.xml	<input type="checkbox"/>
ELGateway	ELCMGateway.jar,META-INF/ejb-jar.xml	<input type="checkbox"/>
FlexCubeCorporate	FCJNeoWeb.war,WEB-INF/web.xml	<input type="checkbox"/>
Enterprise Limits Gateway	ELCMWeb.war,WEB-INF/web.xml	<input type="checkbox"/>

Previous Next Cancel

FCJ Highlight All Match Case 20 of 20 matches

Help

**Field help**  
For field help information, select a field label or list marker when the help cursor is displayed.

**Page help**  
[More information about this page](#)

Click next.

WebSphere Integrated Solu... x +

https://10.184.133.191:9043/ibm/console/secure/securelogon.do?csrfid=EhK-9MvU-uXW8I

WebSphere, software Welcome saravanan Help | Logout IBM

View: All tasks

- Welcome
- Guided Activities
- Servers
- Applications
  - New Application
  - Application Types
  - Global deployment settings
- Services
- Resources
- Security
- Environment
- System administration
- Users and Groups
- Monitoring and Tuning
- Troubleshooting
- Service integration
- UDDI

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

**Summary**

Summary of installation options

Options	Values
Precompile JavaServer Pages files	No
Directory to install application	
Distribute application	Yes
Use Binary Configuration	No
Deploy enterprise beans	No
Application name	FCUBSApp
Create MBeans for resources	Yes
Override class reloading settings for Web and EJB modules	No
Reload interval in seconds	
Deploy Web services	No
Validate Input off/warn/fail	warn
Process embedded configuration	No
File Permission	.*\,dll=755#.*\,so=755#.*\,a=755#.*\,sl=755
Application Build ID	Unknown
Allow dispatching includes to remote resources	No
Allow servicing includes from remote resources	No
Business level application name	
Asynchronous Request Dispatch Type	Disabled
Allow EJB reference targets to resolve automatically	No

Help

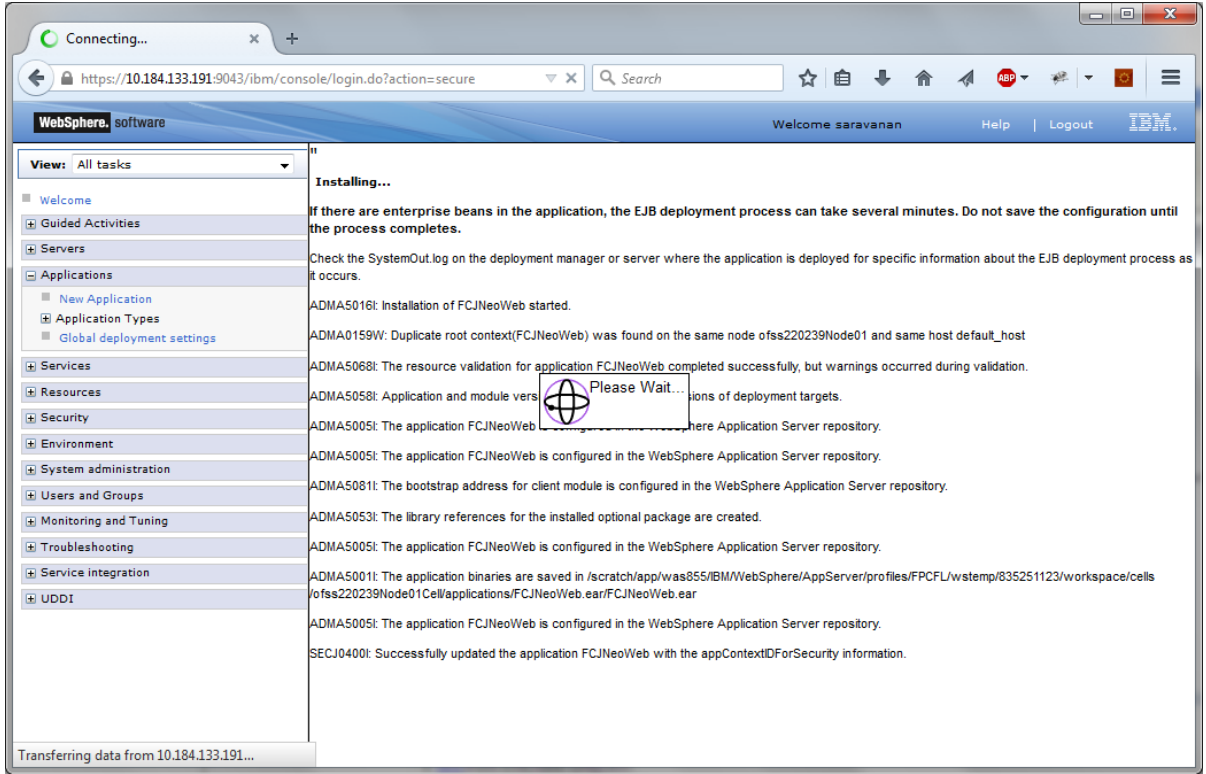
**Field help**  
For field help information, select a field label or list marker when the help cursor is displayed.

**Page help**  
[More information about this page](#)

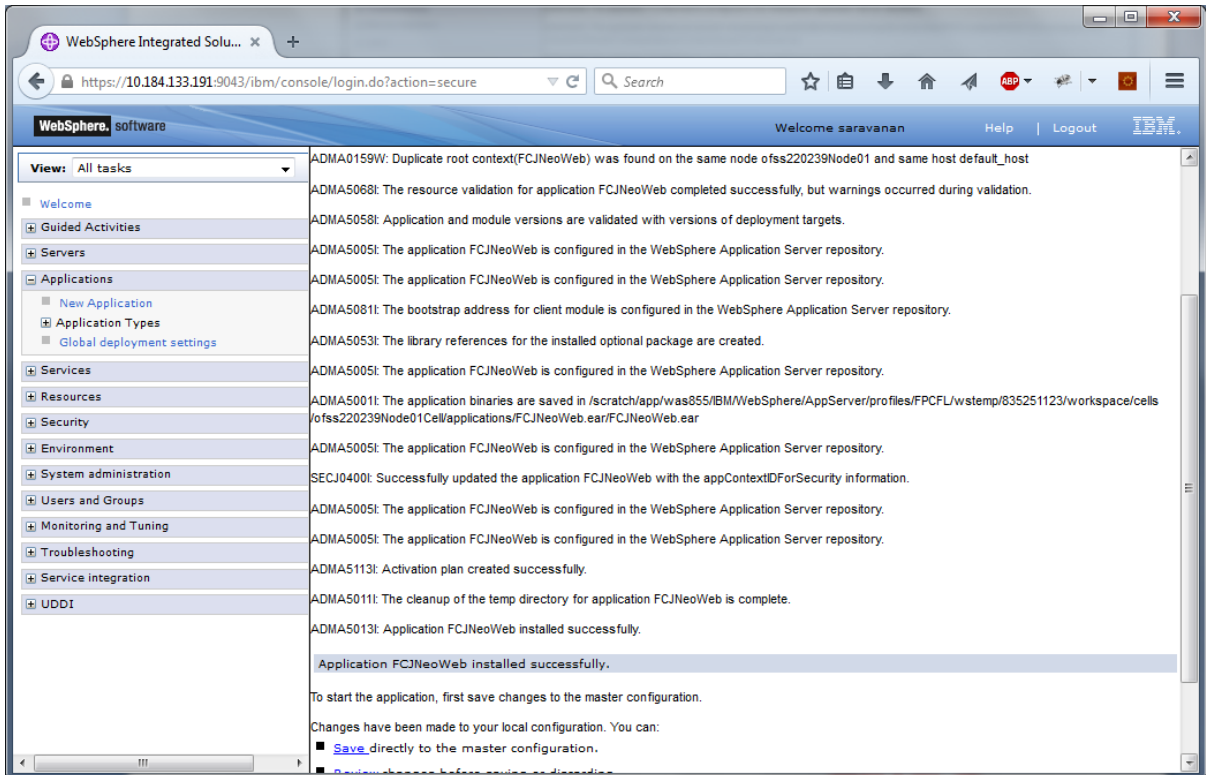
**Command Assistance**  
[View administrative scripting command for last action](#)

22. Click 'Finish'.

The following screen is displayed.

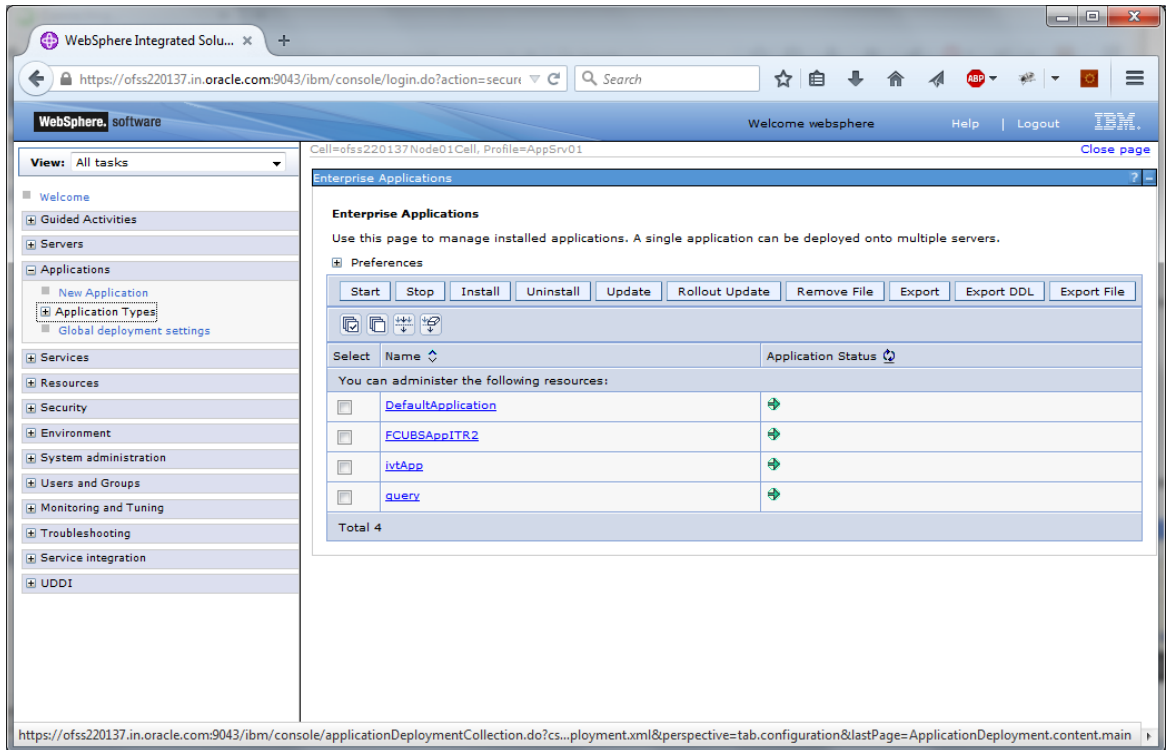


Wait for few seconds...



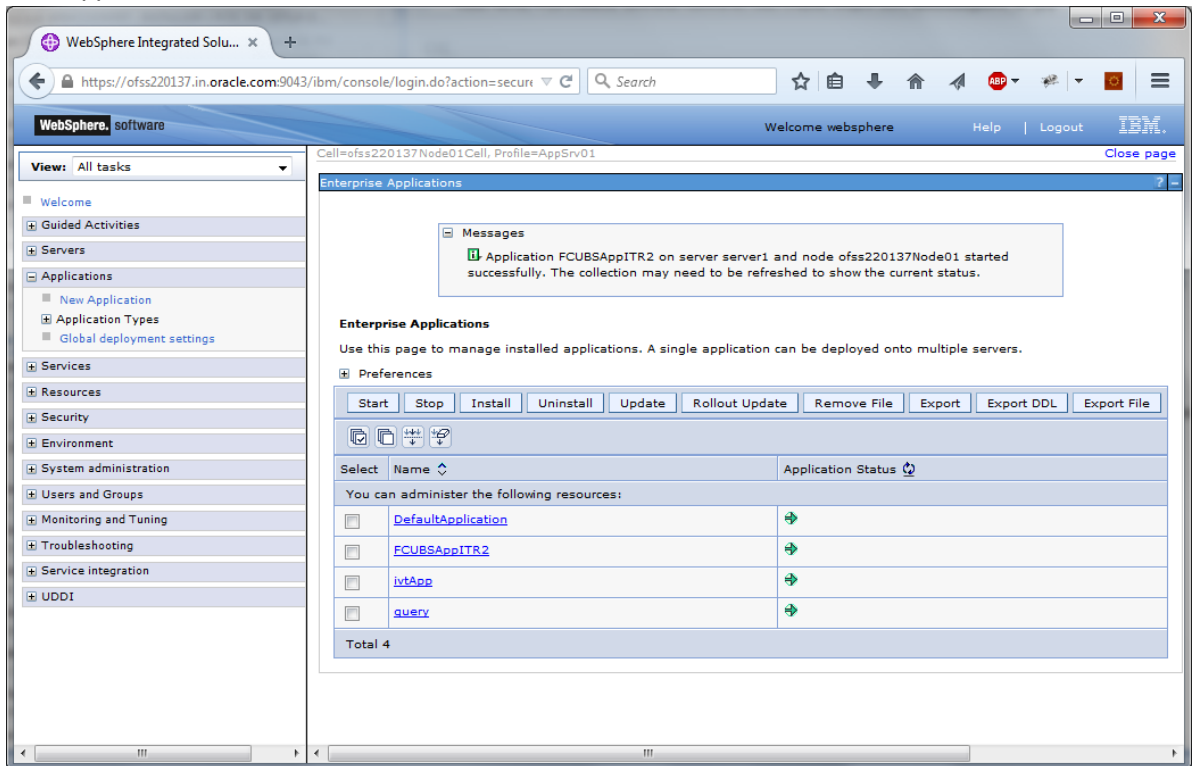
23. Click 'Save'.

The following screen is displayed.



24. Select the application and click 'Start'.

The application starts as shown below:



This completes the deployment of EAR (FCJNeoWeb.ear) on IBM WebSphere 9.0.0.0 Application Server from the Administration Console.

### 1.2.3 **FCUBS Scheduler Application Deployment**

To deploy Oracle FLEXCUBE UBS application on WebSphere application server, follow the steps given below:

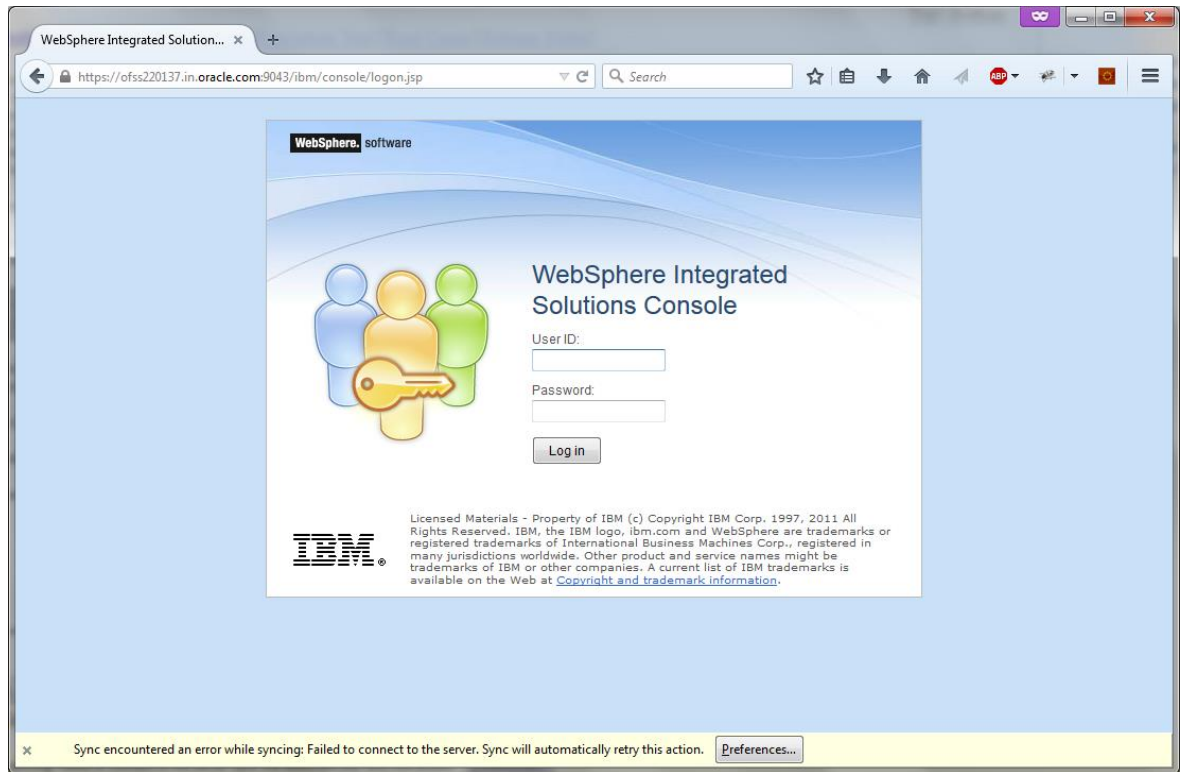
1. Open the Administrative Console of WebSphere server:

Open an internet browser and type the WebSphere Admin Console URL  
`http://{Host}:{Port}/console.`

Eg: `https://10.10.10.10:1010/console`

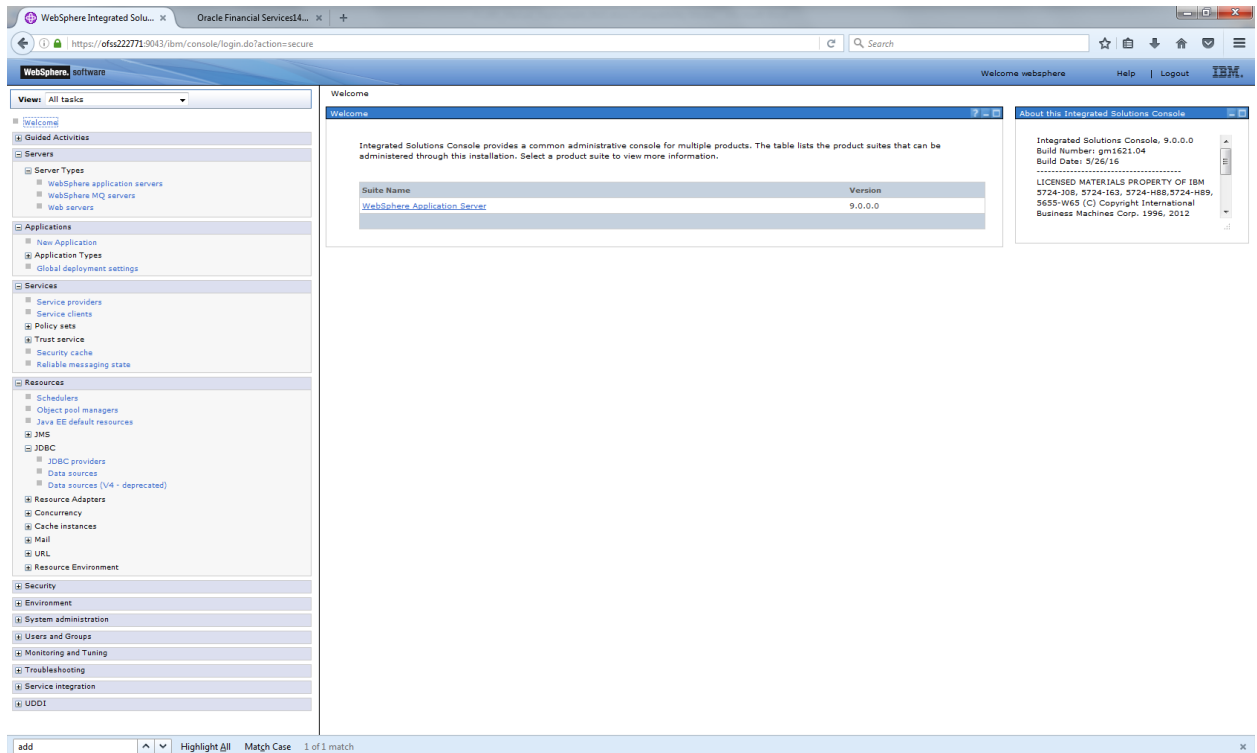
In the above example, 10.10.10.10 is the machine IP address on which WebSphere is running.

The following screen is displayed:



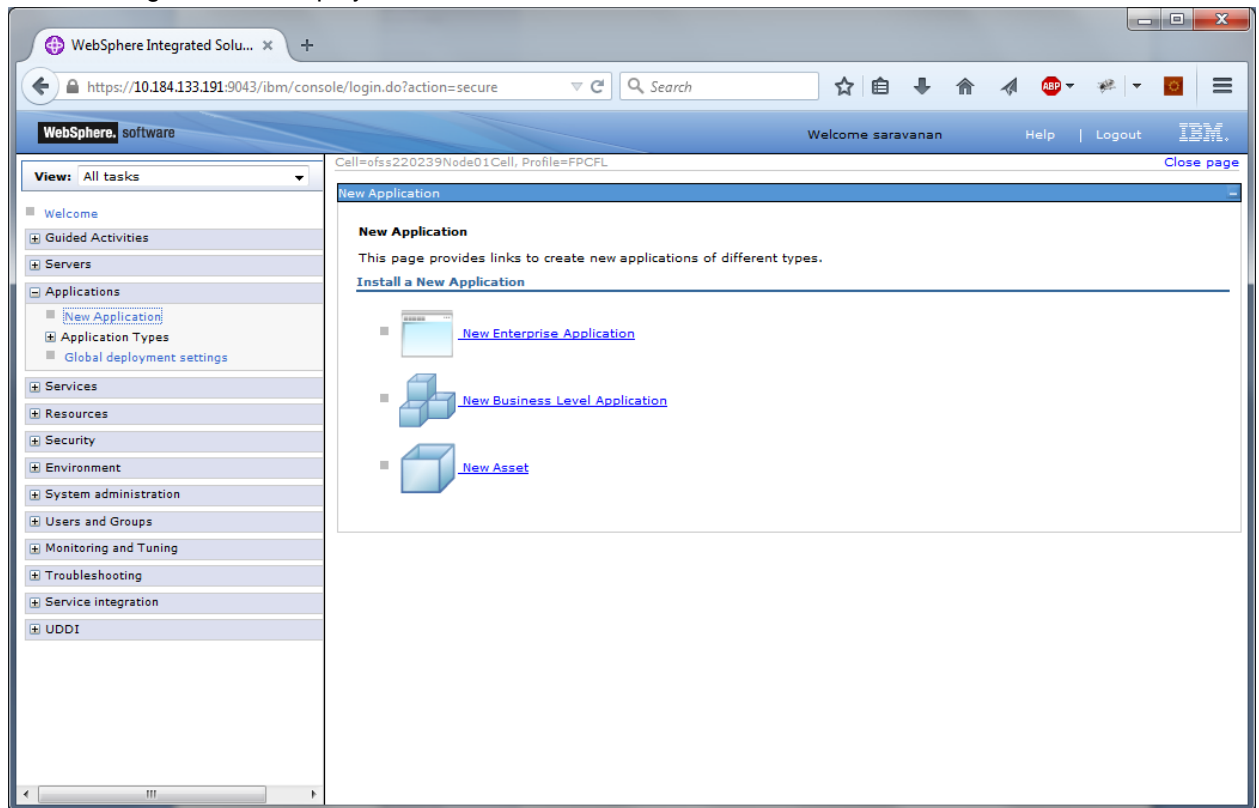
2. Enter the user name and password and click 'Log In' to log in to the application server.
3. Navigate to the WebSphere Home Page.

The following screen is displayed.

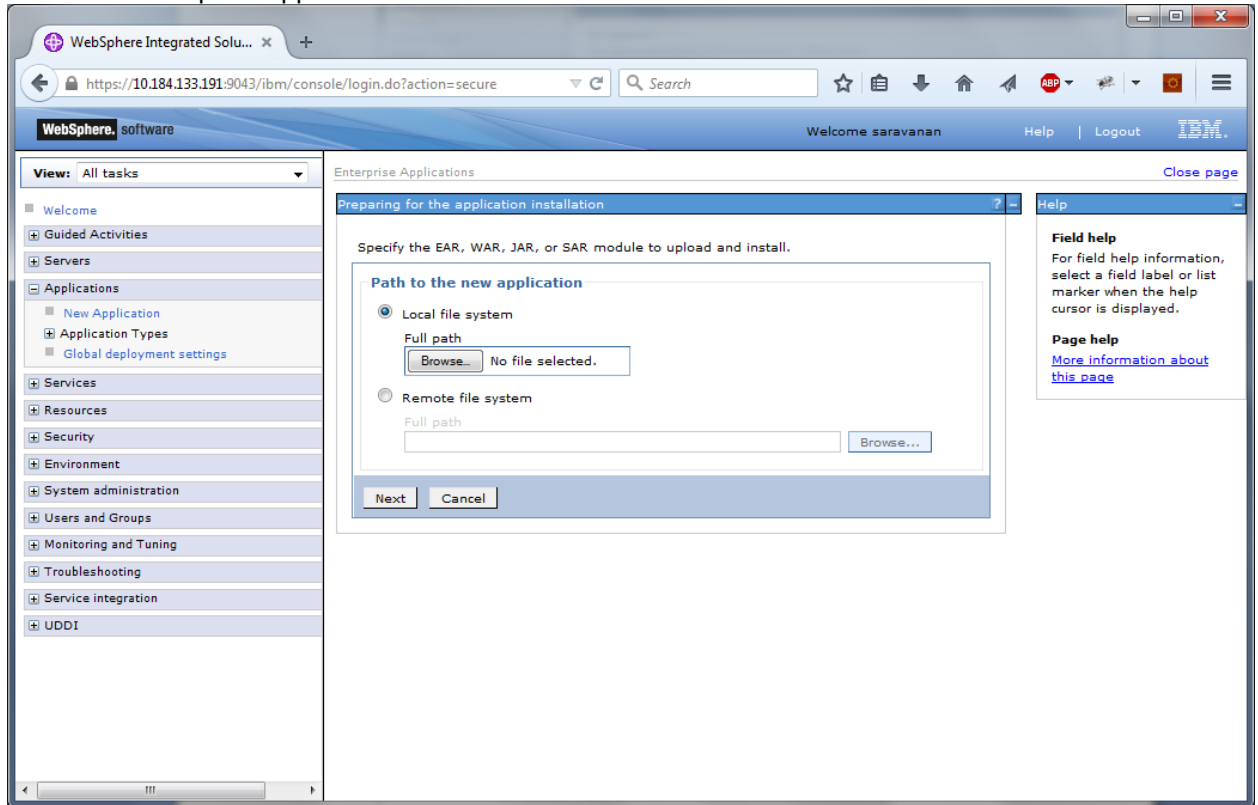


- Expand Applications from left-side menu and Click 'New Application'.

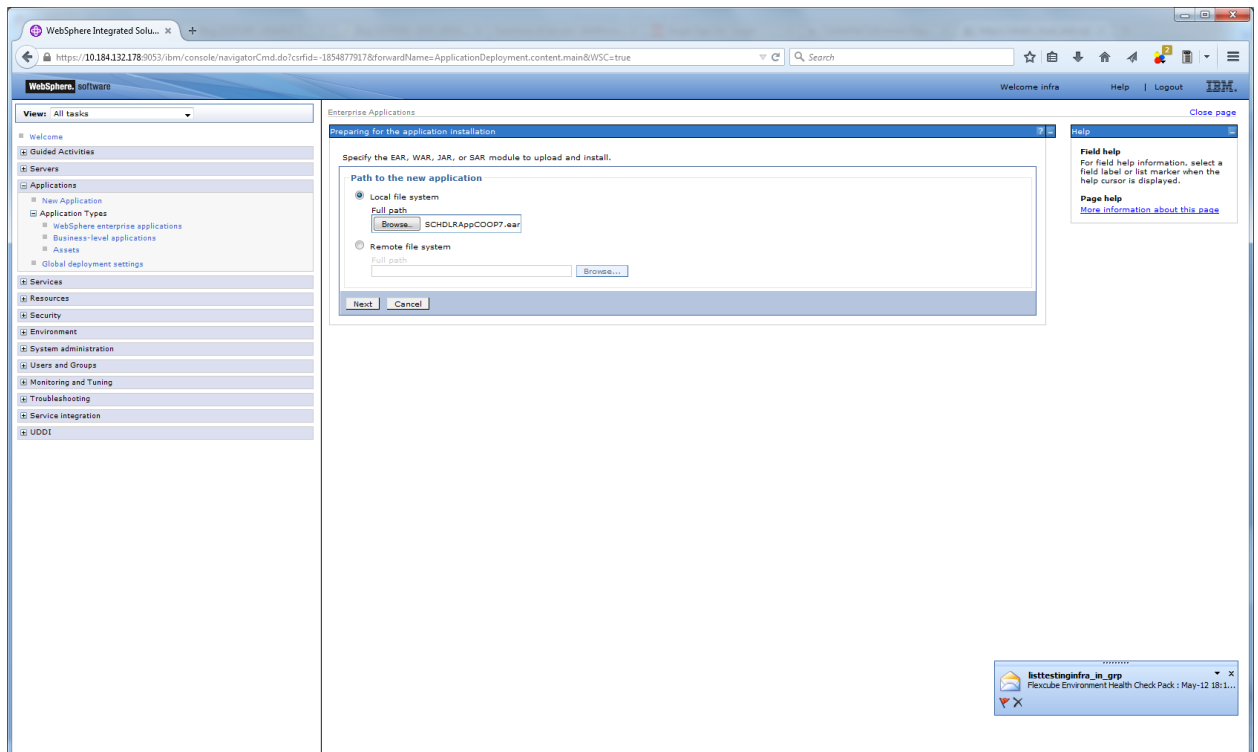
The following screen is displayed.



