

Deploying Oracle Banking Application on WebSphere  
Oracle Banking Corporate Lending  
Release 14.6.0.0.0  
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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.

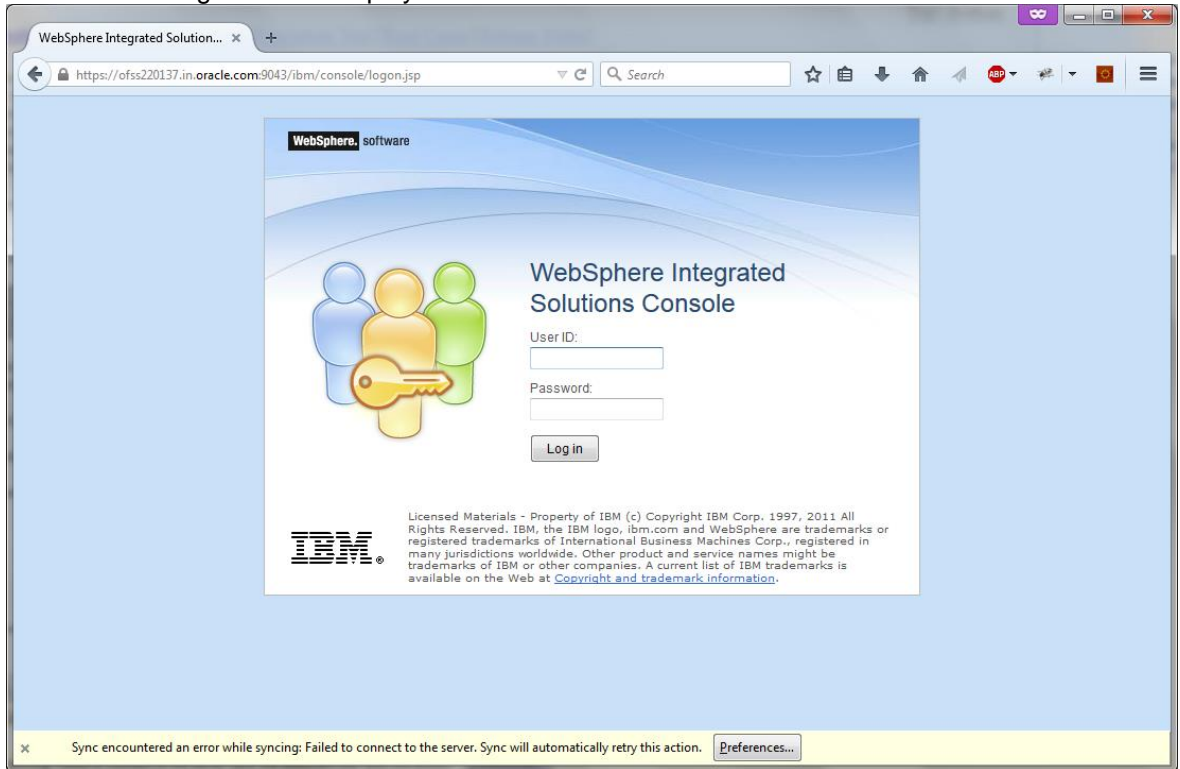
## 1.2 Deploying Application

### 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:

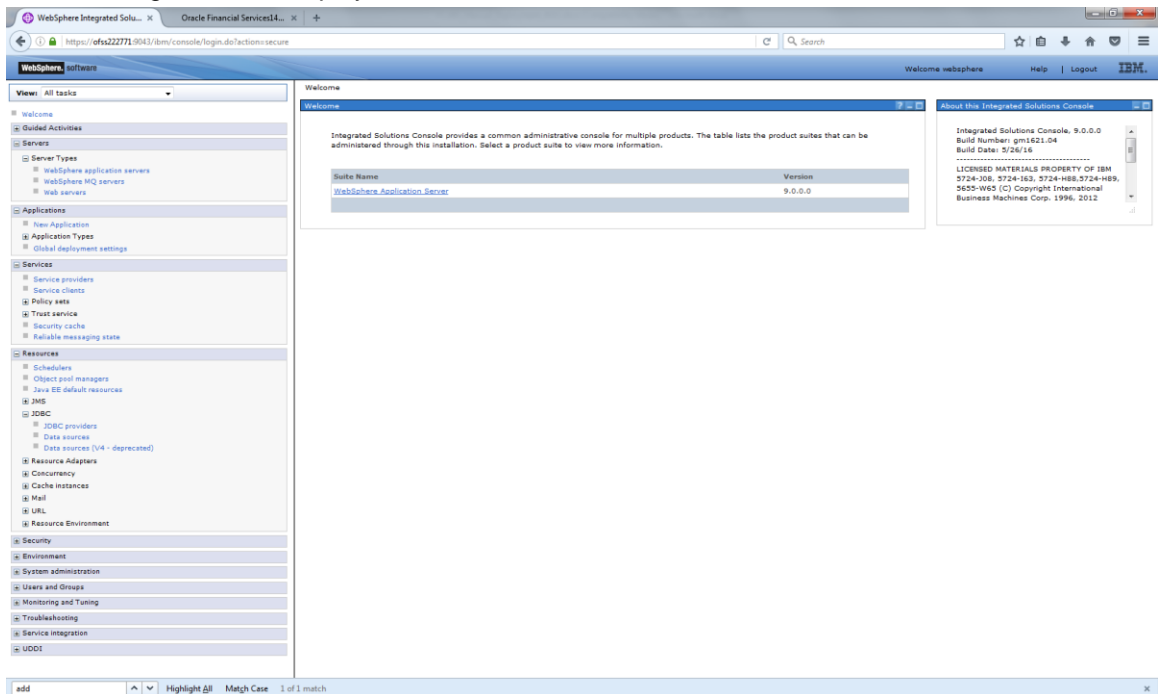
1. Copy Generated Integration Adapter (OBCLExtAdapter.jar or ExtAdapter.jar) to WebSphere Application server {Was\_profile}/Extadapter. Eg:  
/scratch/IBM8559/WebSphere/AppServer/profiles/BGV8559\_01/Extadapter
2. Open the Administrative Console of WebSphere server:
  - Open an internet browser and type 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 showing the selected scope: 'Node=ofss2311694Node08, Server=server1'. Under the 'Preferences' section, there are 'New...' and 'Delete' buttons. A table below shows the resources that can be administered, with one entry: 'OBCLExtAdapter'. The table has columns for 'Select', 'Name', and 'Description'. The total number of resources is 1.

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, Profile=ELCMO8CLAPP, 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	

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

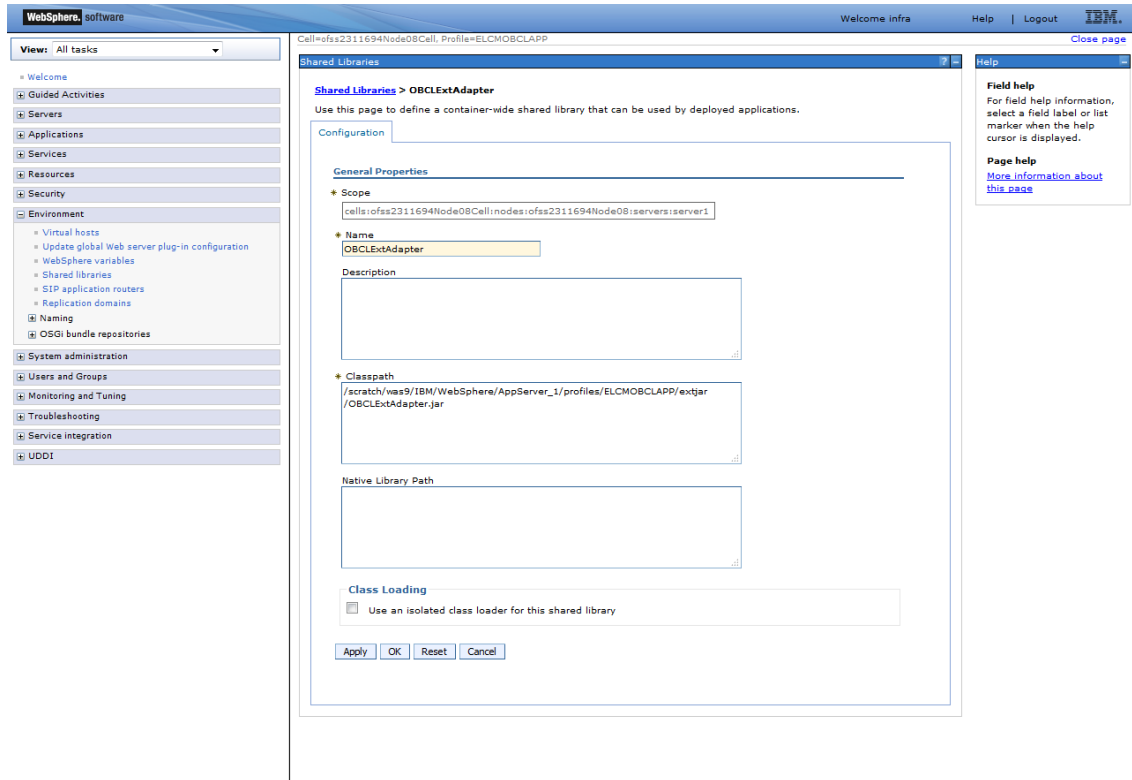
The following screen is displayed.

The screenshot displays the WebSphere Administration Console interface. The top header shows 'WebSphere, software' on the left and 'Welcome infra' on the right, along with 'Help' and 'Logout' links. The breadcrumb trail indicates the current location: 'Shared Libraries > New...'. The main configuration area is titled 'Configuration' and contains the following sections:

- General Properties**
  - Scope:** A text field containing the value 'cells:ofs2311694Node08Cell:nodes:ofs2311694Node08:servers:server1'.
  - Name:** An empty text field.
  - Description:** A large empty text area.
  - Classpath:** A large empty text area.
  - Native Library Path:** A large empty text area.
- Class Loading:** A checkbox labeled 'Use an isolated class loader for this shared library' which is currently unchecked.

At the bottom of the configuration area are buttons for 'Apply', 'OK', 'Reset', and 'Cancel'. On the right side, a 'Help' panel provides instructions on how to use field help information.

- 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:

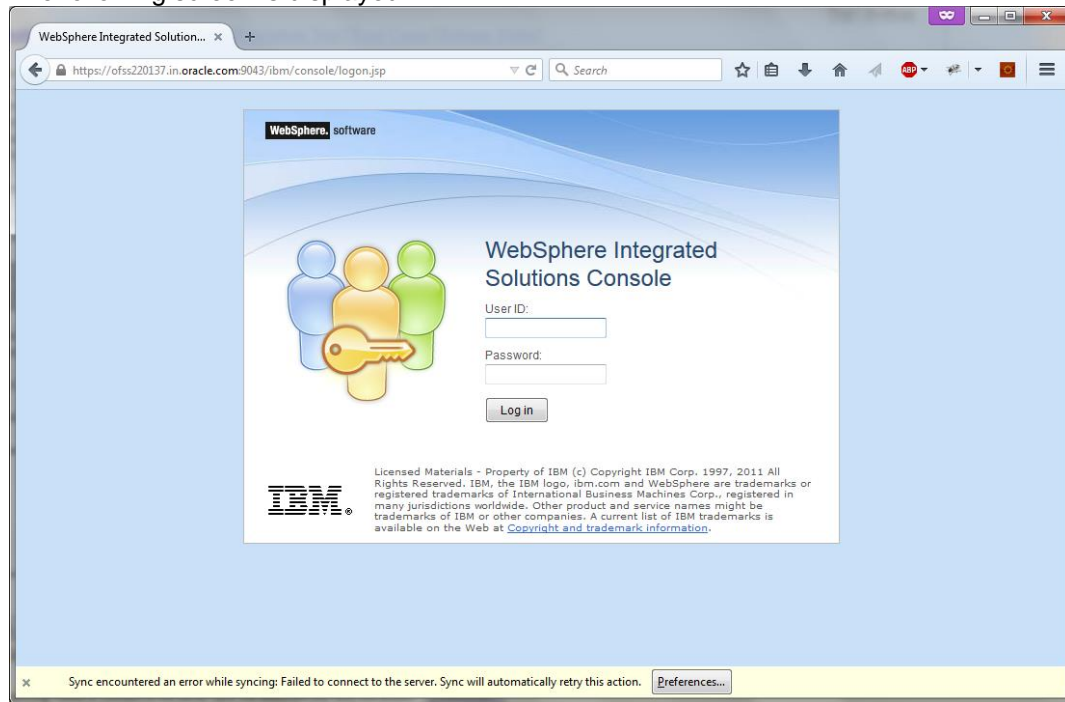
9. Open the Administrative Console of WebSphere server:

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.

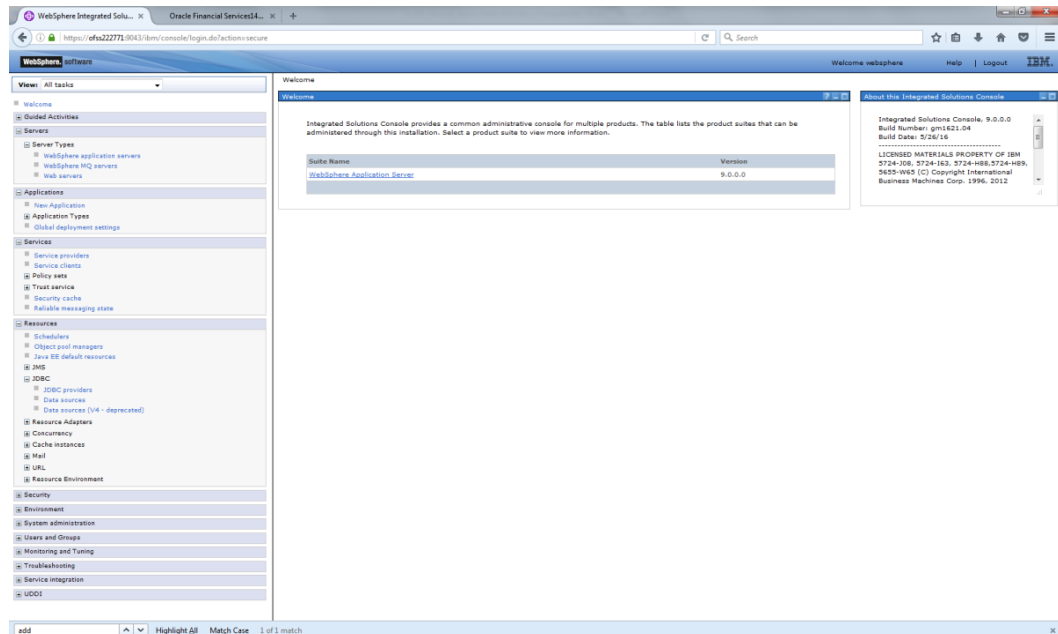
The following screen is displayed:



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.

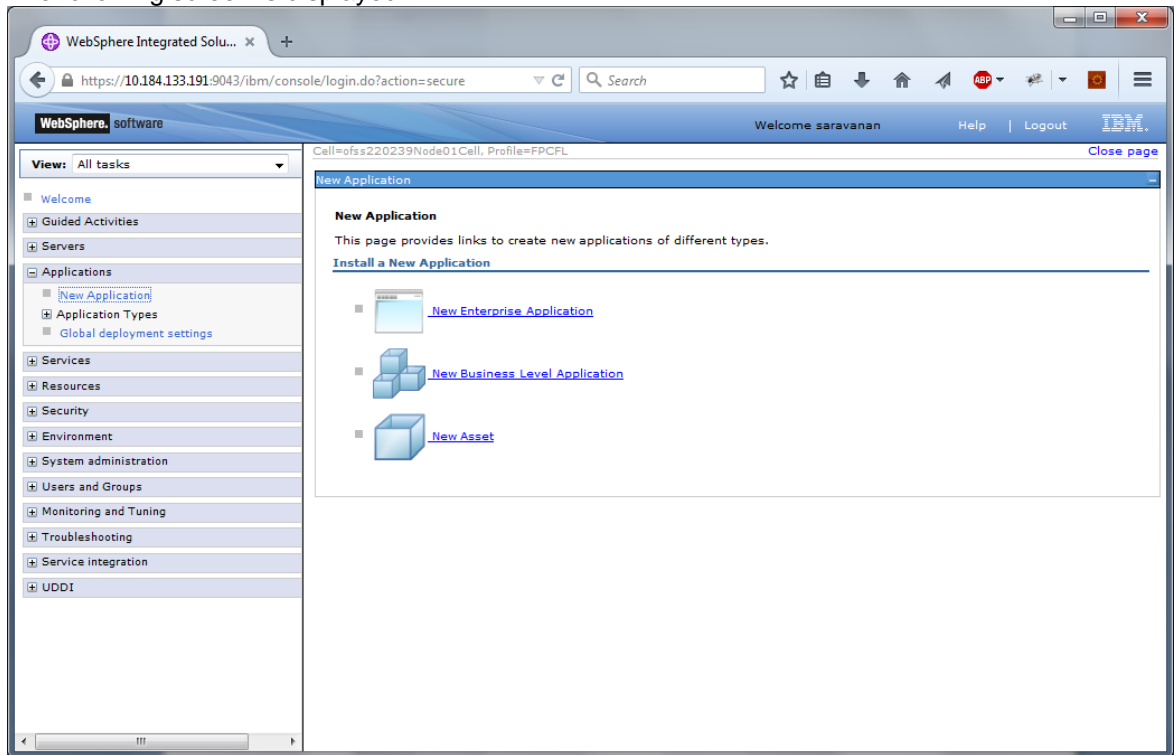
The following screen is displayed.



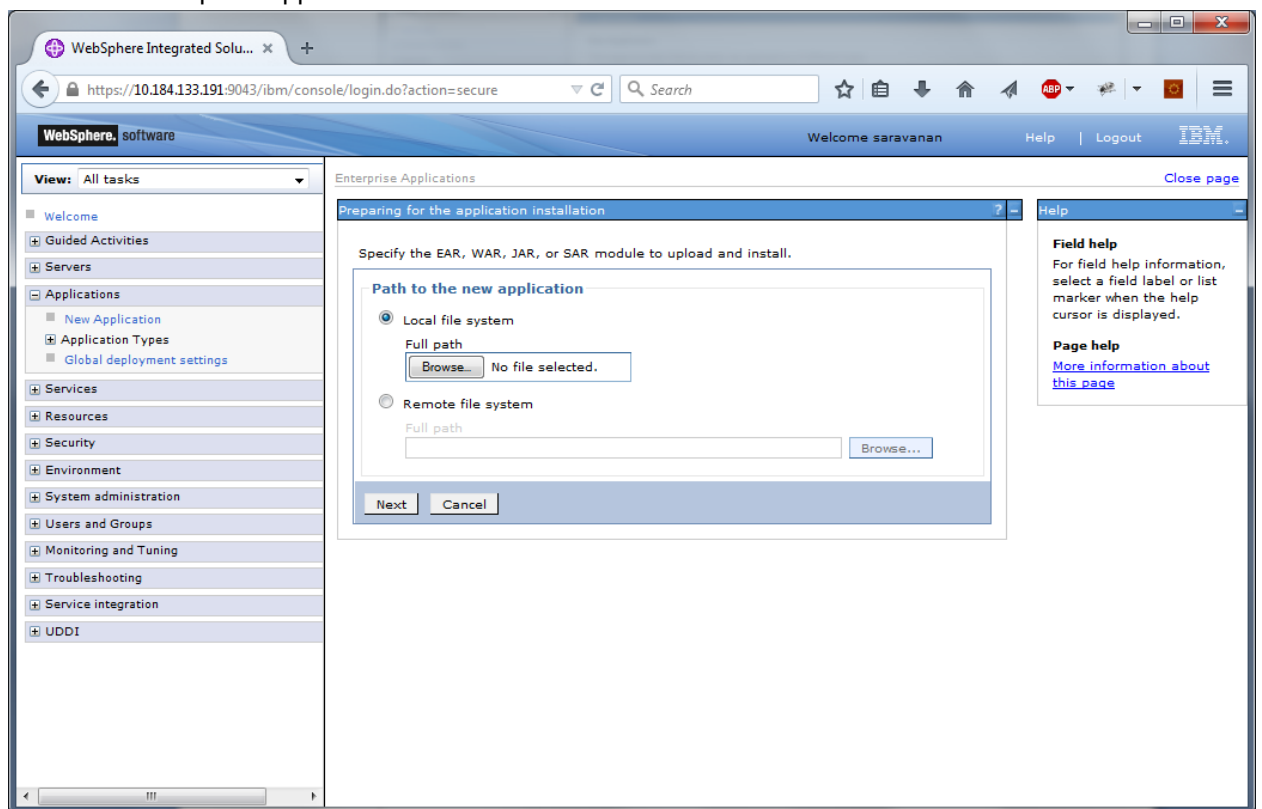
12. Expand Applications from left-side menu and Click 'New Application'.



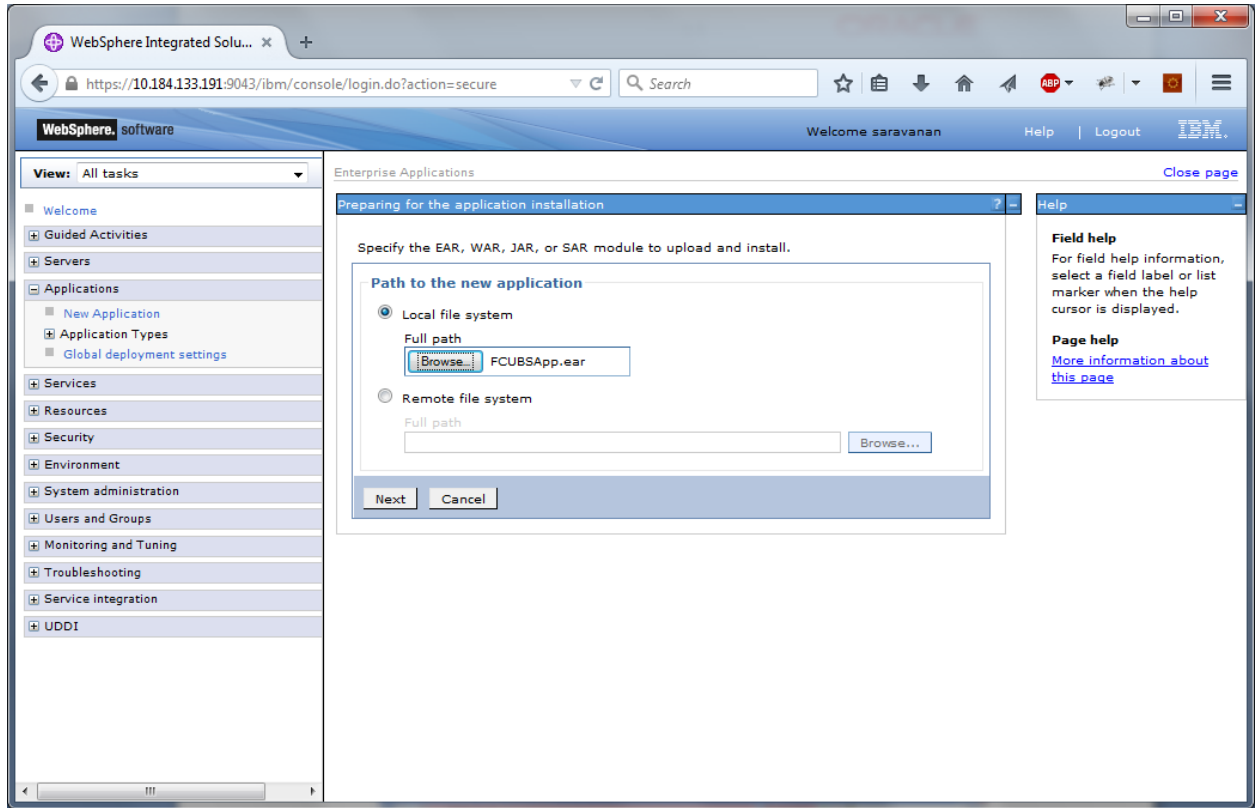
The following screen is displayed.