5. Click 'New Enterprise Application.'

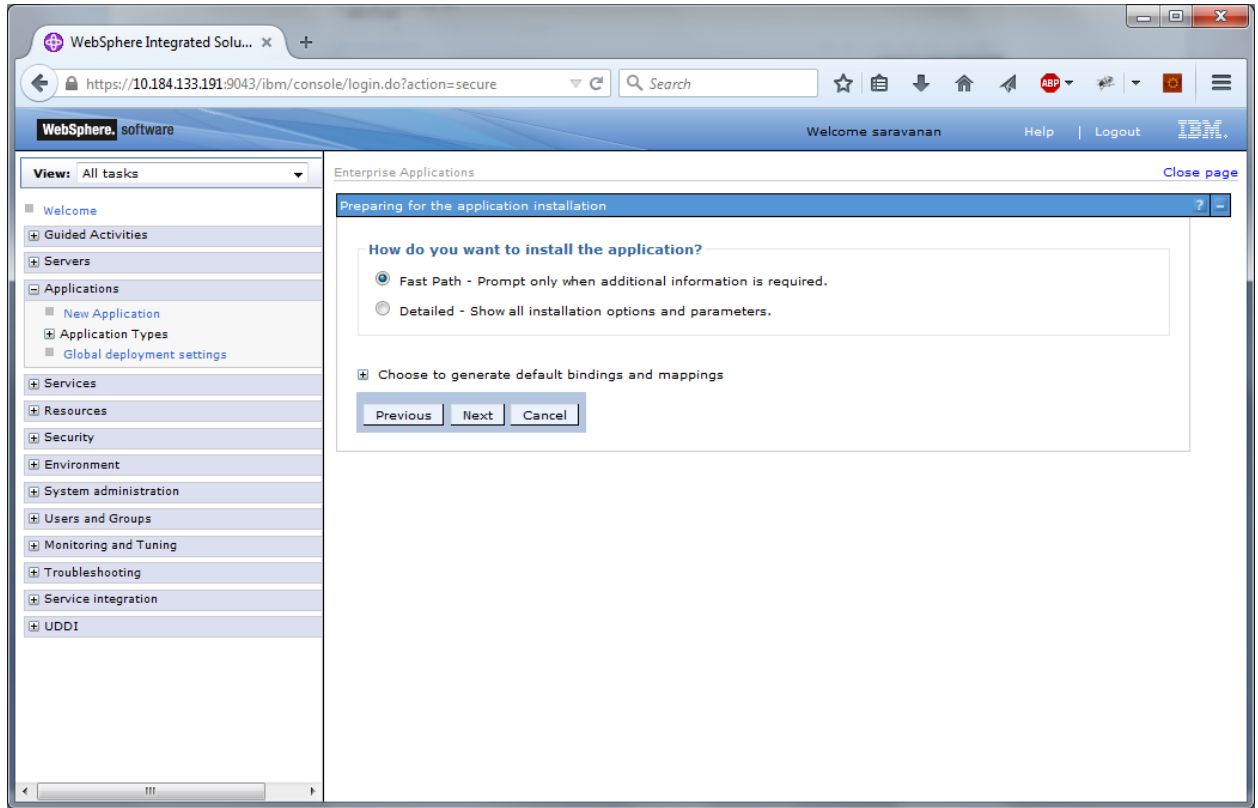


6. Browse the application EAR file and click next button

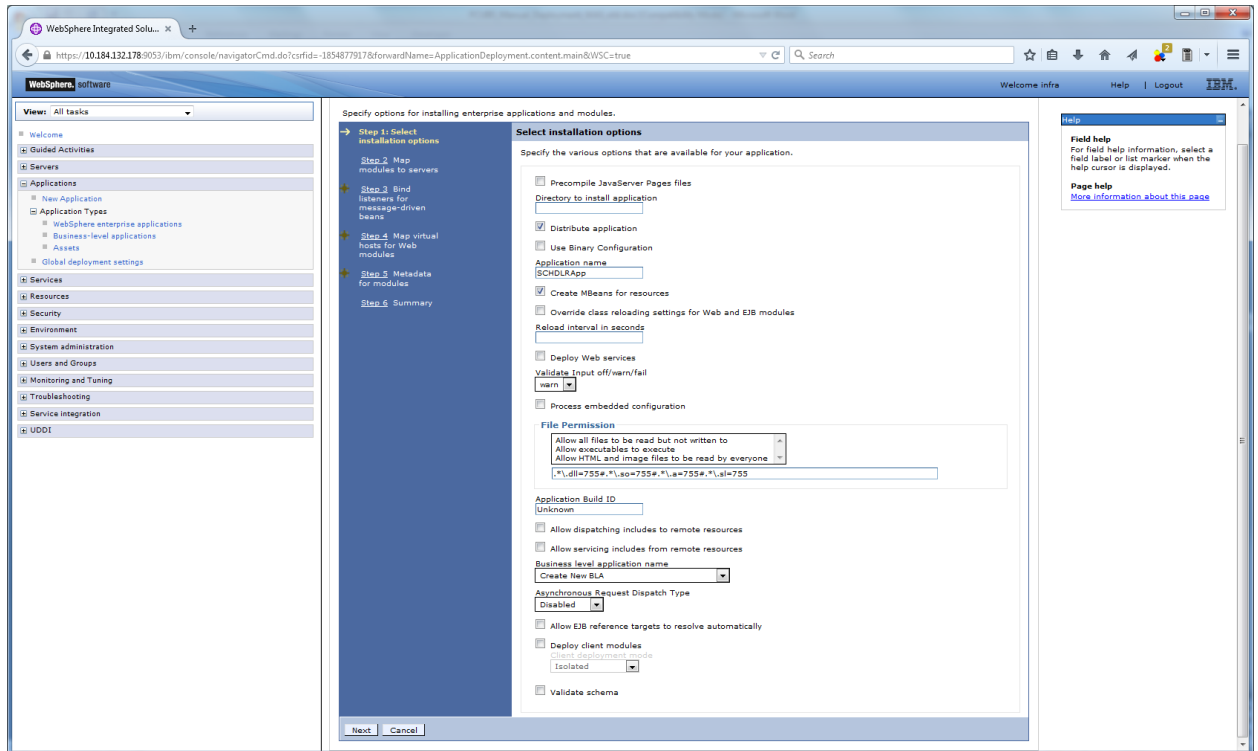


The following screen is displayed.

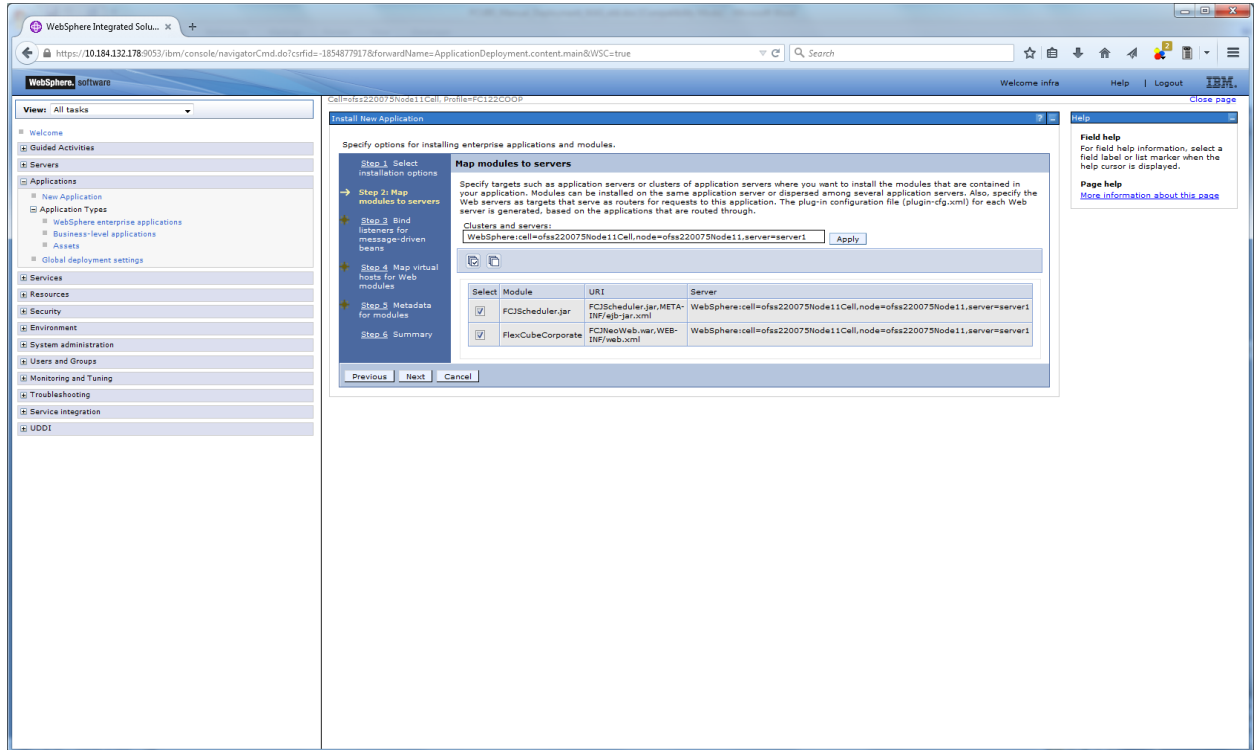




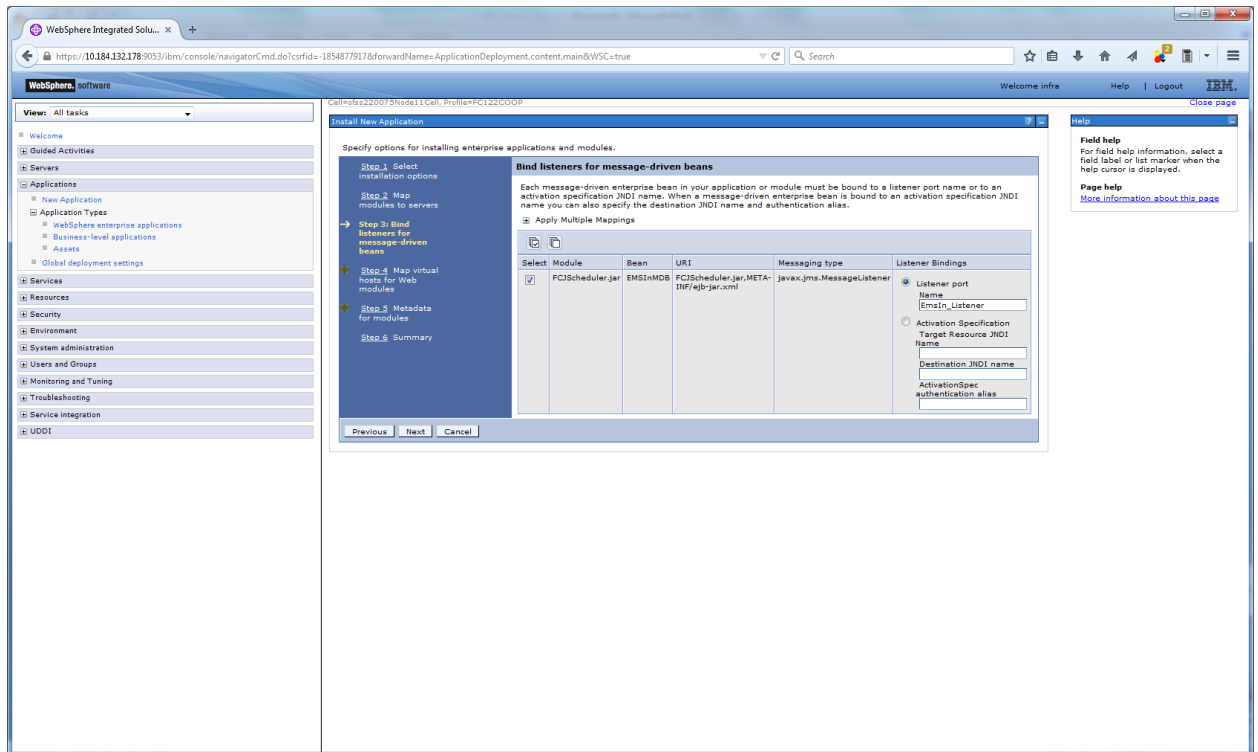
7. Click 'Next'. The following screen is displayed.



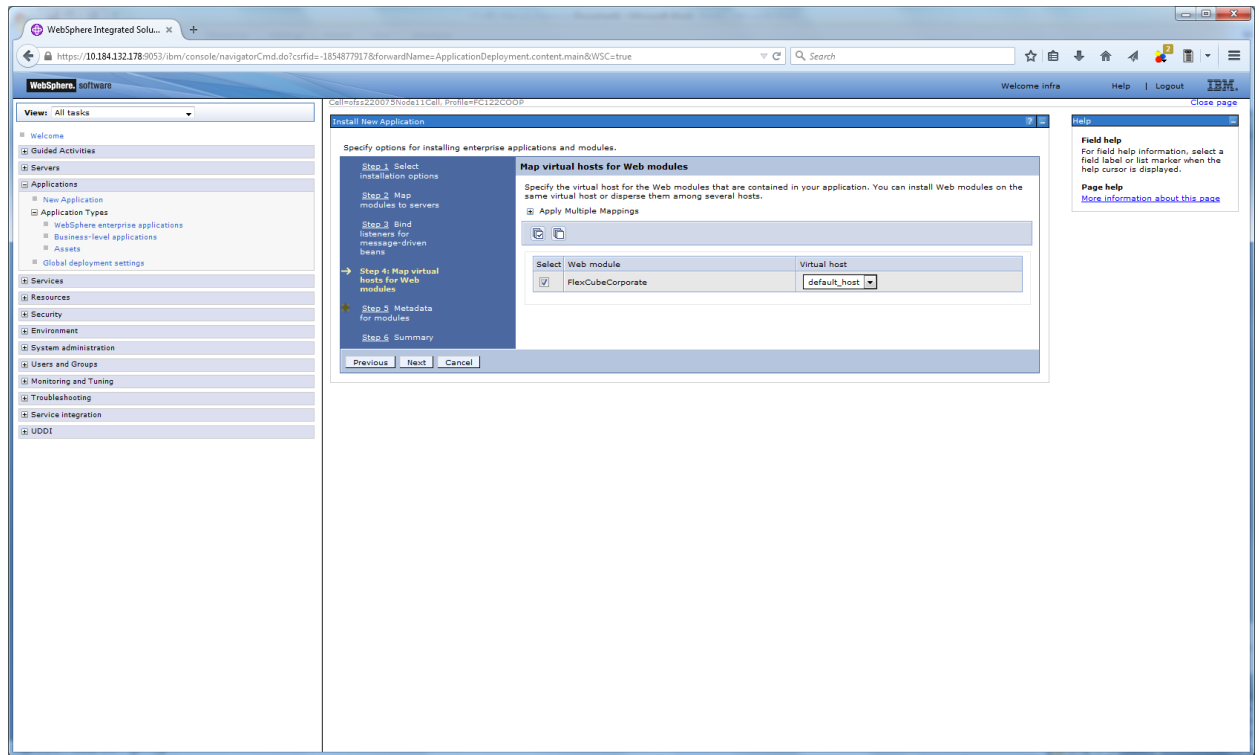
- Enter the Application Name. This should be the application name mentioned as part of EAR building.



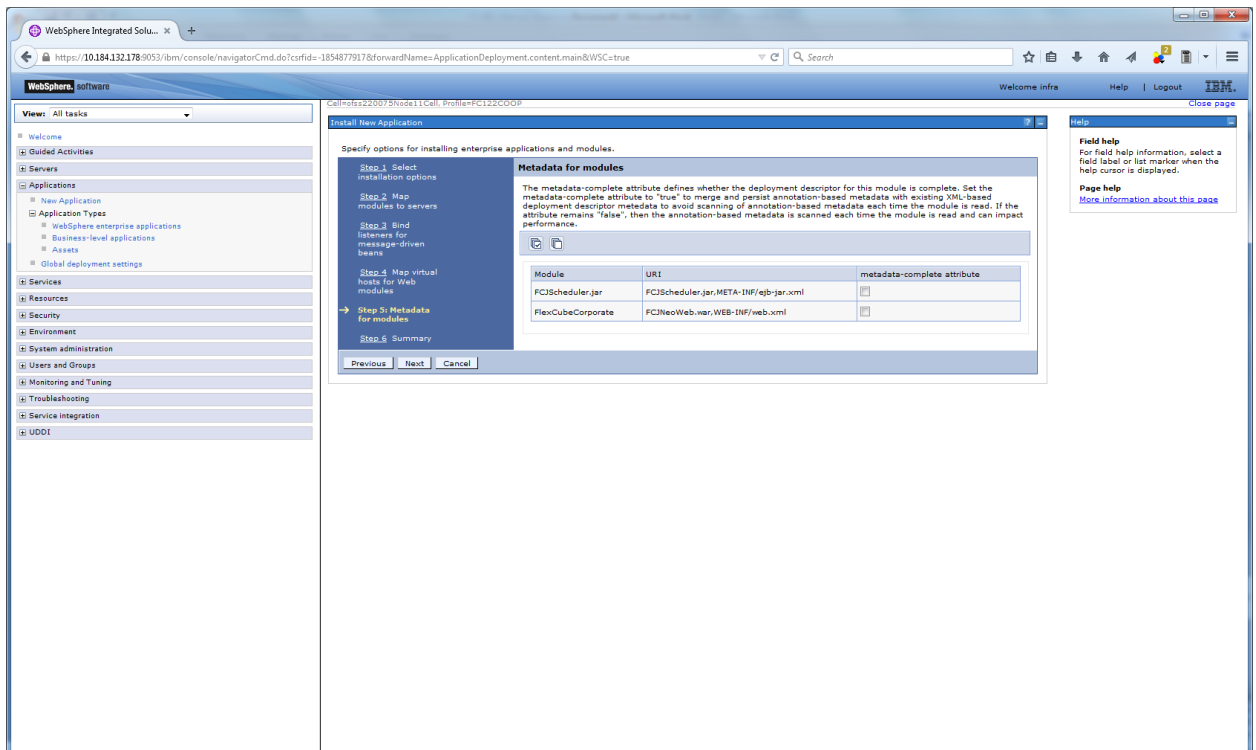
- Check all the options. Click 'Next'. The following screen is displayed.



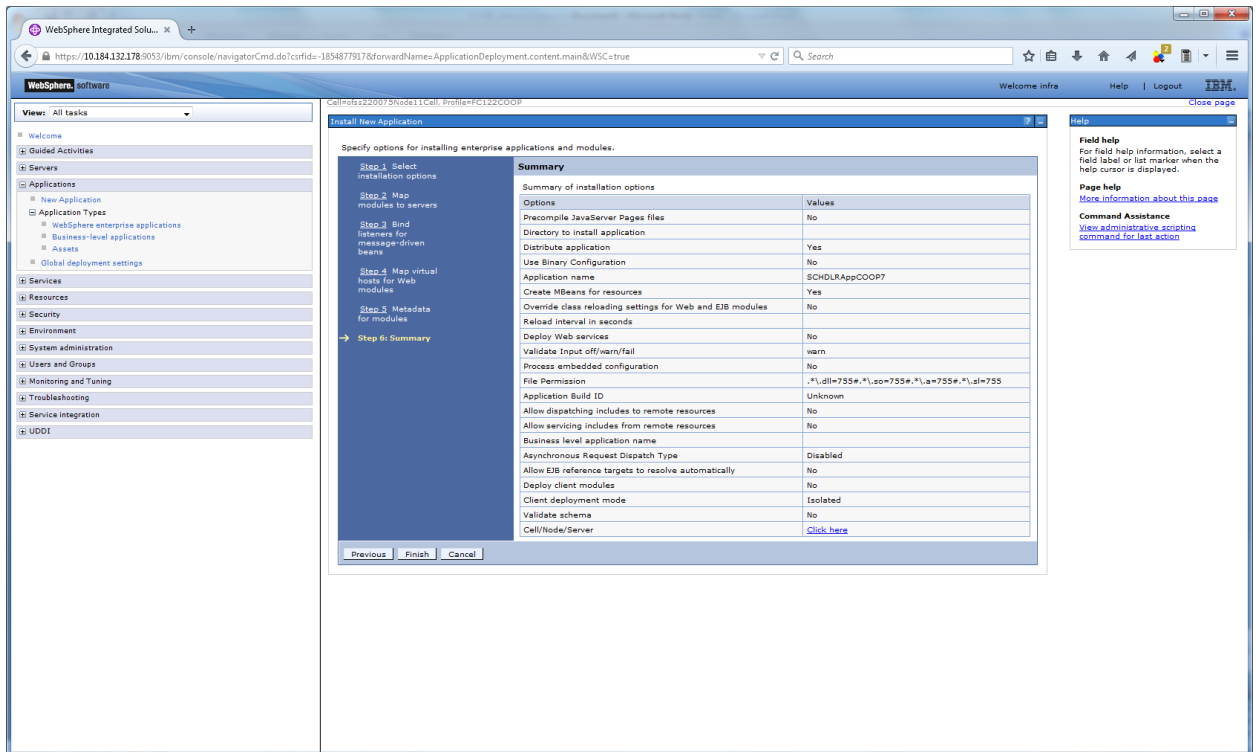
10. Specify the details as shown in the figure.



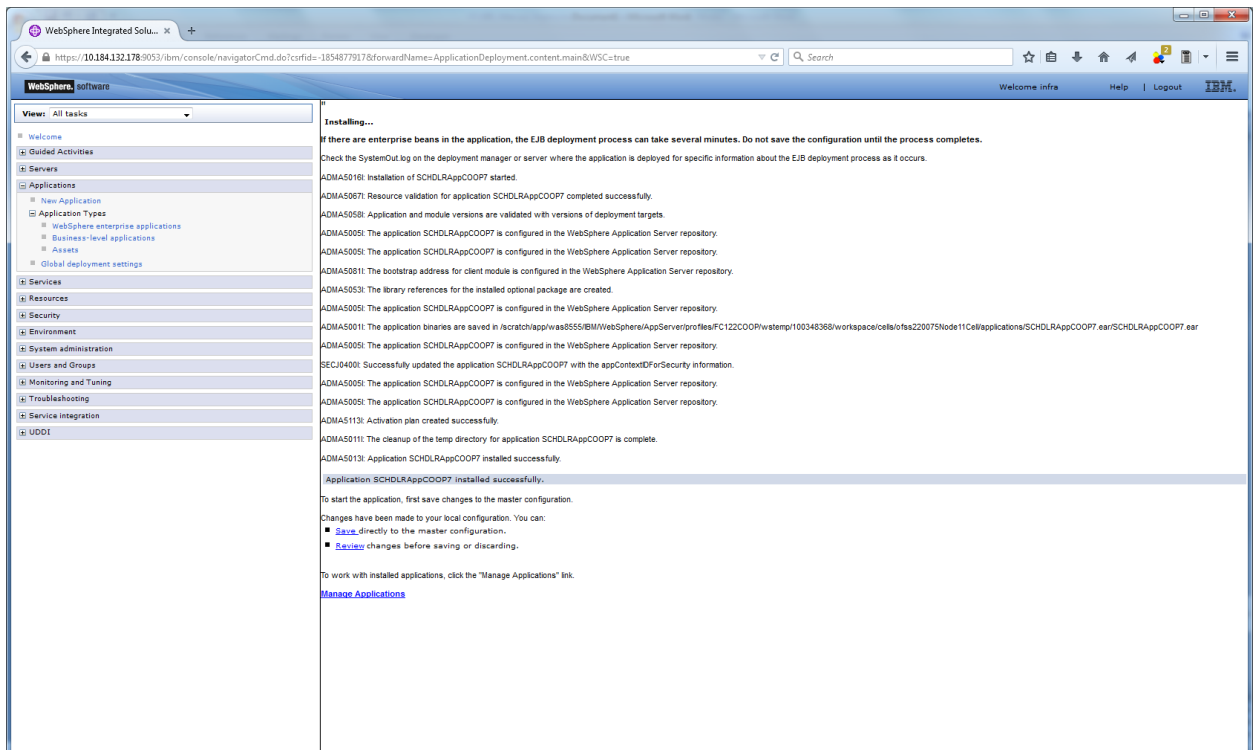
11. Click 'Next'. The following screen is displayed.



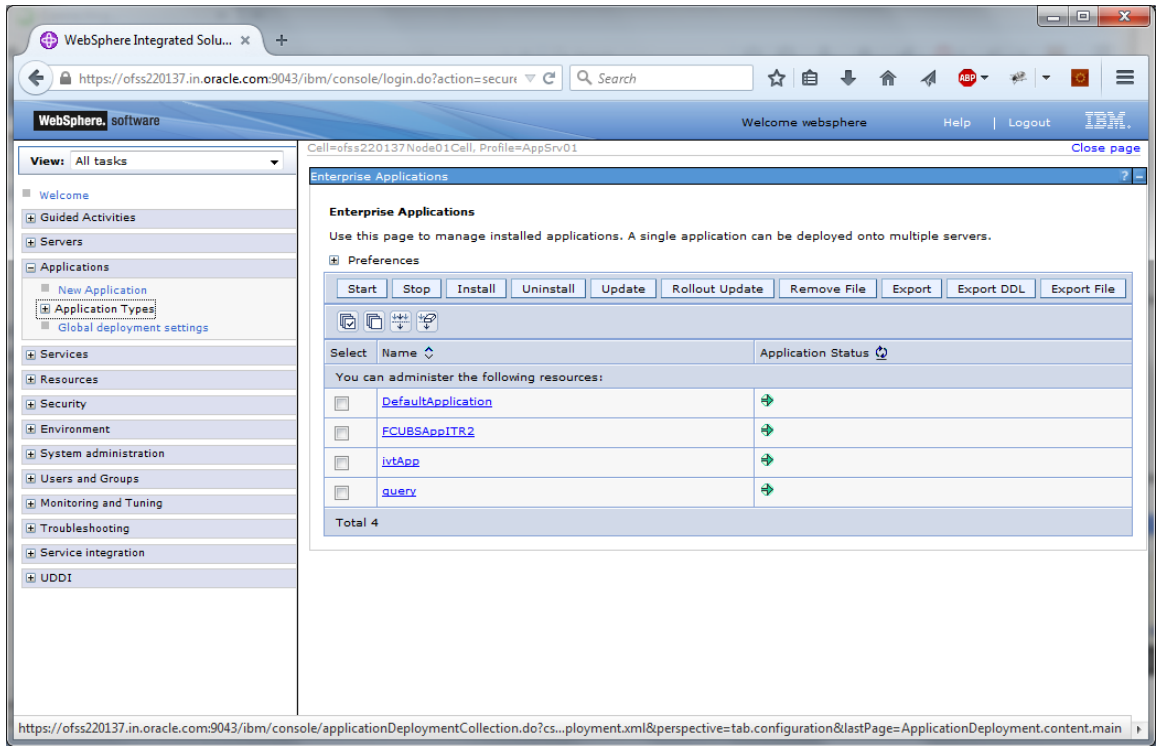
12. Click 'Next'. The following screen is displayed.



13. Click 'Finish'. The following screen is displayed.

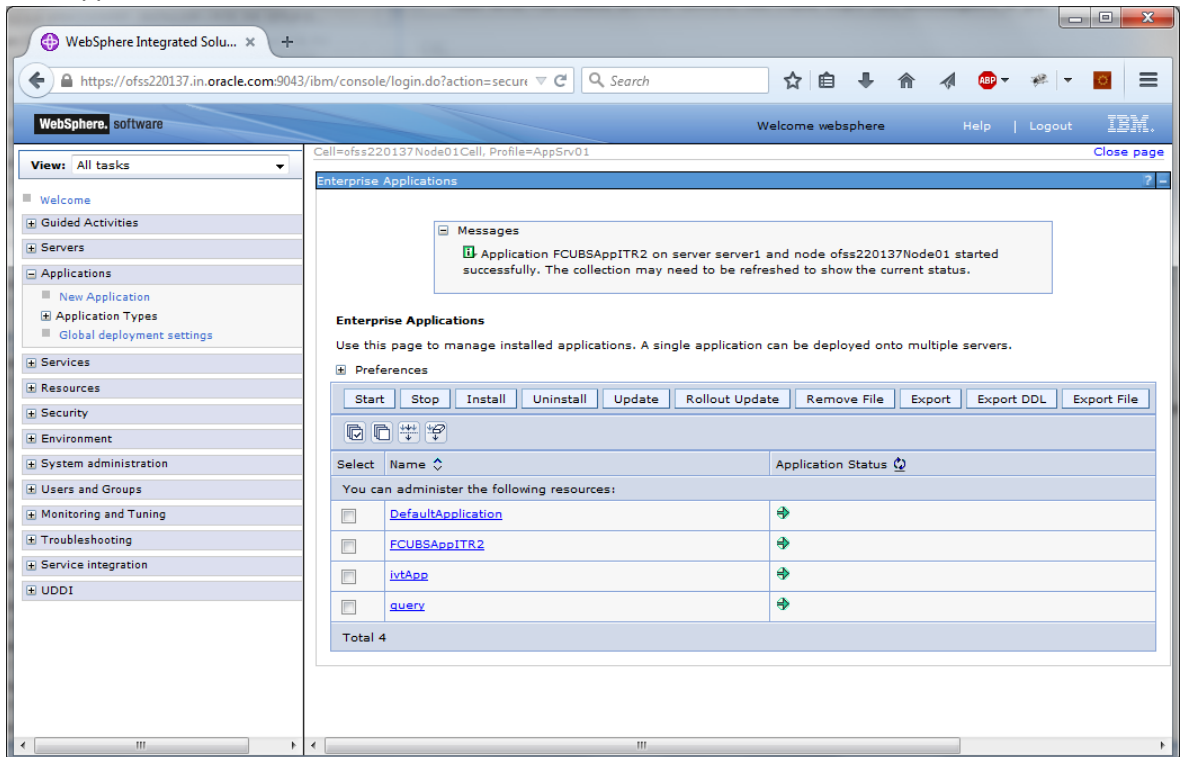


Click 'Save'. The following screen is displayed.



14. Select the application and click 'Start'.

The application starts as shown below:



## 1.2.4 FCUBS GWEJB Application Deployment

To deploy Oracle FLEXCUBE UBS application on WebSphere application server, follow the steps given below:

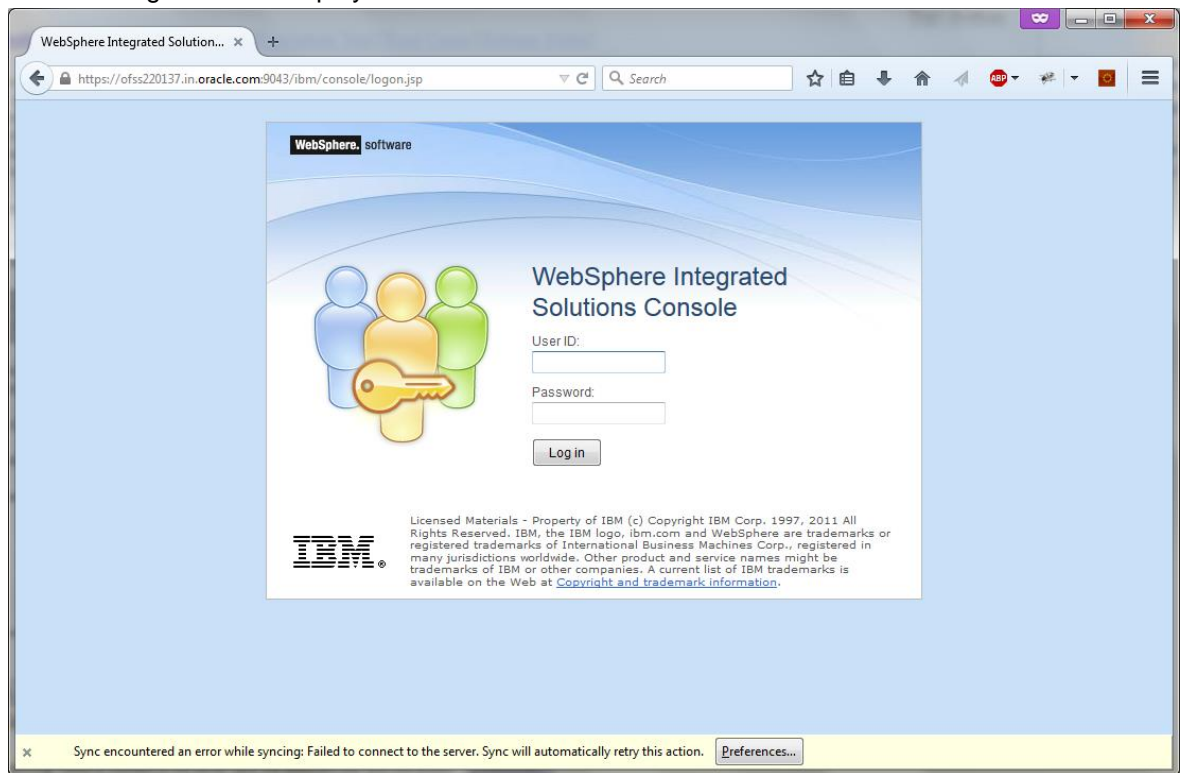
1. Open the Administrative Console of WebSphere server:

Open an internet browser and type the WebSphere Admin Console URL  
`http://{Host}:{Port}/console.`

Eg: `https://10.10.10.10:1010/console`

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

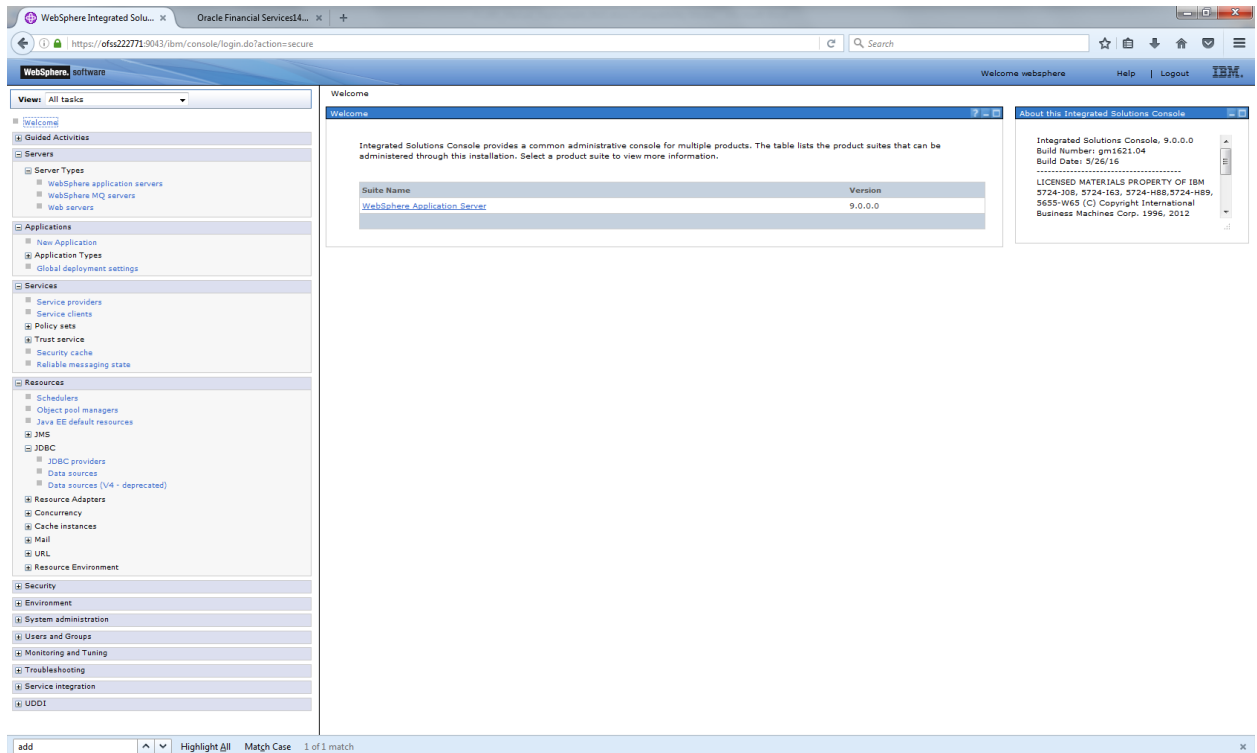
The following screen is displayed:



2. Enter the user name and password and click 'Log In' to log in to the application server.

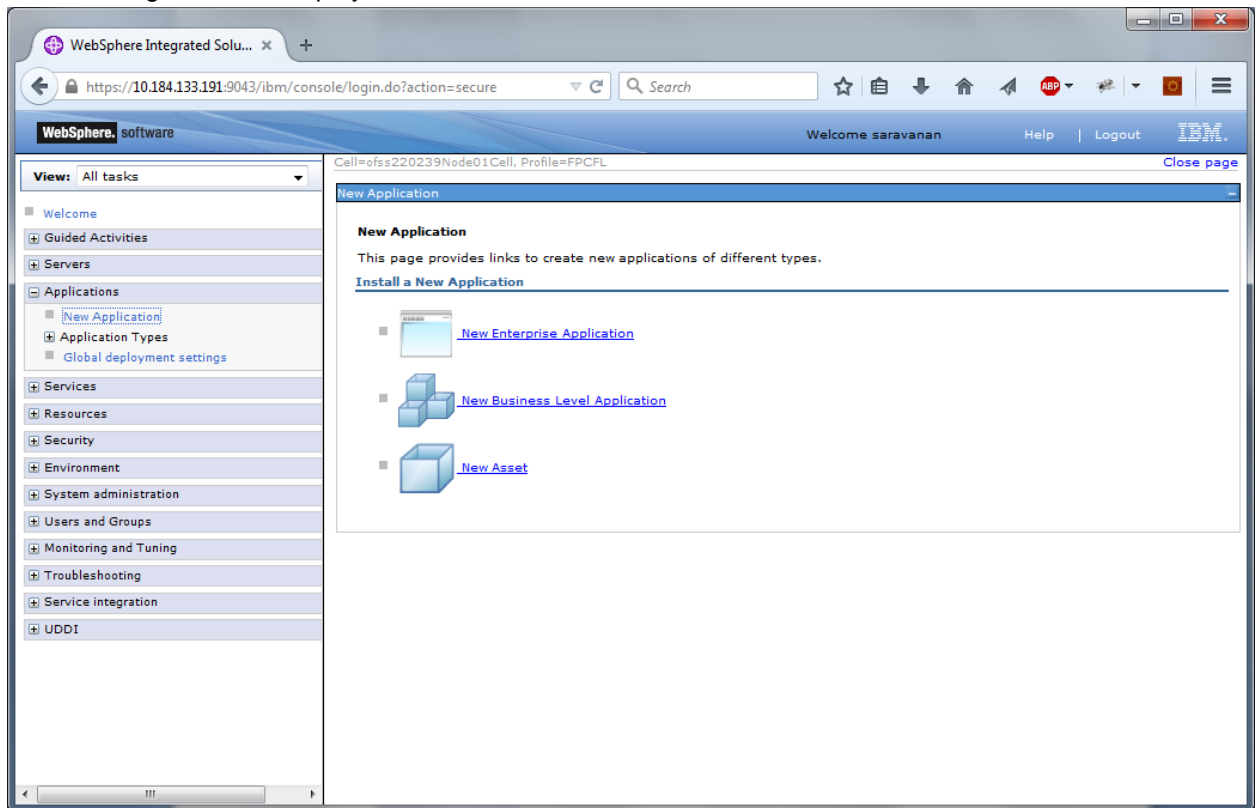
3. Navigate to the WebSphere Home Page.

The following screen is displayed.

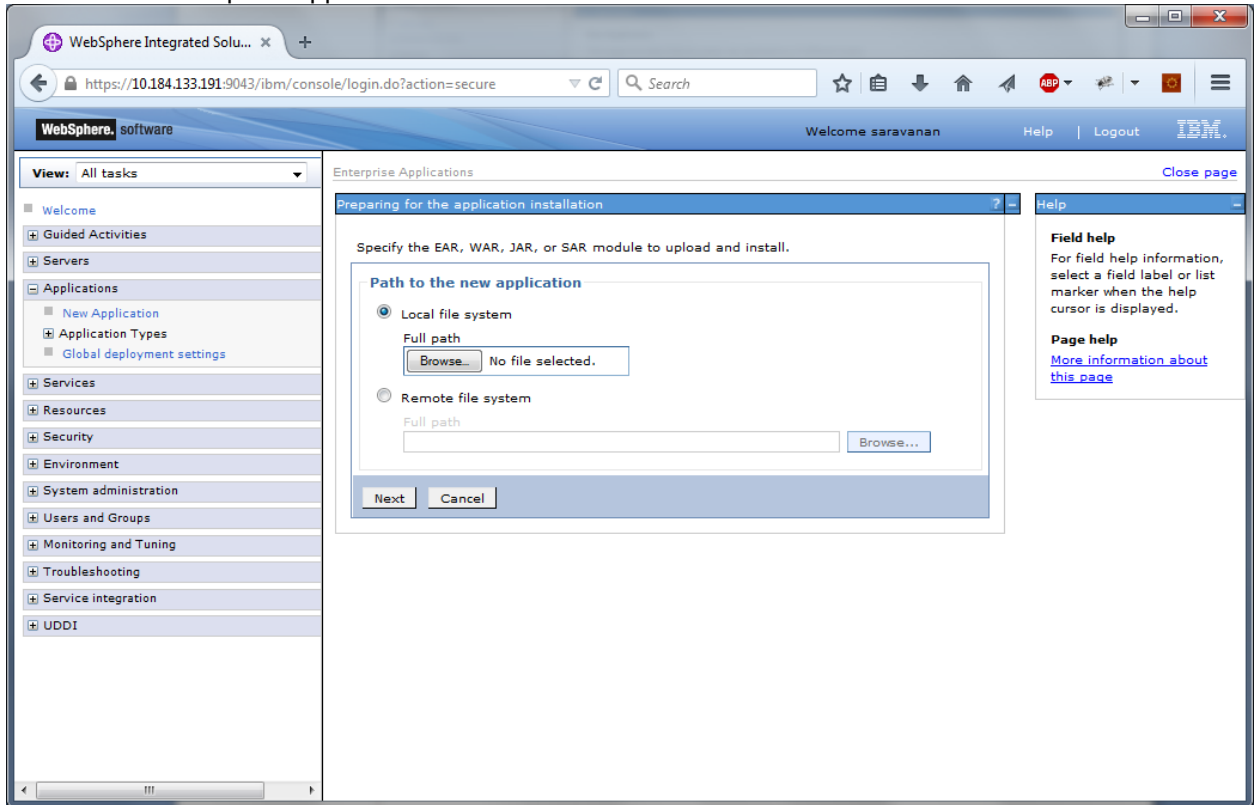


4. Expand Applications from left-side menu and Click 'New Application'.

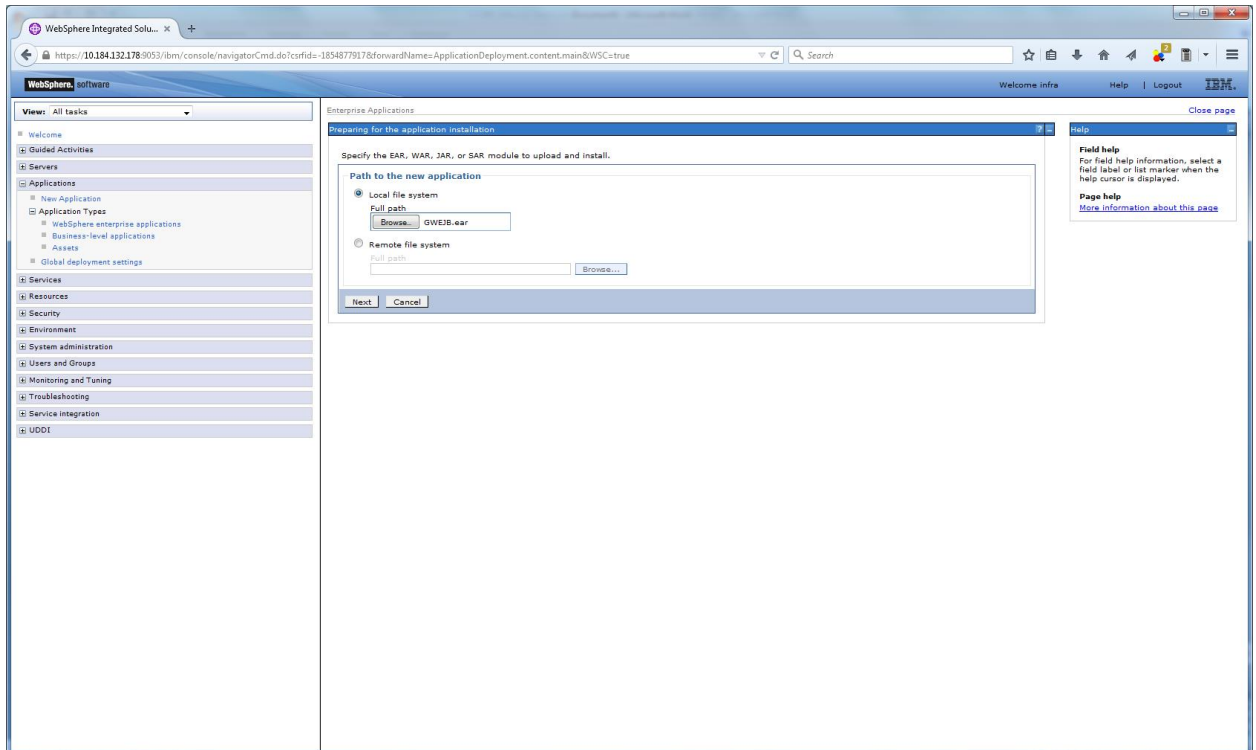
The following screen is displayed.



5. Click 'New Enterprise Application.'

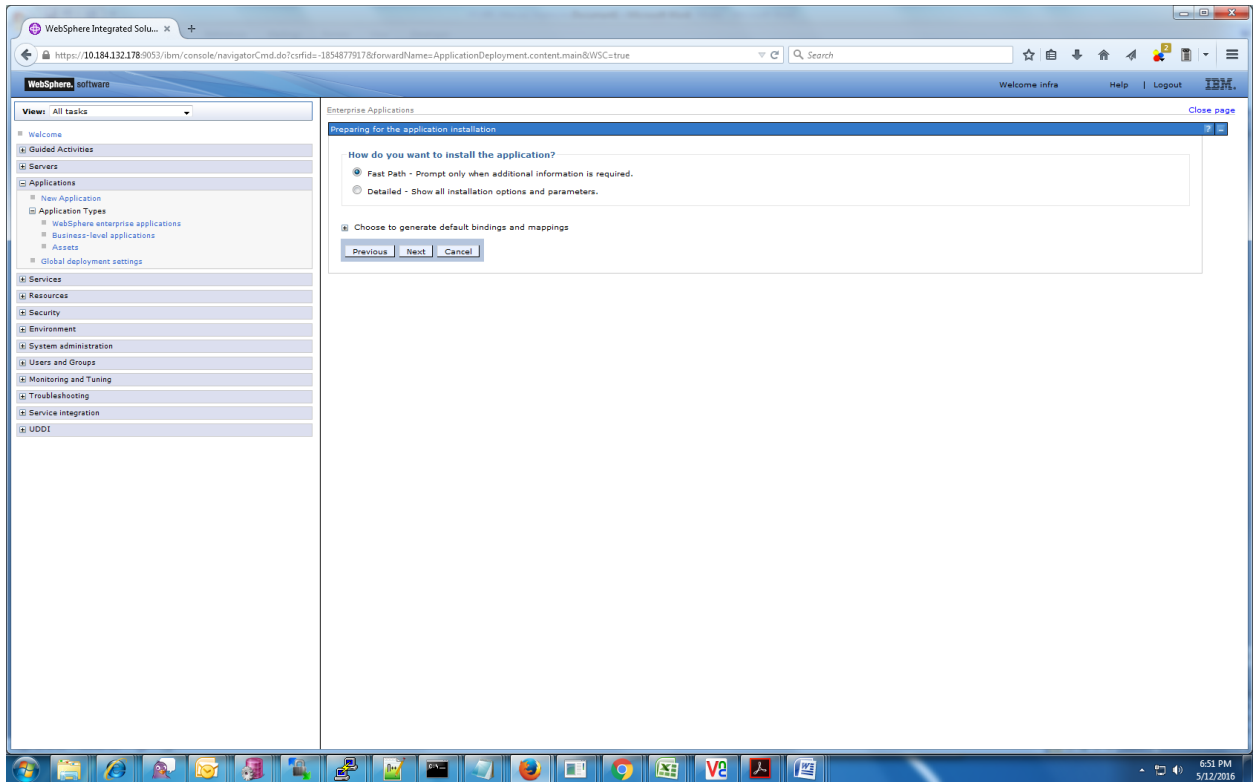


6. Browse the application EAR file and click next button

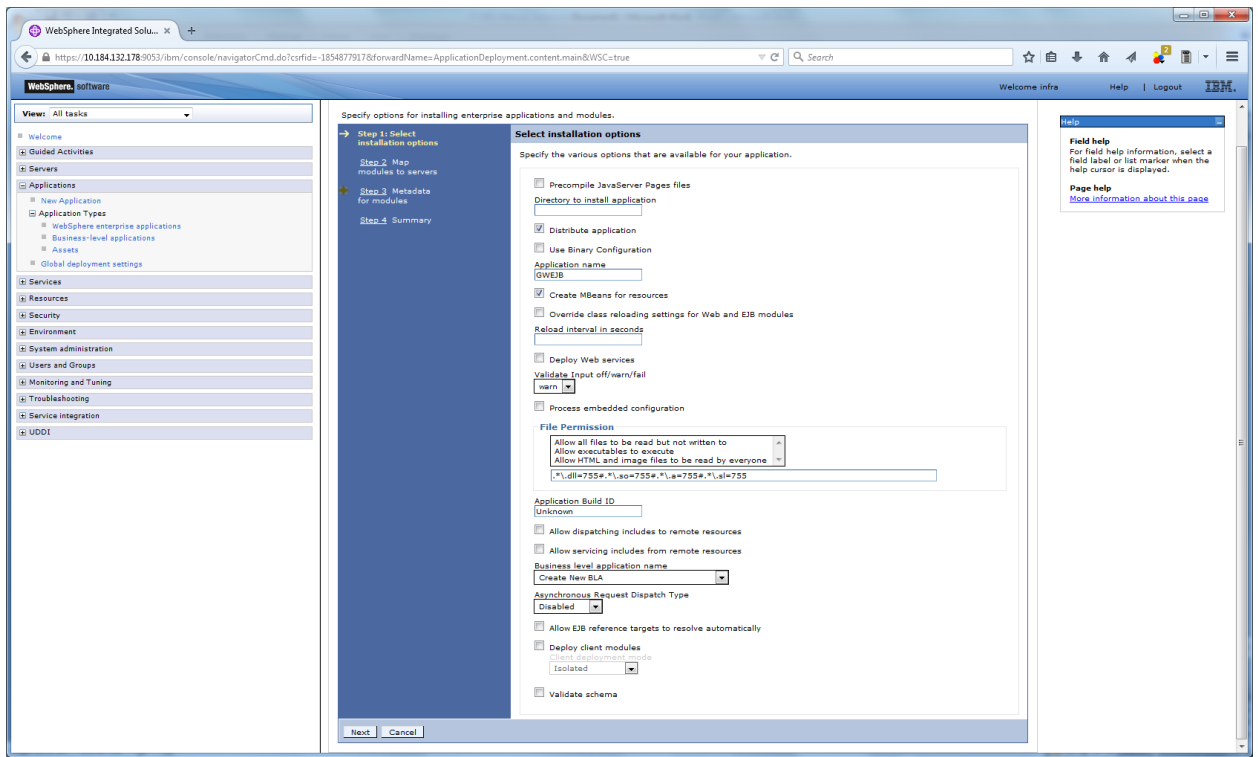


7. Click Next and the following screen is displayed.

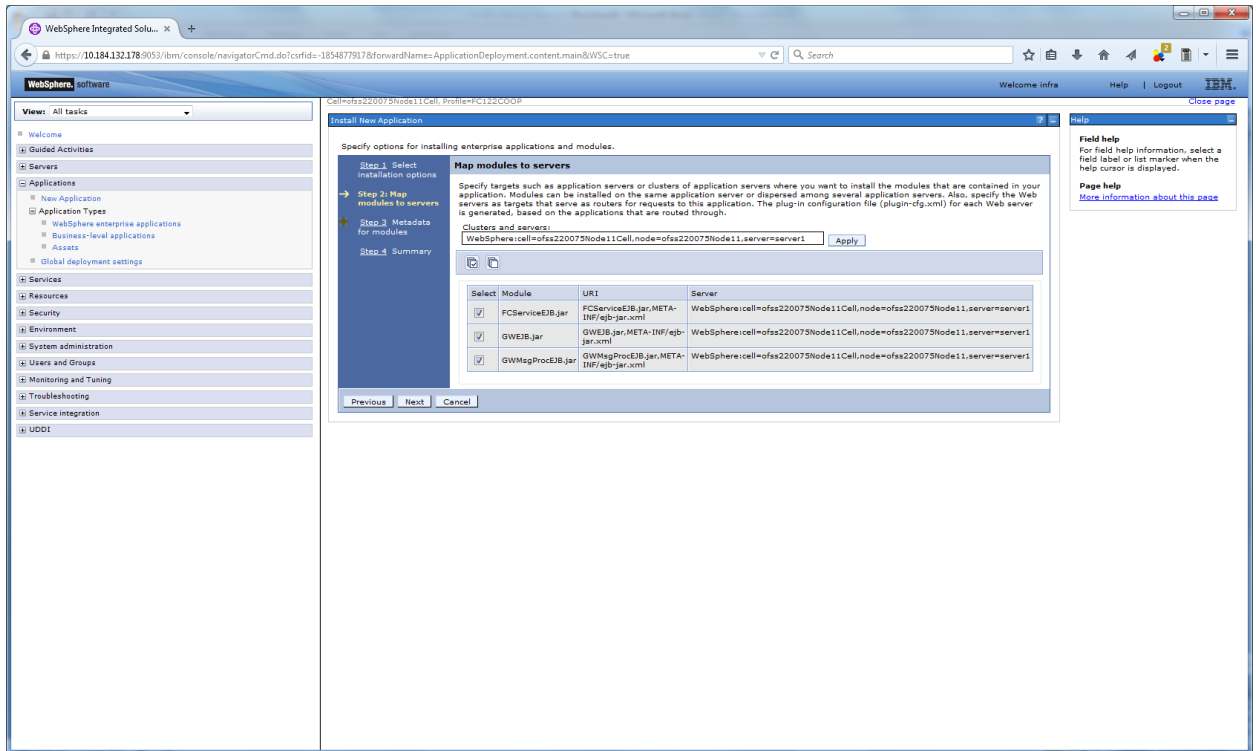




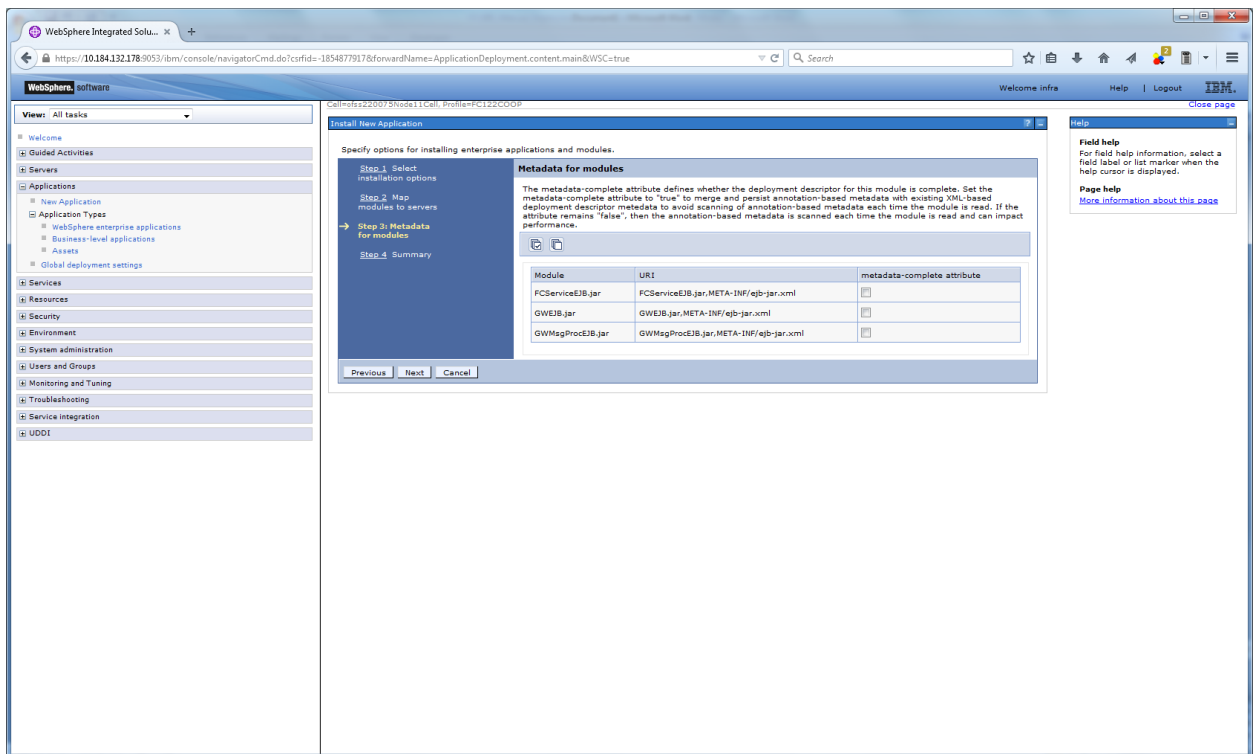
8. Click next and the following screen is displayed.



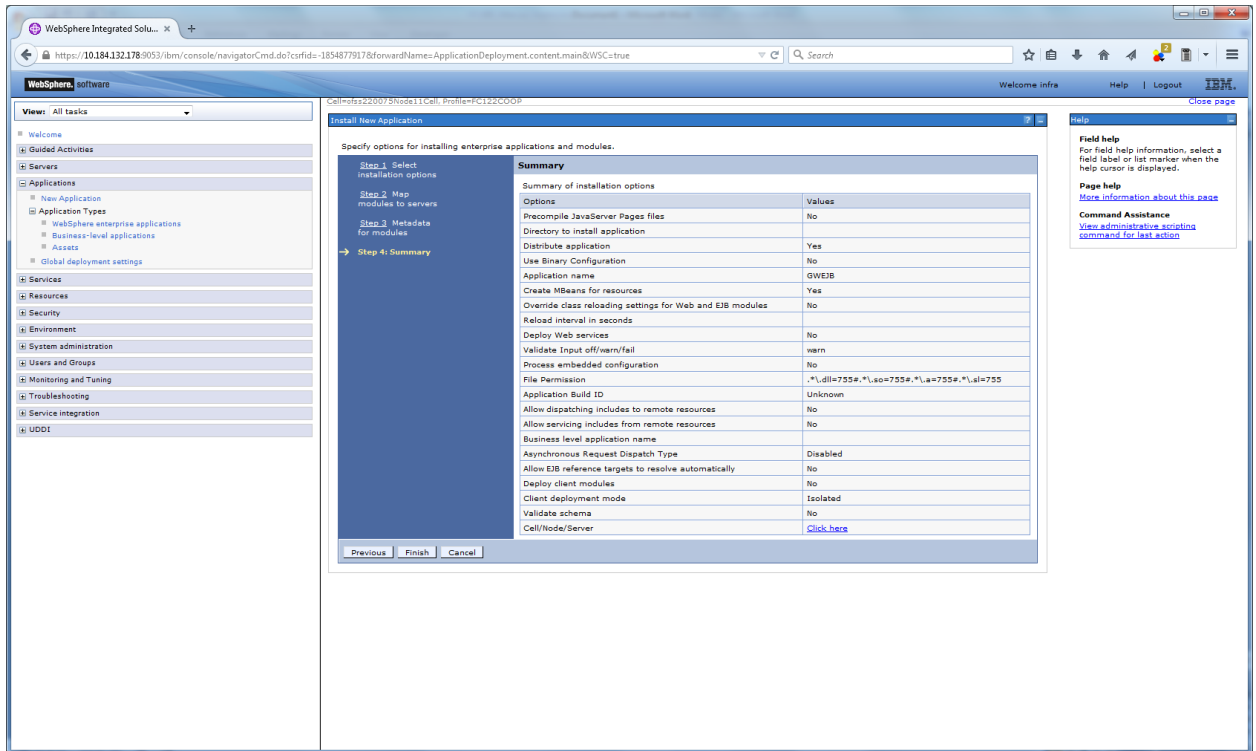
9. Click next and the following screen is displayed.



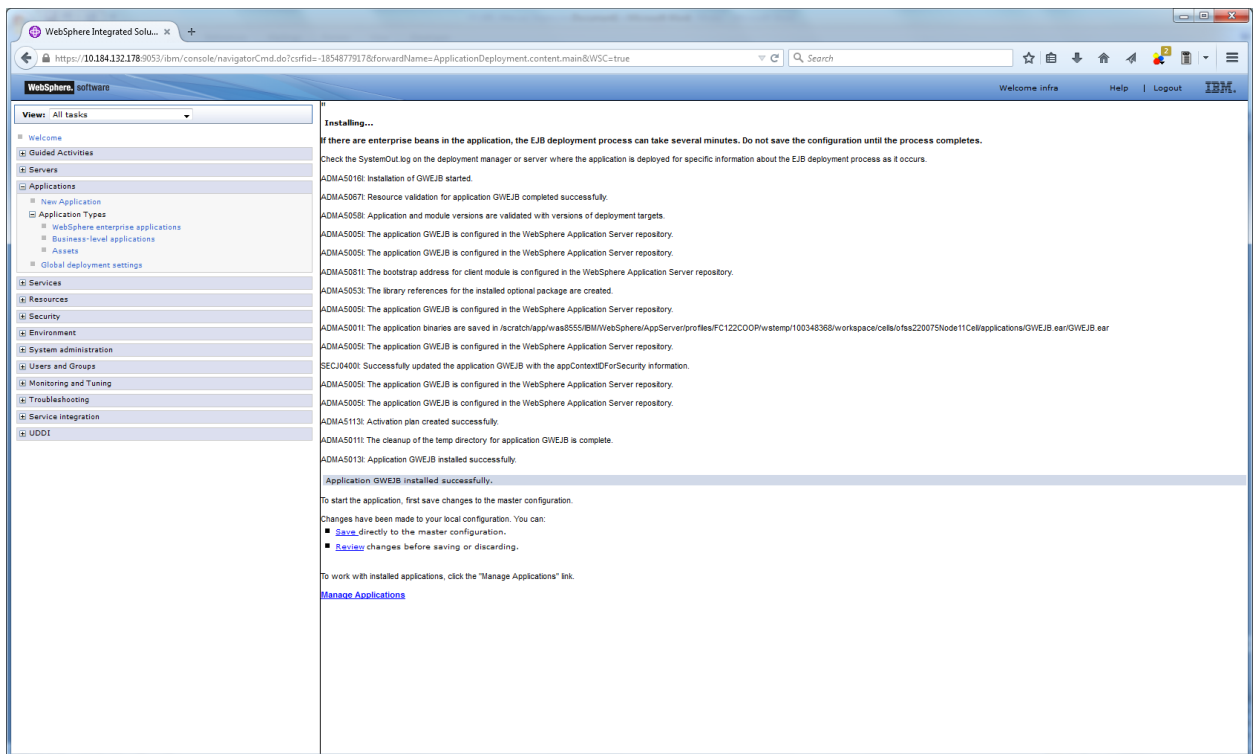
10. click next and the following Screen is displayed.