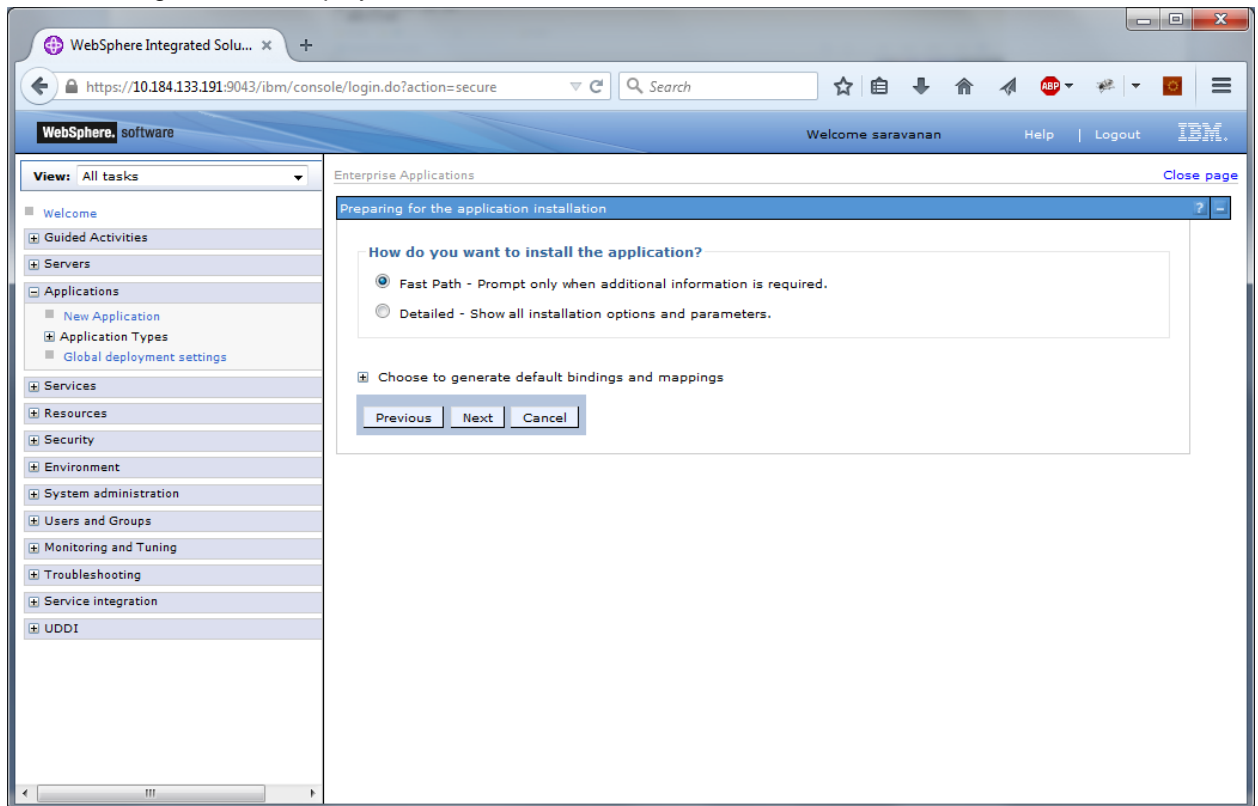
13. Click 'New Enterprise Application'.



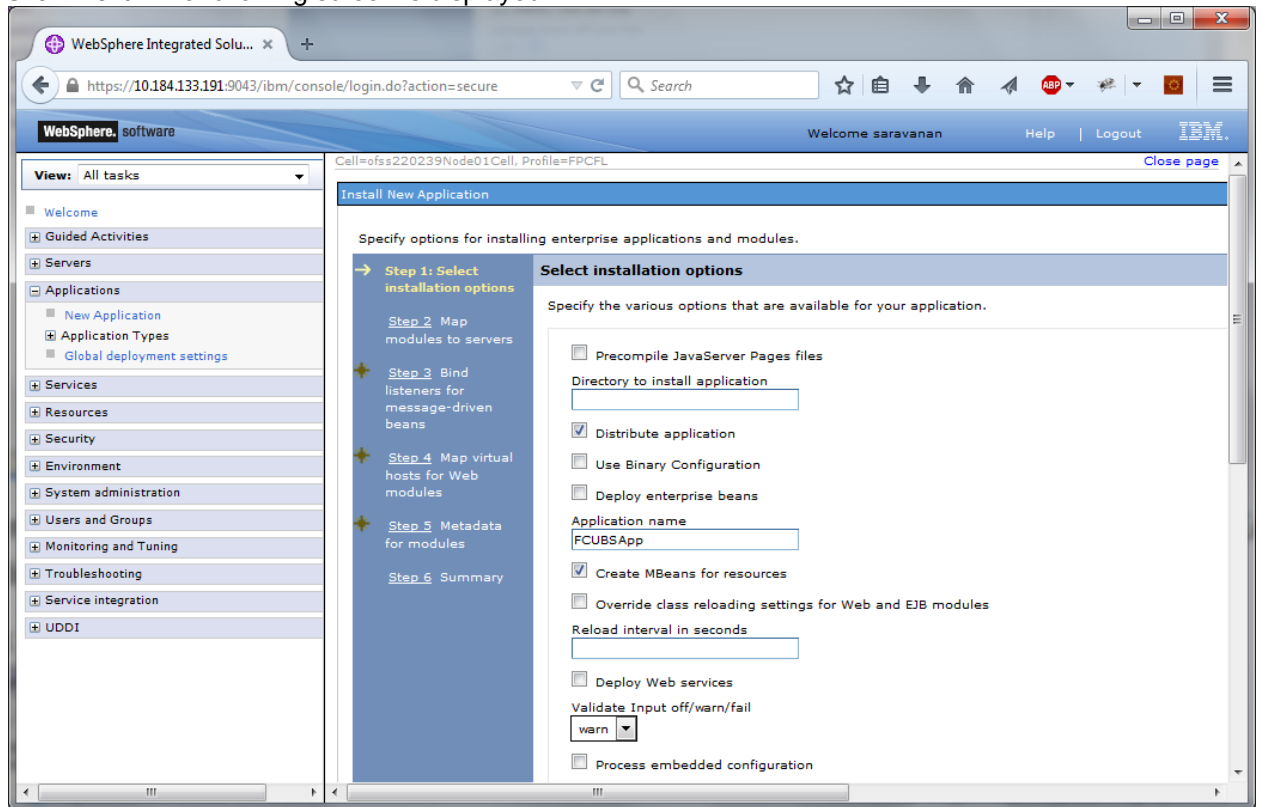
14. Browse the application EAR file and click next button



The following screen is displayed.

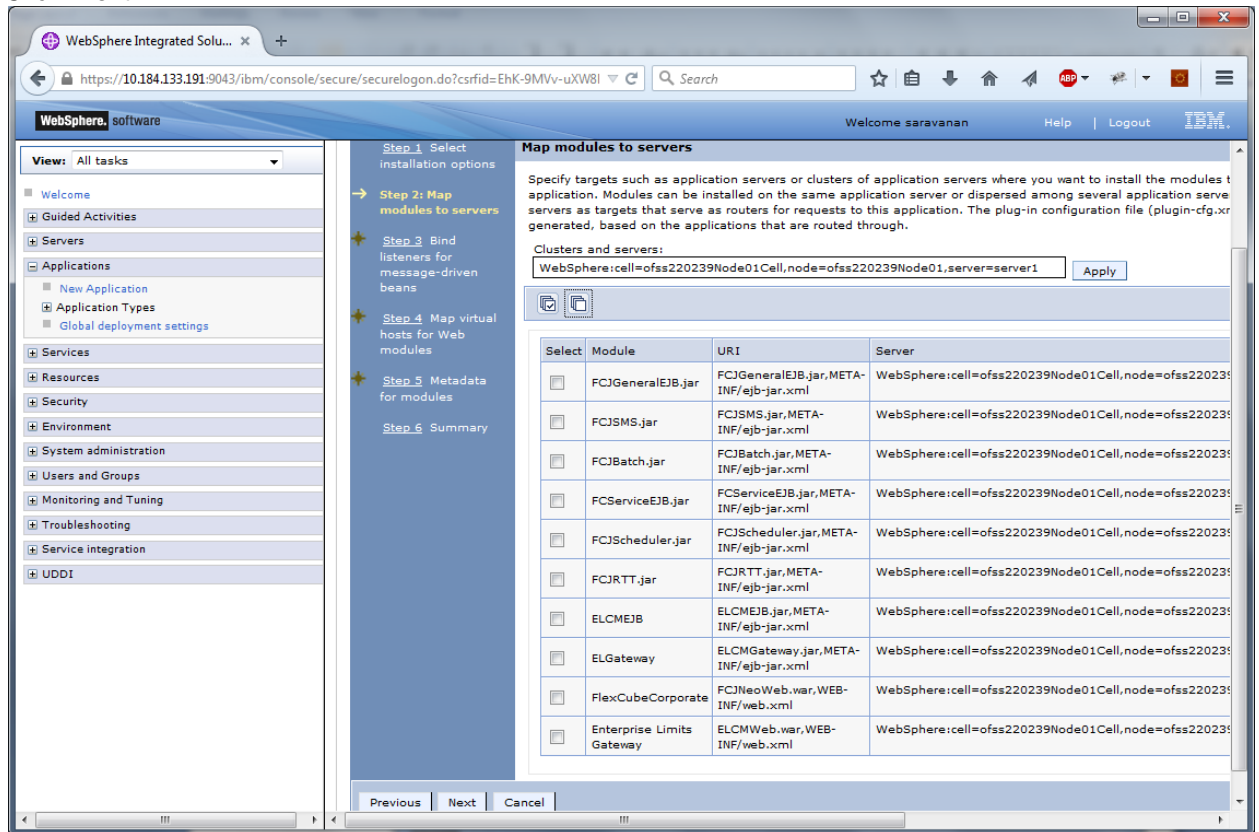


15. Click 'Next'. The following screen is displayed.

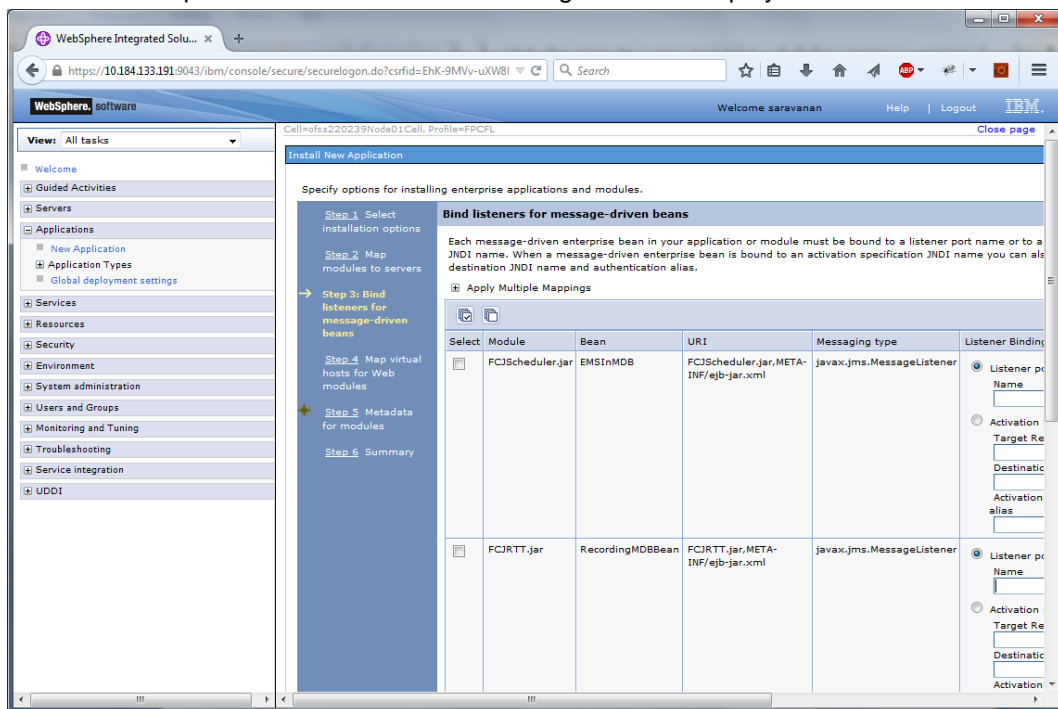


16. Enter the Application Name. This should be the application name mentioned as part of EAR building.

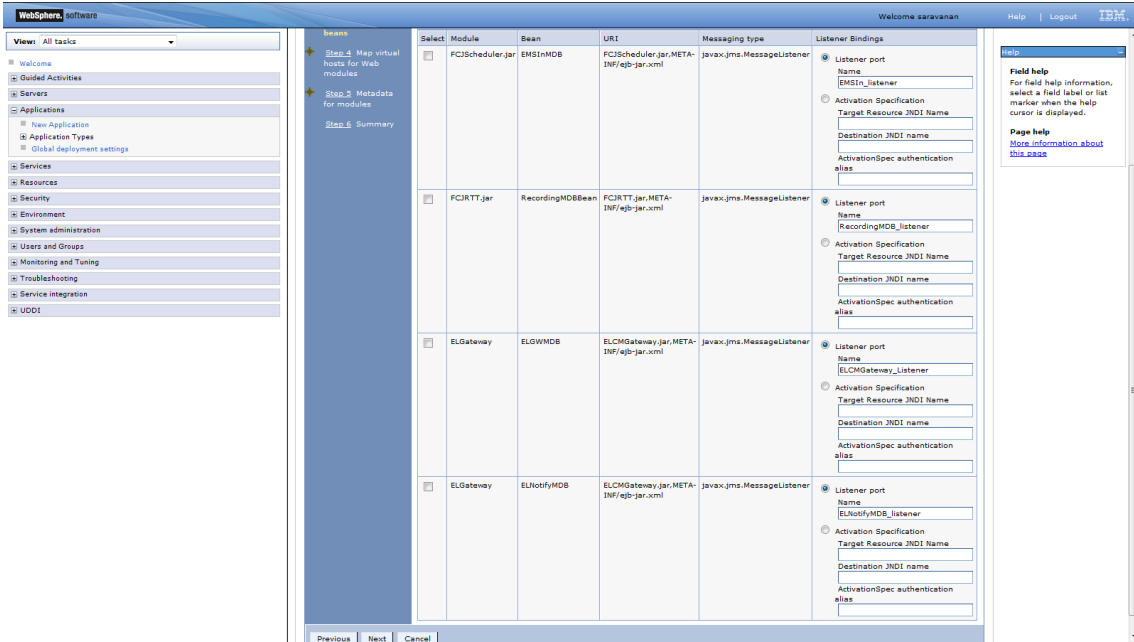
17. Click 'Next'.



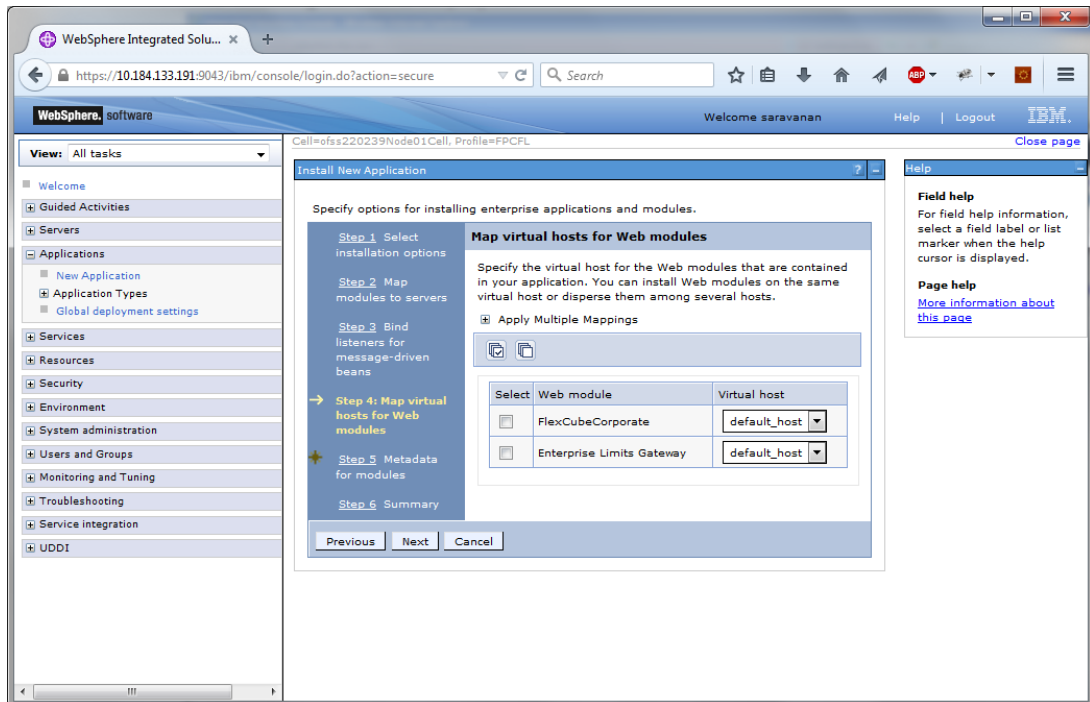
18. Check all the options. Click 'Next'. The following screen is displayed.



19. Specify the details as shown in the figure.

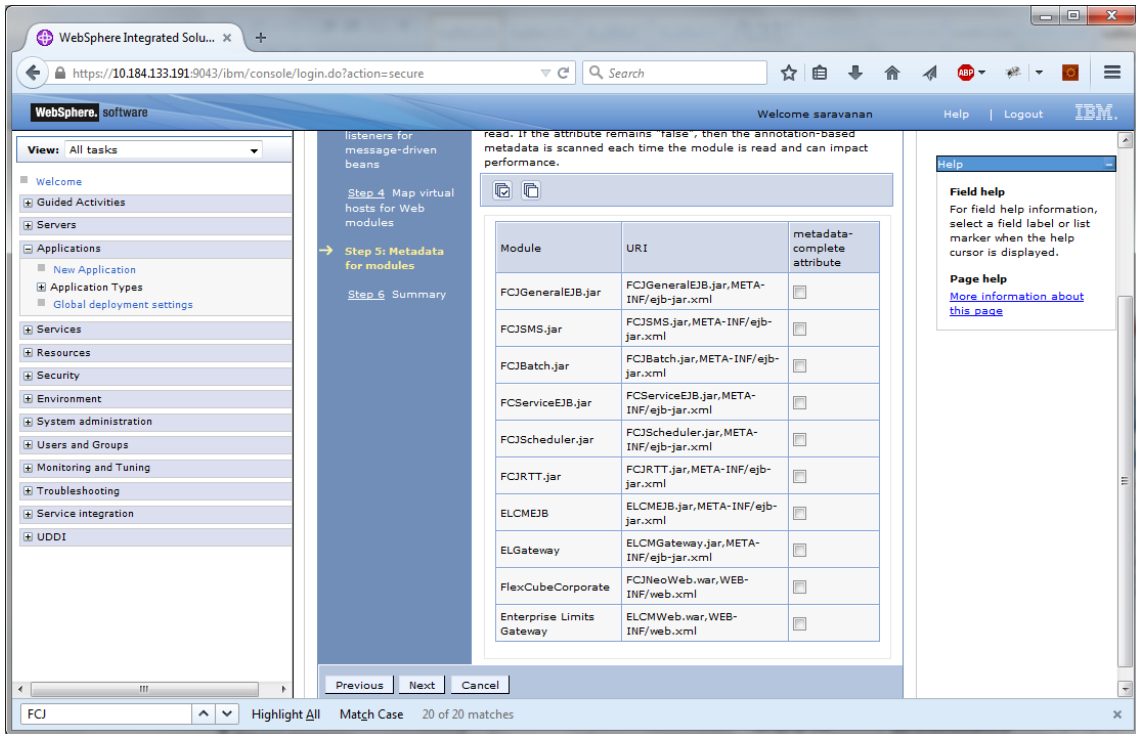


20. Click 'Next'. Following screen is displayed

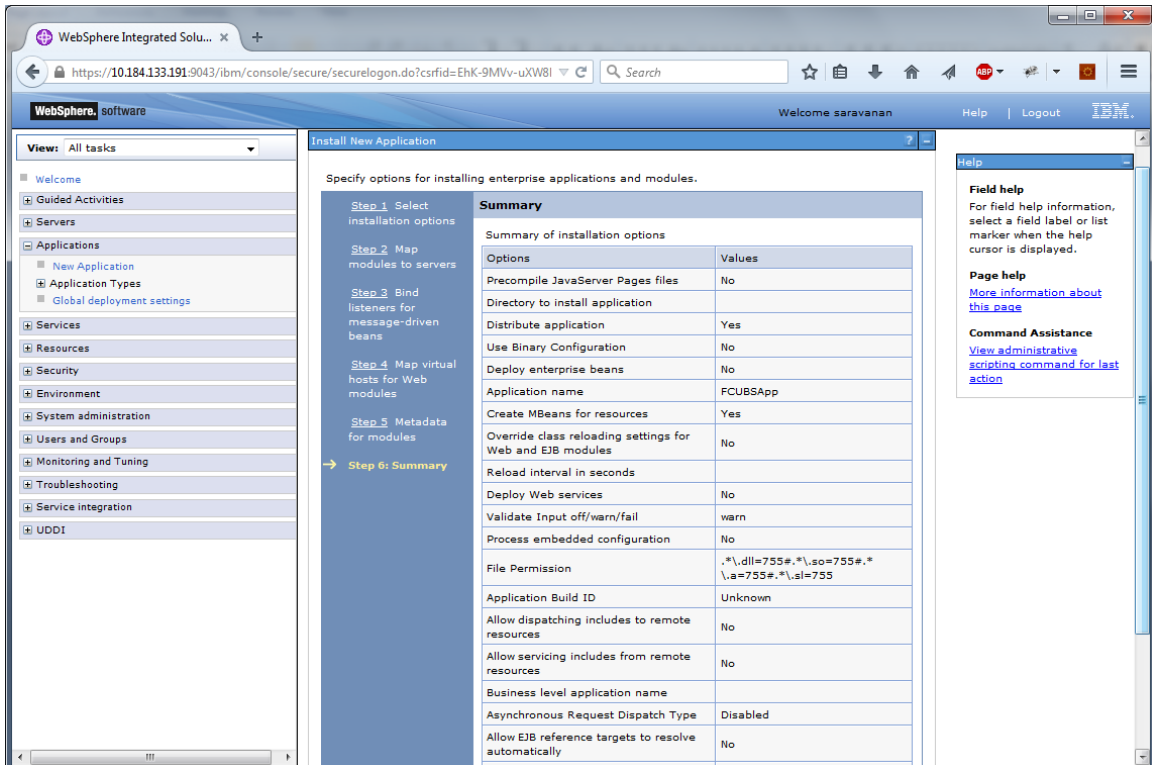


21. Click 'Next'.

The following screen is displayed.

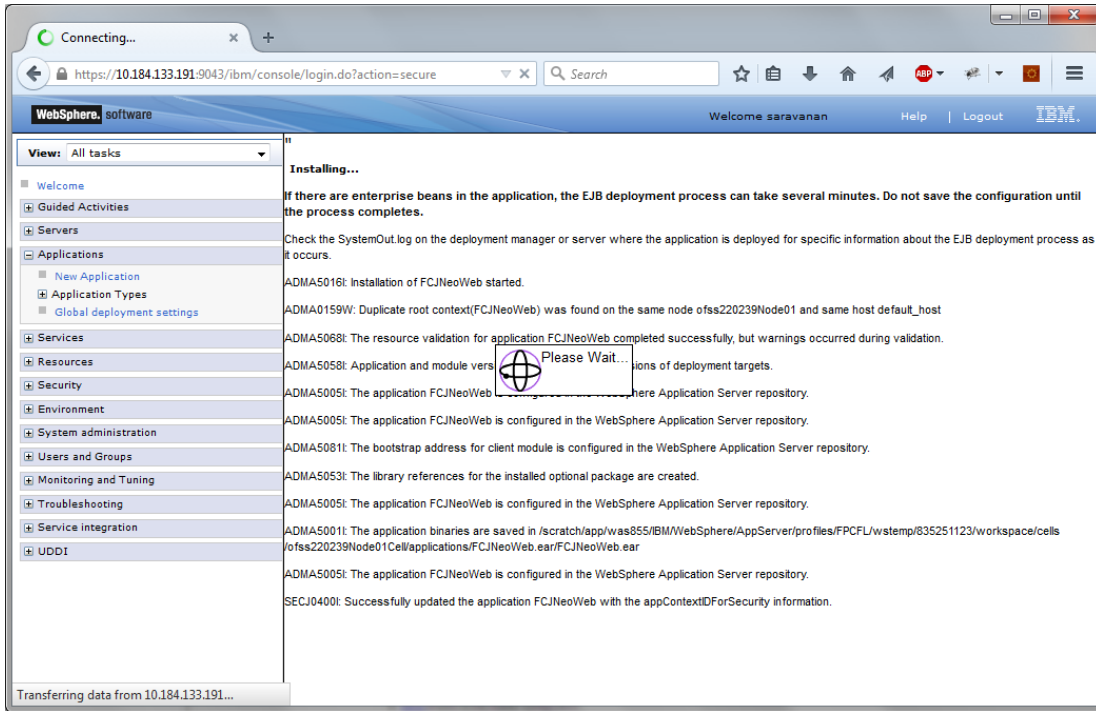


Click next.