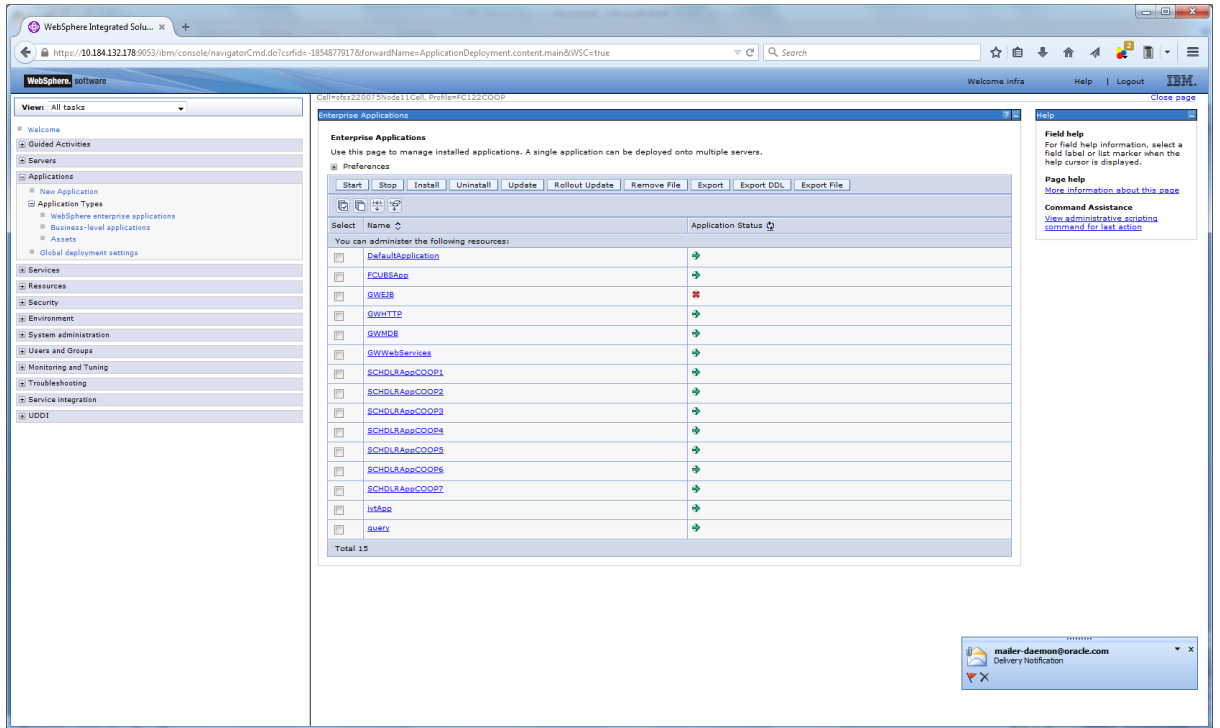
11. Click next and the following screen is displayed.



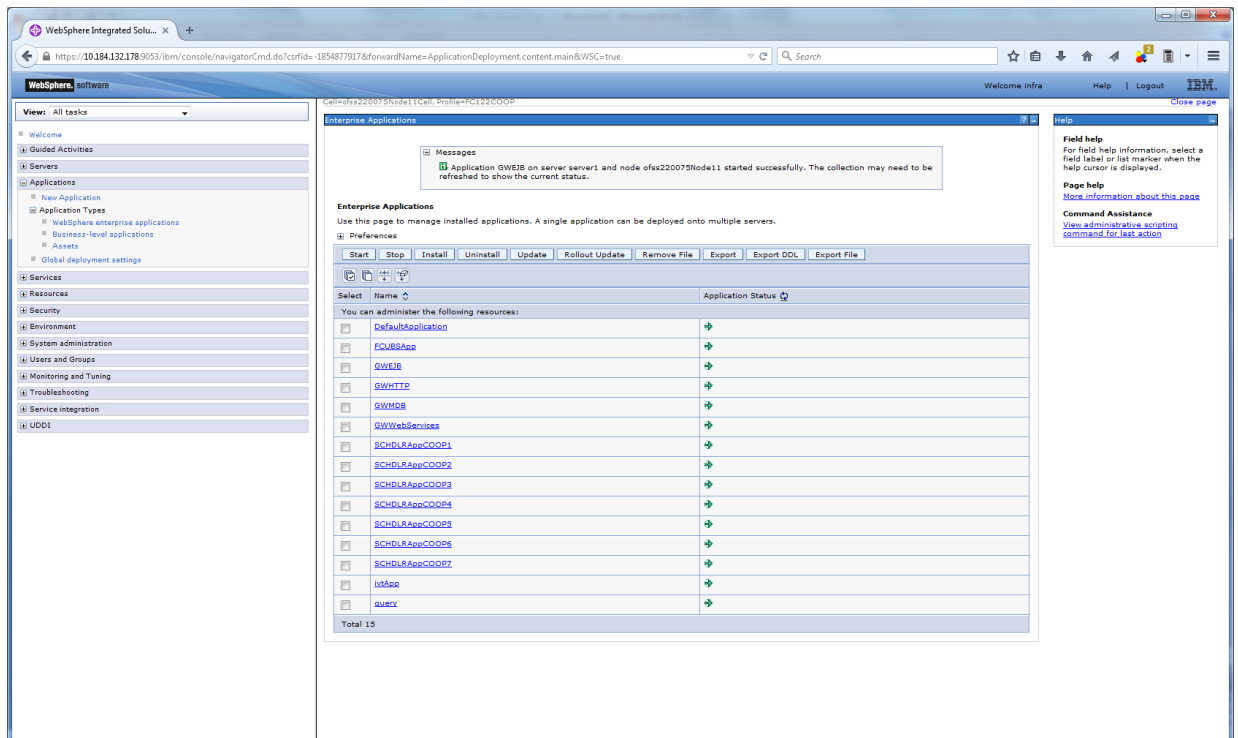
12. Click on finish and the following screen is displayed.



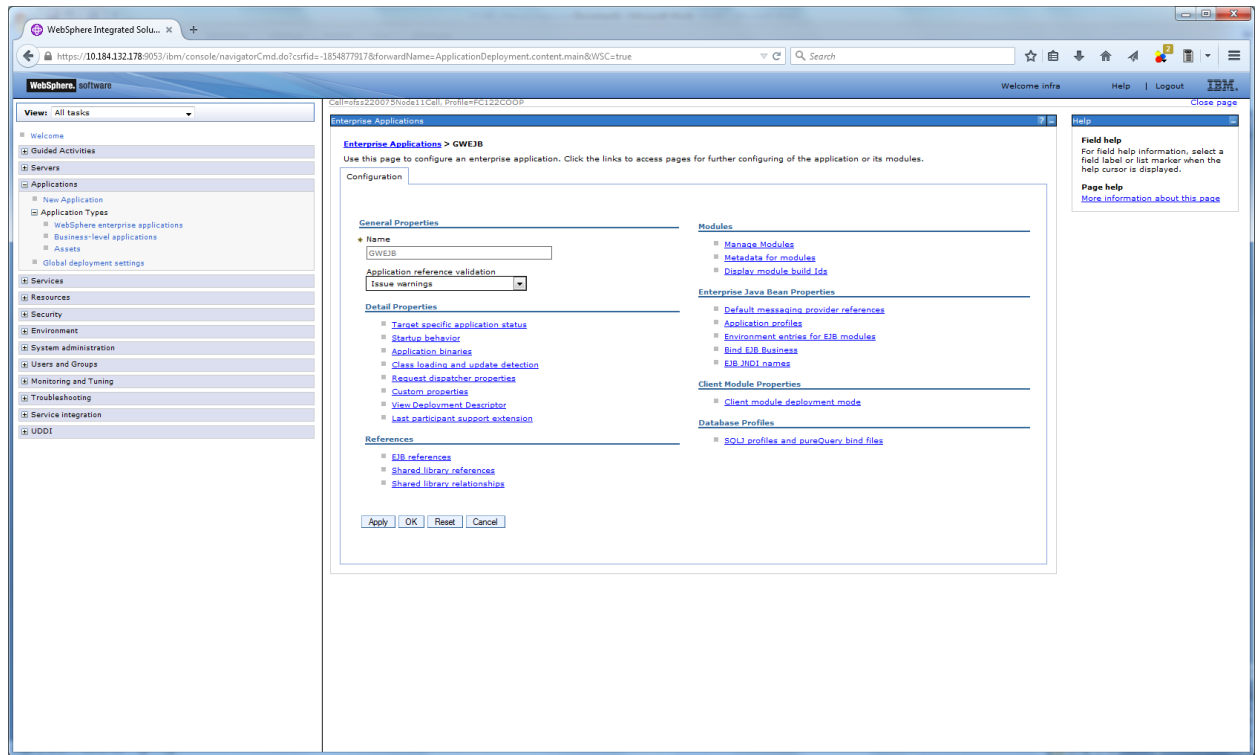
13. Click on save and the following screen is displayed.



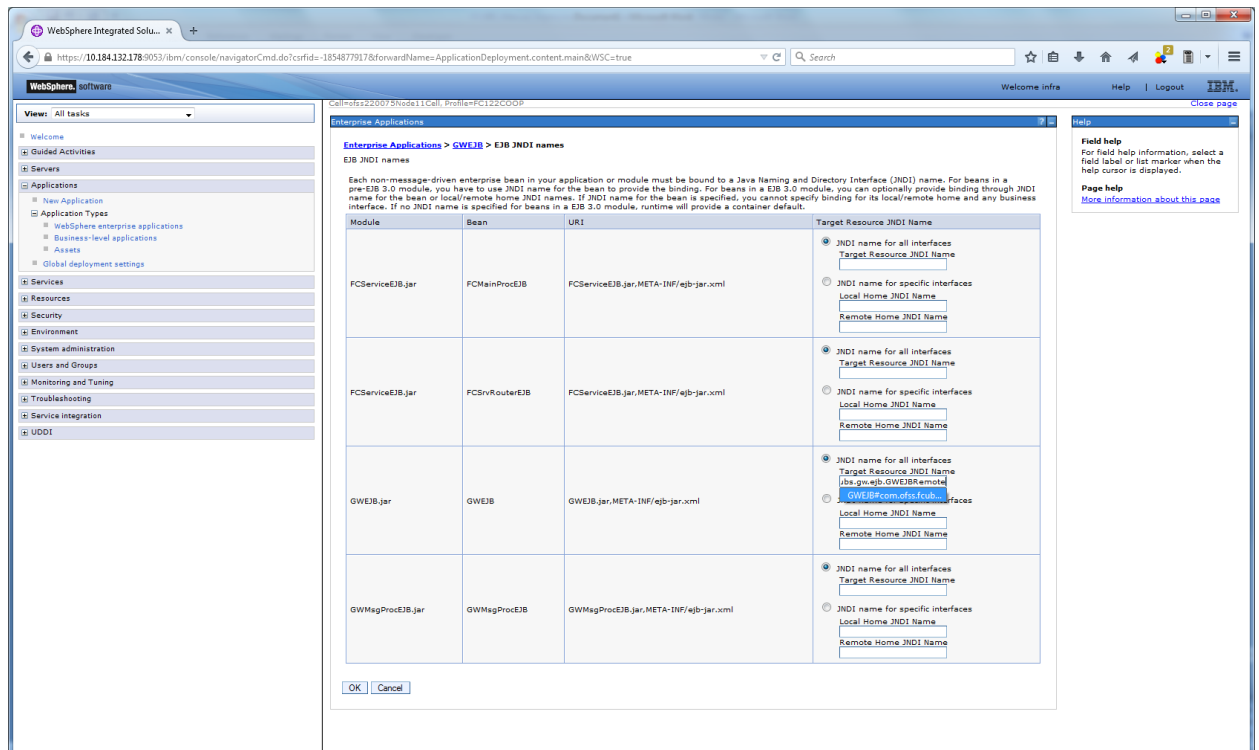
15. Select the deployed application and click on start



16. Click on the application and the following screen is displayed.

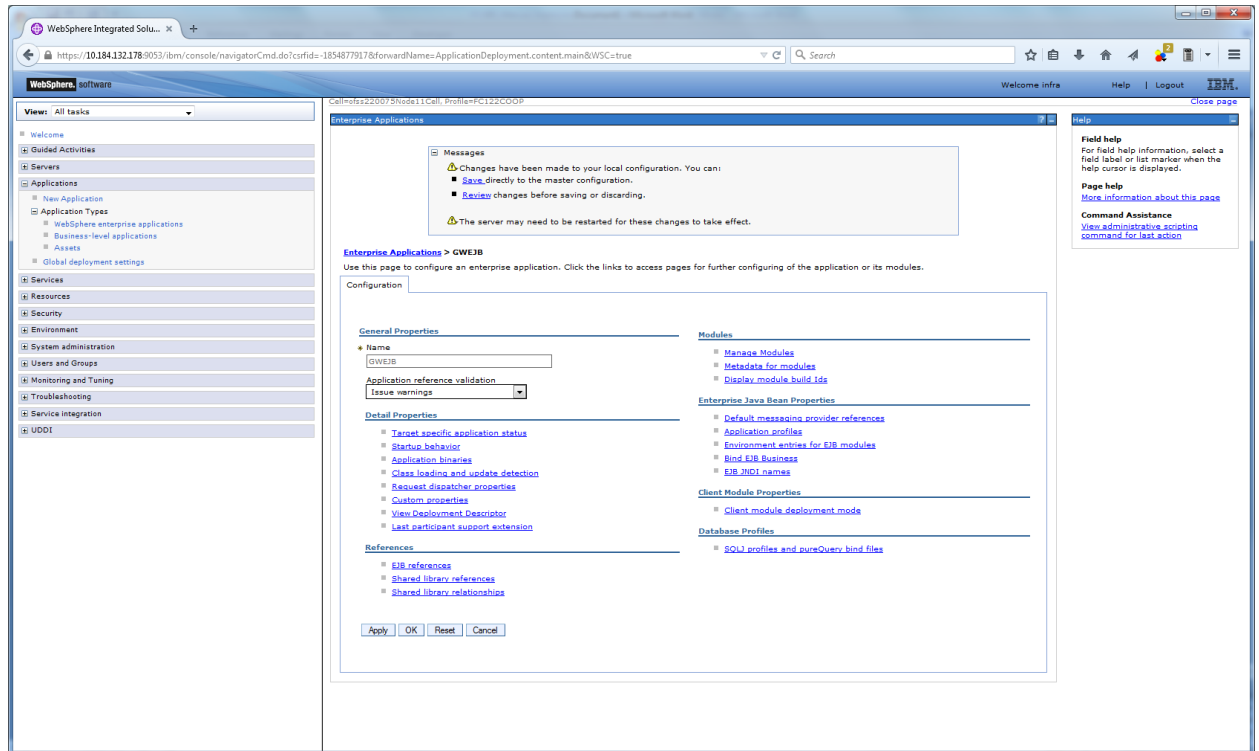


17. Click on EJB JNDI names and the following screen is displayed.



Provide the JNDI Name for GWEJB.jar as "GWEJB#com.ofss.fcubs.gw.ejb.GWEJBRemote"

18. Click on OK, and the following screen is displayed.



19. Click on save and the deployment is finished.

## 1.2.5 FCUBS GWMDB Application Deployment

To deploy Oracle FLEXCUBE UBS application on WebSphere application server, follow the steps given below:

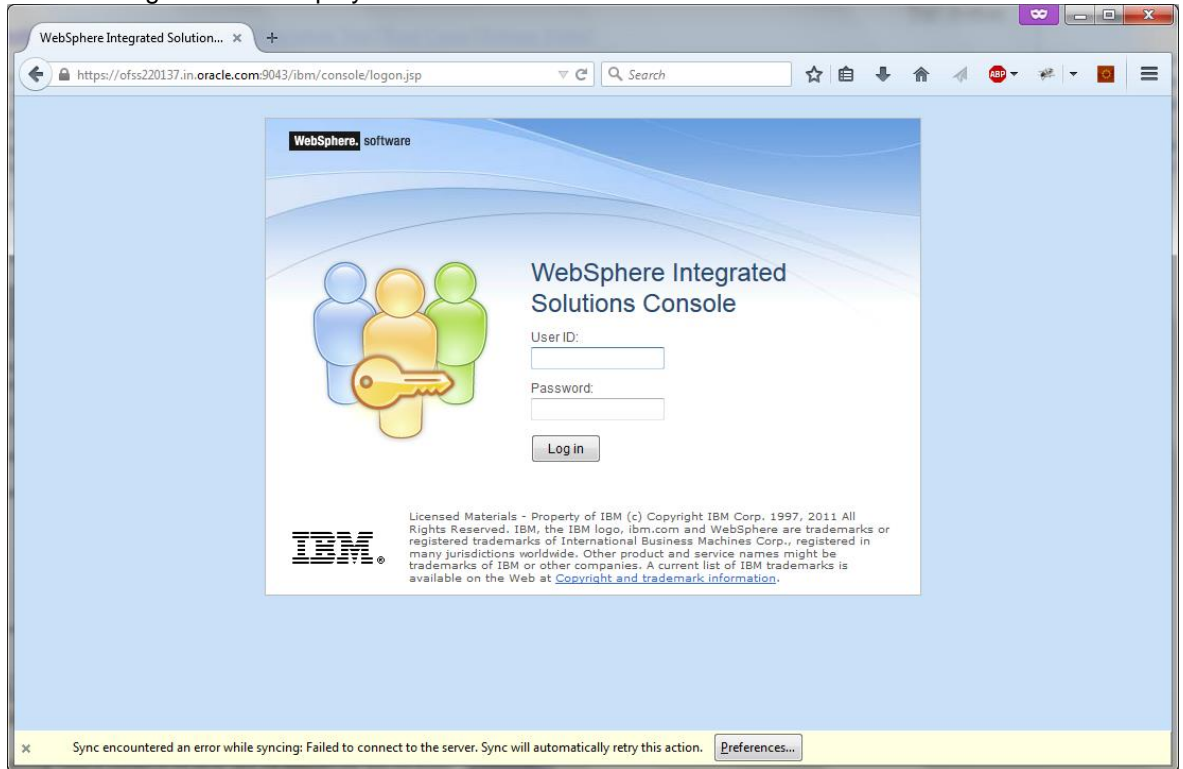
1. Open the Administrative Console of WebSphere server:

Open an internet browser and type the WebSphere Admin Console URL  
`http://{Host}:{Port}/console`.

Eg: `https://10.10.10.10:1010/console`

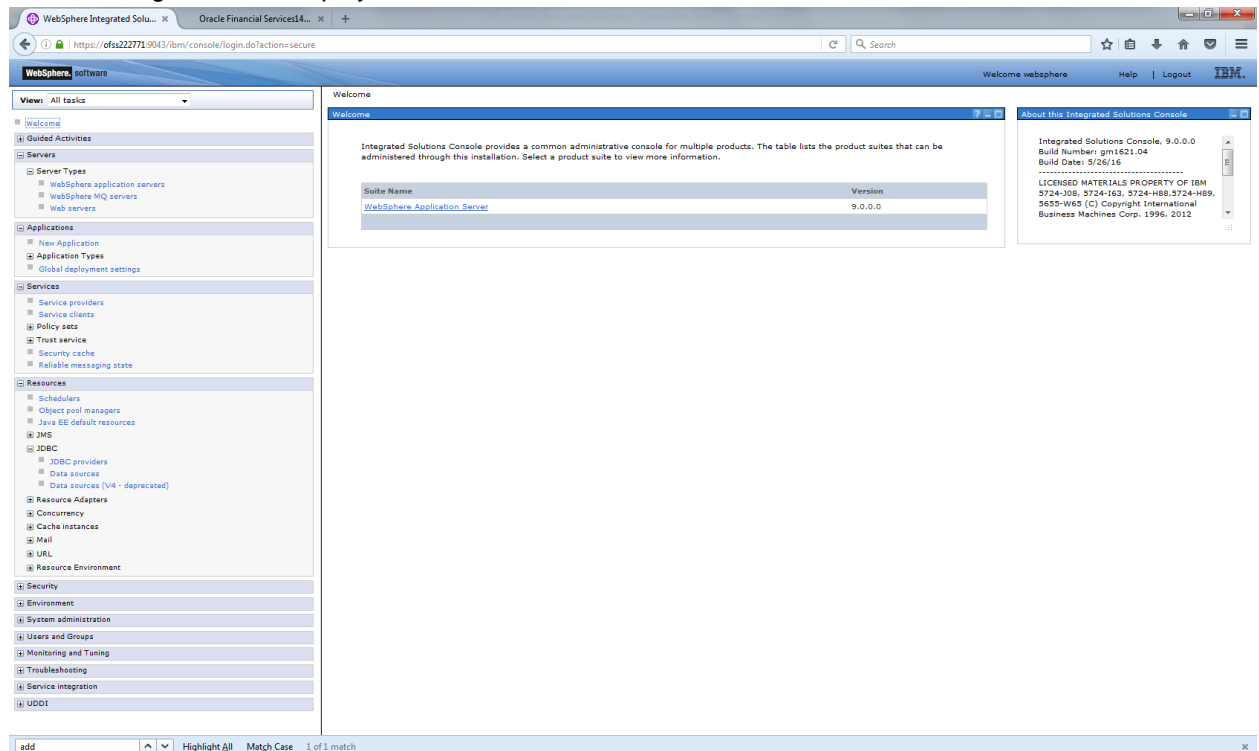
In the above example, 10.10.10.10 is the machine IP address on which WebSphere is running.

The following screen is displayed:



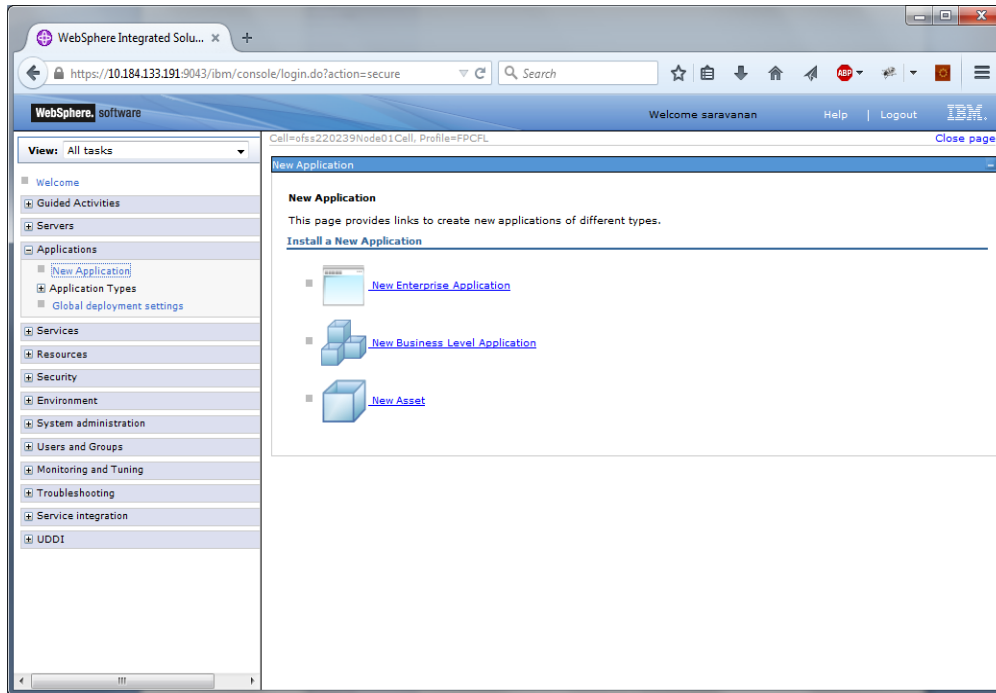
2. Enter the user name and password and click 'Log In' to log in to the application server.
3. Navigate to the WebSphere Home Page.

The following screen is displayed.

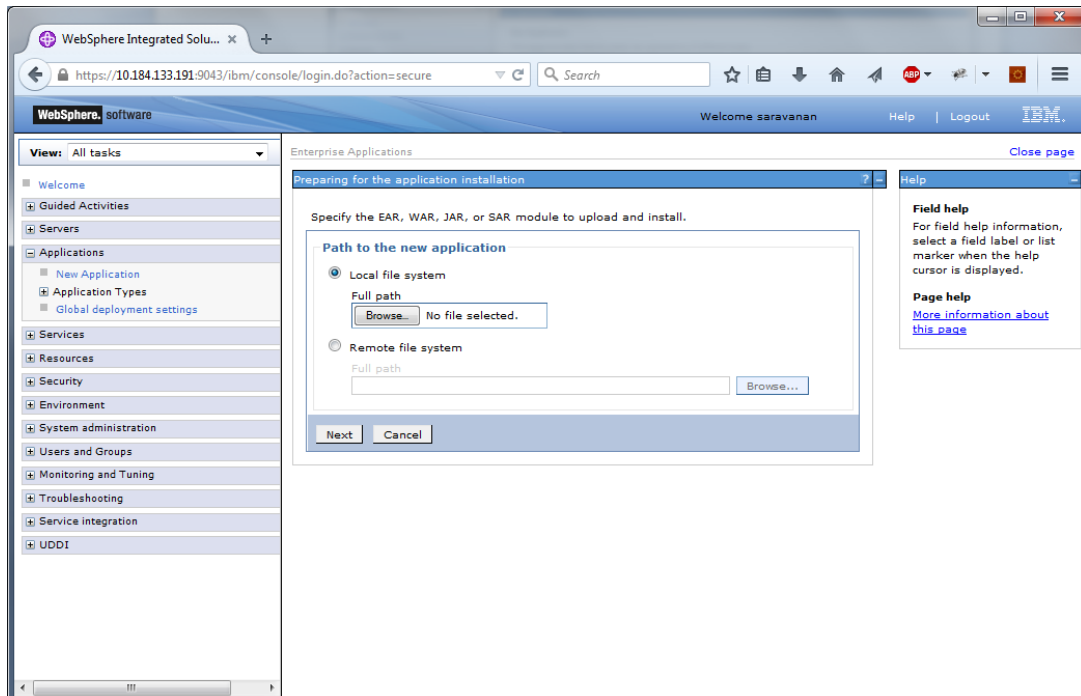


- Expand Applications from left-side menu and Click 'New Application'.

The following screen is displayed.

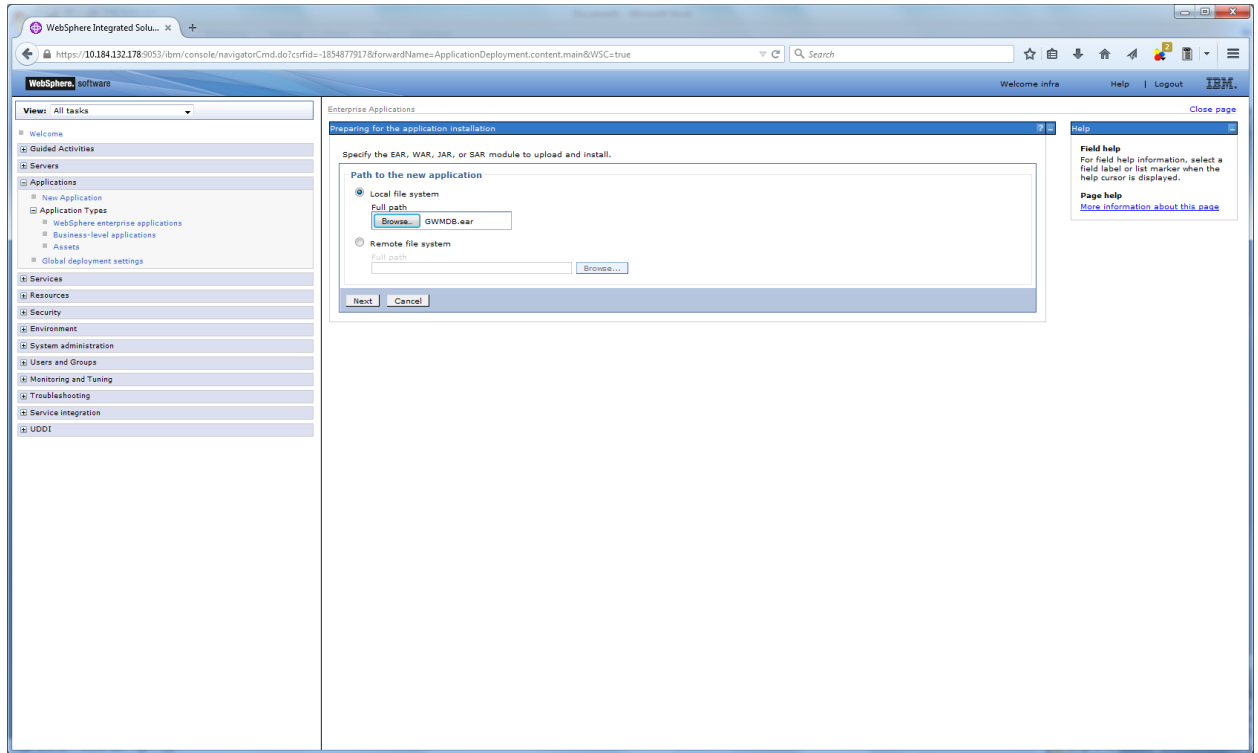


- Click 'New Enterprise Application'.

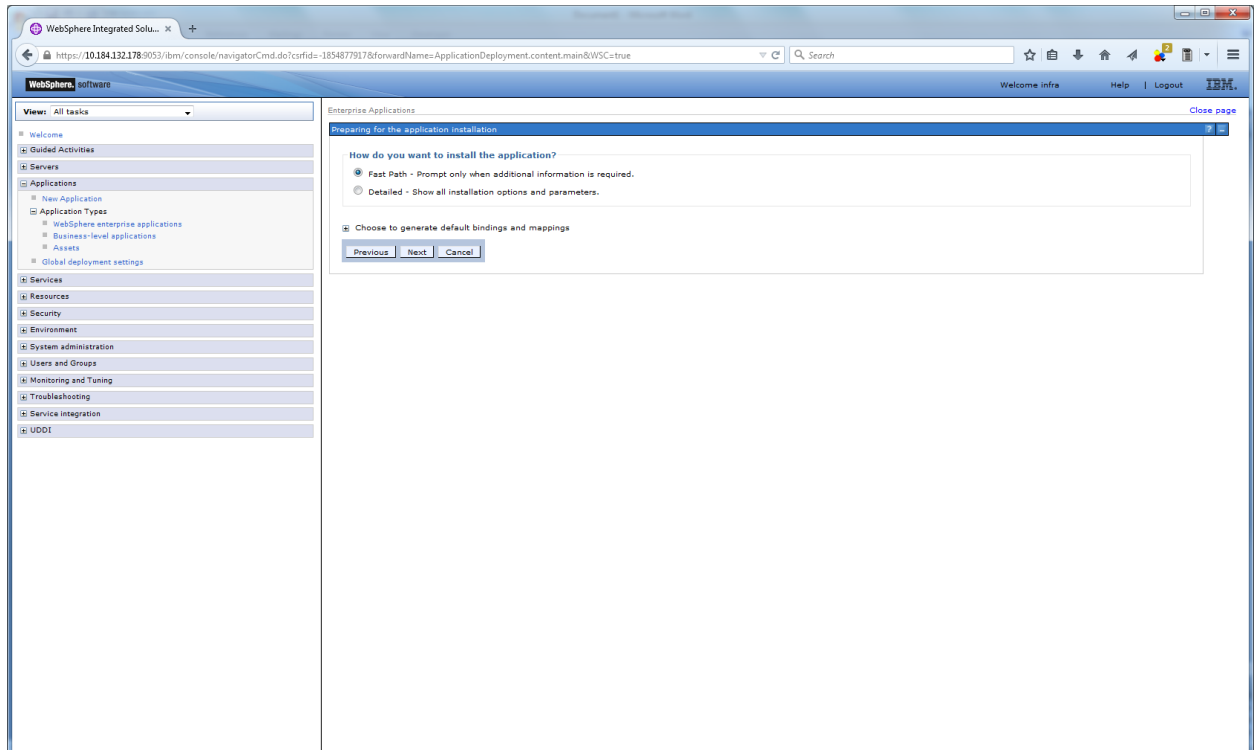




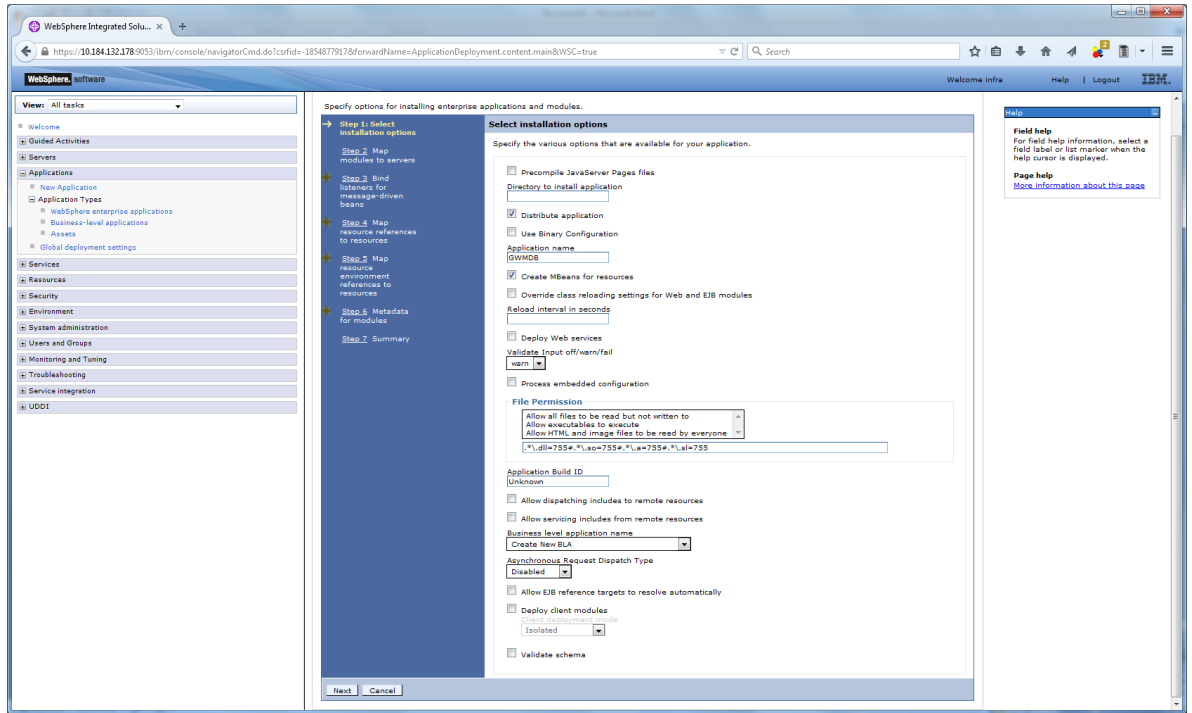
6. Click on Browse and select the MDB EAR and the following screen is displayed



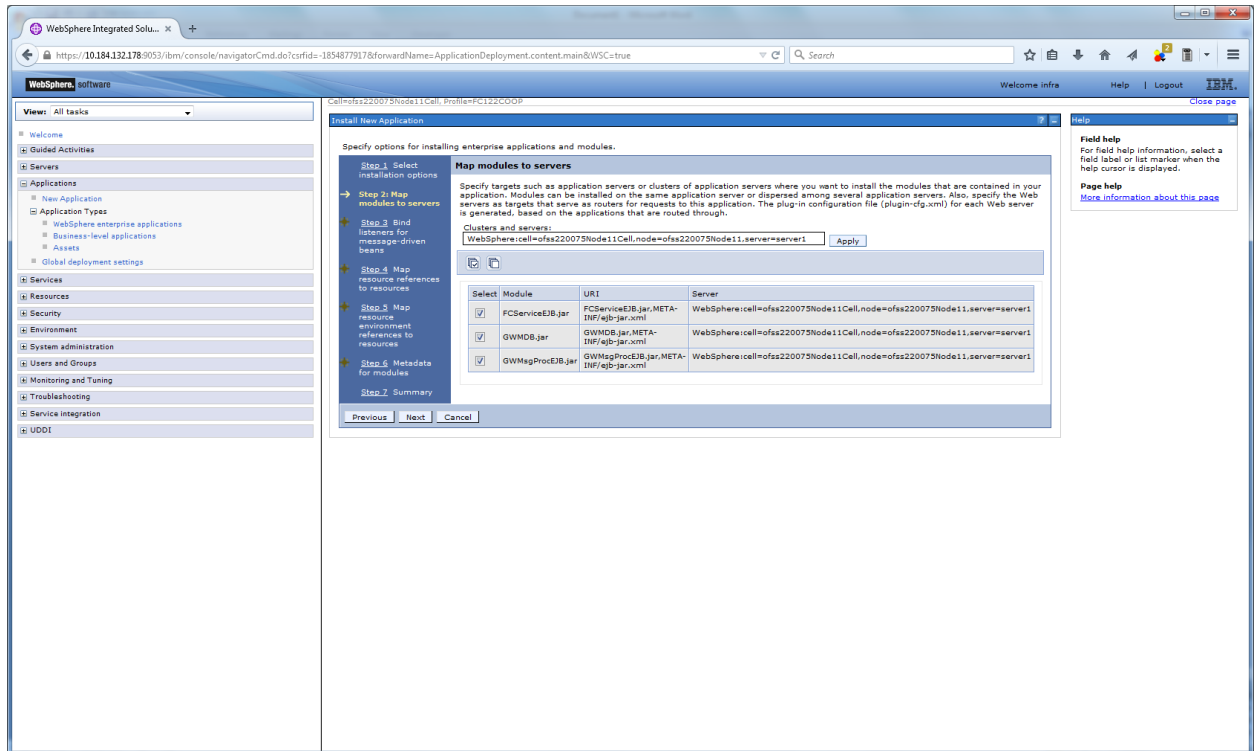
7. Click on next and the following screen is displayed.



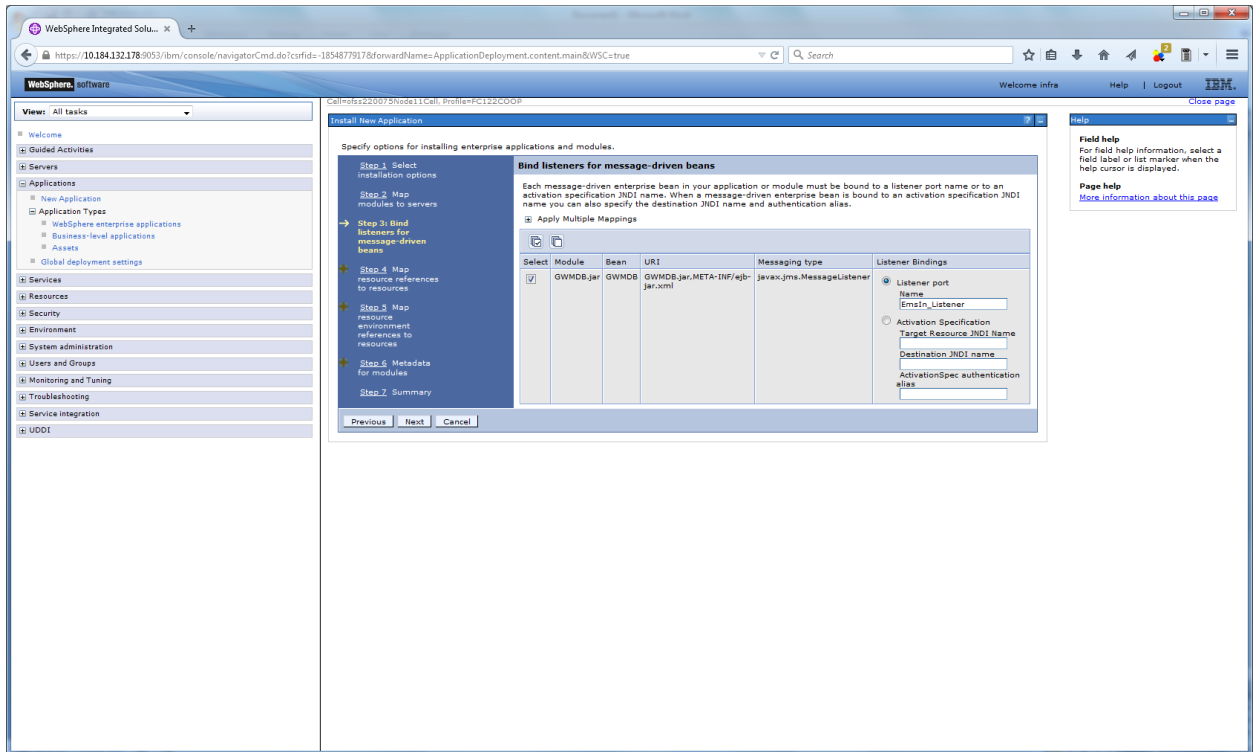
8. Click on next and the following screen is displayed.



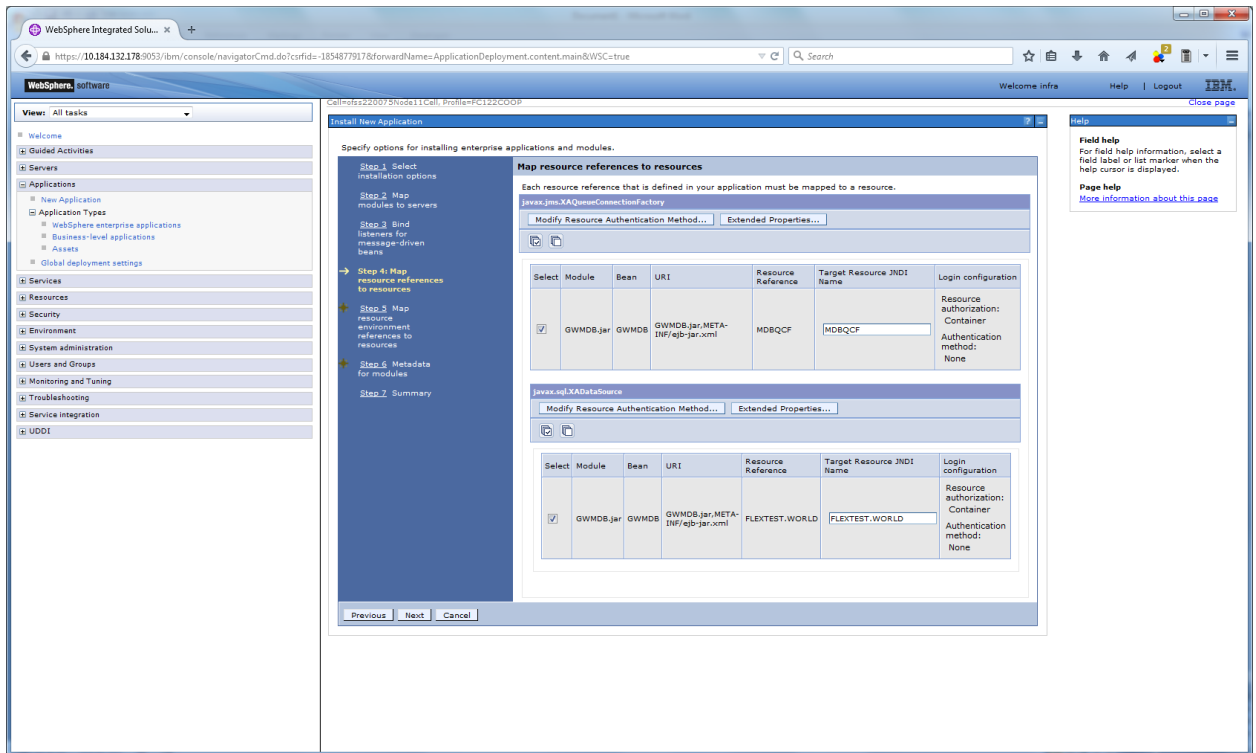
9. Click on next and the following screen is displayed.



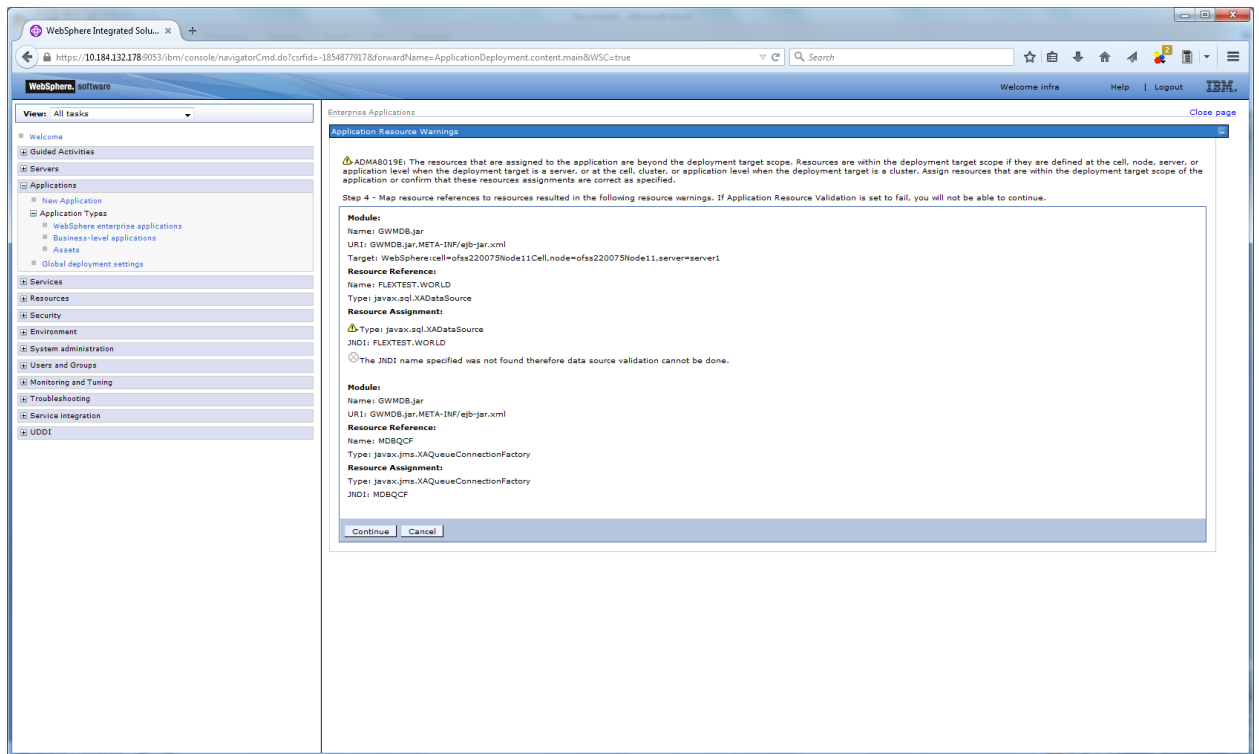
10. Click on next and the following screen is displayed.



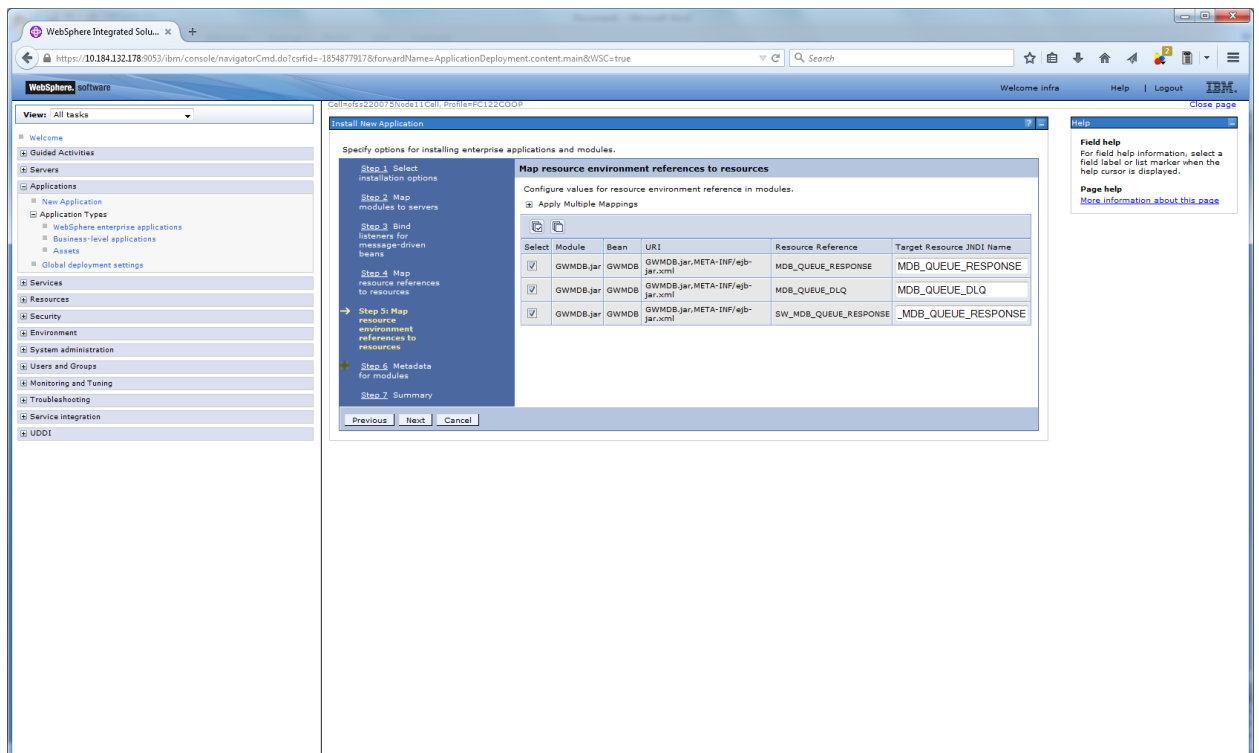
11. Input the listner name click next. Following screen is displayed.



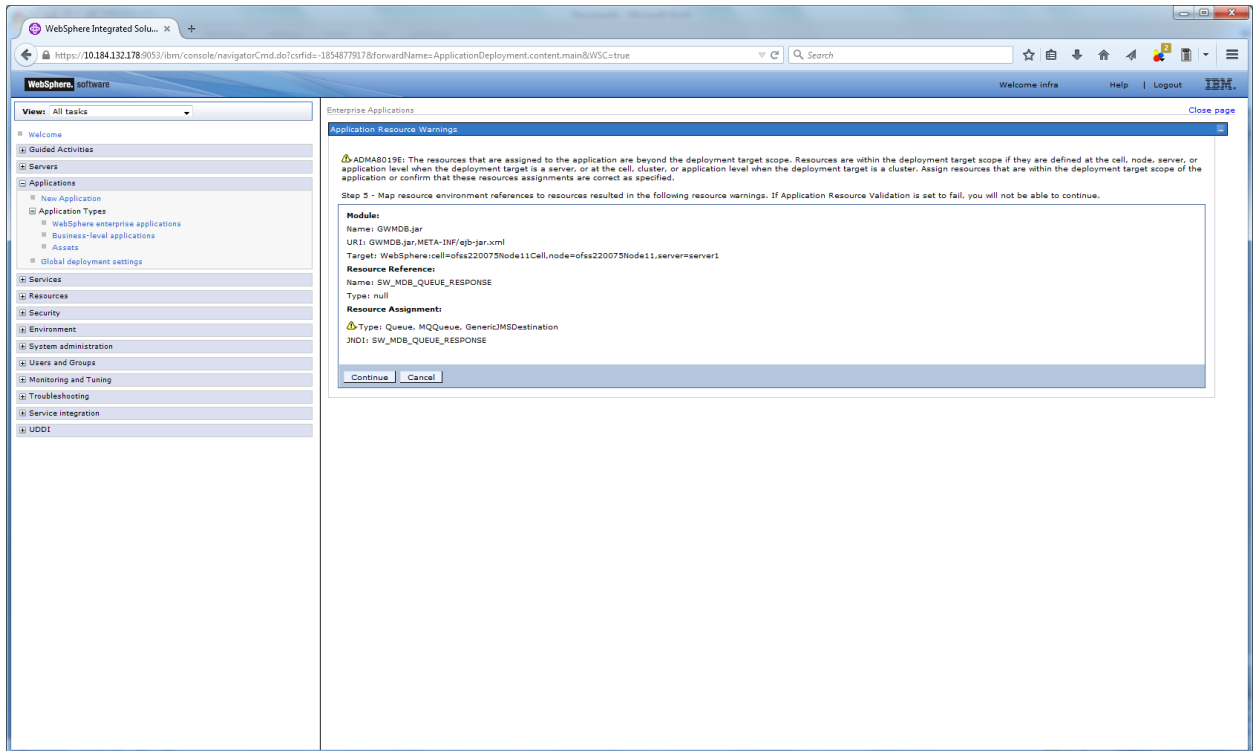
12. Enter the details as shown and click next.



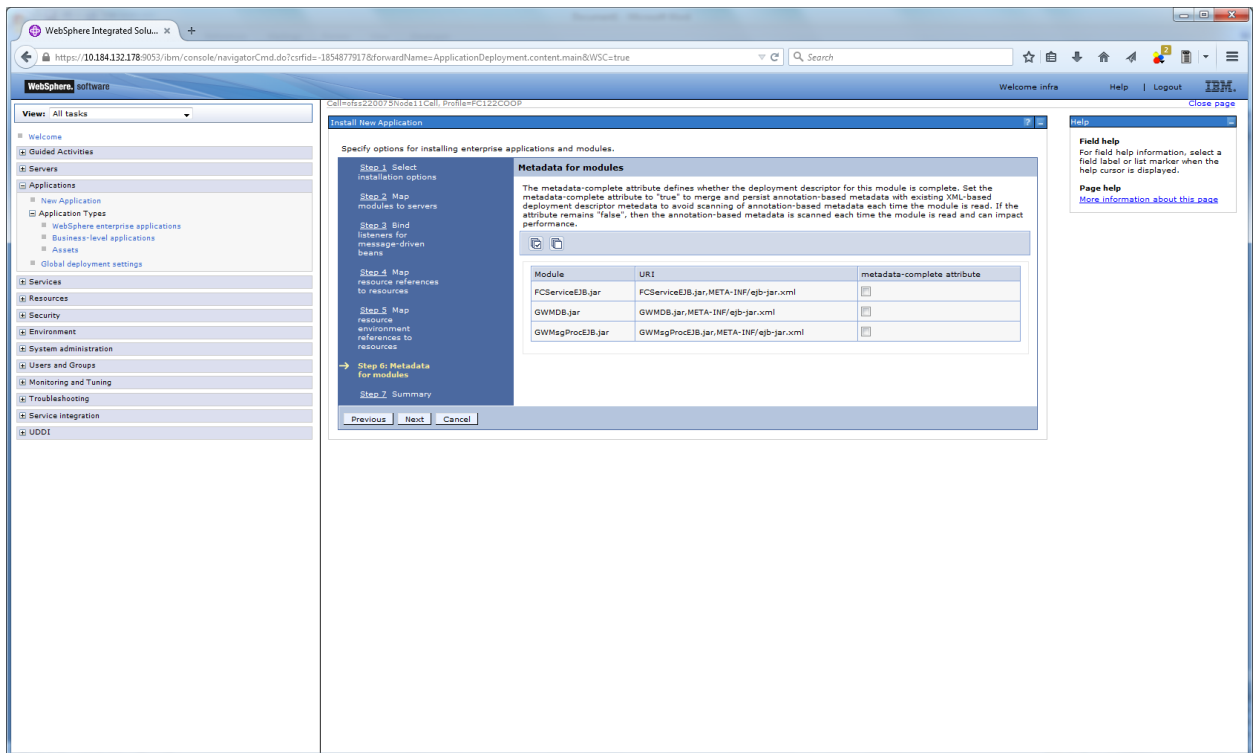
13. Click on continue and following screen is displayed.



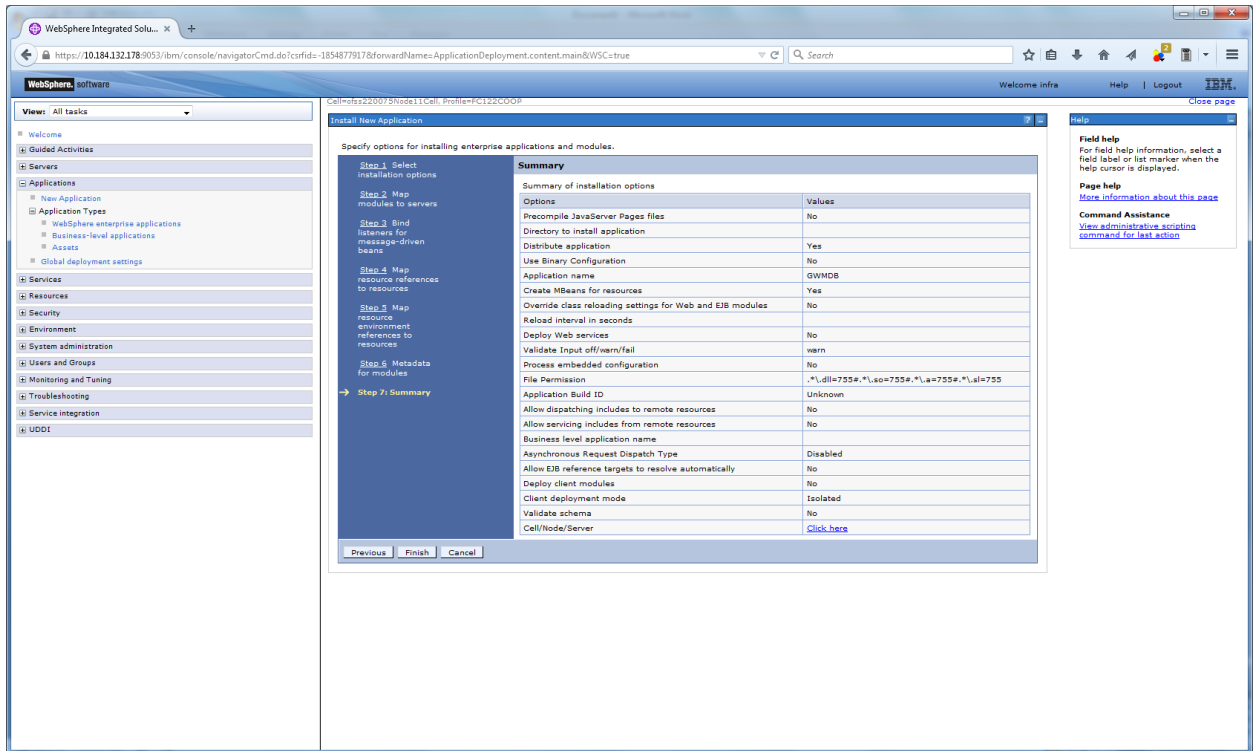
14. Give necessary details as shown and click next.



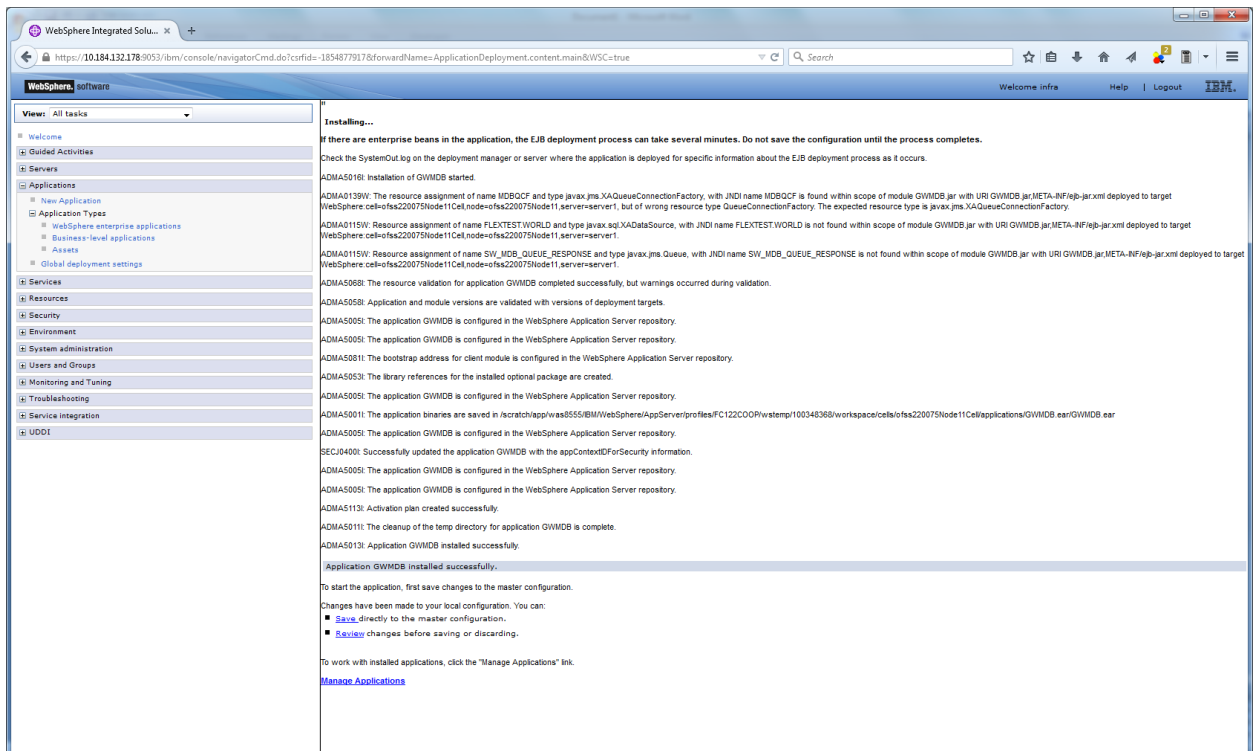
15. Click on continue and below screen is displayed.