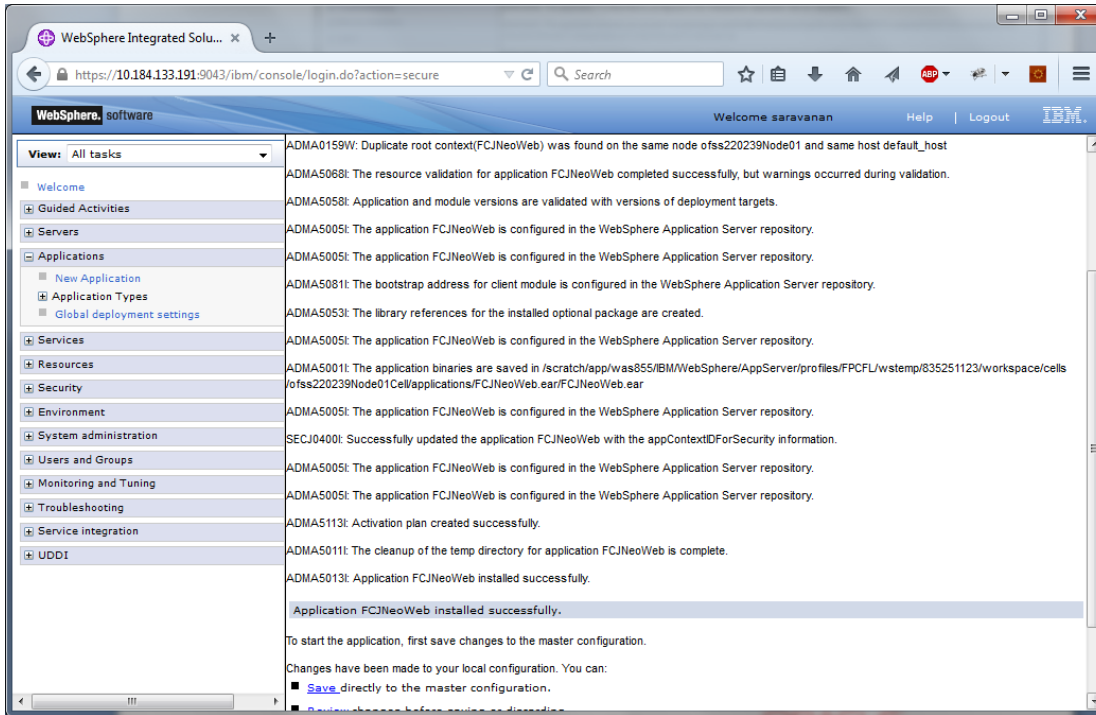


22. Click 'Finish'.

The following screen is displayed.

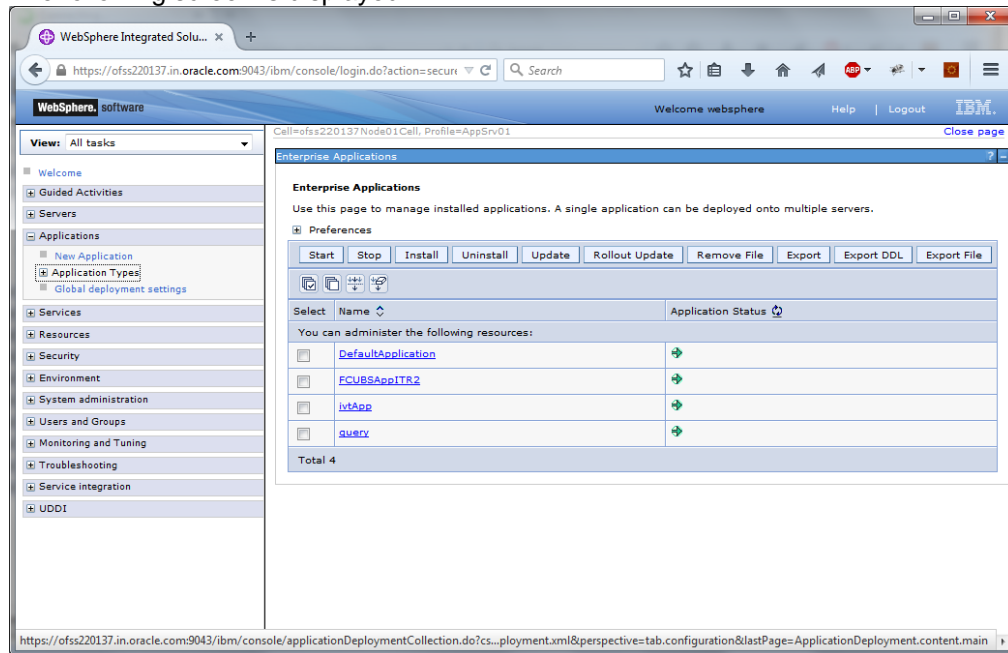


Wait for few seconds...



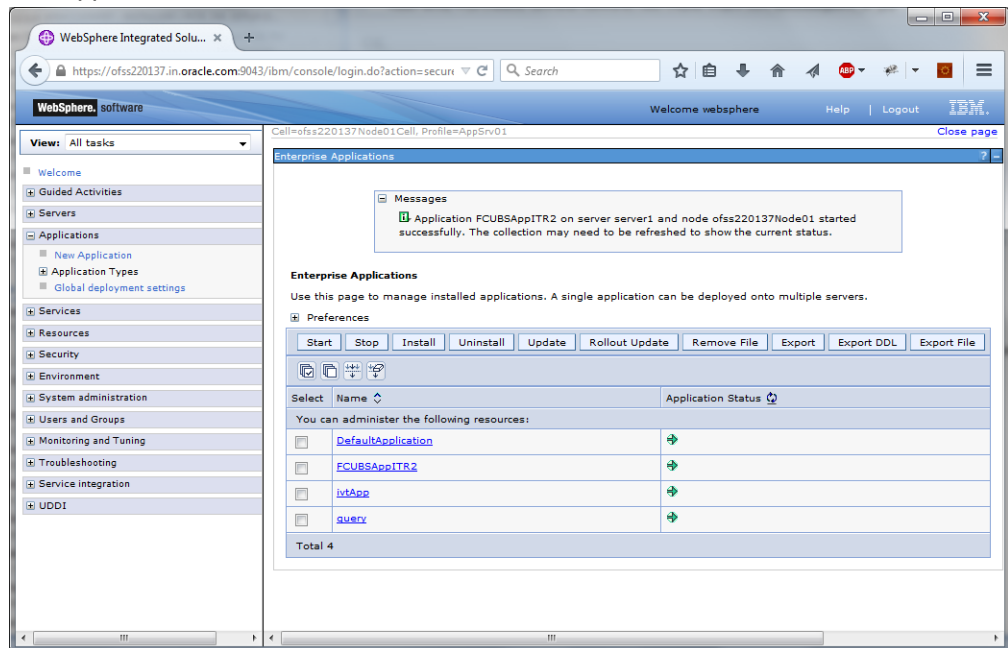
23. Click 'Save'.

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 Link the adapter (Shared Libraries ) to the Application

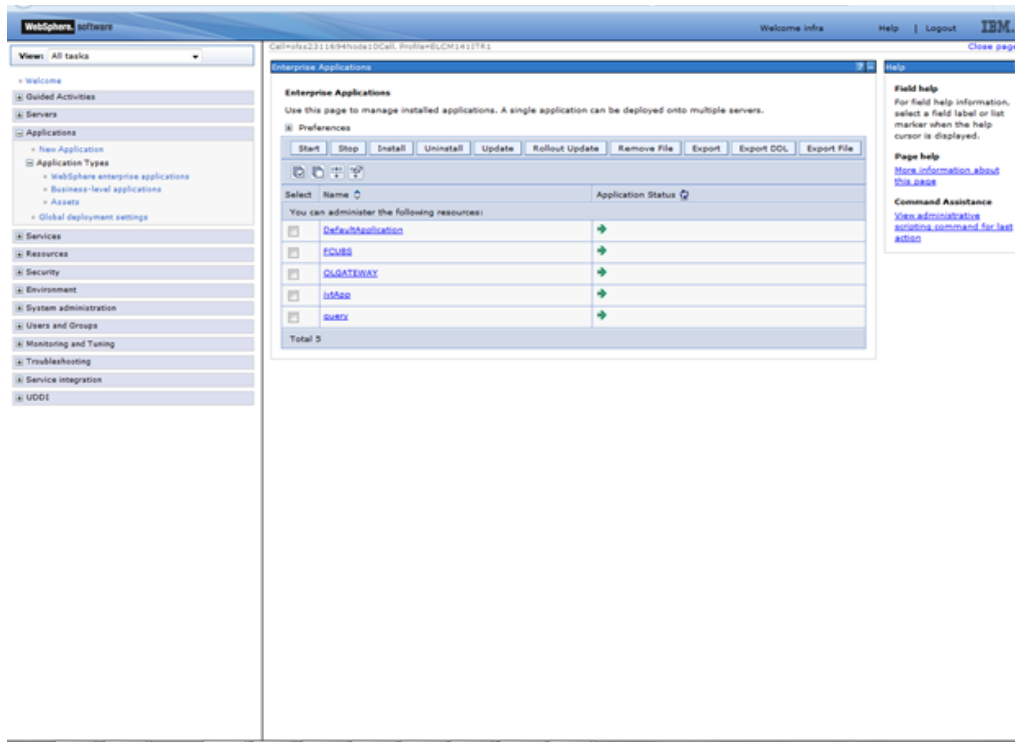
1. Open the Administrative Console of WebSphere server:
2. Open an internet browser and type the WebSphere Admin Console URL `http://{Host}:{Port}/console`.



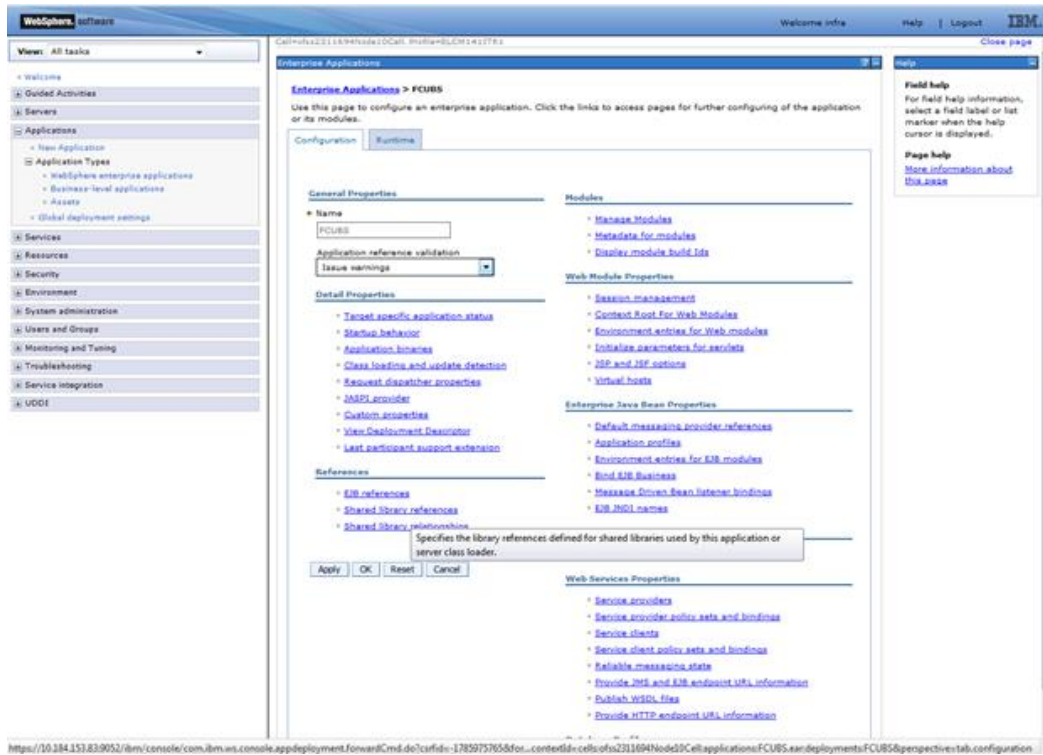
3. Eg: <https://10.10.10.10:1010/console>
4. In the above example, 10.10.10.10 is the machine IP address on which WebSphere is running

Go to Applications → Application types → WebSphere enterprise applications →

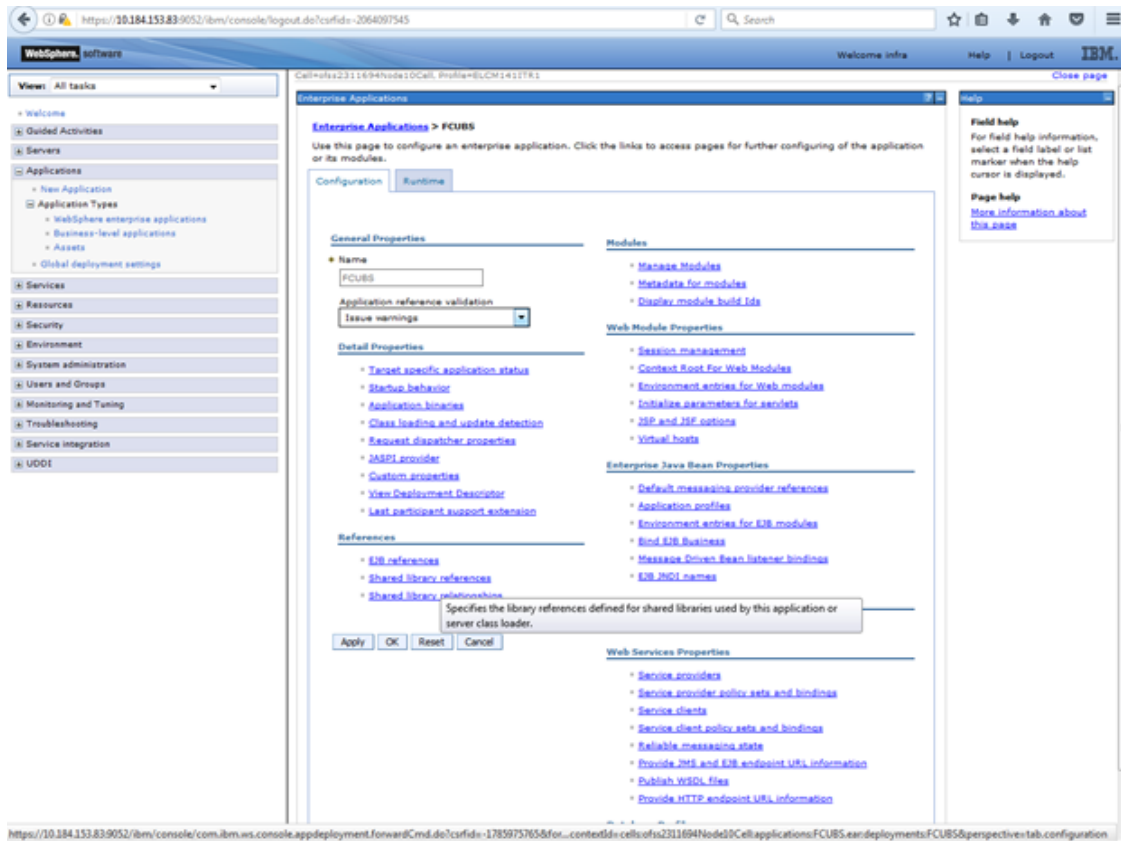
Click on the resource where the adapter to be added (here it is FCUBS)



It will open configuration page of FCUBS. Click on Reference > shared library reference



It will open the application > Shared library references page .Select the application (here FCUBS) and click on Reference shared libraries button.



The Shared Library Mapping window opens add the available library and click on OK button.

WebSphere Software Welcome info Help Logout IBM

View: All tasks Close page

- Welcome
- Guided Activities
- Servers
- Applications
  - New Application
  - Application Types
    - WebSphere enterprise applications
    - Business-level applications
    - Assets
  - Global deployment settings
- Services
- Resources
- Security
- Environment
- System administration
- Users and Groups
- Monitoring and Tuning
- Troubleshooting
- Service Integration
- UDDI

Enterprise Applications > **PCUBS**

Use this page to configure an enterprise application. Click the links to access pages for further configuring of the application or its modules.

Configuration Runtime

**General Properties**

**Name**  
PCUBS

Application reference validation  
Issue warnings

**Detail Properties**

- Target specific application status
- Startup behavior
- Application binades
- Class loading and update detection
- Request dispatcher properties
- JSP1 provider
- Custom properties
- View Deployment Descriptor
- Last participant support extension

**References**

- EJB references
- Shared library references
- Shared library relationships

**Modules**

- Module Modules
- Metadata for modules
- Deploy module build file

**Web Module Properties**

- Session management
- Context Root For Web Modules
- Environment entries for Web modules
- Initialize parameters for servlets
- JSP and JSP options
- Virtual hosts

**Enterprise Java Bean Properties**

- Default messaging provider references
- Application profiles
- Environment entries for EJB modules
- EJB EJB Business
- Message Driven Bean listener bindings
- EJB JNDI names

**Web Services Properties**

- Service providers
- Service provider policy sets and bindings
- Service clients
- Service client policy sets and bindings
- Reliable messaging state
- Provide JMS and EJB endpoint URLs information
- Publish WSDL files
- Provide HTTP endpoint URLs information

Apply OK Reset Cancel

Specifies the library references defined for shared libraries used by this application or server class loader.

**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](#)

The screenshot shows the IBM WebSphere software interface. On the left is a navigation tree with categories like 'Welcome', 'Servers', 'Applications', 'Services', 'Resources', 'Security', 'Environment', 'Naming', 'OSGI bundle repositories', 'System administration', 'Users and Groups', 'Monitoring and Tuning', 'Troubleshooting', 'Service integration', and 'UDDI'. The main window title is 'Enterprise Applications'. The breadcrumb path is 'Enterprise Applications > EEUBS > Shared Library references > Shared Library Mapping'. The text says 'Map shared libraries to an entire application or to one or more modules.' and 'Map libraries to the application or module listed'. There is a text field containing 'PCUBS'. Below it, a dialog box titled 'Select the library in the Available list. Move it to the Selected list by clicking >>.' contains two lists: 'Available:' (empty) and 'Selected:' (containing 'DBCL1=Adapter'). There are 'OK' and 'Cancel' buttons at the bottom of the dialog box. On the right side of the main window, there is a 'Help' section with 'Field help' and 'Page help' links.

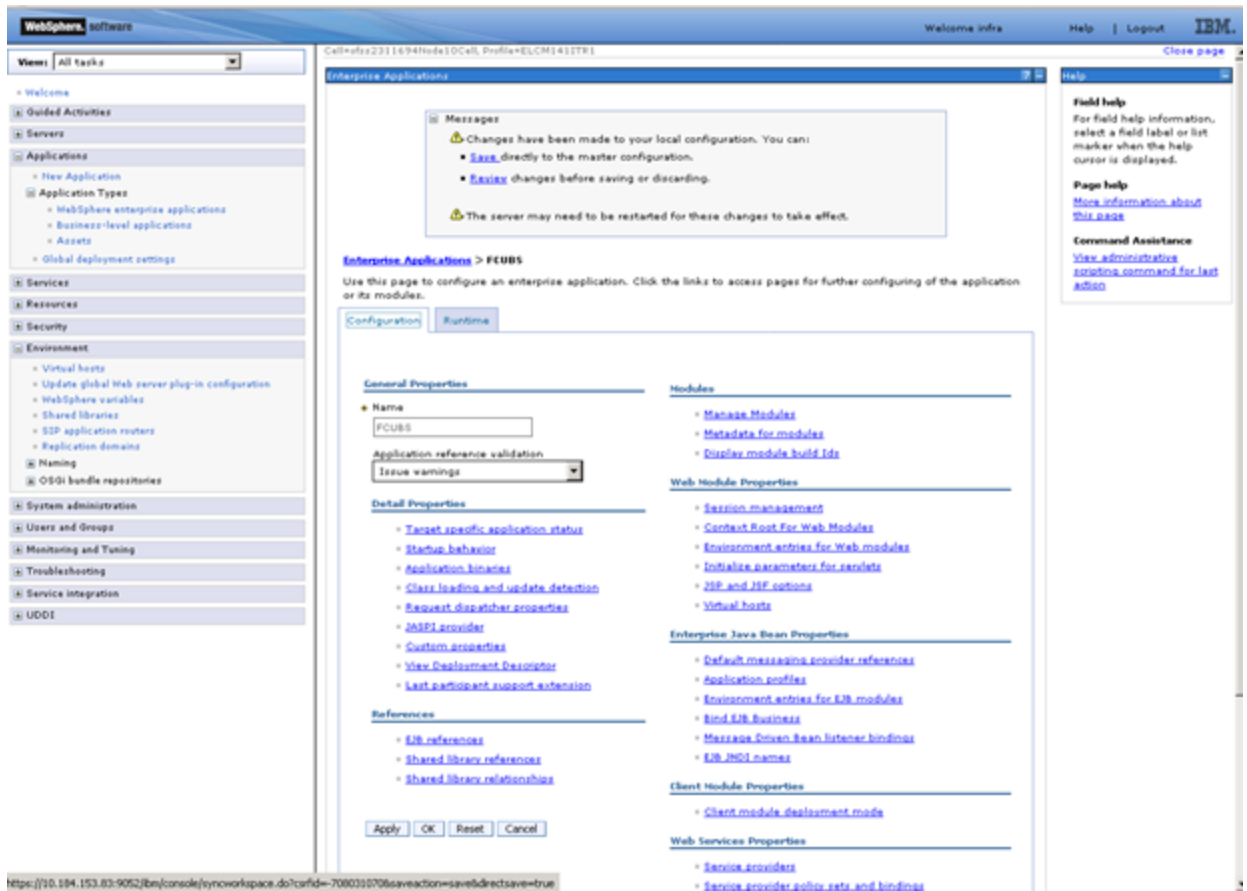
Click ok

The screenshot shows the WebSphere software administration console. The left-hand navigation pane is expanded to 'Applications' > 'Application Types' > 'Business-level applications' > 'Assets'. The main content area displays the configuration for 'Enterprise Applications > FCUBS > Shared library references'. The page title is 'Shared Library Mapping for Modules'. Below the title, there is a text instruction: 'Specify shared libraries that the application or individual modules reference. These libraries must be defined in the configuration at the appropriate scope.' A button labeled 'Reference shared libraries' is present. Below this is a table with three columns: 'Selected: Application', 'URI', and 'Shared Libraries'. The table contains four rows of data:

Selected: Application	URI	Shared Libraries
<input type="checkbox"/> FCUBS	META-INF/application.xml	OB-CLV-Adapter
Selected: Module	URI	Shared Libraries
<input type="checkbox"/> FlexCubeCorporate	FCNeoWeb.var,WEB-INF/web.xml	
<input type="checkbox"/> Enterprise Limits Gateway	ELCMWeb.var,WEB-INF/web.xml	
<input type="checkbox"/> Security Management Gateway	SMWeb.var,WEB-INF/web.xml	

At the bottom of the configuration area, there are 'OK' and 'Cancel' buttons. On the right side of the console, there is a 'Help' pane with 'Field help' and 'Page help' sections.

Click save and restart the Application server .



## 1.2.4 FCUBS Scheduler Application Deployment

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

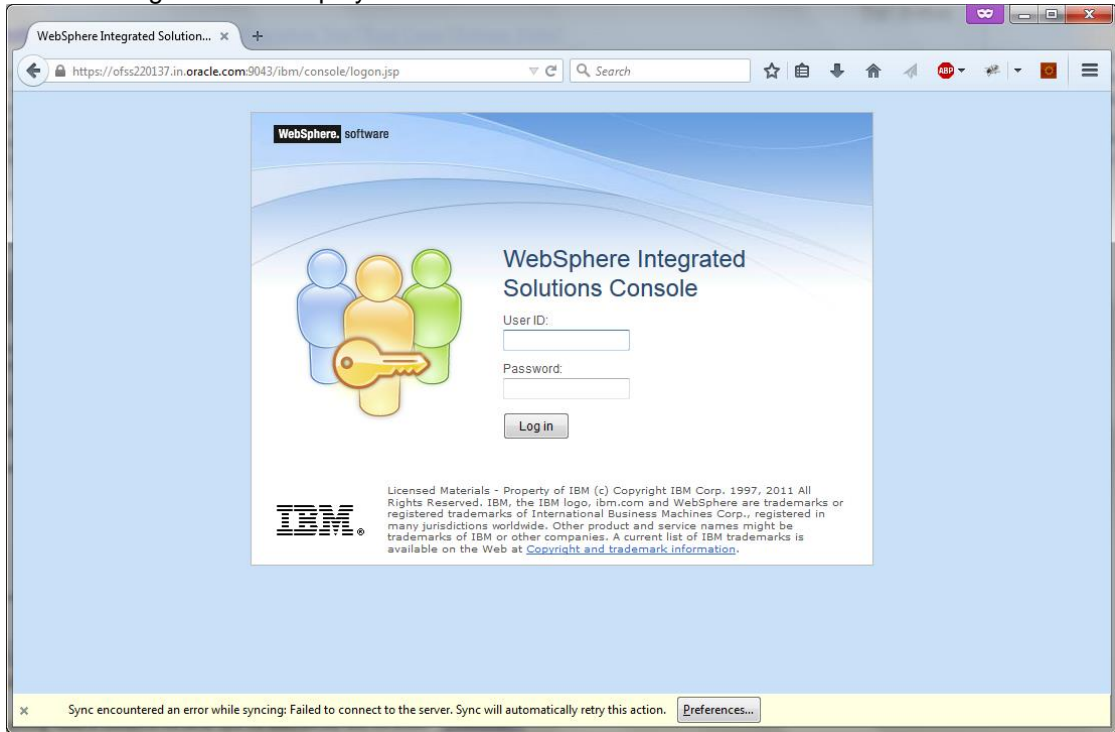
1. Open the Administrative Console of WebSphere server:

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

Eg: <https://10.10.10.10:1010/console>

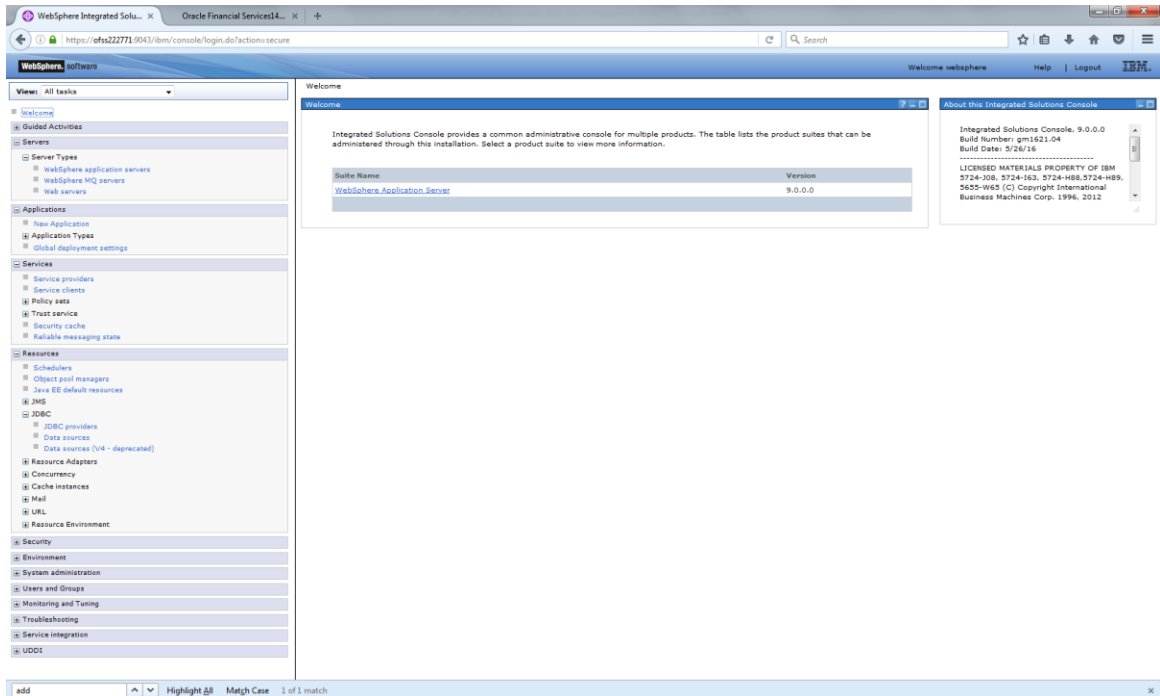
In the above example, 10.10.10.10 is the machine IP address on which WebSphere is running.

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.

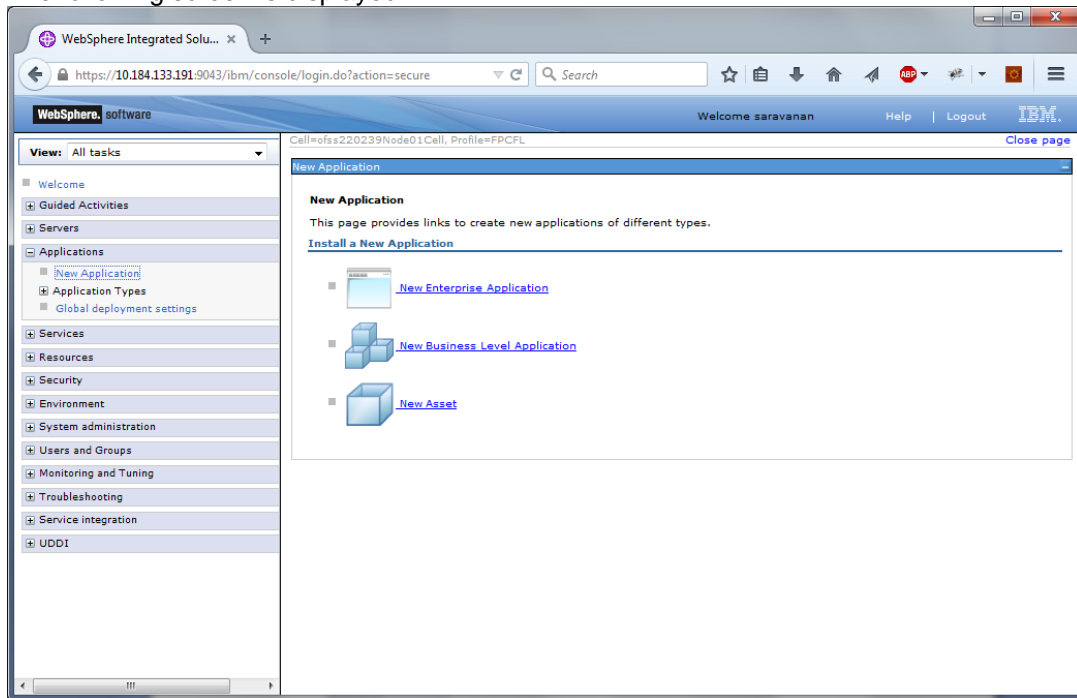
The following screen is displayed.



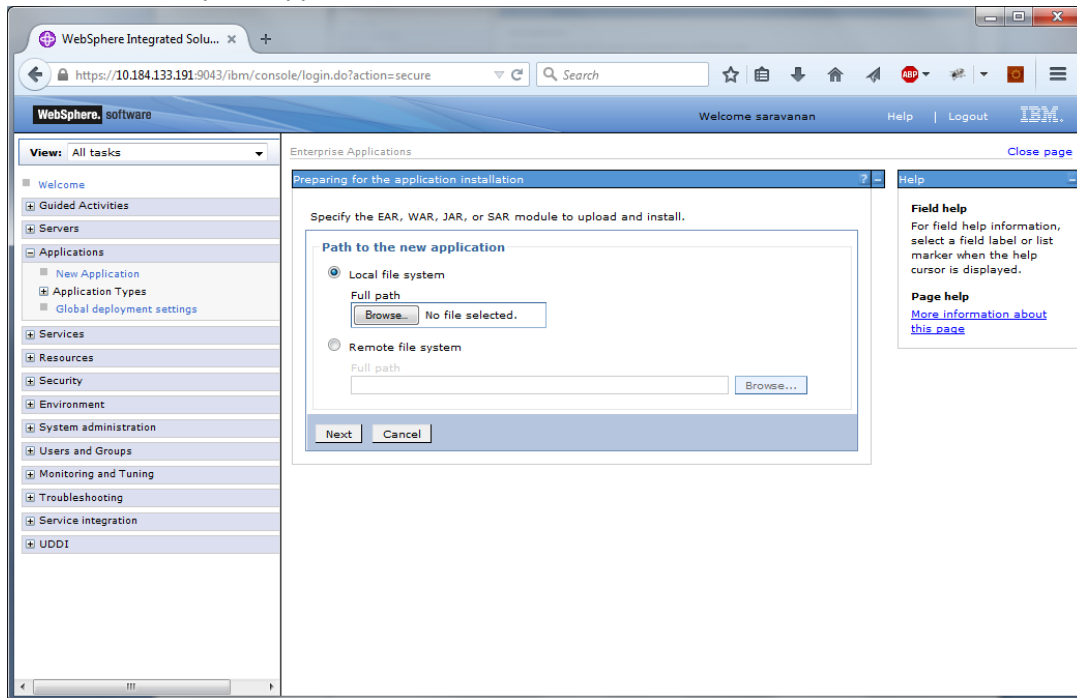
4. Expand Applications from left-side menu and Click 'New Application'.



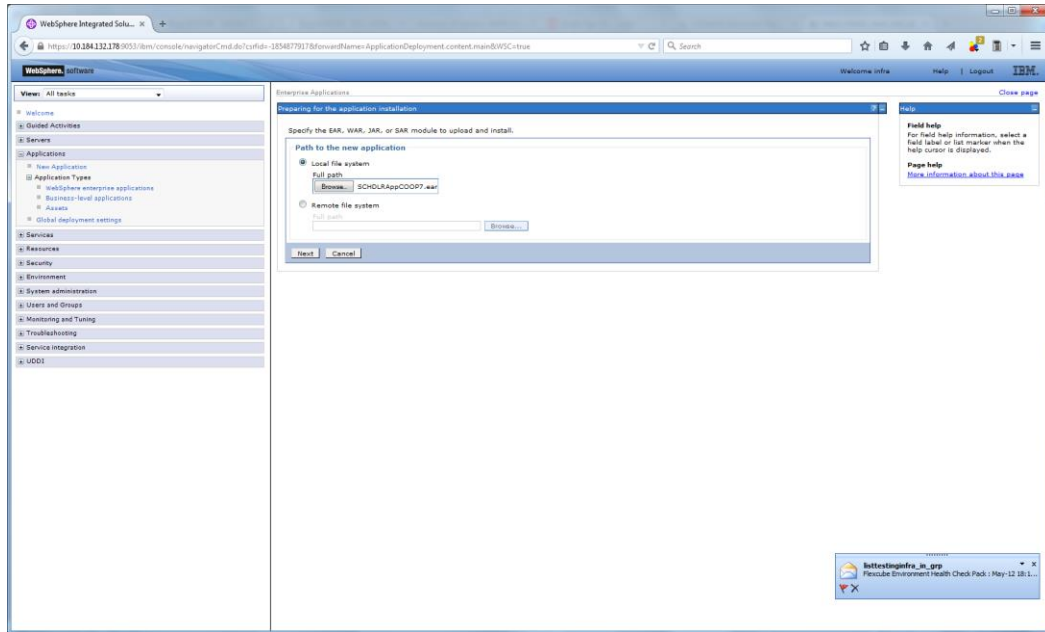
The following screen is displayed.



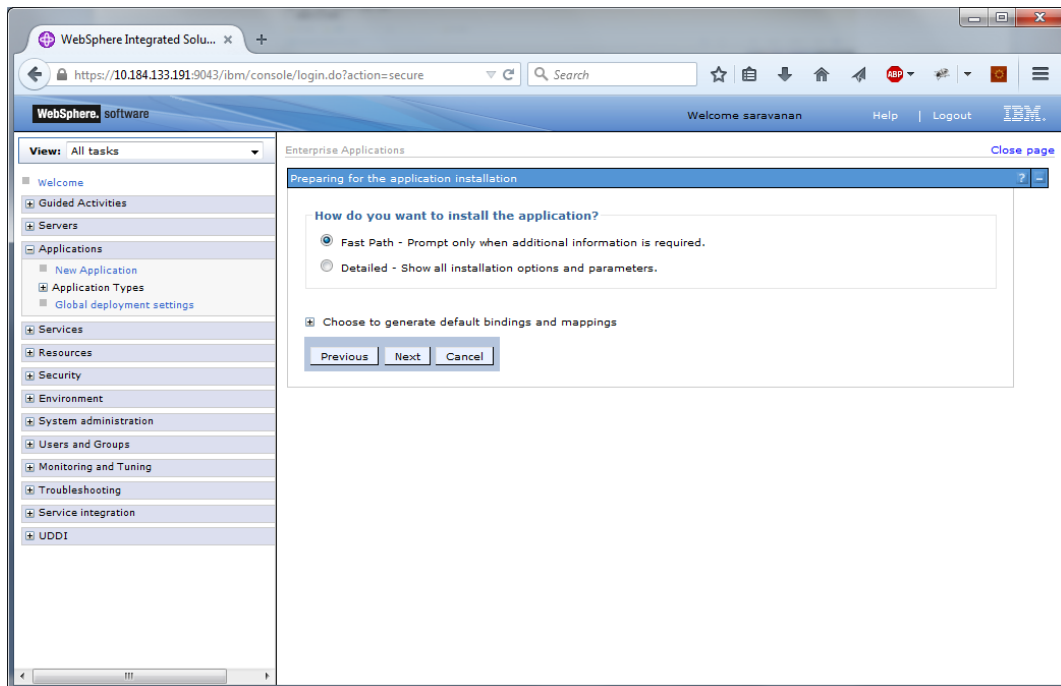
5. Click 'New Enterprise Application'.



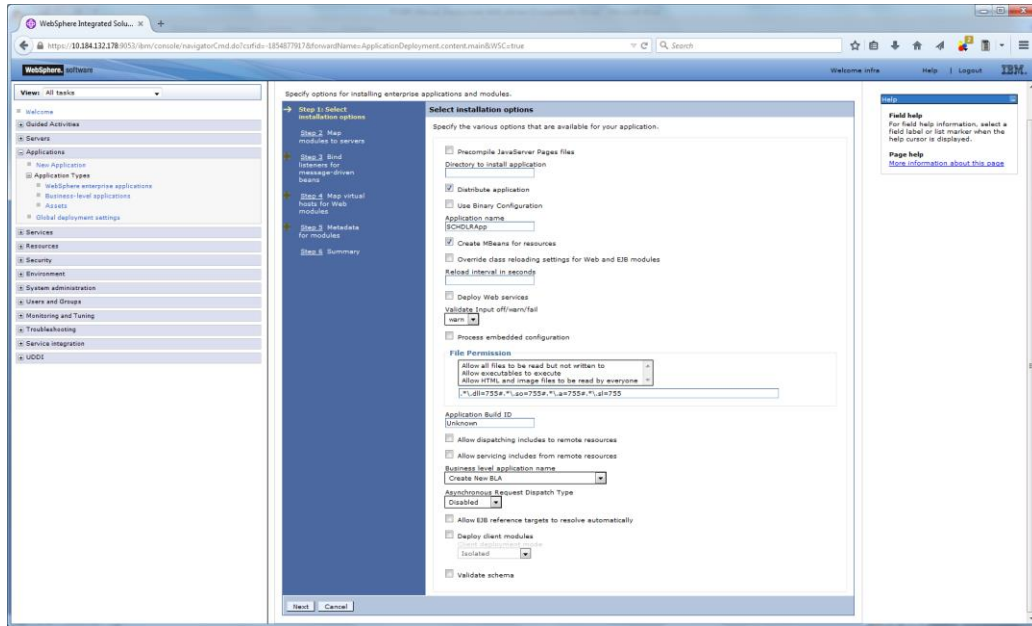
6. Browse the application EAR file and click next button



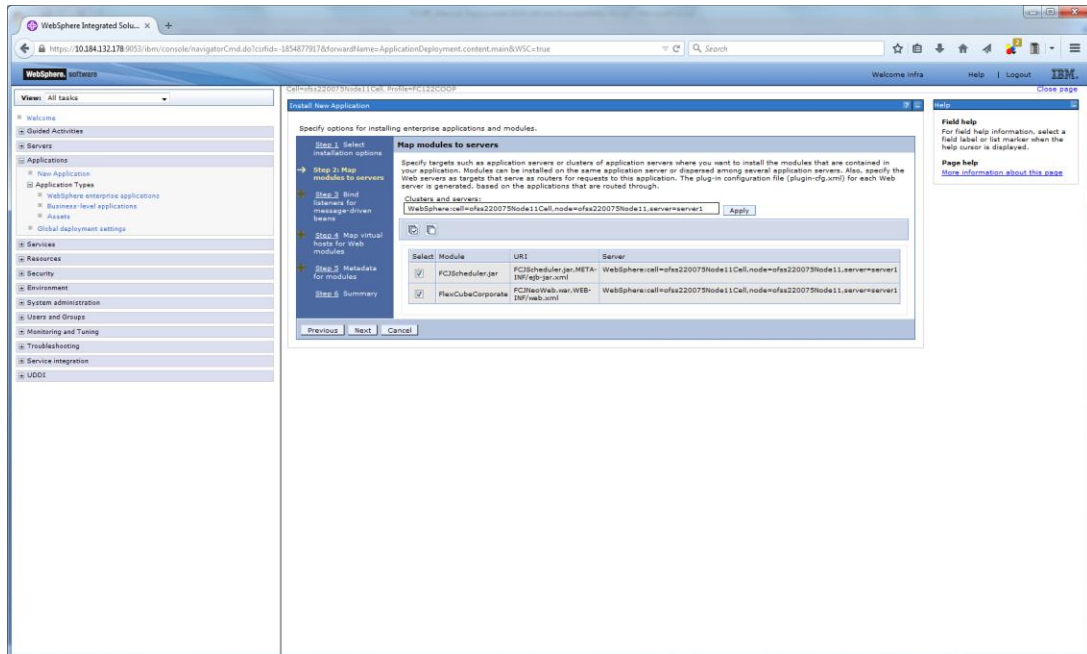
The following screen is displayed.



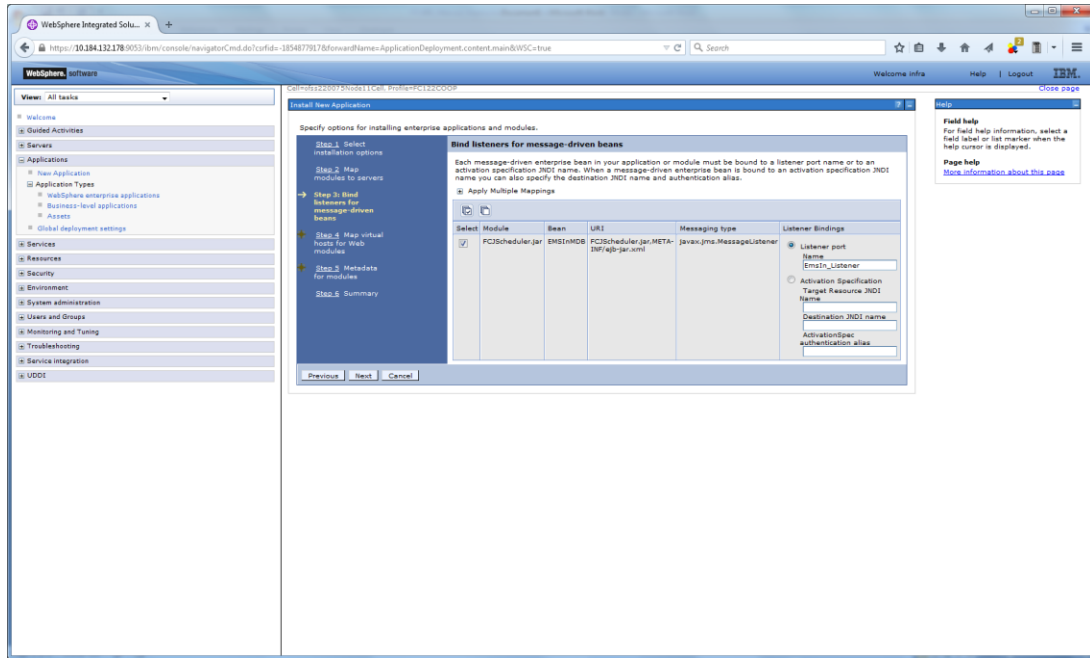
7. Click 'Next'. The following screen is displayed.



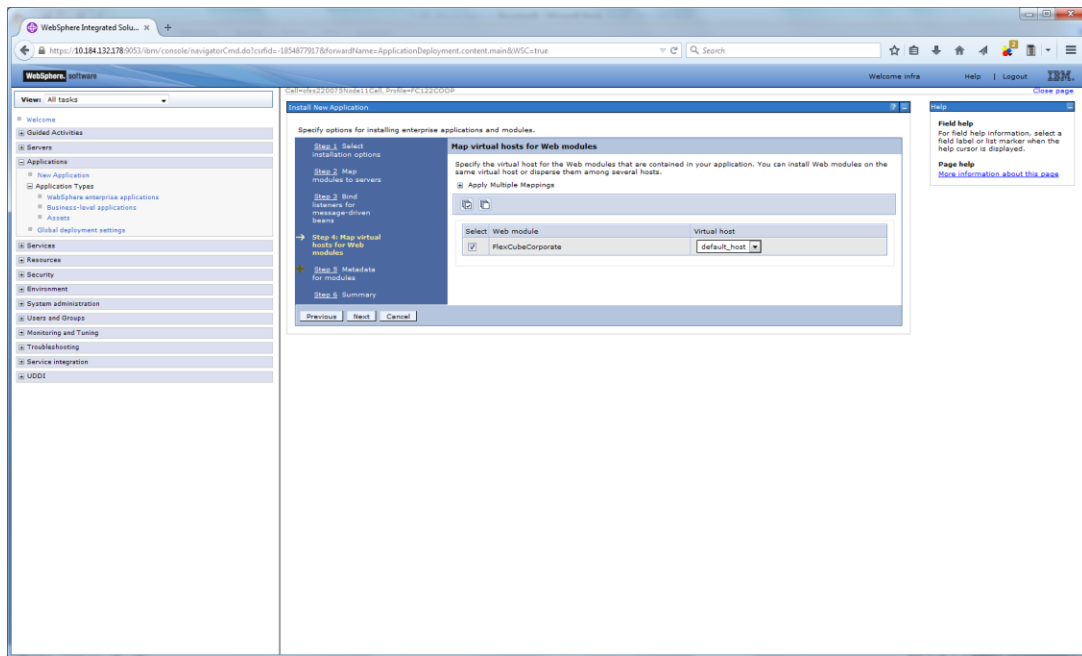
8. Enter the Application Name. This should be the application name mentioned as part of EAR building.



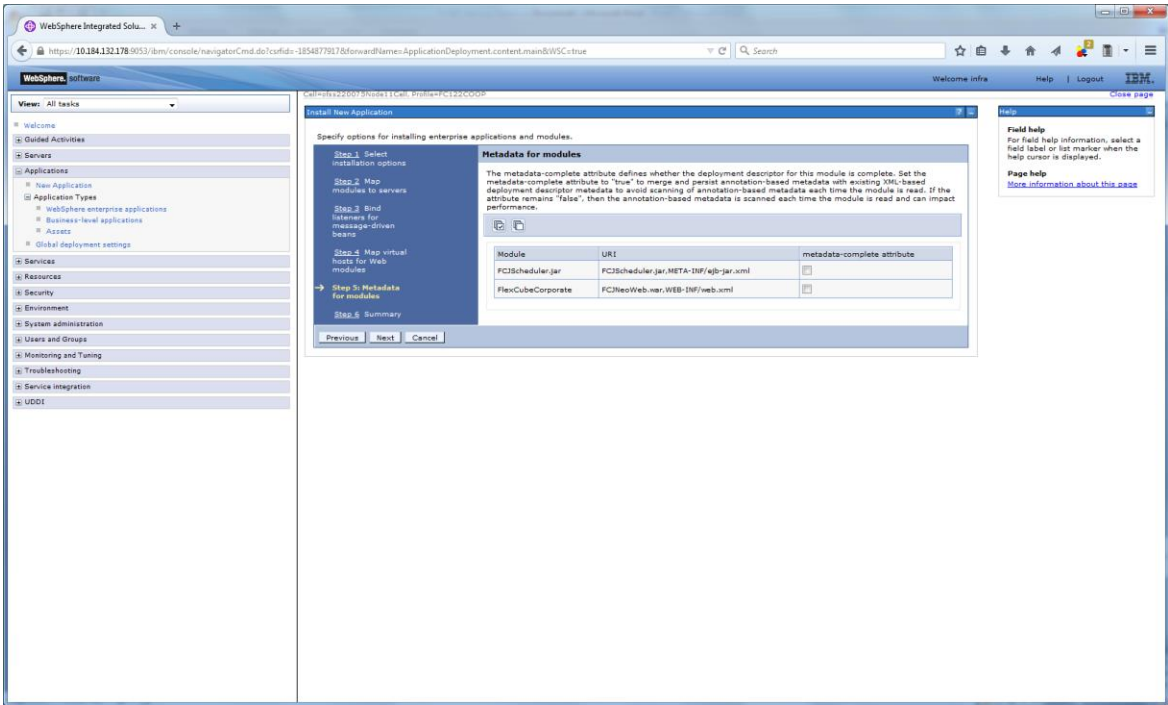
9. Check all the options. Click 'Next'. The following screen is displayed.