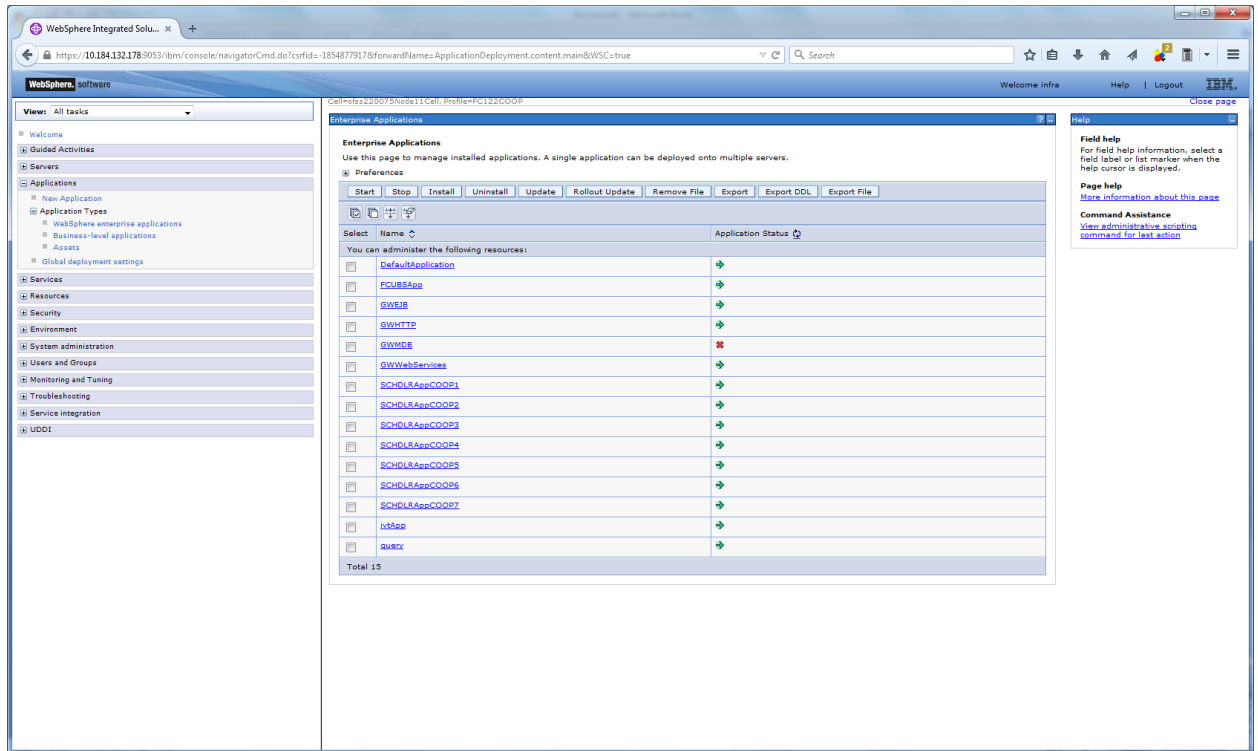
16. Click on next and following screen is displayed.



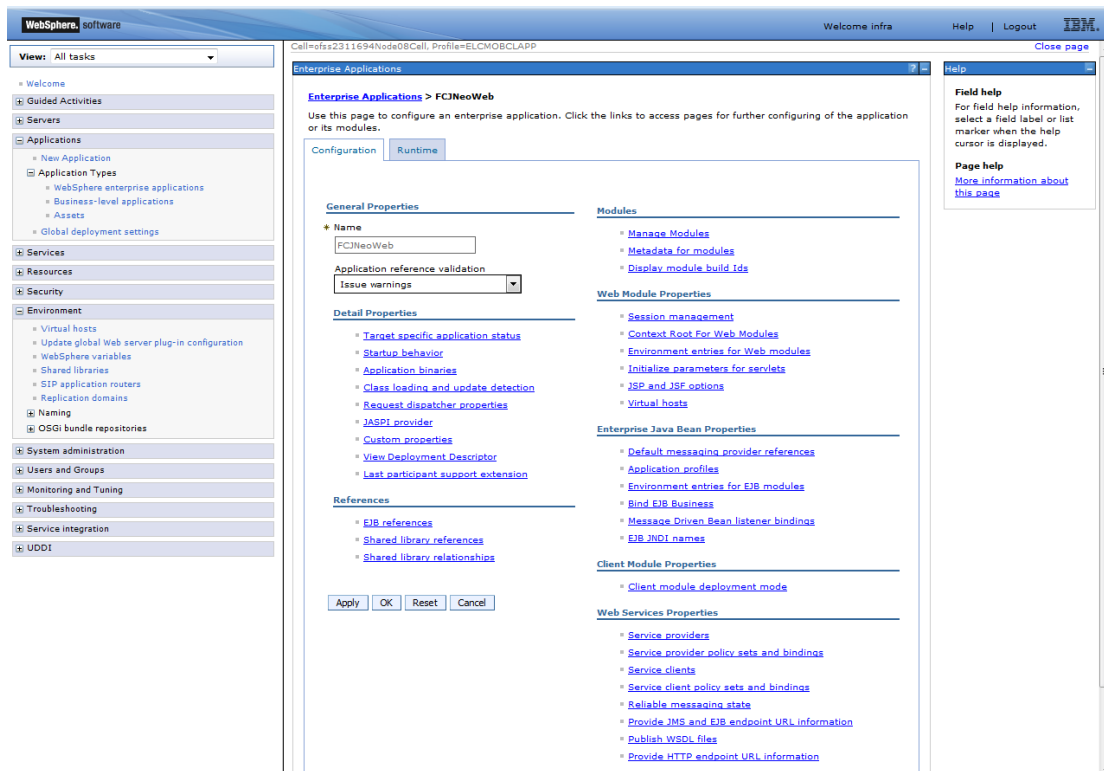
17. Click on Finish and following screen is displayed.



18. Click on save and following screen is displayed.



19. Click on installed FCUBS Application and the following screen is displayed.



20. Click 'Shared library references' under 'References'.

The following screen is displayed.

The screenshot shows the WebSphere Administration Console interface. On the left is a navigation tree with categories like 'Applications', 'Services', 'Resources', 'Security', 'Environment', 'System administration', 'Users and Groups', 'Monitoring and Tuning', 'Troubleshooting', 'Service integration', and 'UDDI'. The main content area displays the 'Enterprise Applications > FCJNeoWeb > Shared library references' page. Below the breadcrumb is a 'Reference shared libraries' dialog box. The dialog box contains a table with the following data:

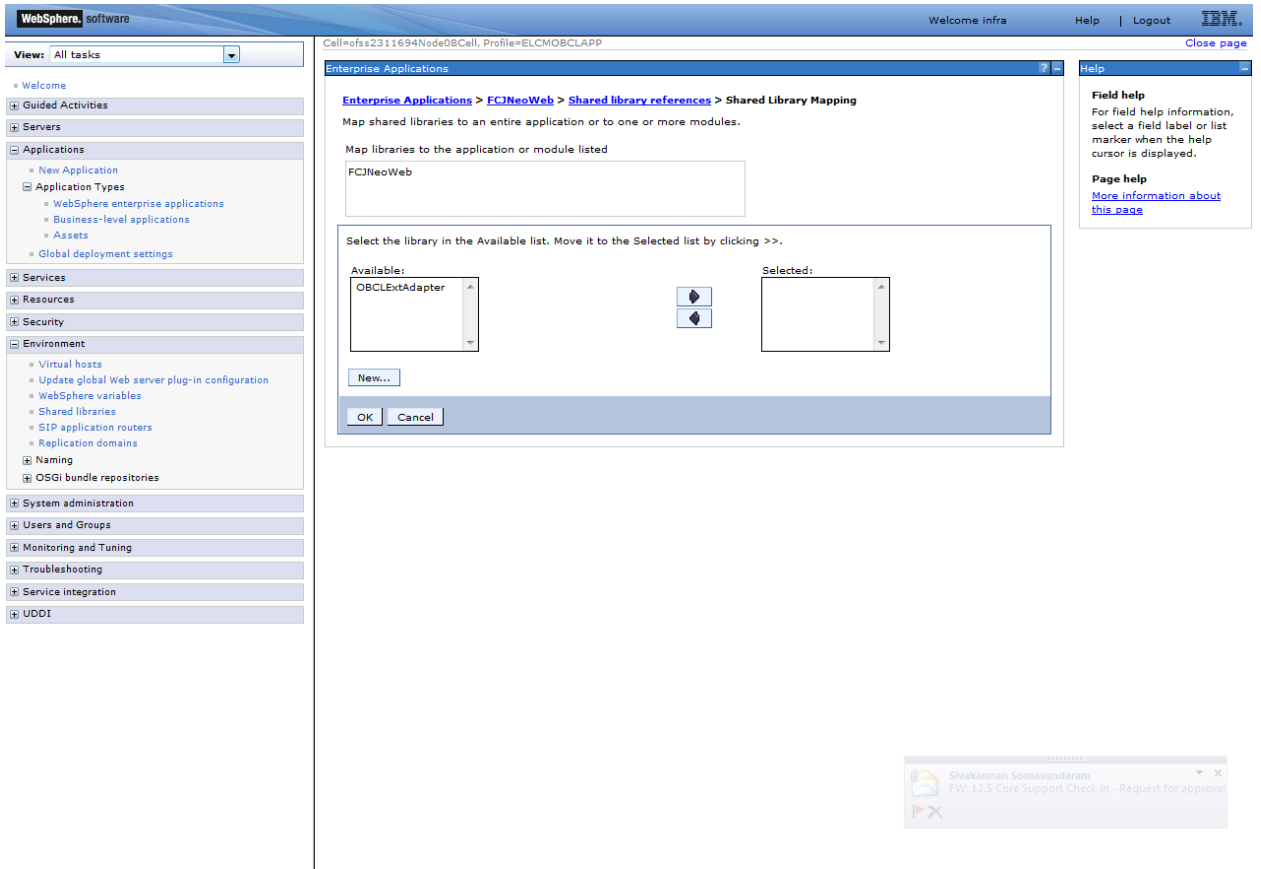
Select	Application	URI	Shared Libraries
<input type="checkbox"/>	FCJNeoWeb	META-INF/application.xml	OBCLExtAdapter
Select	Module	URI	Shared Libraries
<input type="checkbox"/>	FlexCubeCorporate	FCJNeoWeb.war,WEB-INF/web.xml	
<input type="checkbox"/>	Enterprise Limits Gateway	ELCMWeb.war,WEB-INF/web.xml	
<input type="checkbox"/>	Security Management Gateway	SMWeb.war,WEB-INF/web.xml	

At the bottom of the dialog box are 'OK' and 'Cancel' buttons. To the right of the dialog box is a 'Help' panel with 'Field help' and 'Page help' sections.

21. Select your Application and click 'Reference Shared Library'.

The following screen is displayed.



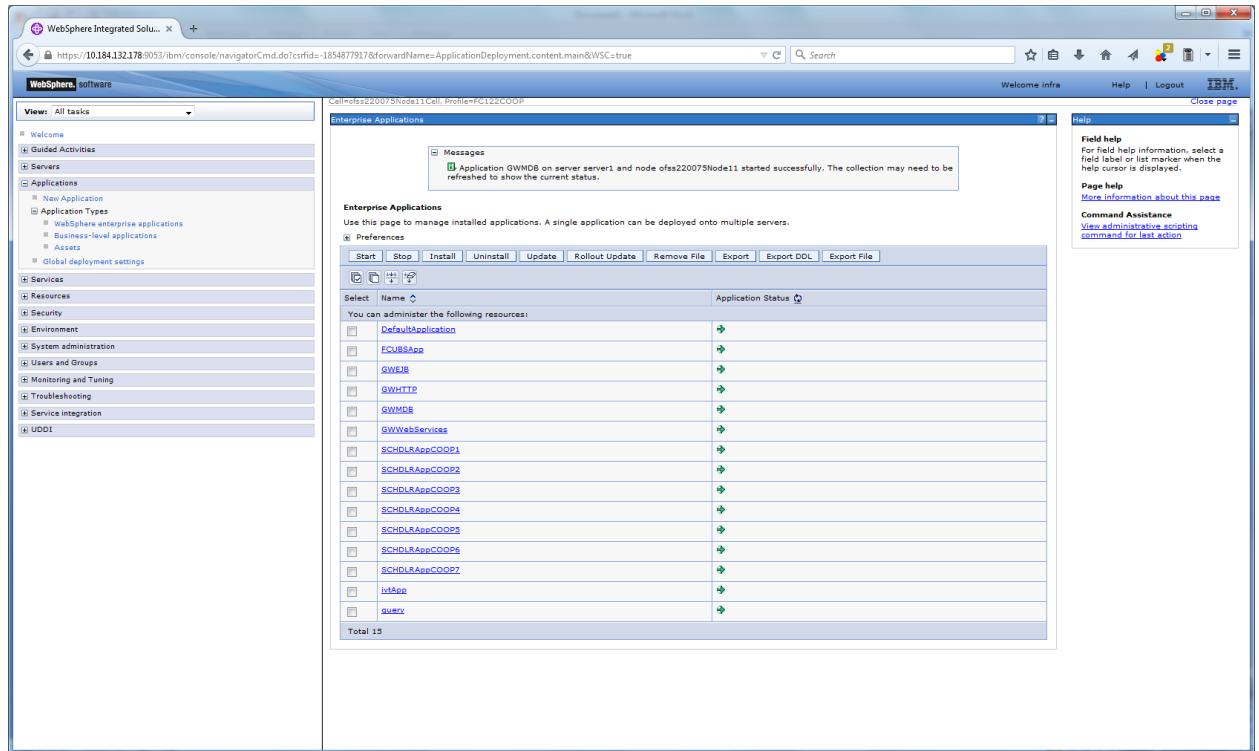


22. Click on right arrow button to add Available shared library reference.  
The following screen is displayed.

The screenshot shows the IBM WebSphere software administration console. The top navigation bar includes 'WebSphere software', 'Welcome infra', 'Help', 'Logout', and the IBM logo. The breadcrumb trail reads: 'Enterprise Applications > FCJNeoWeb > Shared library references > Shared Library Mapping'. The main content area is titled 'Shared Library Mapping' and contains the following text: 'Map shared libraries to the application or module listed.' Below this, there is a text input field containing 'FCJNeoWeb'. A section titled 'Select the library in the Available list. Move it to the Selected list by clicking >>.' contains two list boxes: 'Available:' (empty) and 'Selected:' (containing 'OBCLExtAdapter'). Between the list boxes are two arrow buttons. Below the list boxes is a 'New...' button, and at the bottom are 'OK' and 'Cancel' buttons. On the left, a navigation tree shows categories like 'Applications', 'Services', 'Resources', 'Security', 'Environment', 'Naming', 'OSGI bundle repositories', 'System administration', 'Users and Groups', 'Monitoring and Tuning', 'Troubleshooting', 'Service integration', and 'UDDI'. On the right, a 'Help' panel contains 'Field help' and 'Page help' sections.

23. .Click 'OK' and 'Save' the changes.

24. Select the deployed EAR and click 'Start'.



MDB EAR deployment is successfully finished.

## 1.2.6 FCUBS HTTP Application Deployment

To deploy Oracle FLEXCUBE UBS application on WebSphere application server, follow the steps given below:

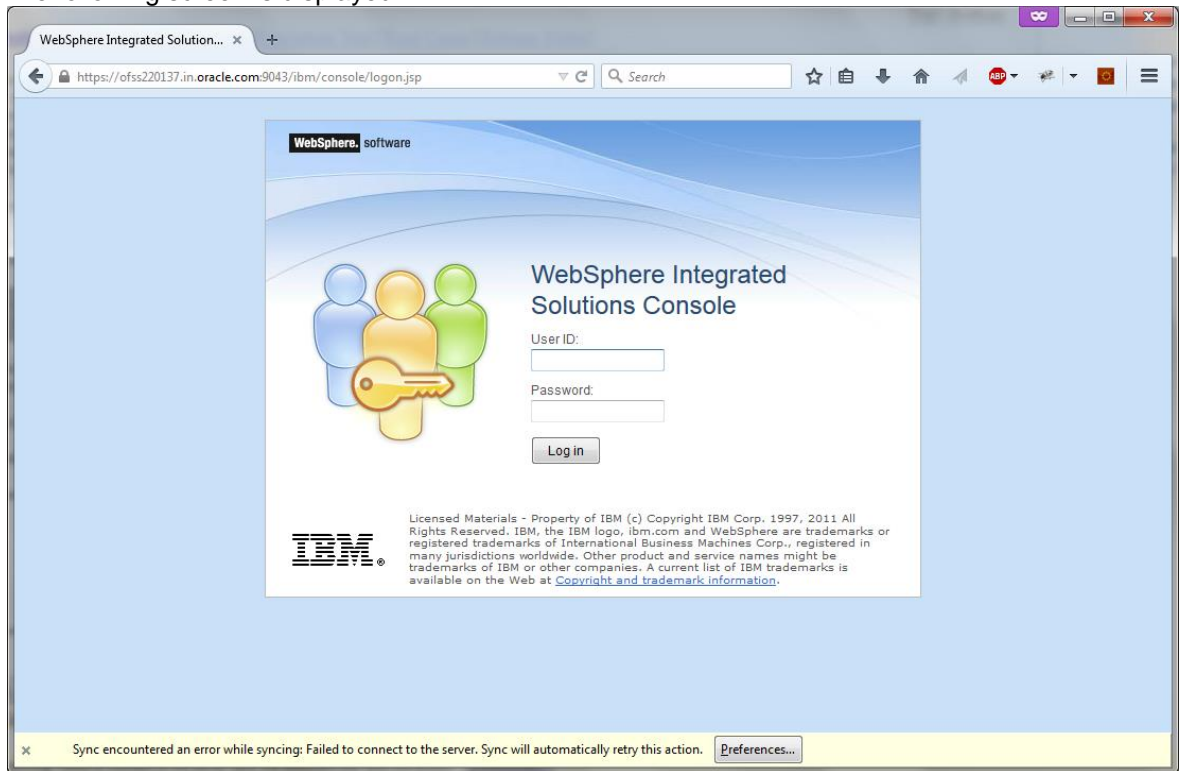
1. Open the Administrative Console of WebSphere server:

Open an internet browser and type the WebSphere Admin Console URL  
`http://{Host}:{Port}/console.`

Eg: `https://10.10.10.10:1010/console`

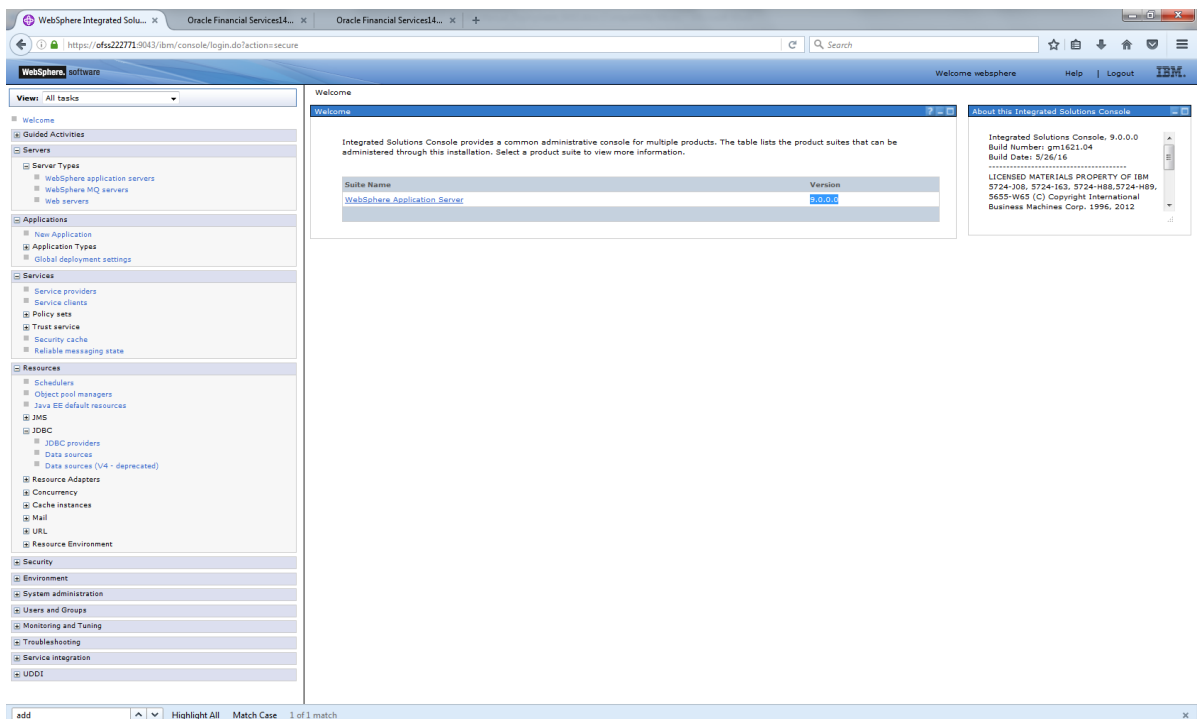
In the above example, 10.10.10.10 is the machine IP address on which WebSphere is running.

The following screen is displayed:



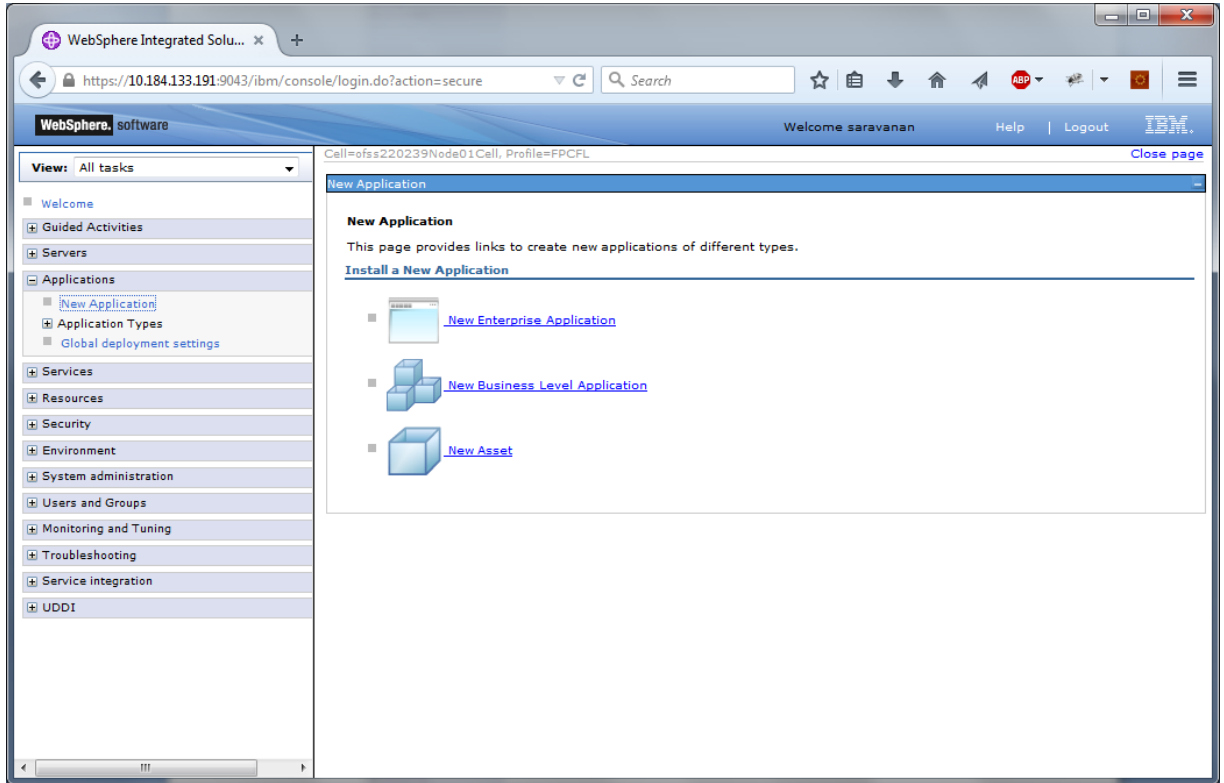
2. Enter the user name and password and click 'Log In' to log in to the application server.
3. Navigate to the WebSphere Home Page.

The following screen is displayed.

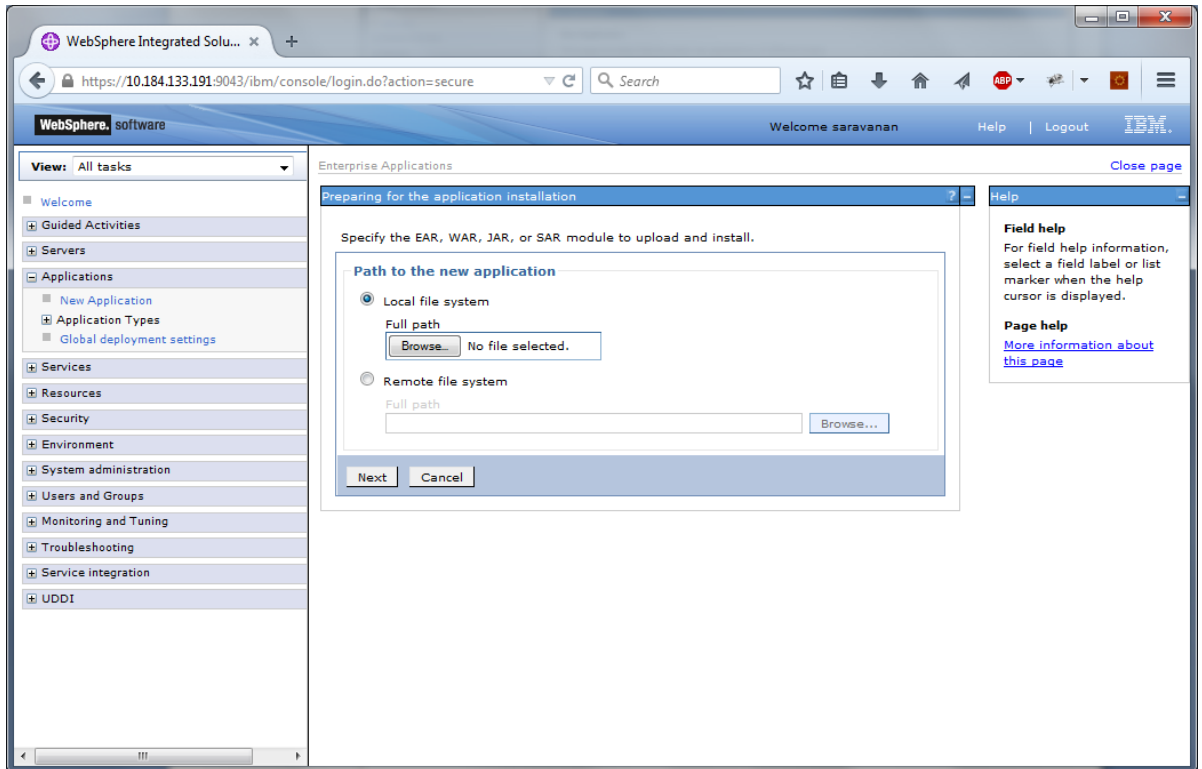


- Expand Applications from left-side menu and Click 'New Application'.

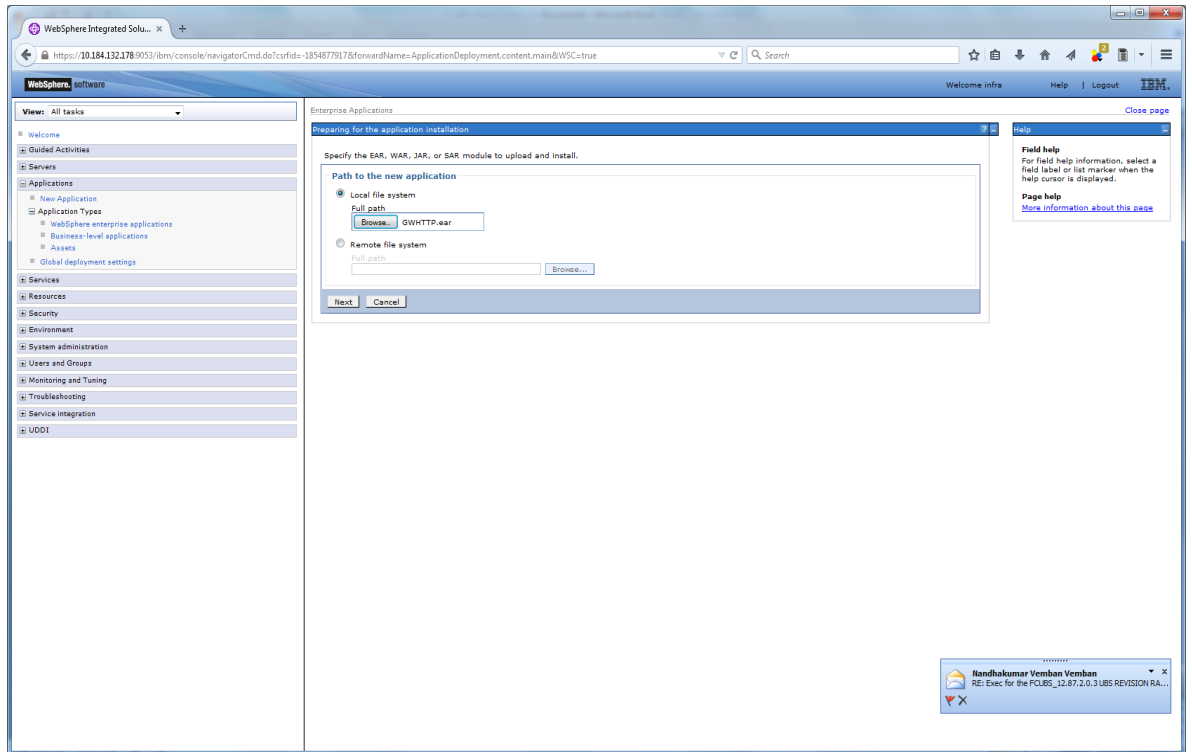
The following screen is displayed.



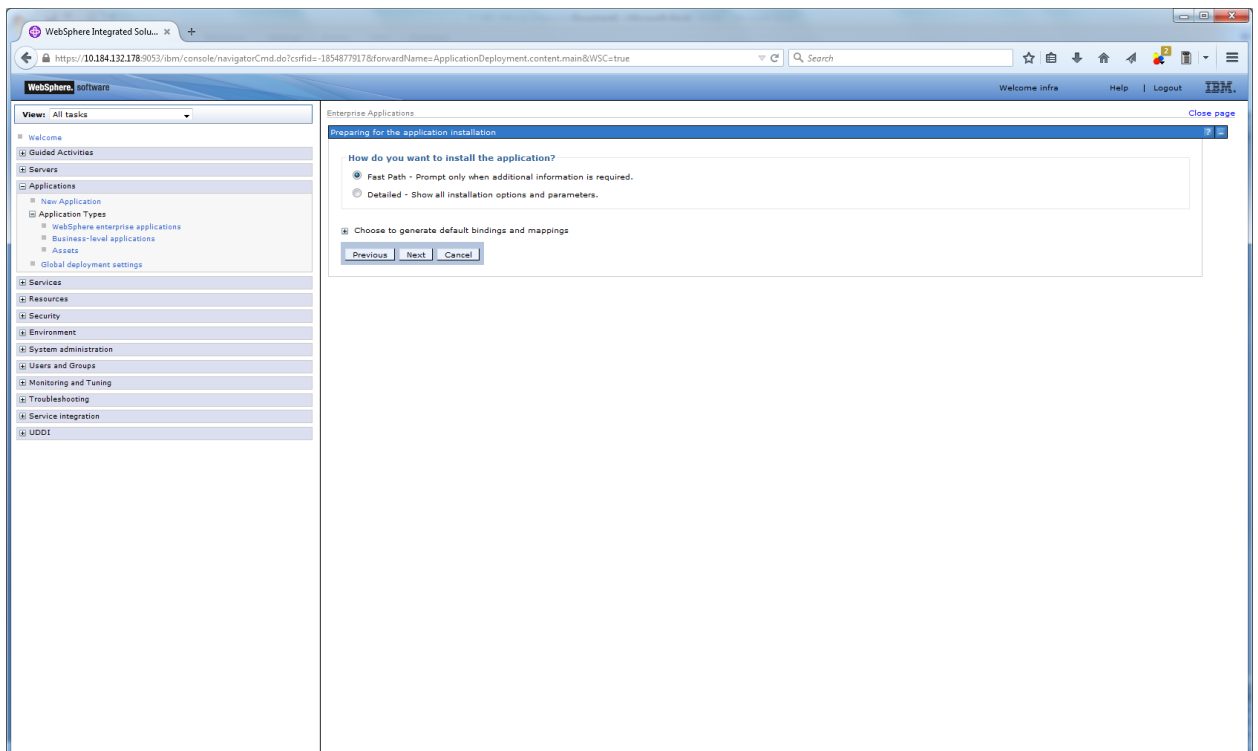
- Click 'New Enterprise Application'.