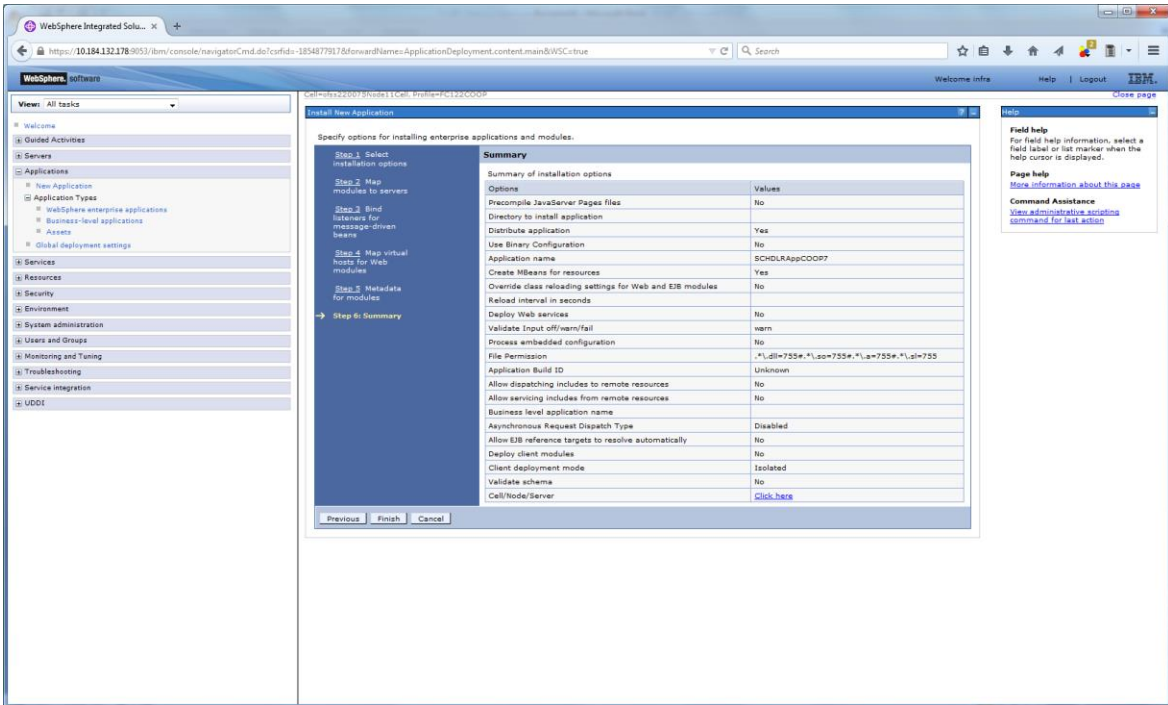
10. Specify the details as shown in the figure.



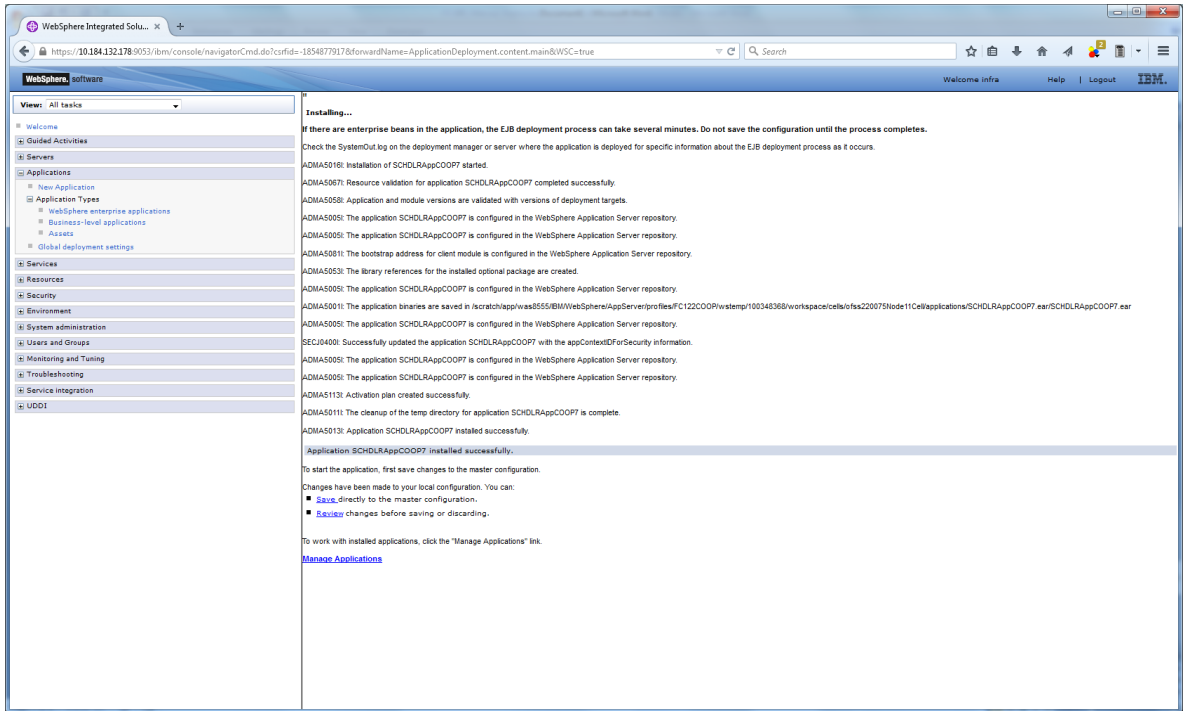
11. Click 'Next'. The following screen is displayed.



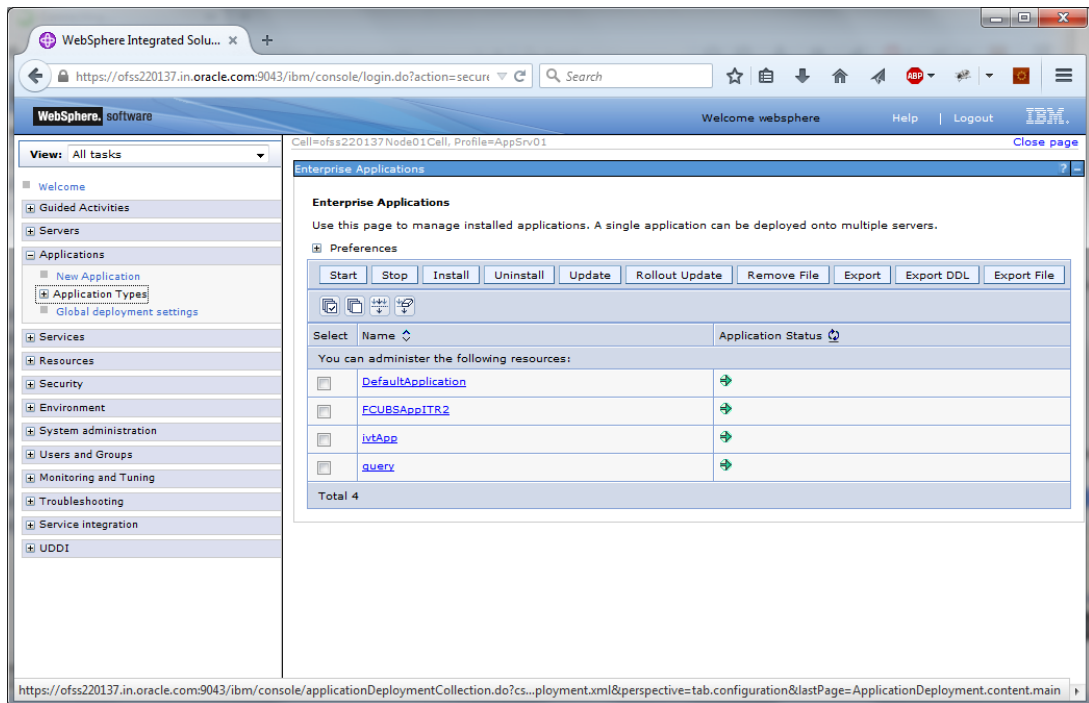
12. Click 'Next'. The following screen is displayed.



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

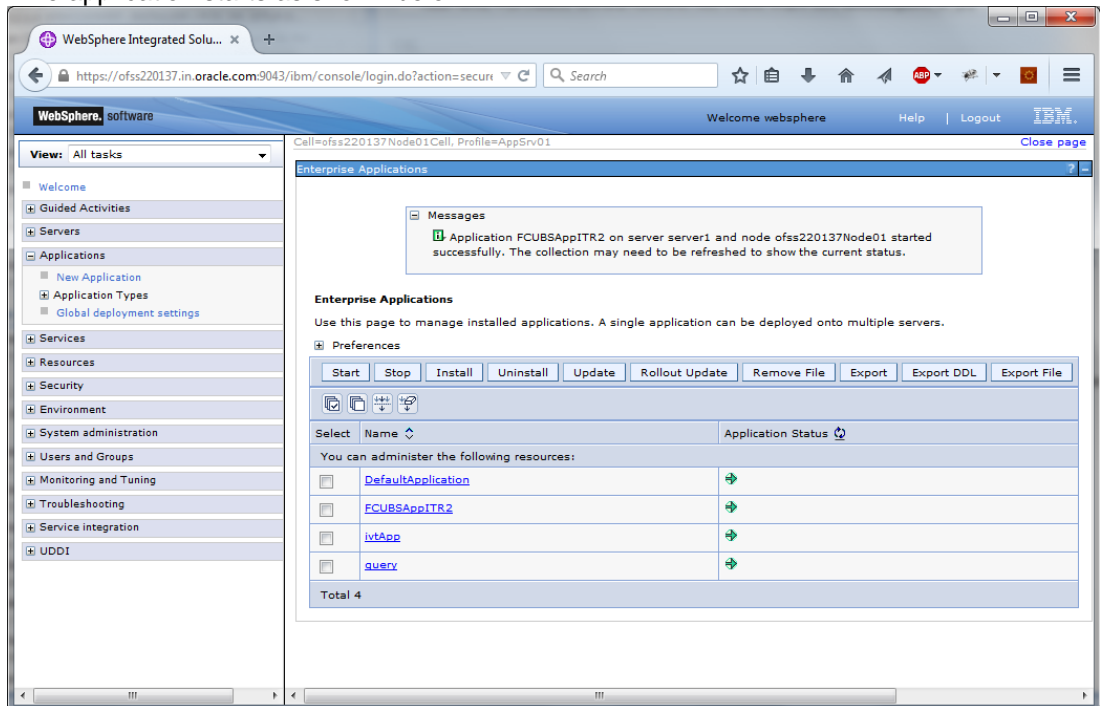


Click 'Save'. The following screen is displayed.



14. Select the application and click 'Start'.

The application starts as shown below:



## 1.2.5 FCUBS GWEJB Application Deployment

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

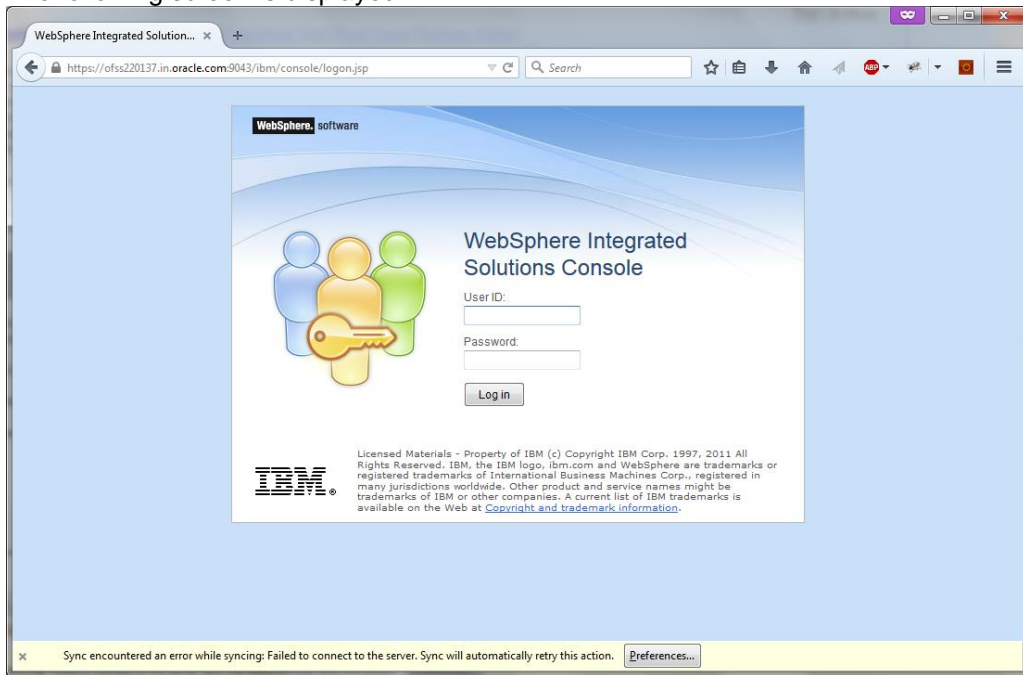
1. Open the Administrative Console of WebSphere server:

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.

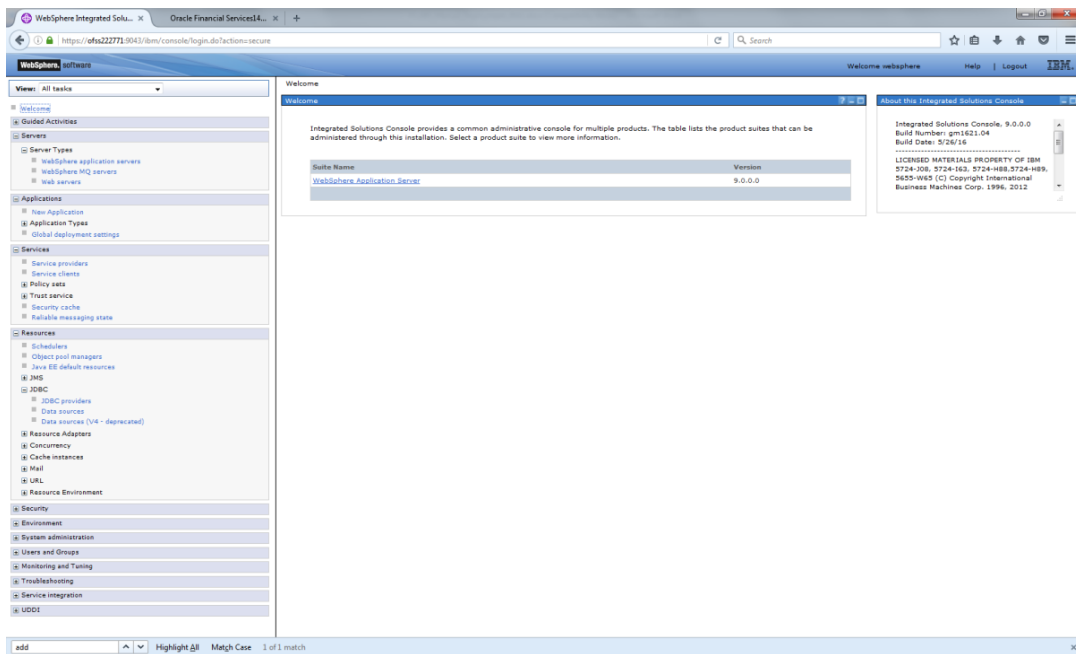
The following screen is displayed:



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.

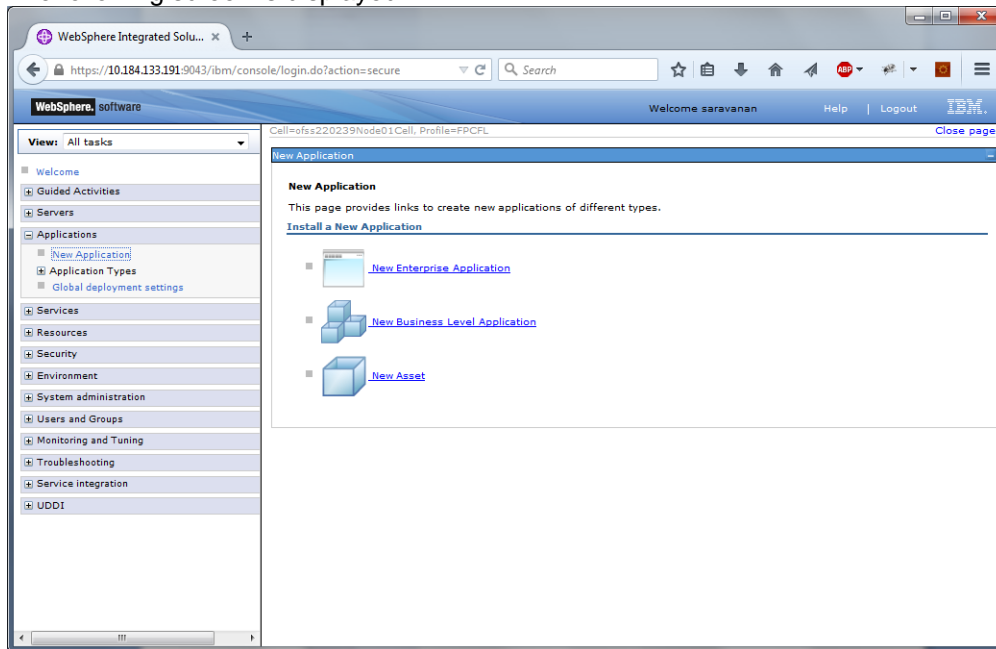
The following screen is displayed.



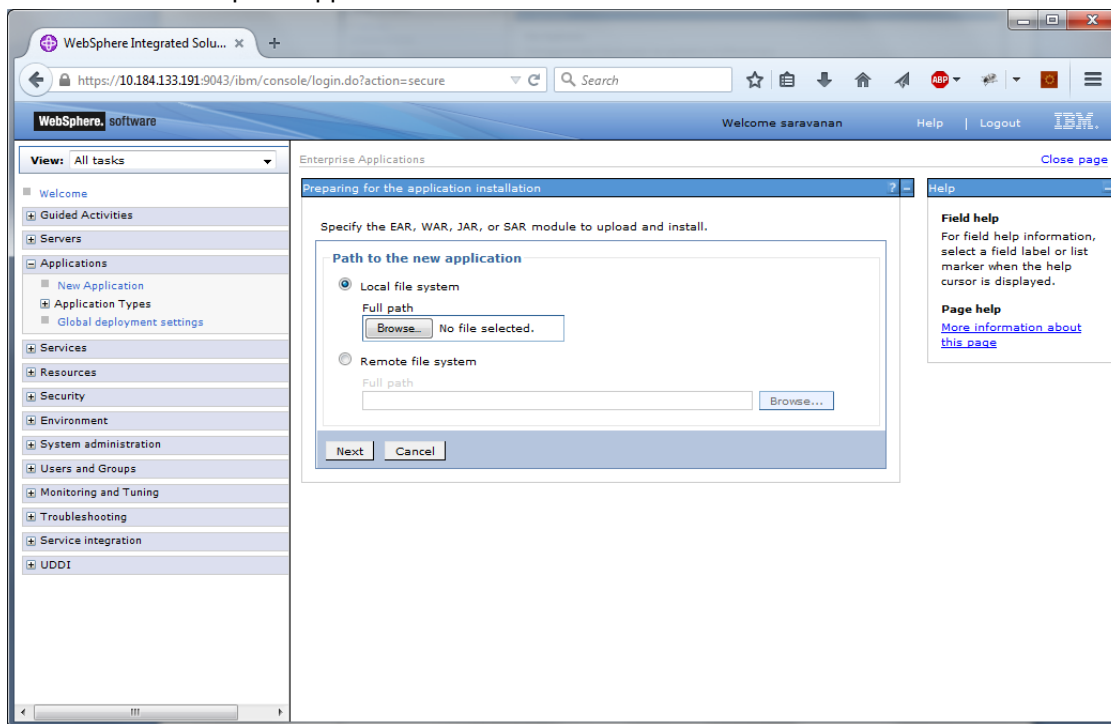
4. Expand Applications from left-side menu and Click 'New Application'.



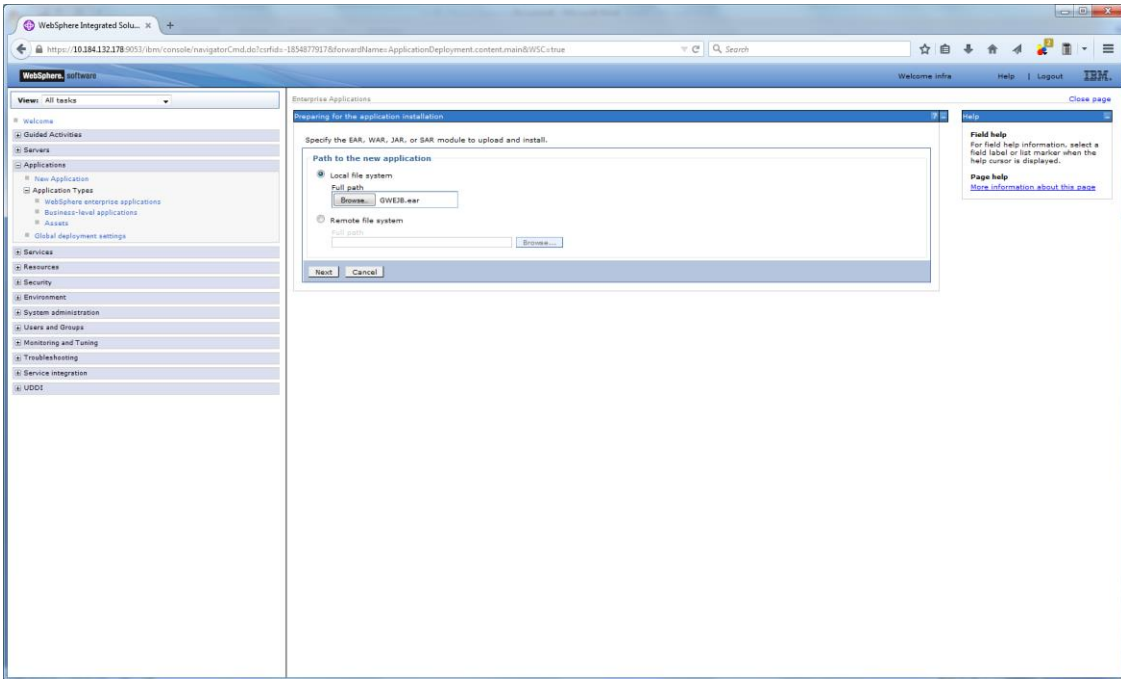
The following screen is displayed.