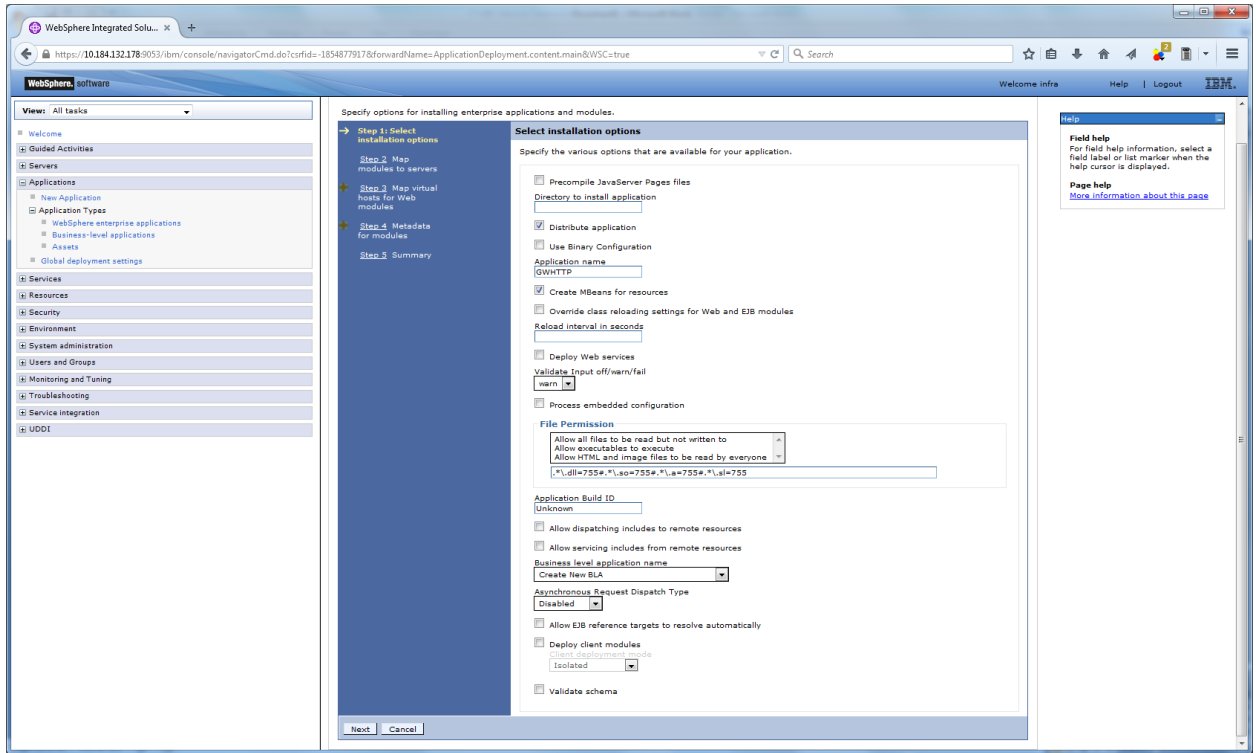
6. Browse the application EAR file and click next button



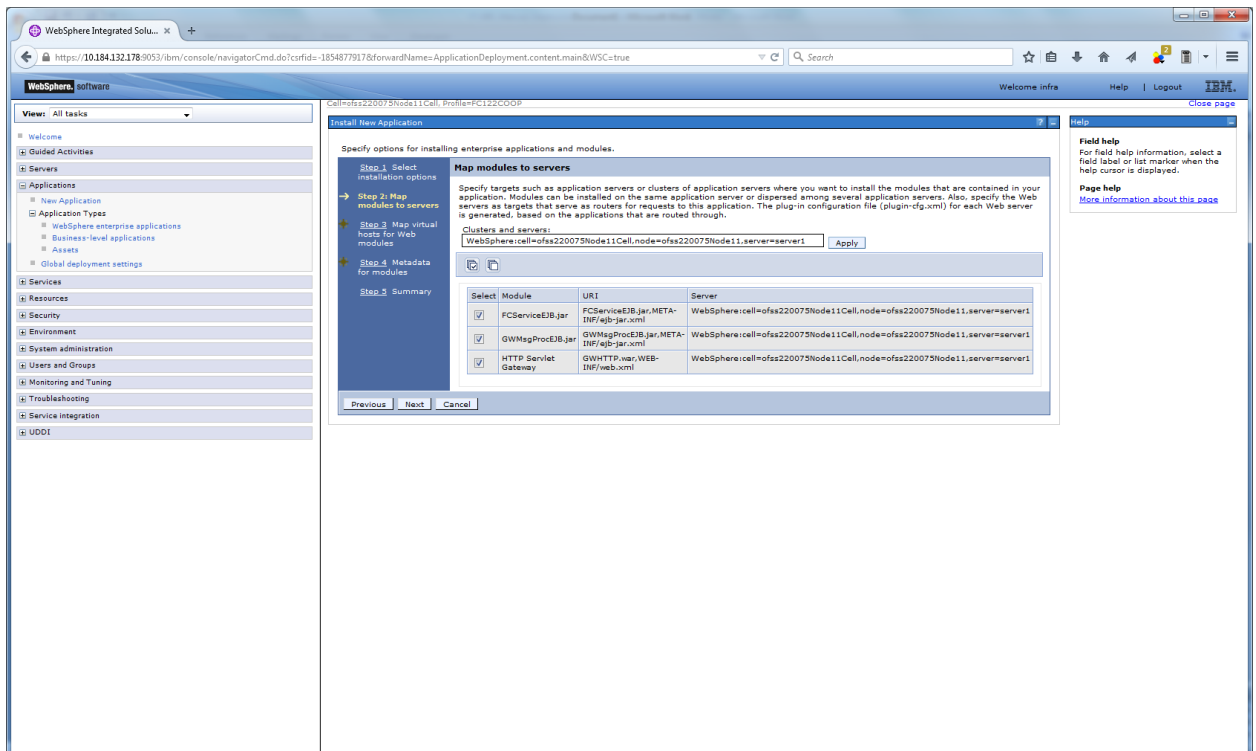
7. Click next and the following screen is displayed.



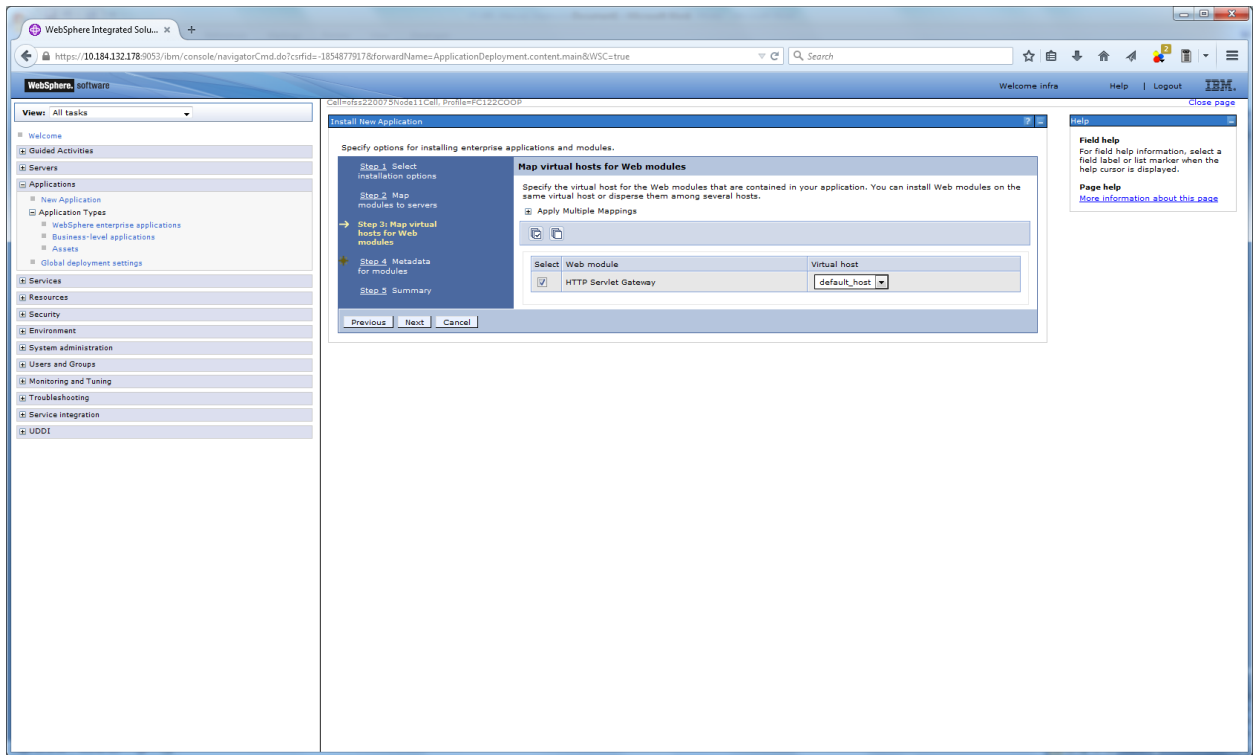
8. Click next and the following screen is displayed.



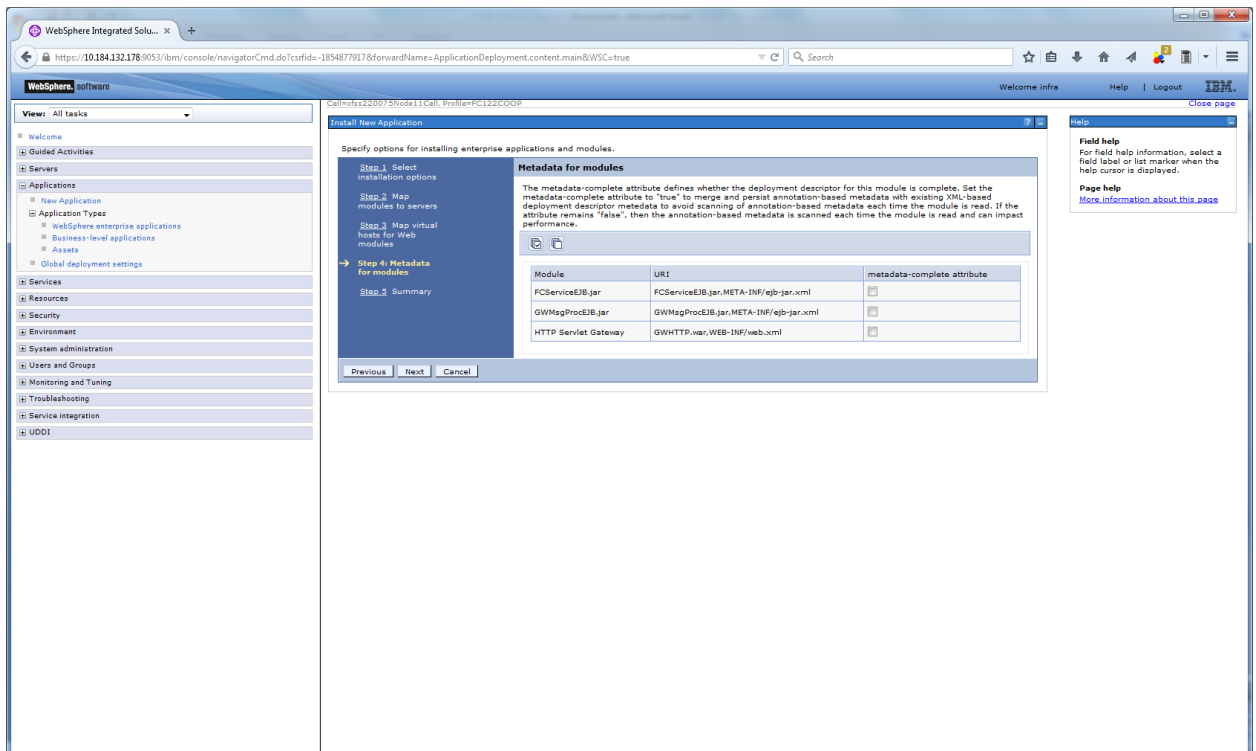
9. Click next and the following screen is displayed.



10. Click next and the following screen is displayed.

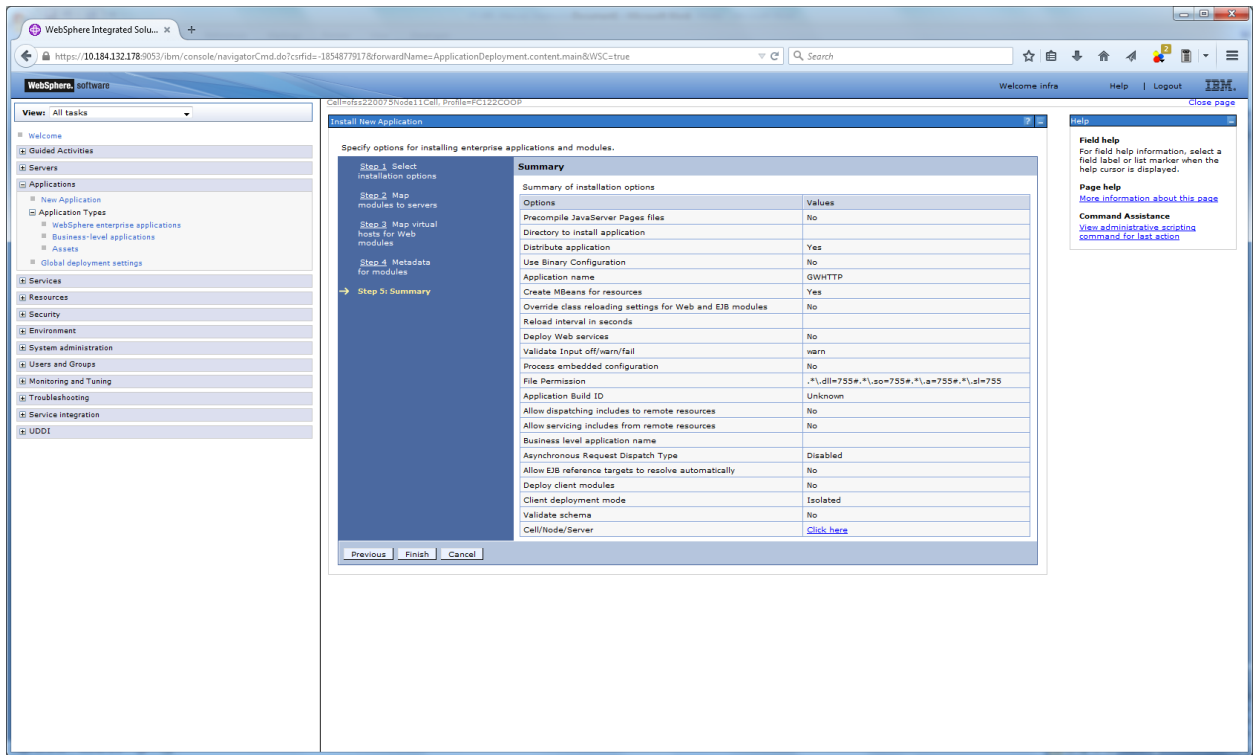


11. Click next and the following screen is displayed.

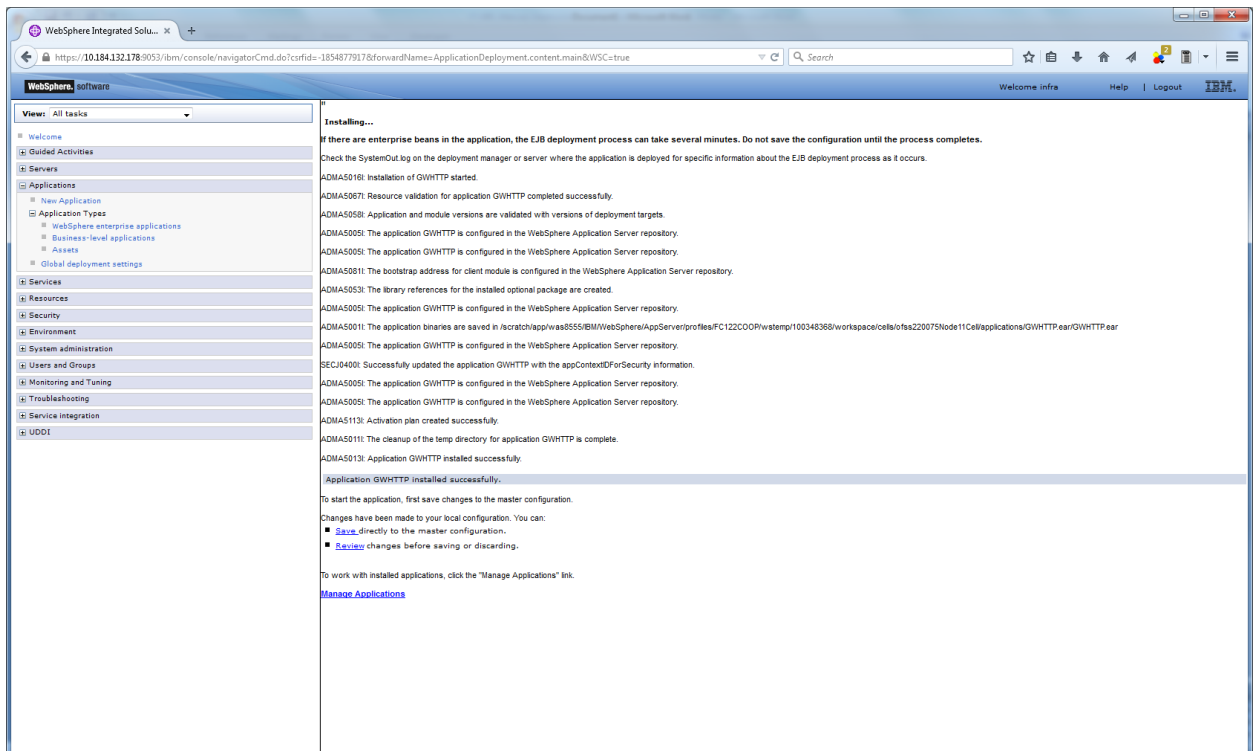




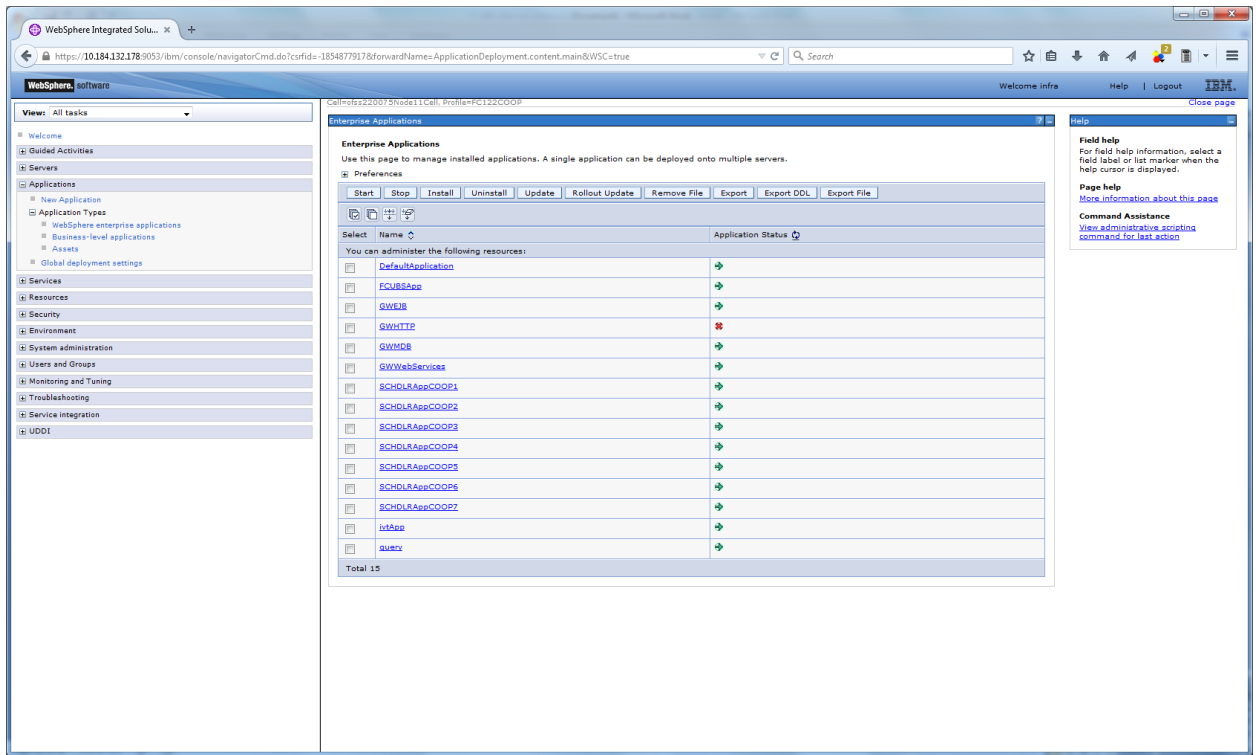
12. Click next and the following screen is displayed.



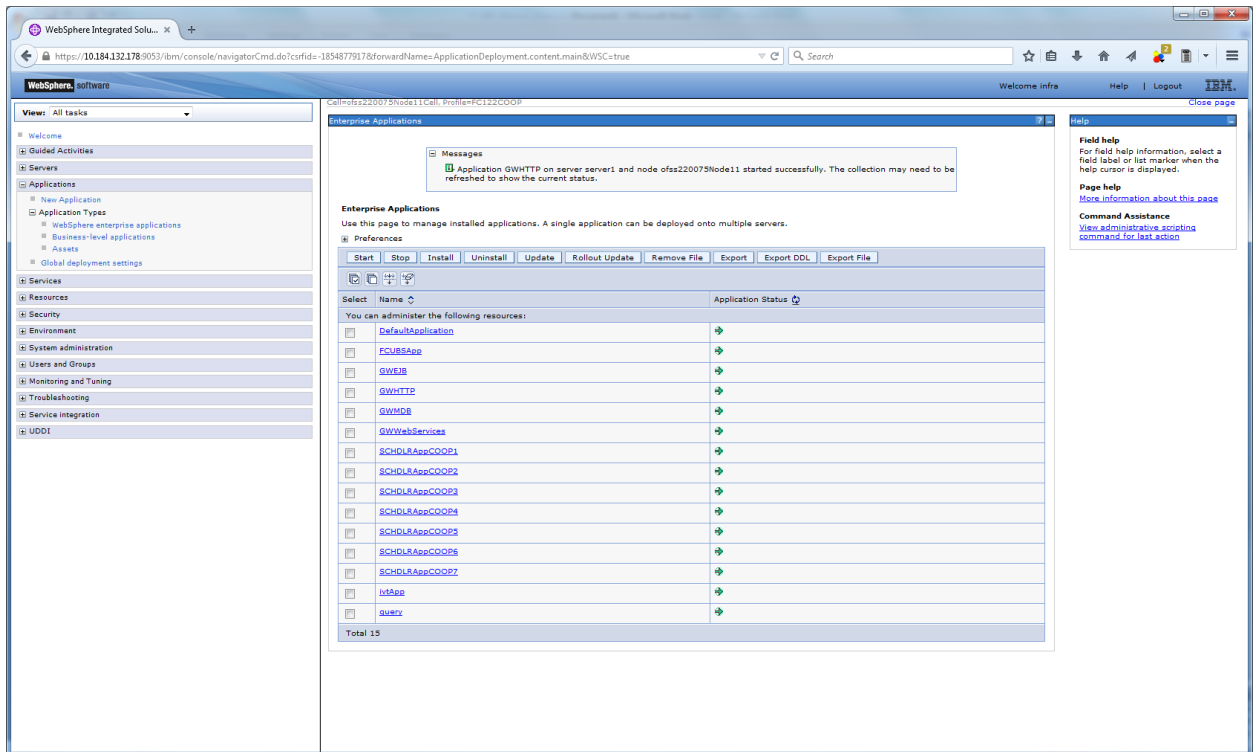
13. Click on finish and the following screen is displayed.



14. Click on save and the following screen is displayed.



15. Select the installed application and click on start.



GWHTTP application has been deployed successfully.

## 1.2.7 **FCUBS GWWebServices Application Deployment**

To deploy Oracle FLEXCUBE UBS application on WebSphere application server, follow the steps given below:

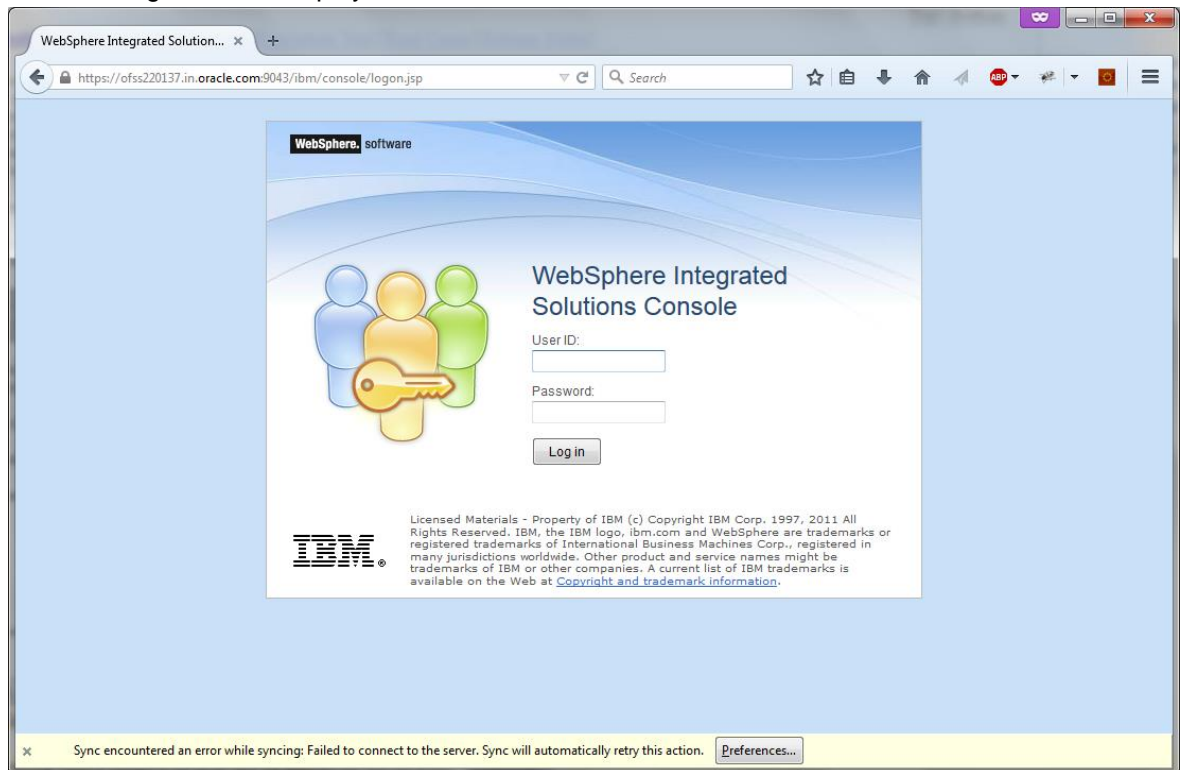
1. Open the Administrative Console of WebSphere server:

Open an internet browser and type the WebSphere Admin Console URL  
`http://{Host}:{Port}/console.`

Eg: `https://10.10.10.10:1010/console`

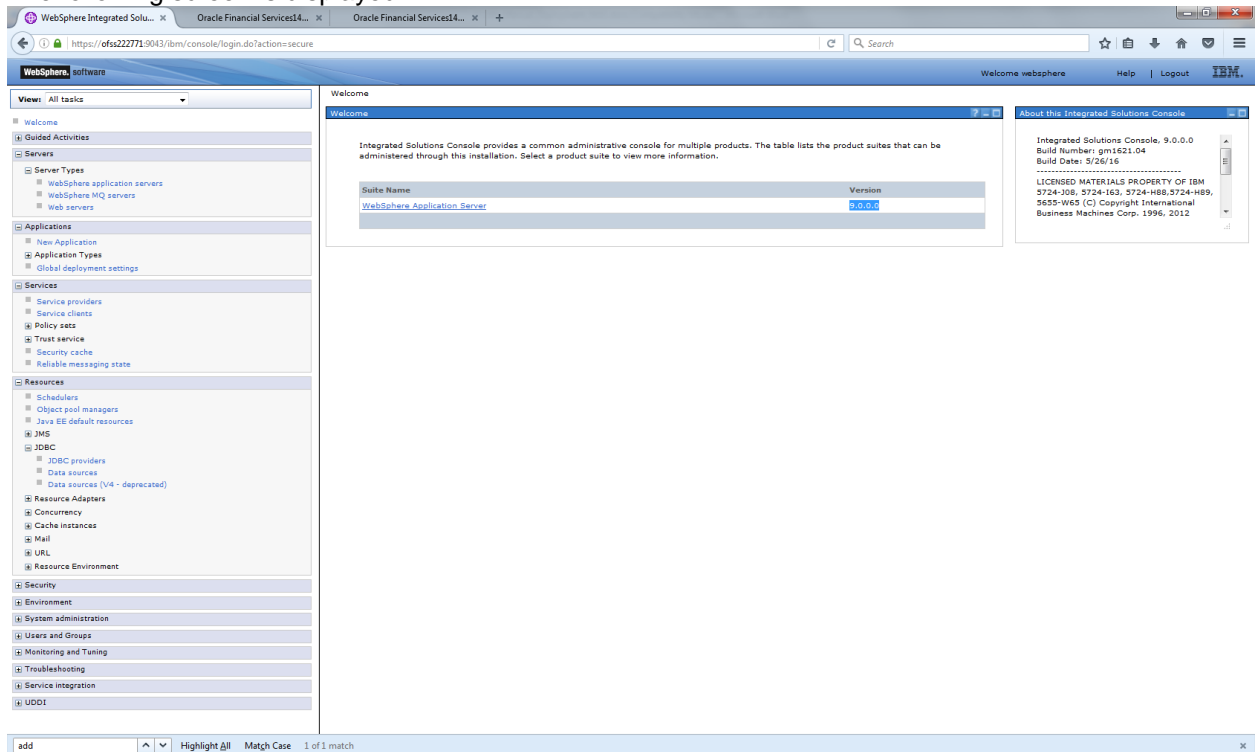
In the above example, 10.10.10.10 is the machine IP address on which WebSphere is running.