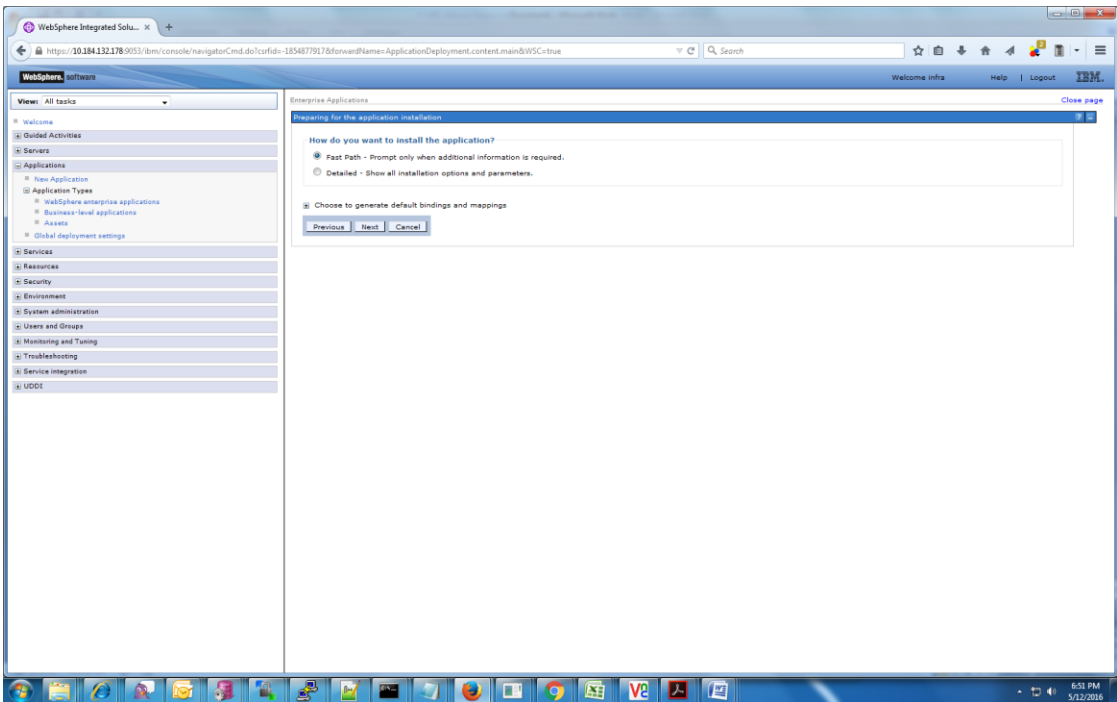
5. Click 'New Enterprise Application'.



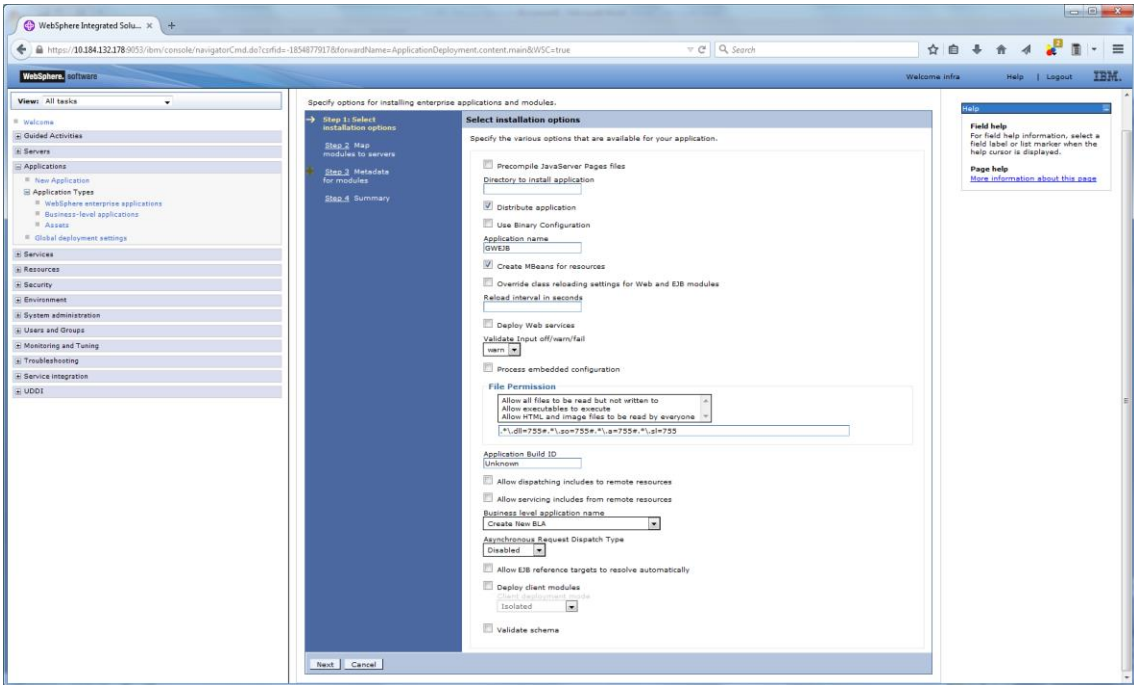
6. Browse the application EAR file and click next button



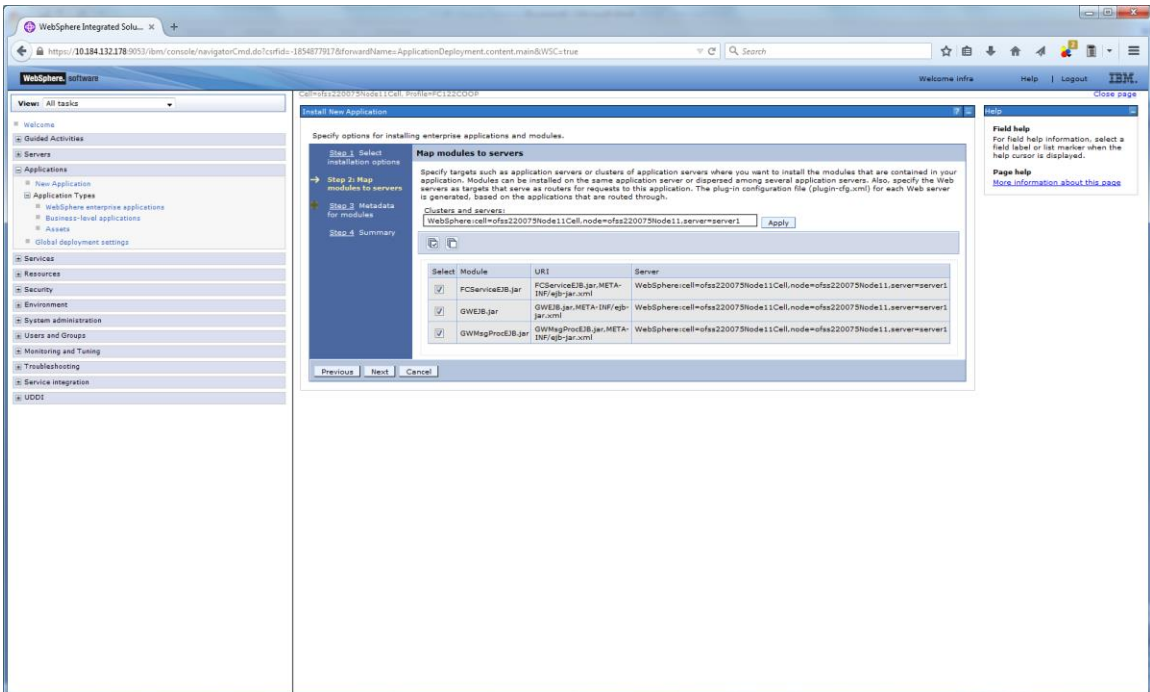
7. Click Next and the following screen is displayed.



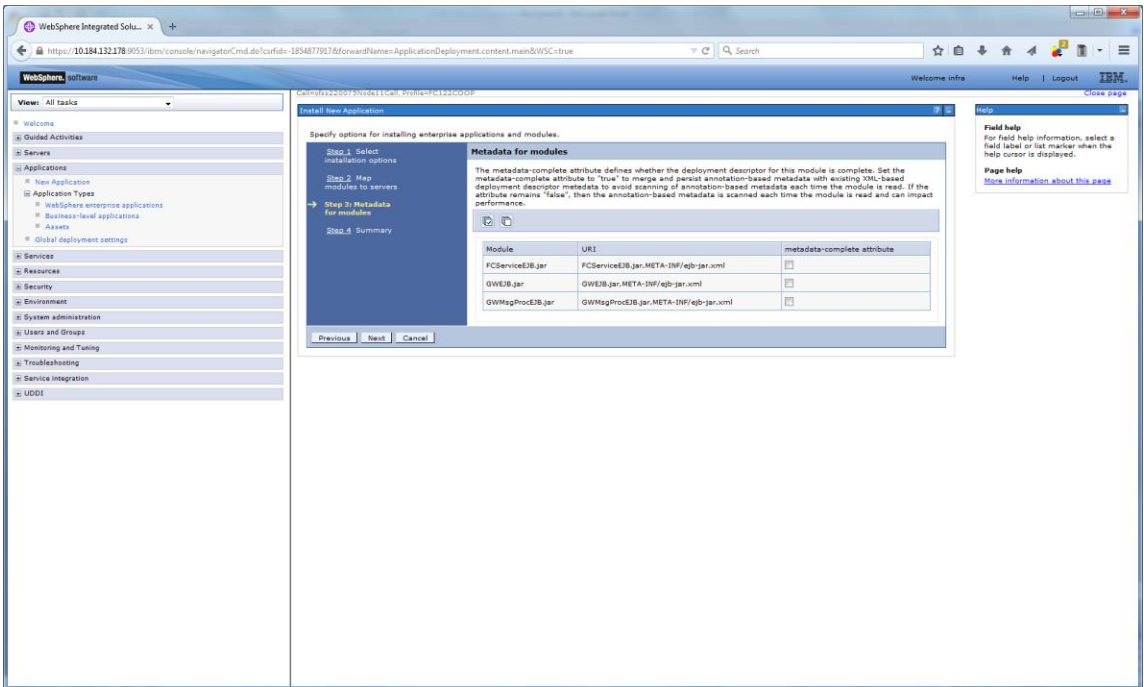
8. Click next and the following screen is displayed.



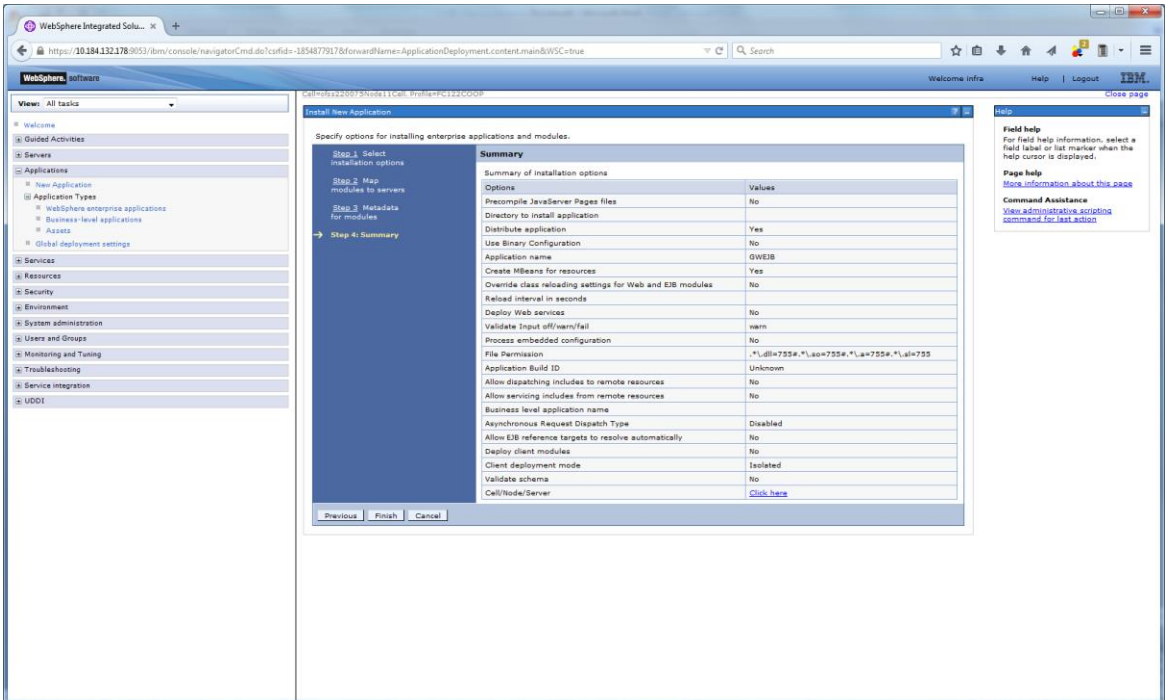
9. Click next and the following screen is displayed.



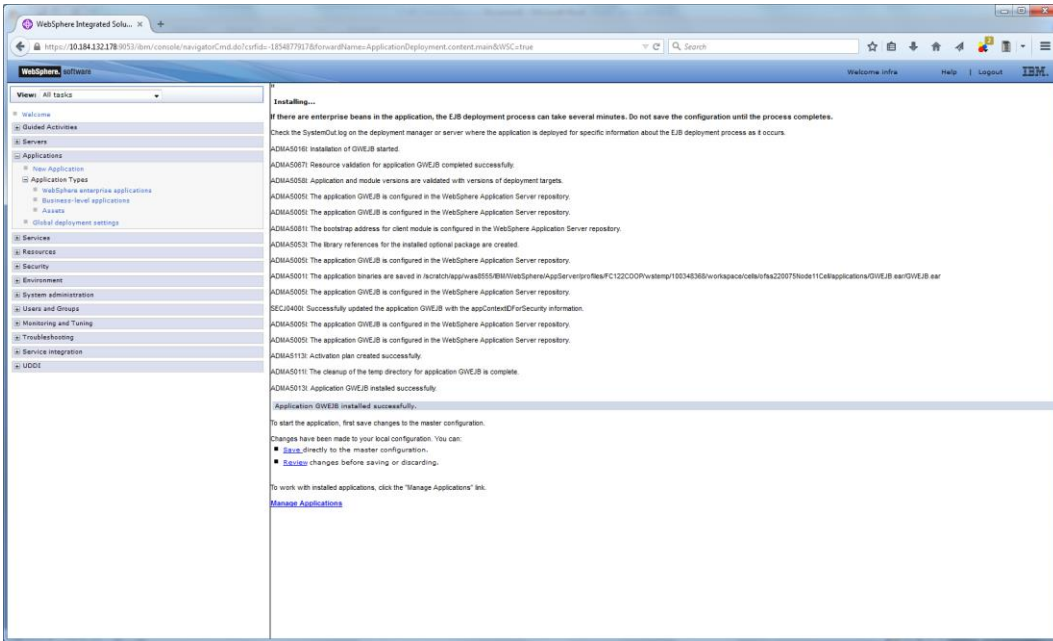
10. click next and the following Screen is displayed.



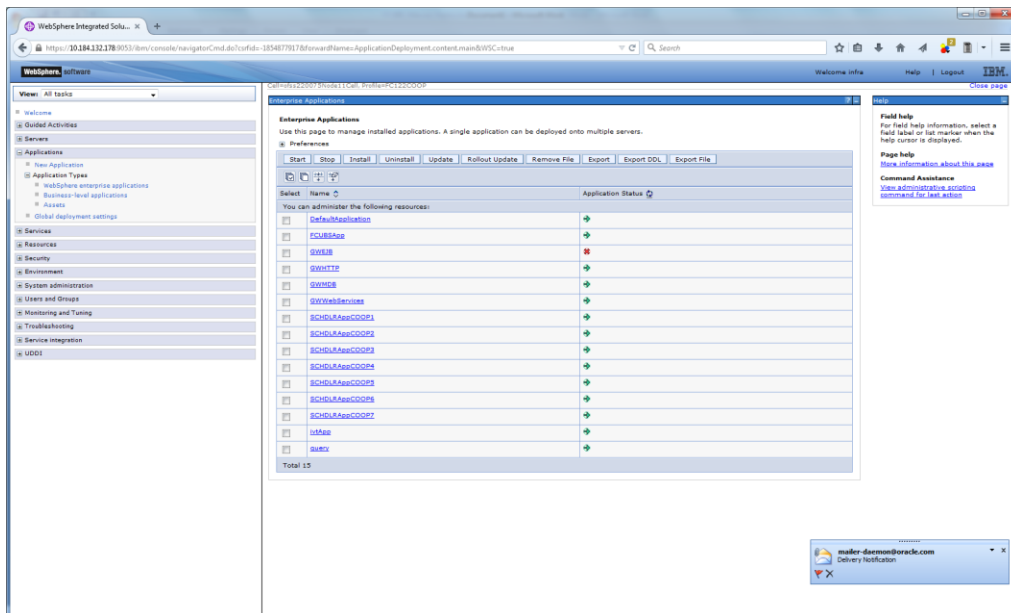
11. Click next and the following screen is displayed.



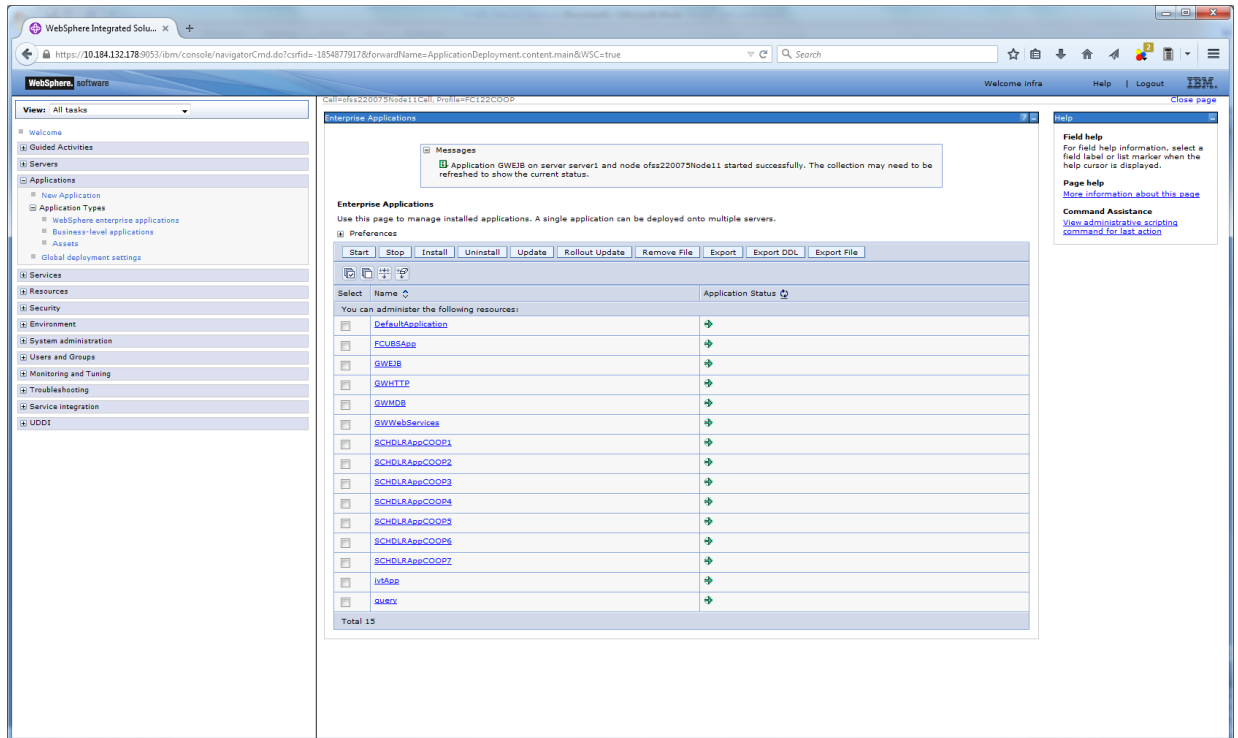
12. Click on finish and the following screen is displayed.



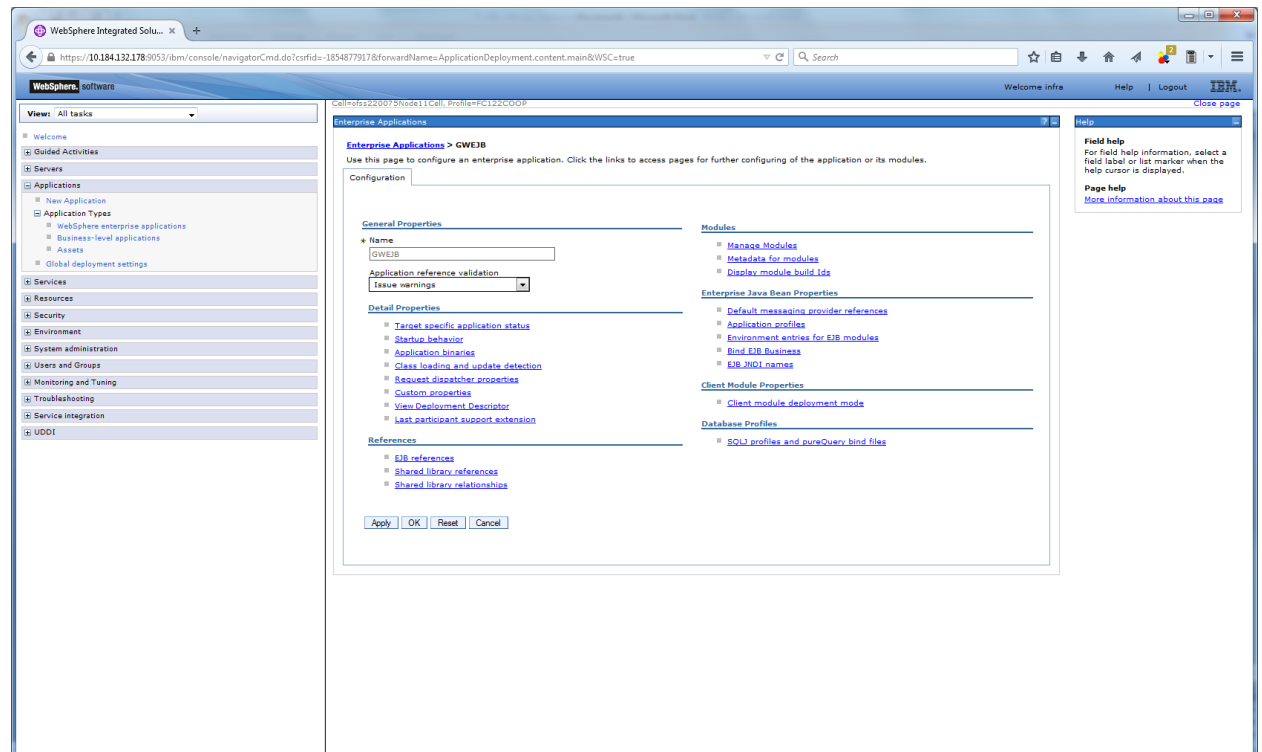
13. Click on save and the following screen is displayed.



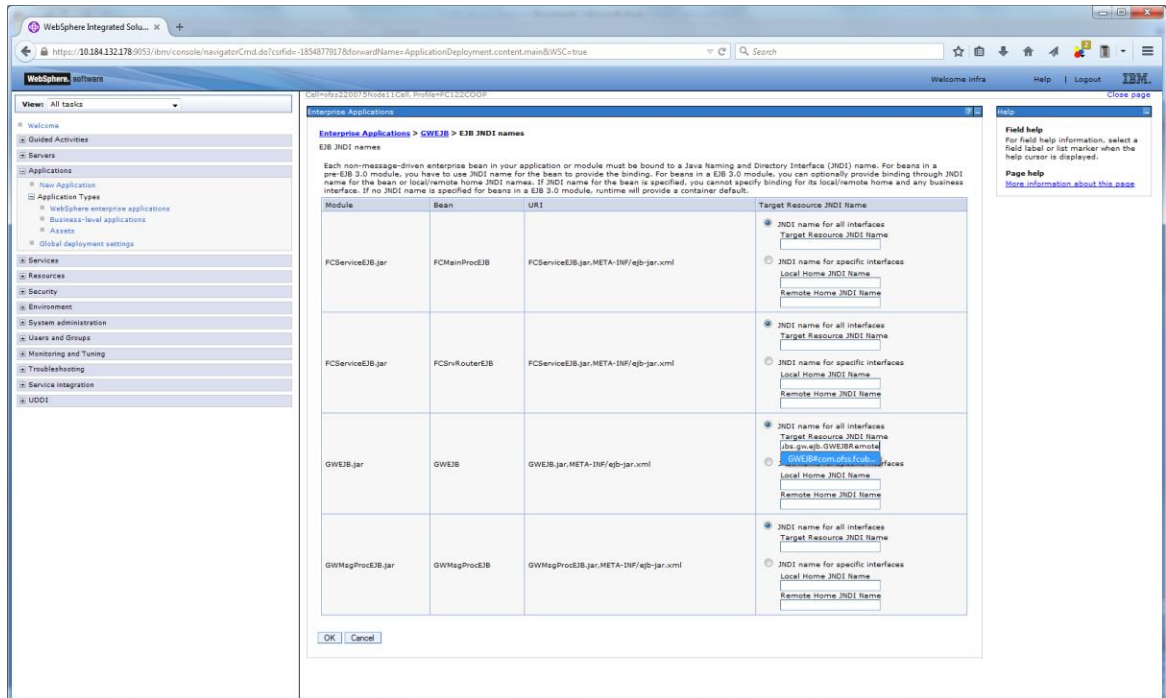
15. Select the deployed application and click on start



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

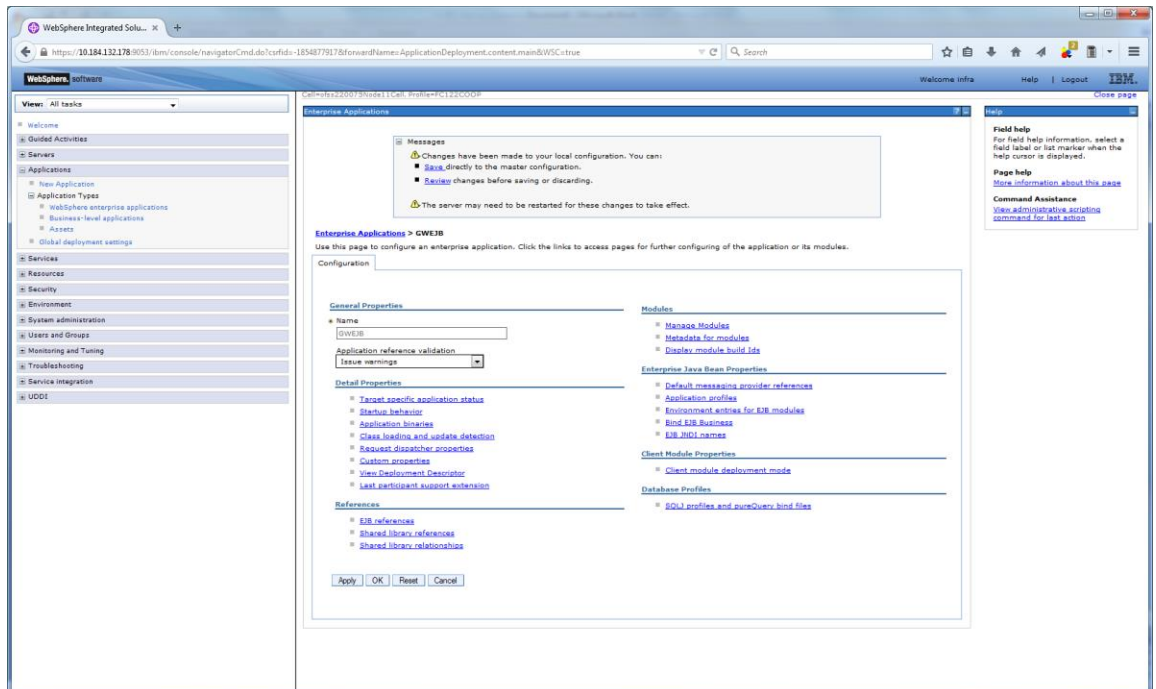


17. Click on EJB JNDI names and the following screen is displayed.



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.

## 1.2.6 FCUBS GWMDB Application Deployment

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

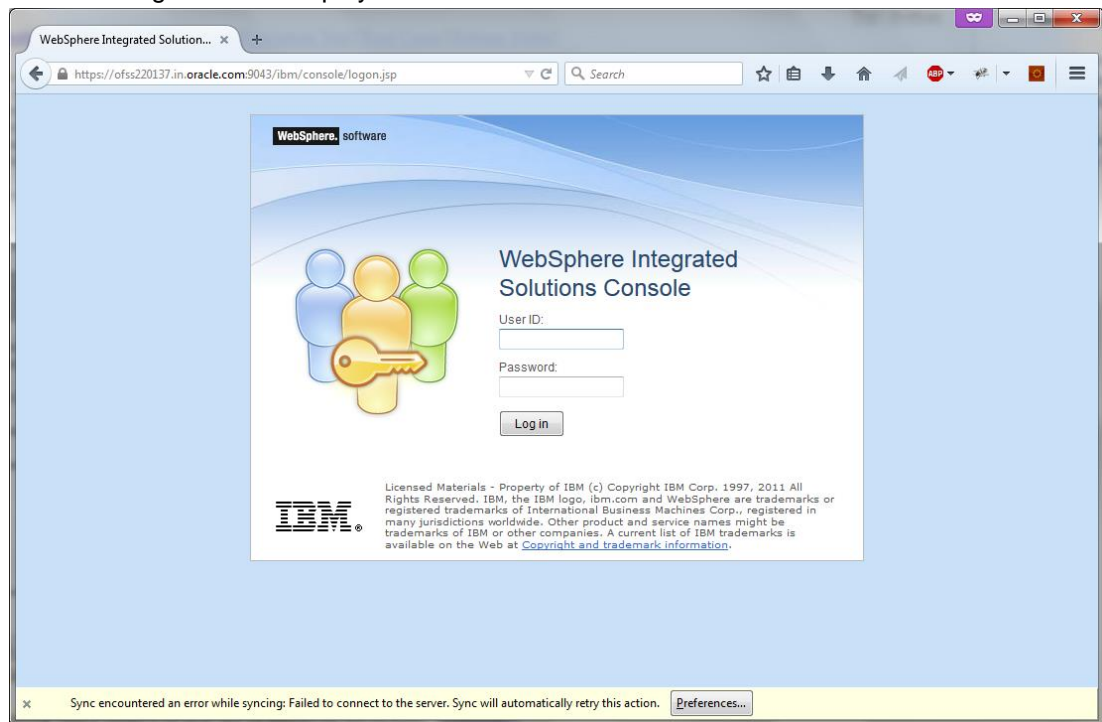
1. Open the Administrative Console of WebSphere server:

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.

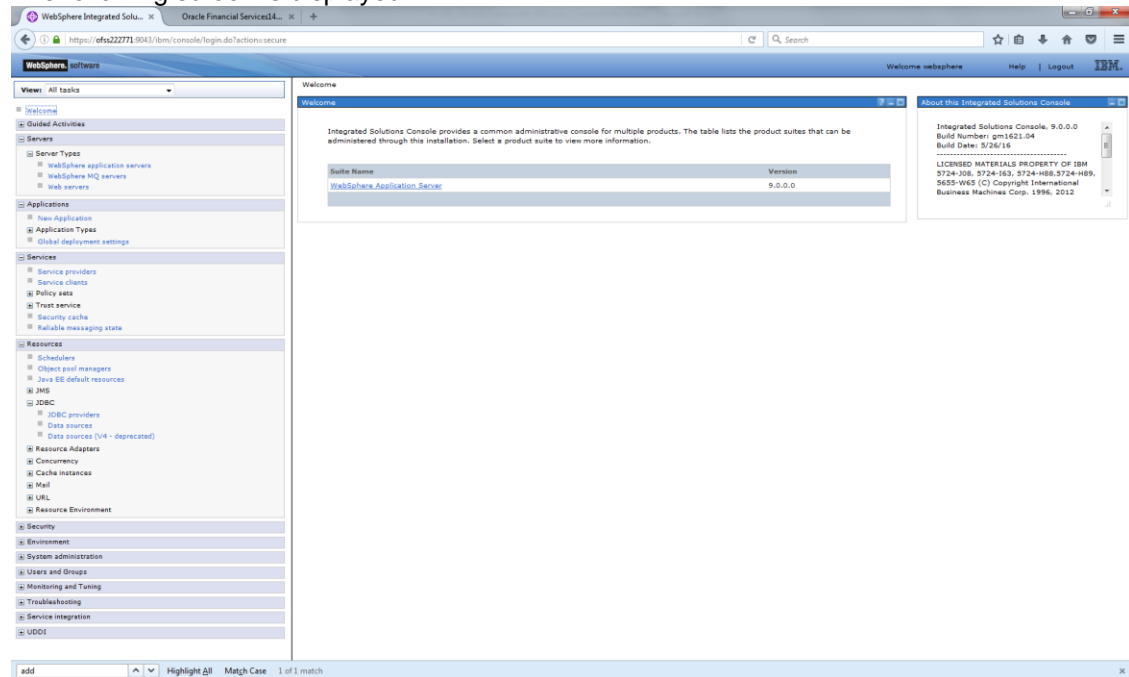
The following screen is displayed:



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.

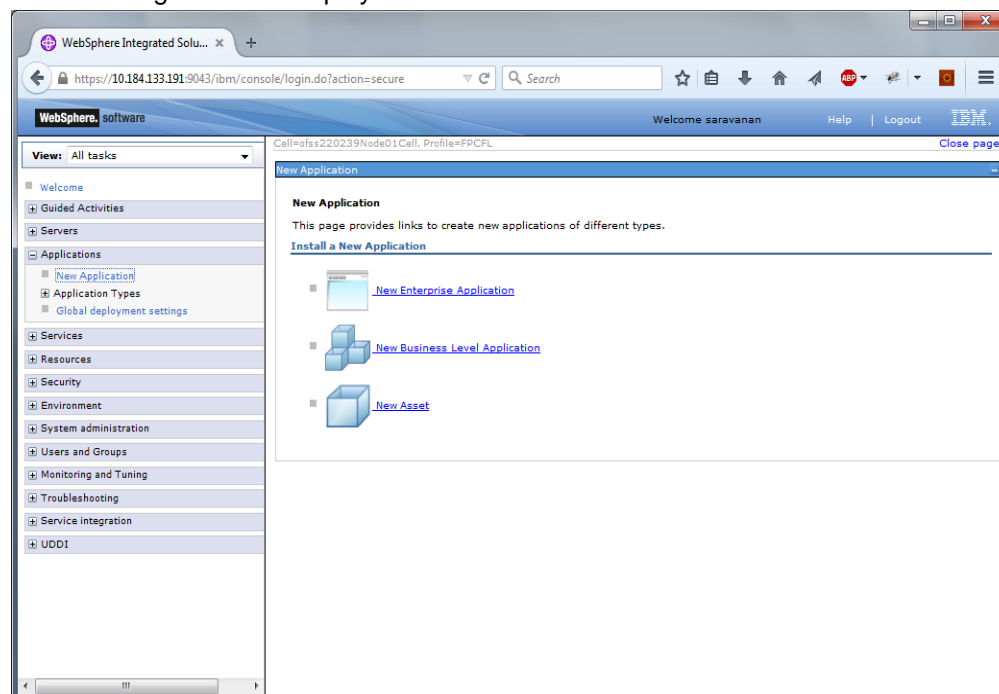


The following screen is displayed.

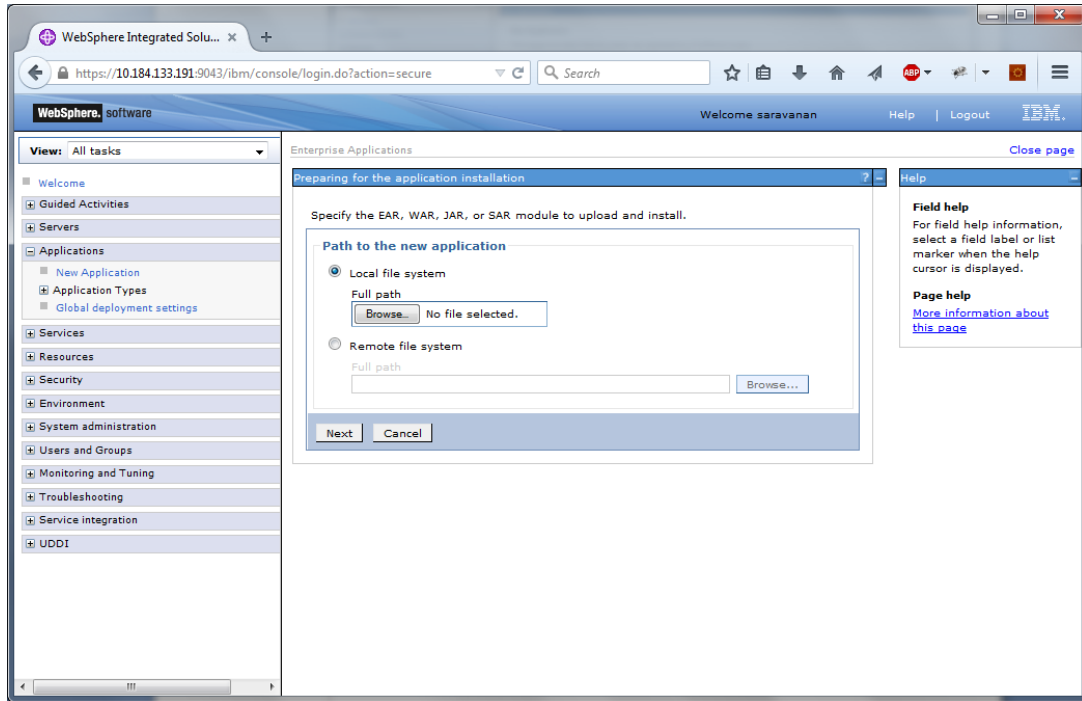


4. Expand Applications from left-side menu and Click 'New Application'.

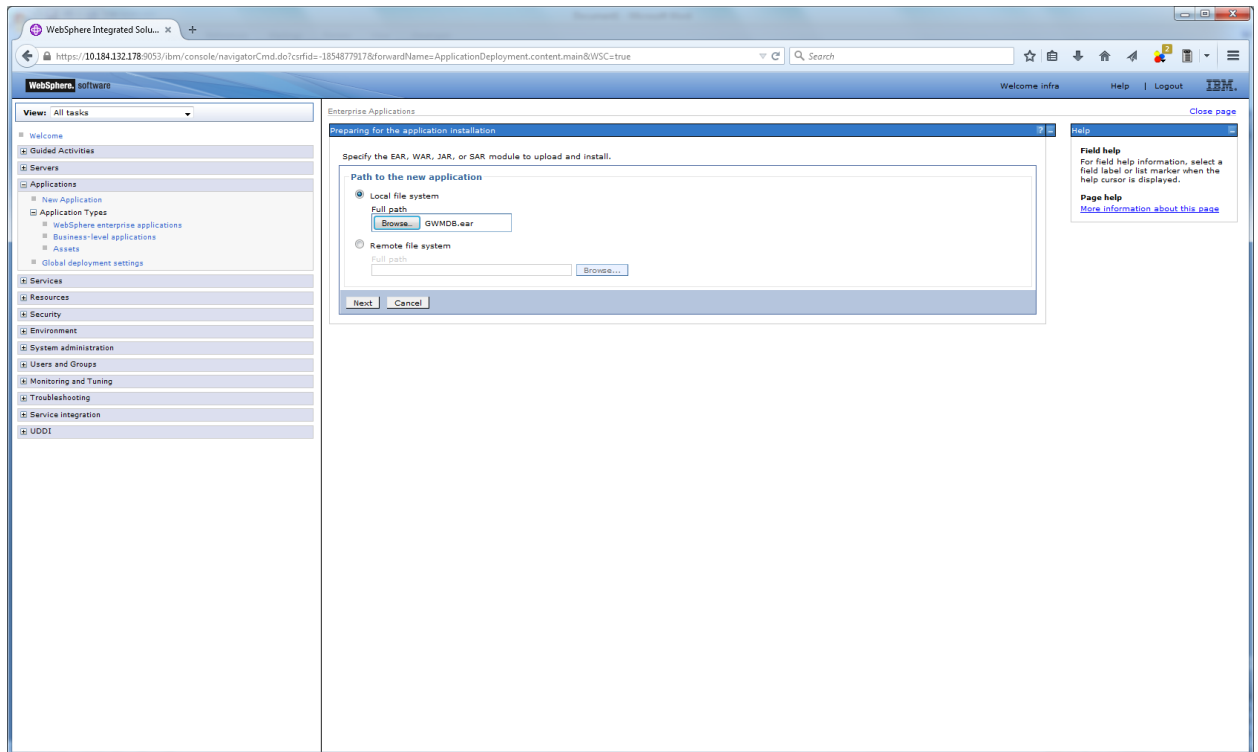
The following screen is displayed.



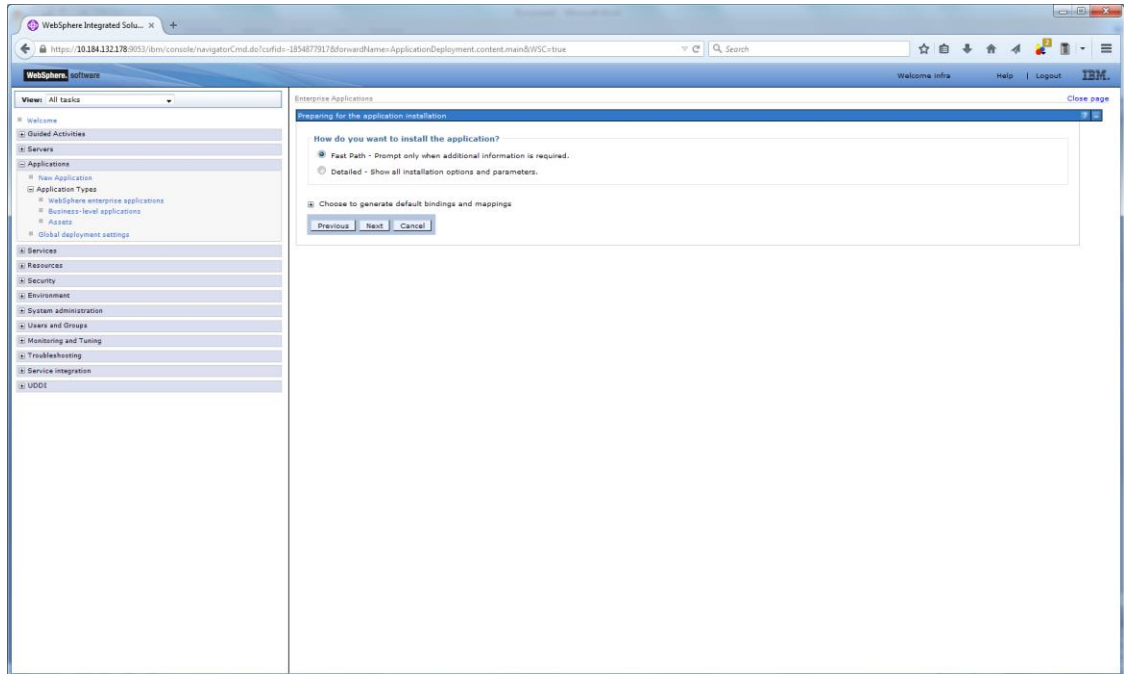
5. Click 'New Enterprise Application'.



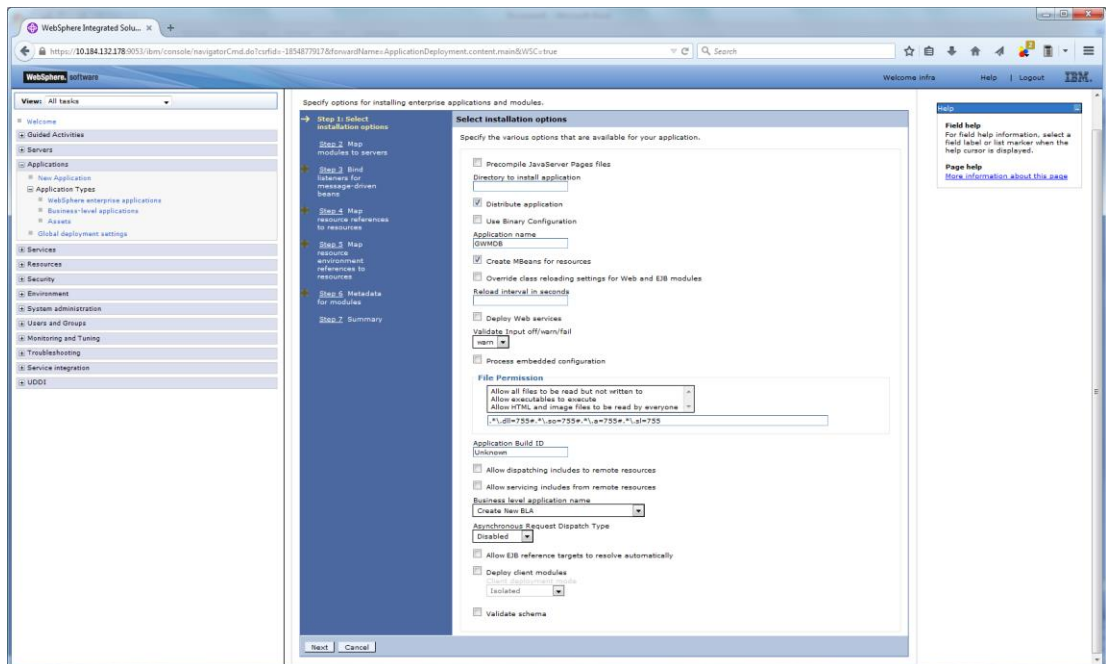
6. Click on Browse and select the MDB EAR and the following screen is displayed



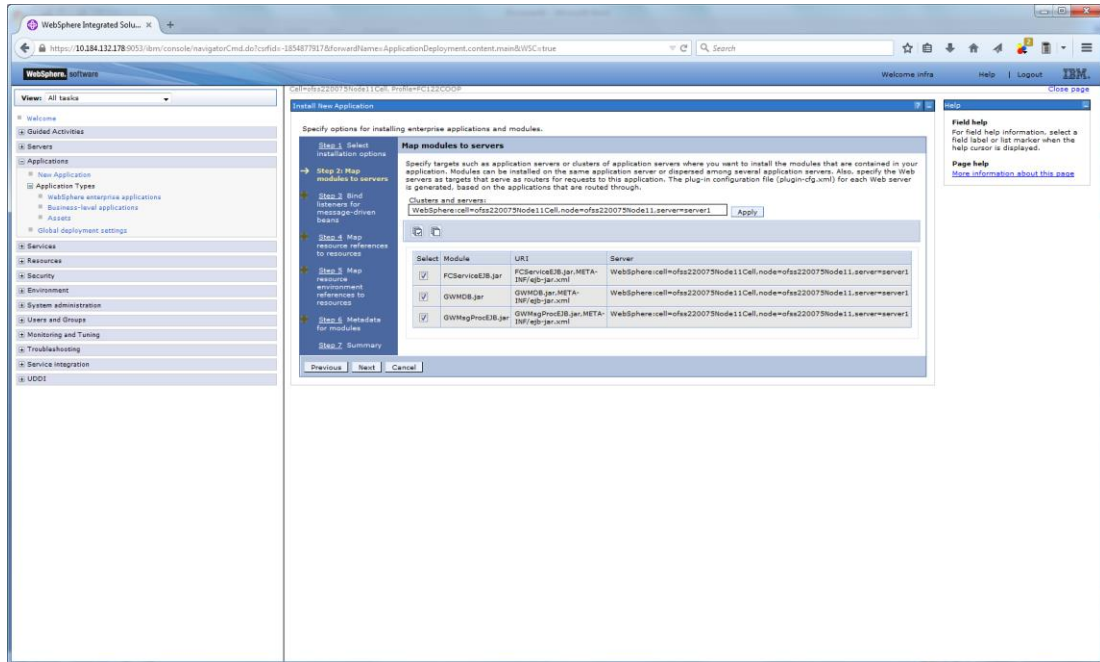
7. Click on next and the following screen is displayed.



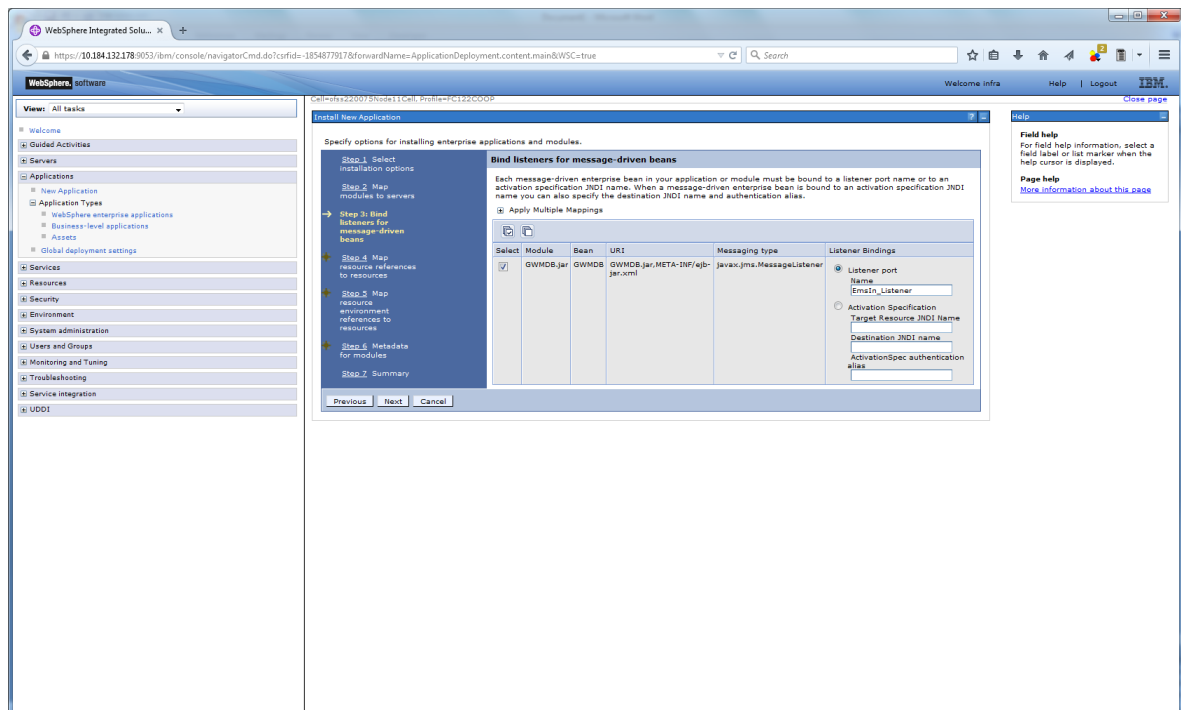
8. Click on next and the following screen is displayed.