The following screen is displayed:



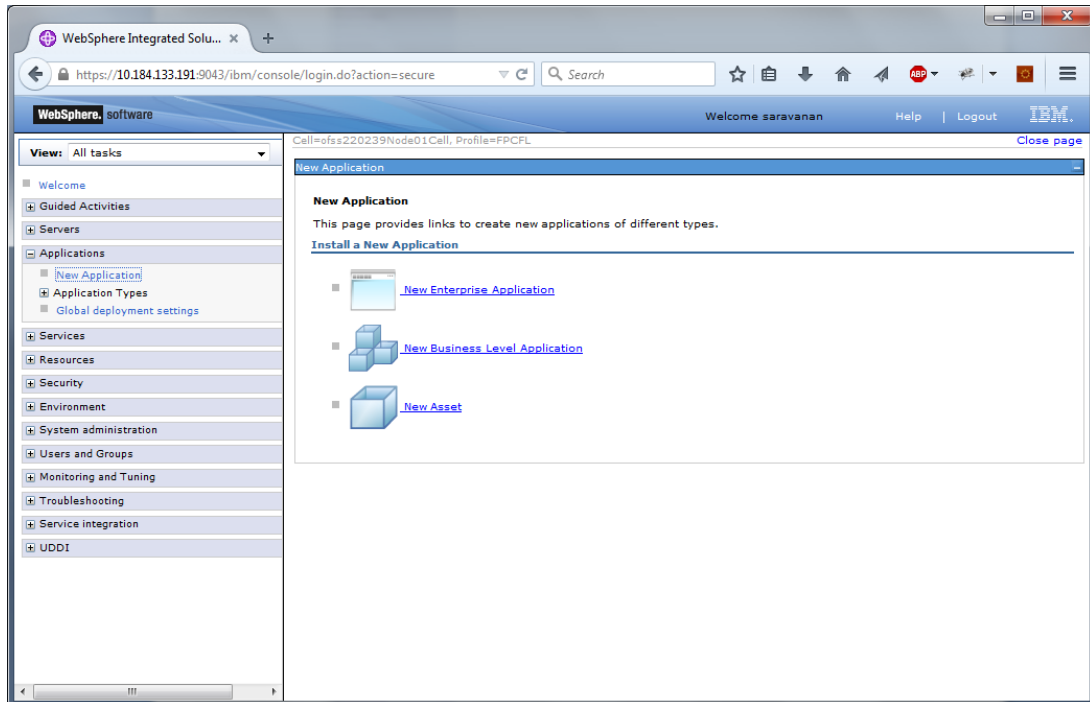
2. Enter the user name and password and click 'Log In' to log in to the application server.
3. Navigate to the WebSphere Home Page.

The following screen is displayed.

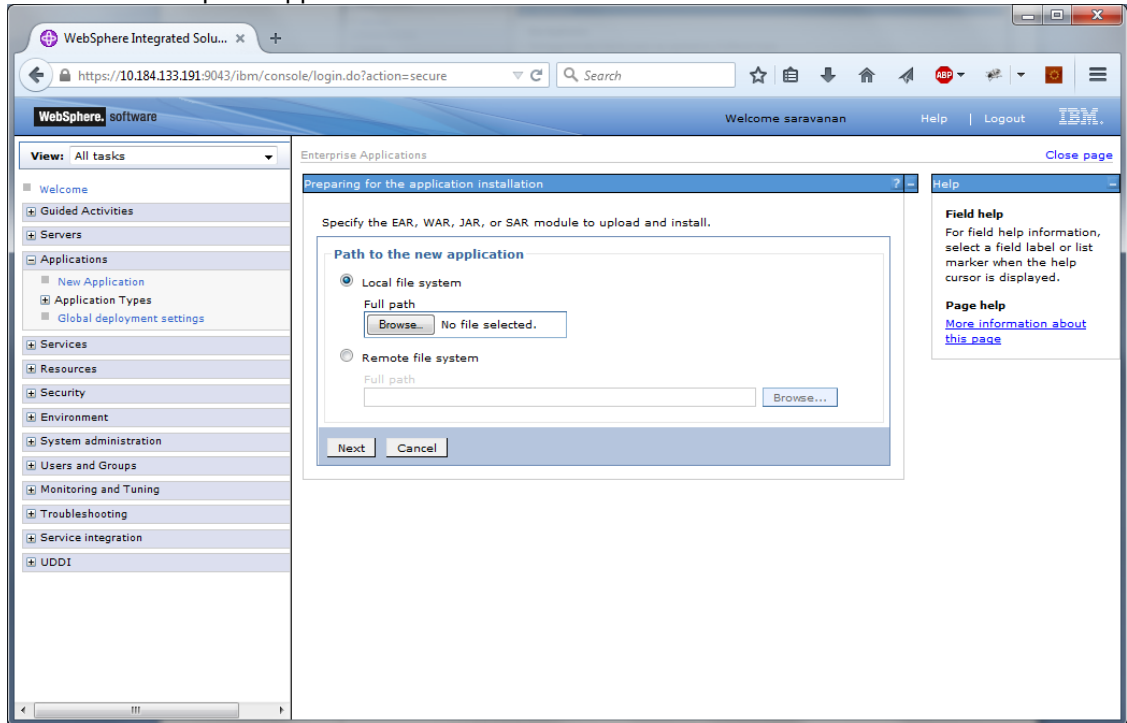


4. Expand Applications from left-side menu and Click 'New Application'.

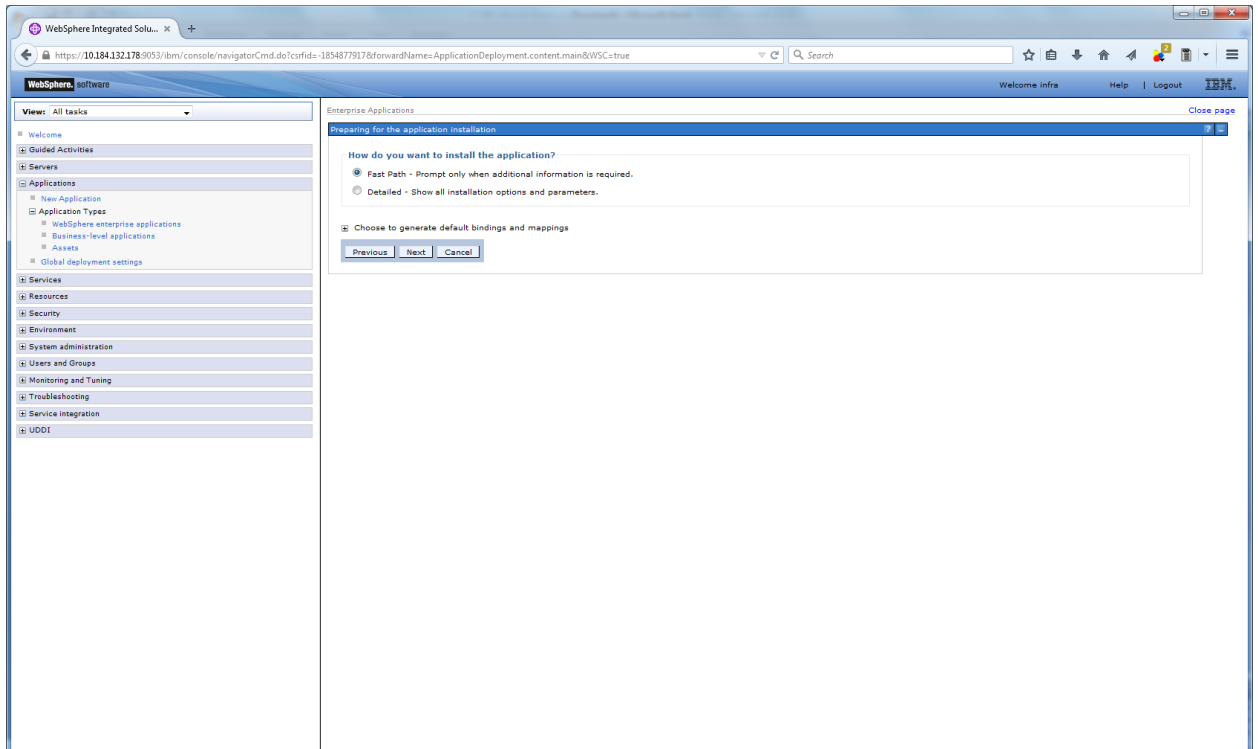
The following screen is displayed.



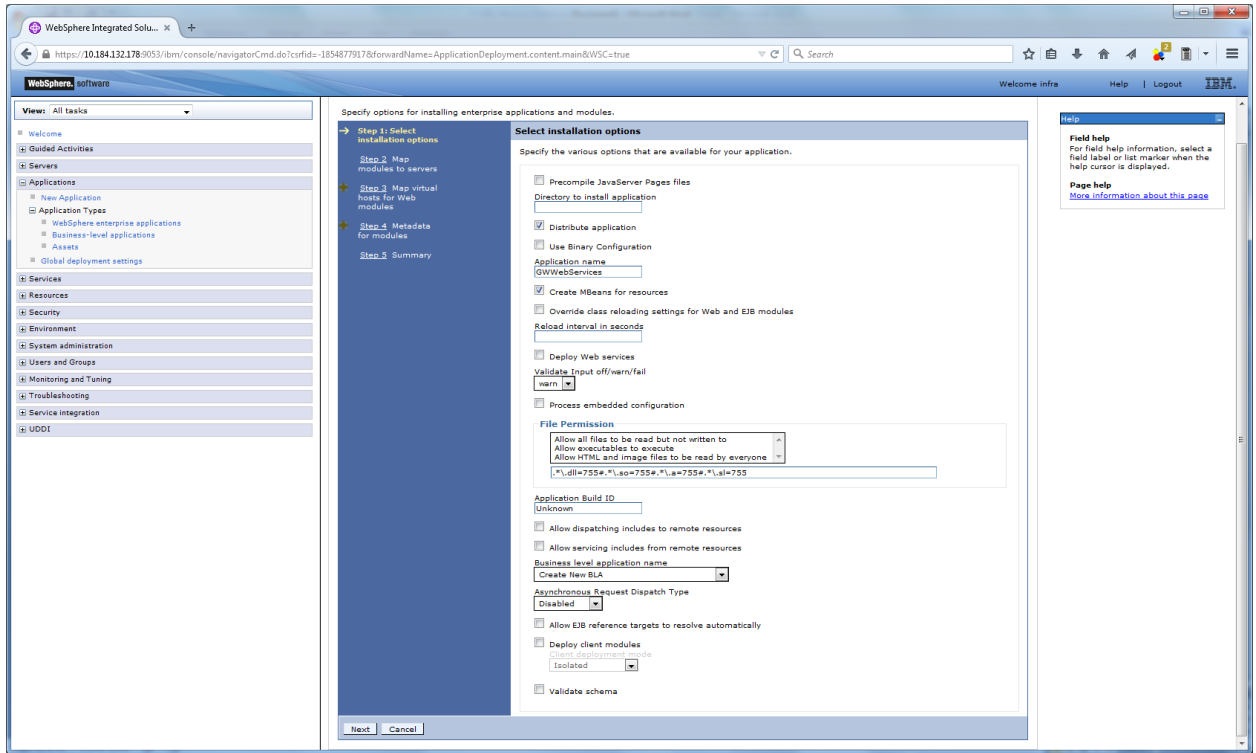
5. Click 'New Enterprise Application.'



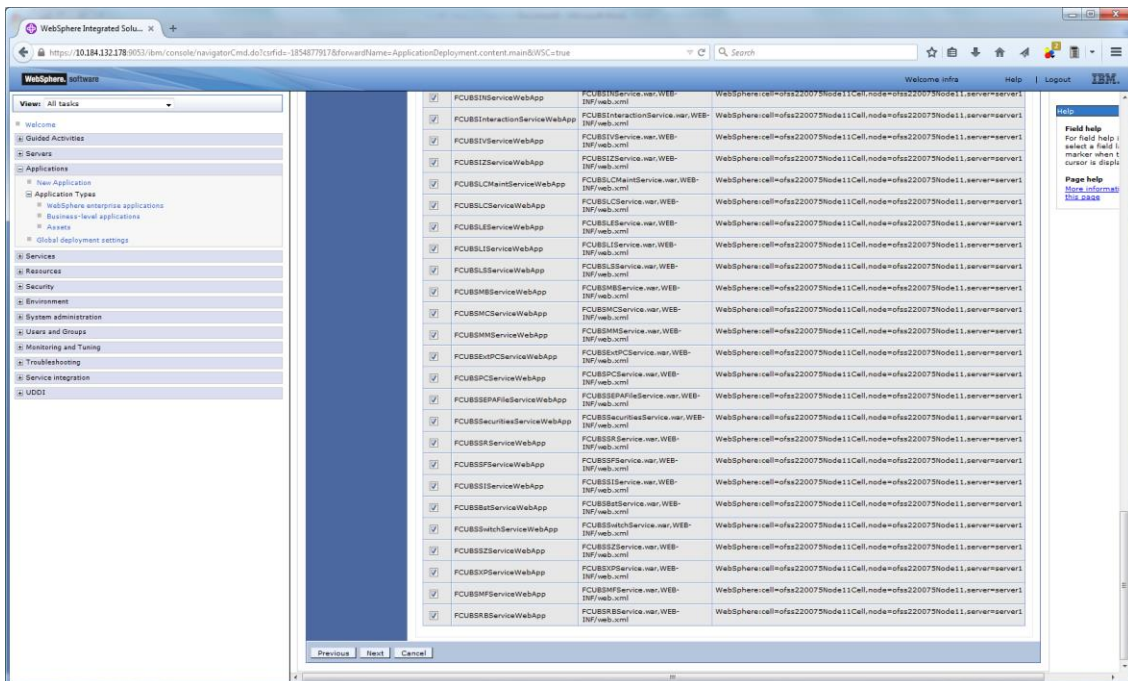
6. Browse the application EAR file and click next button.



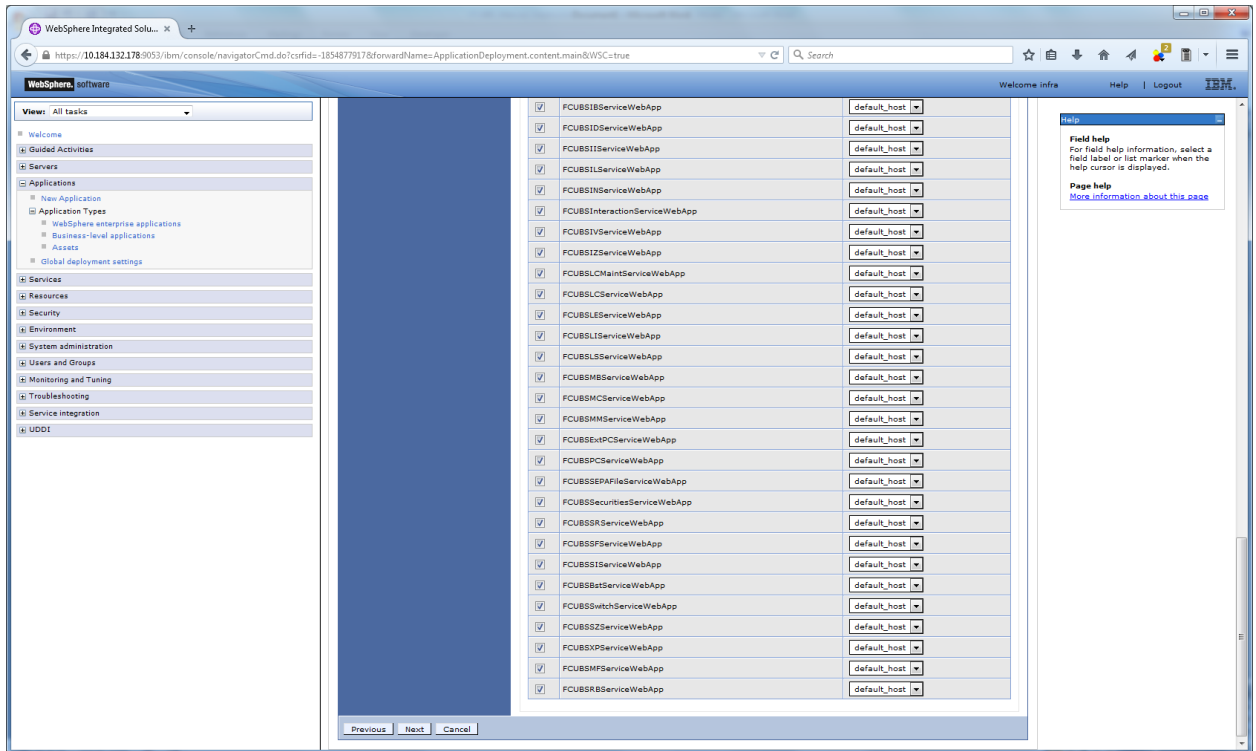
7. Click on next and the following screen is displayed.



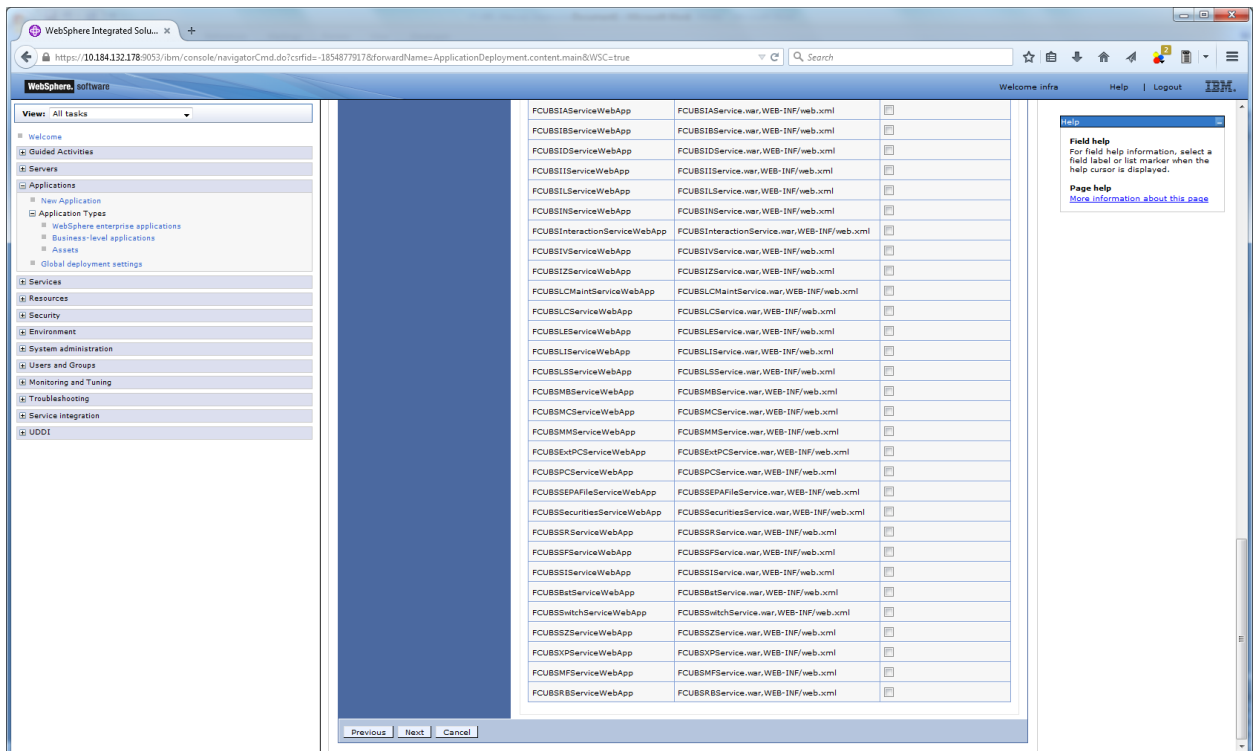
8. Click on next and the following screen is displayed.



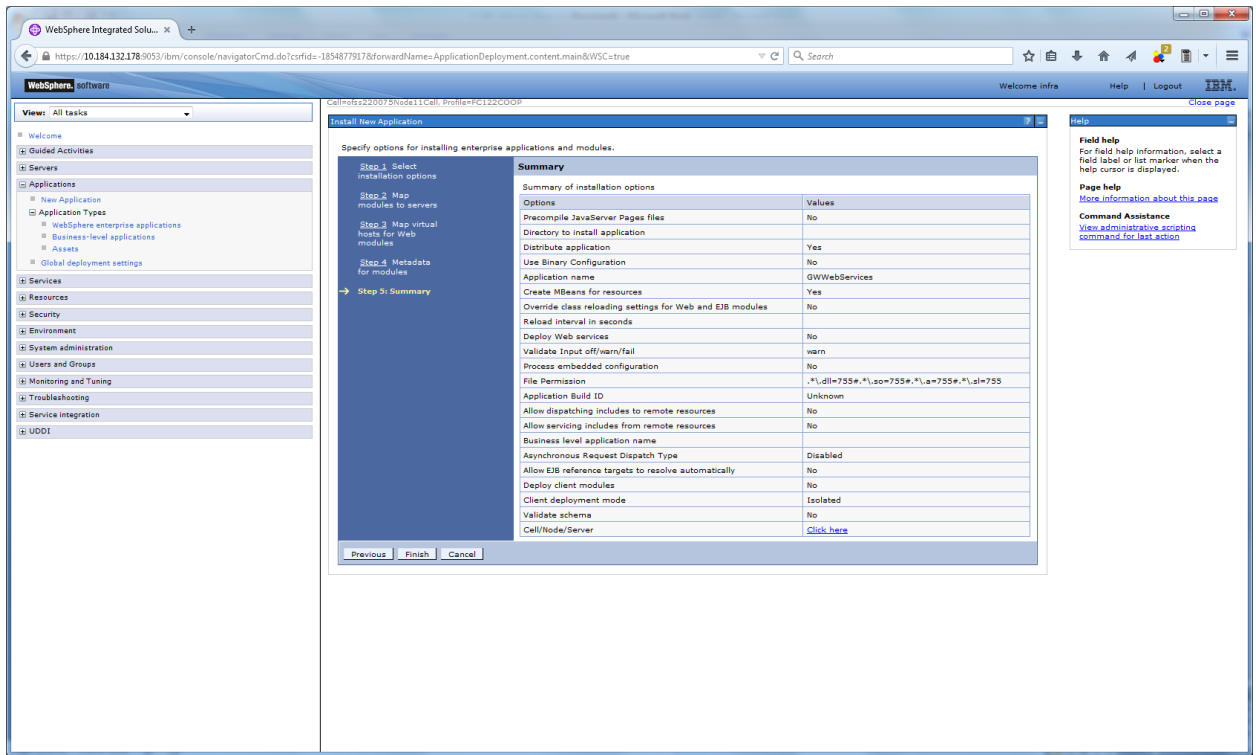
9. Click on next and the following screen is displayed.



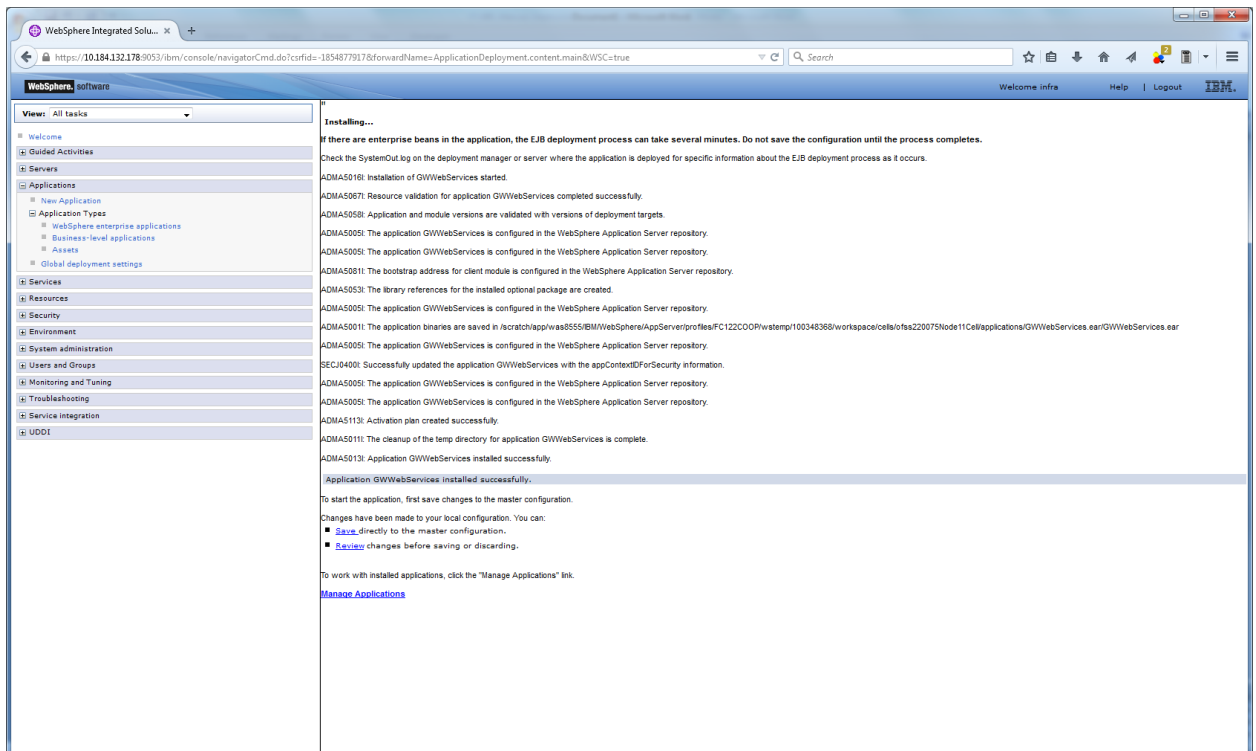
10. Click on next and the following screen is displayed.



11. Click on next and the following screen is displayed.

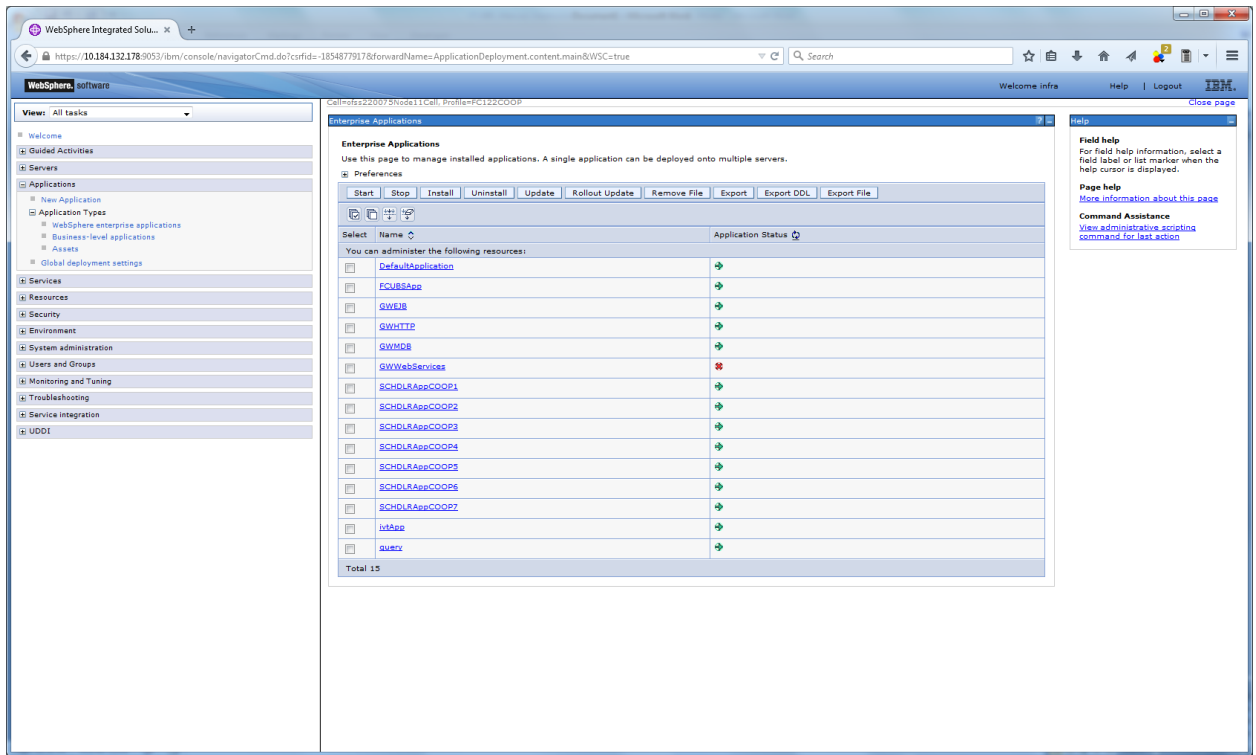


12. Click on finish and the following screen displayed.

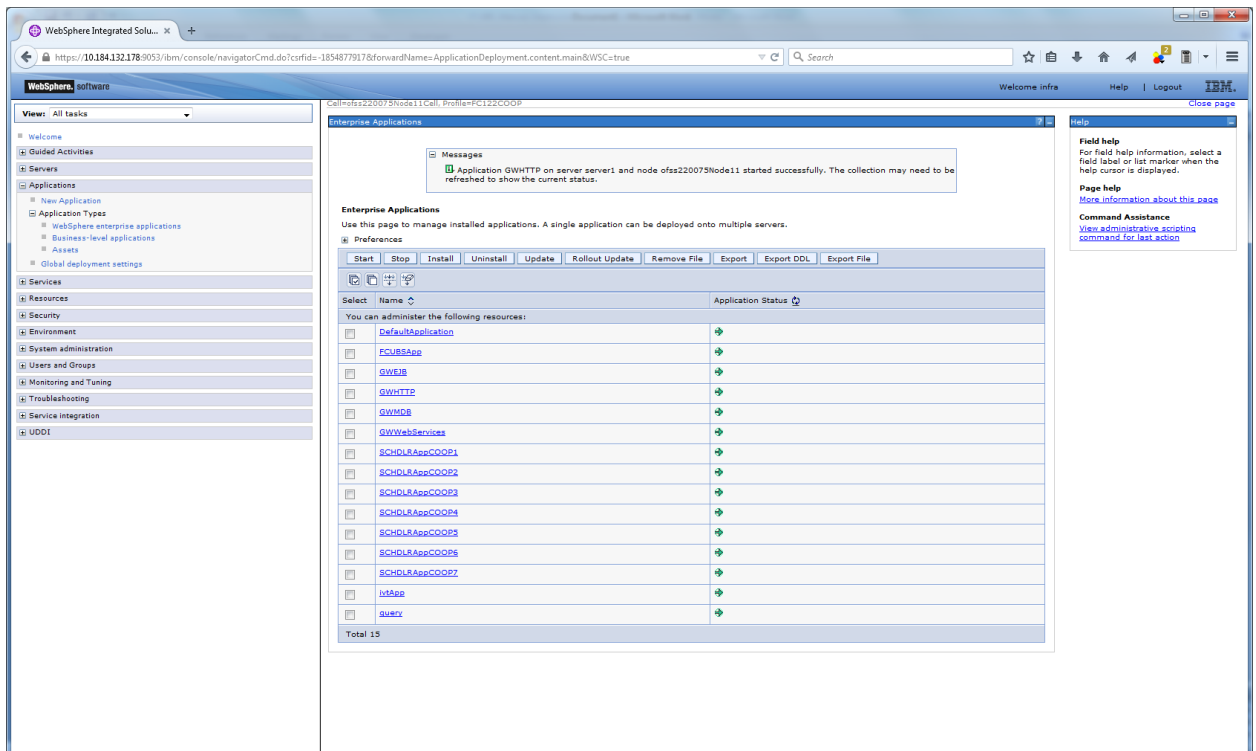




13. Click on save and the following screen is displayed.



14. Select the installed application and click on start.



GWWebServices application has been deployed successfully.



Deploying Oracle FLEXCUBE on WebSphere  
[May] [2018]  
Version 14.1.0.0.0

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