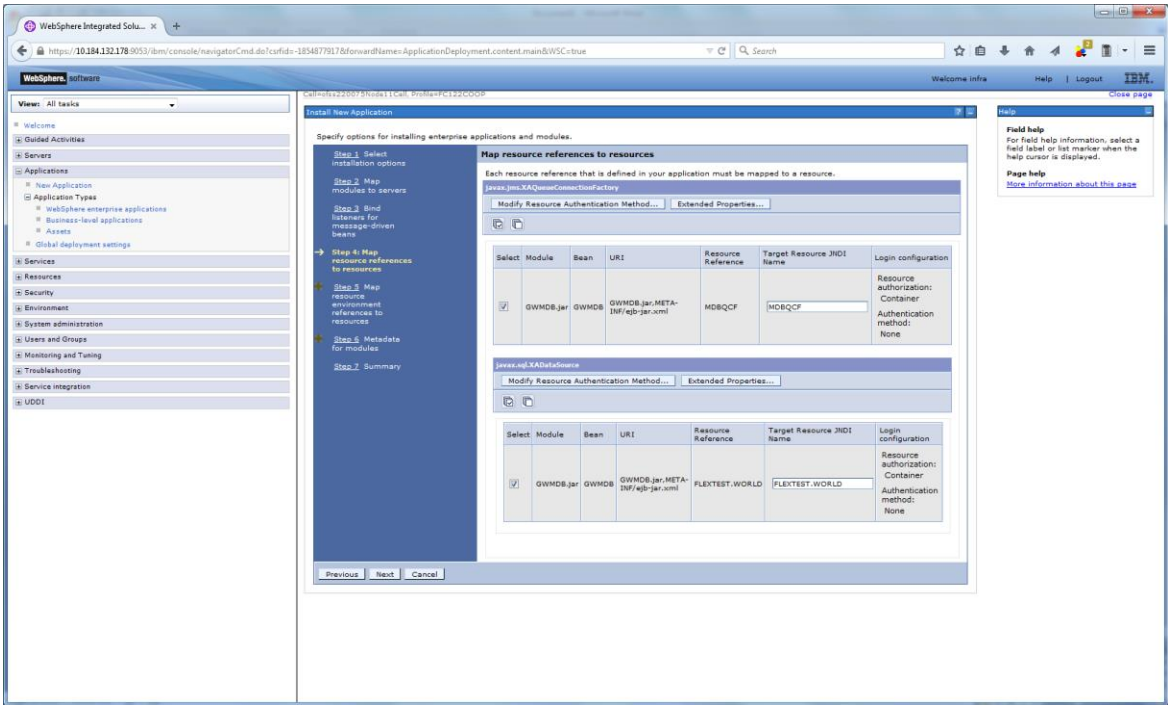
9. Click on next and the following screen is displayed.



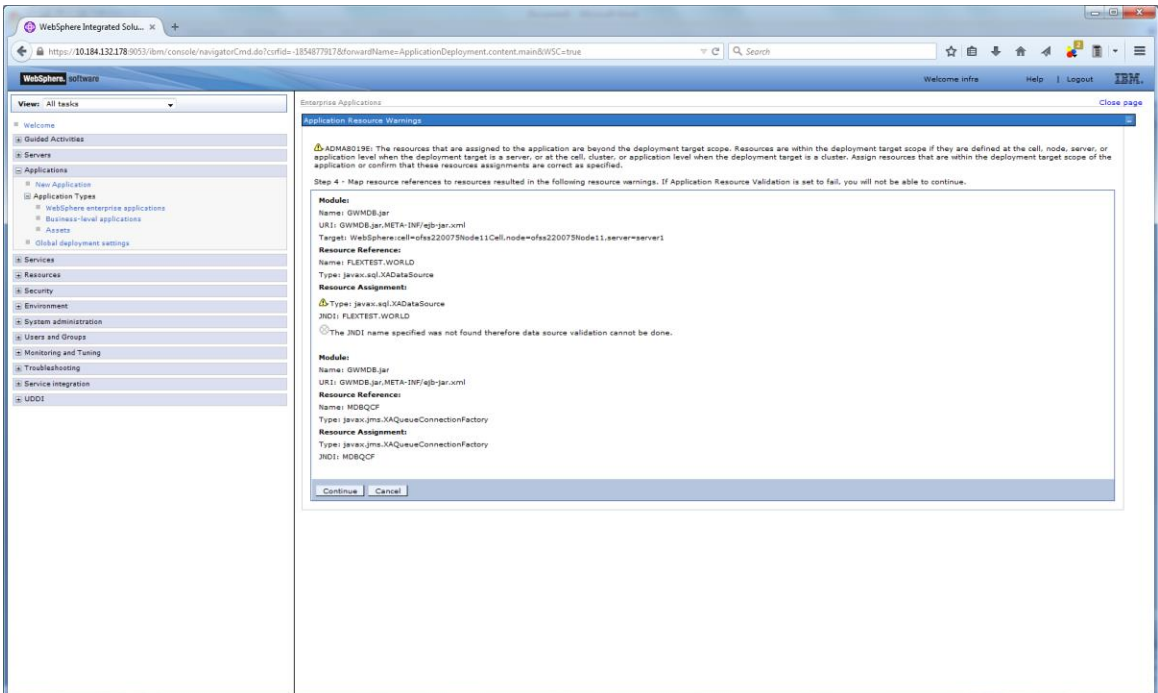
10. Click on next and the following screen is displayed.



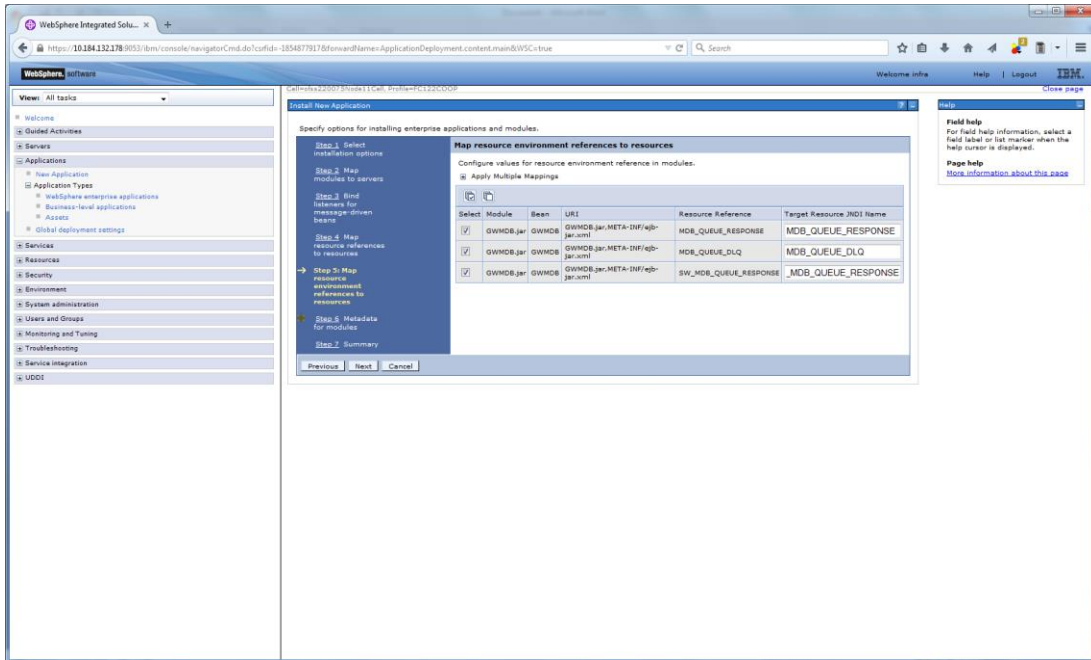
11. Input the listner name click next. Following screen is displayed.



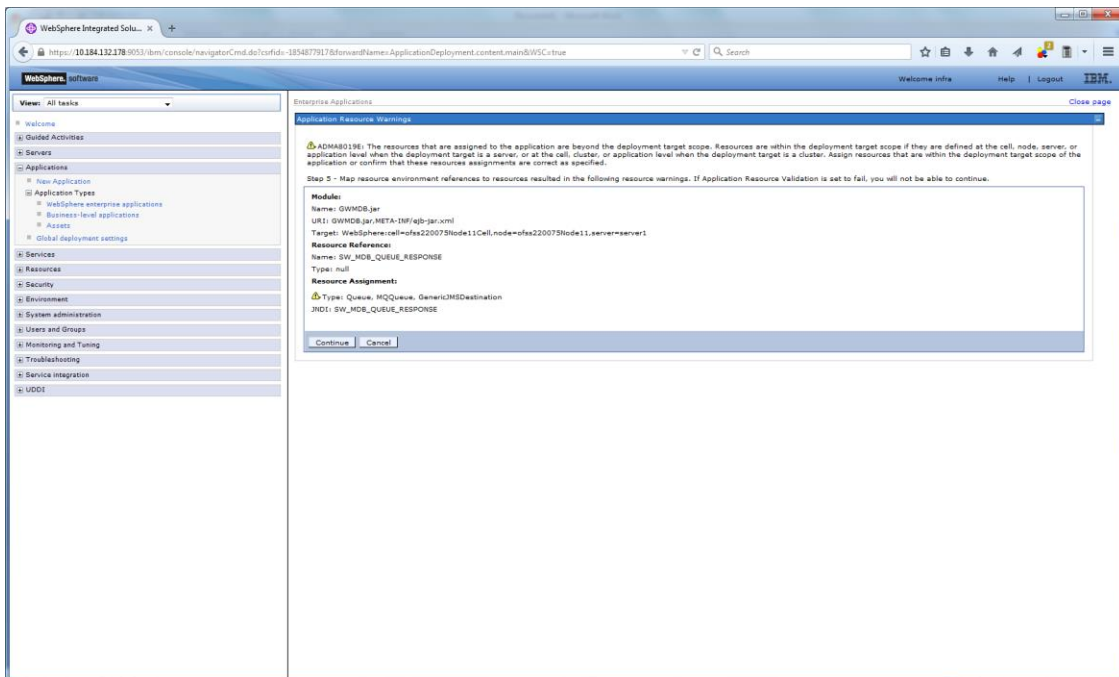
12. Enter the details as shown and click next.



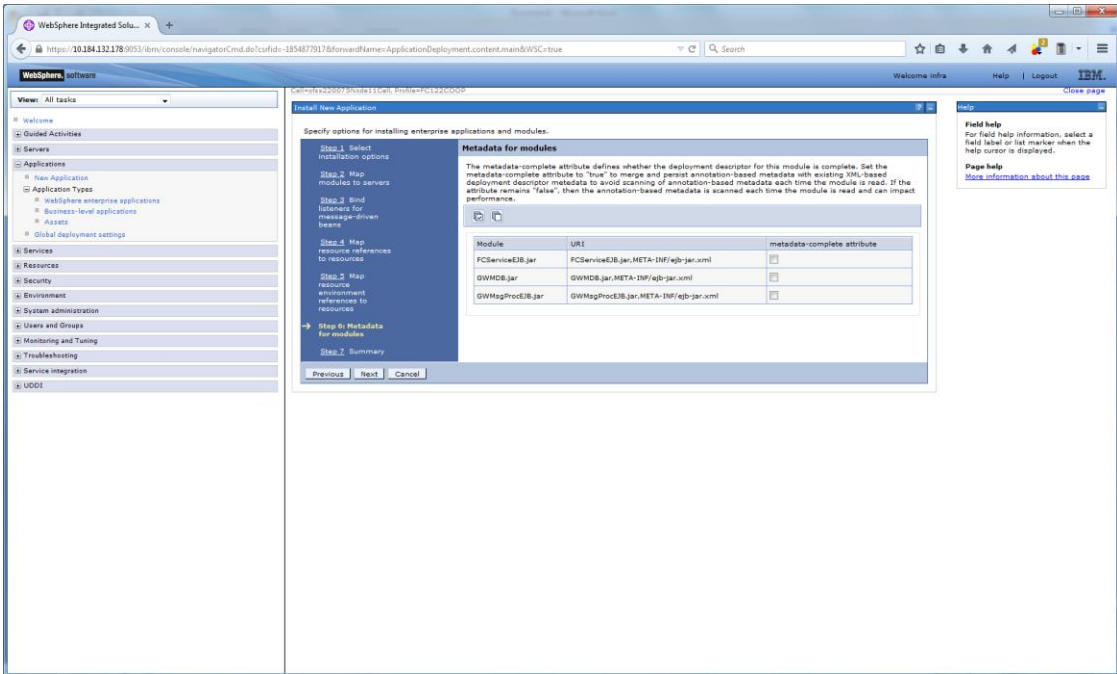
13. Click on continue and following screen is displayed.



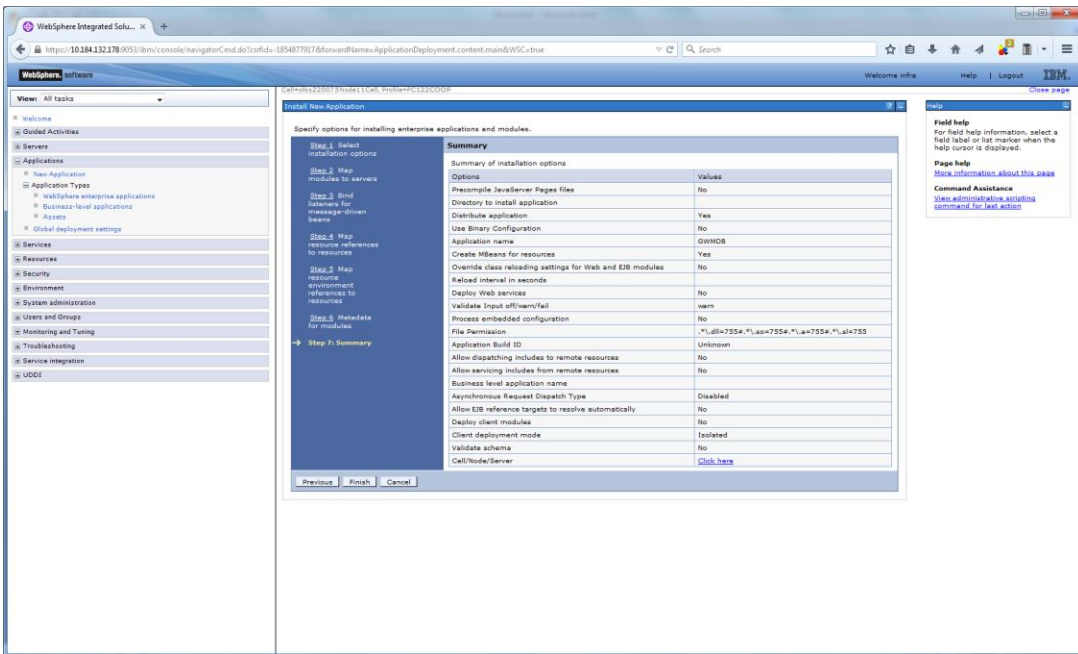
14. Give necessary details as shown and click next.



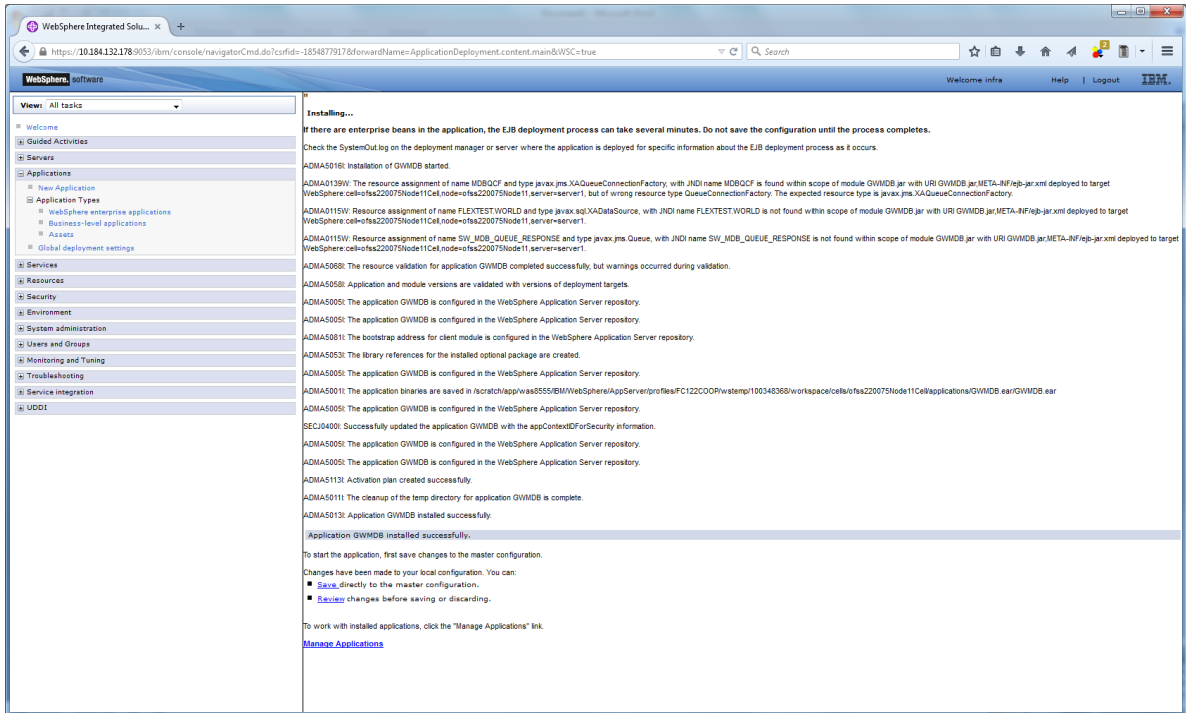
15. Click on continue and below screen is displayed.



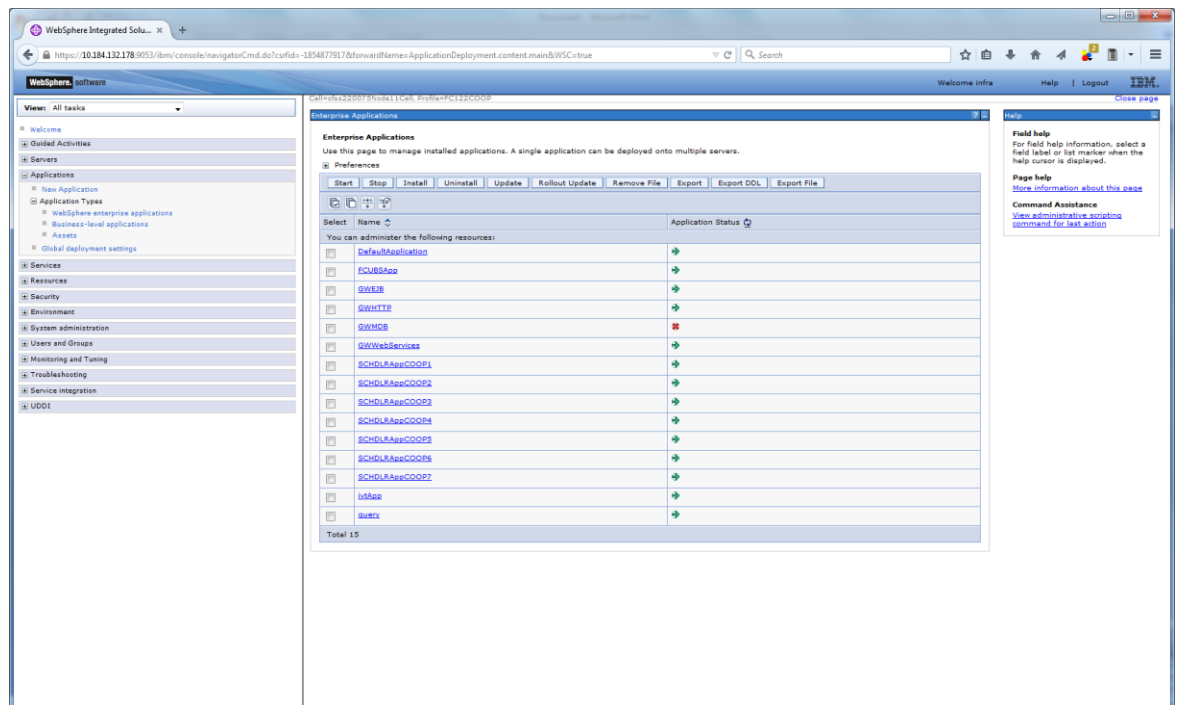
16. Click on next and following screen is displayed.



17. Click on Finish and following screen is displayed.

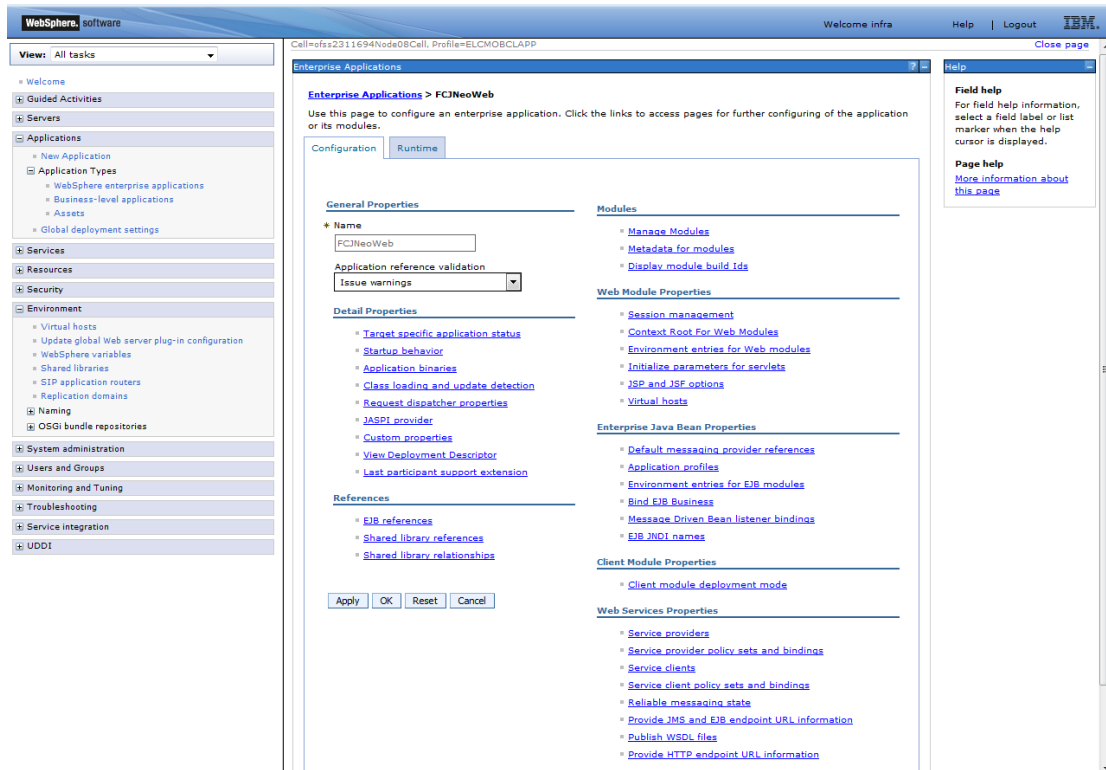


18. Click on save and following screen is displayed.



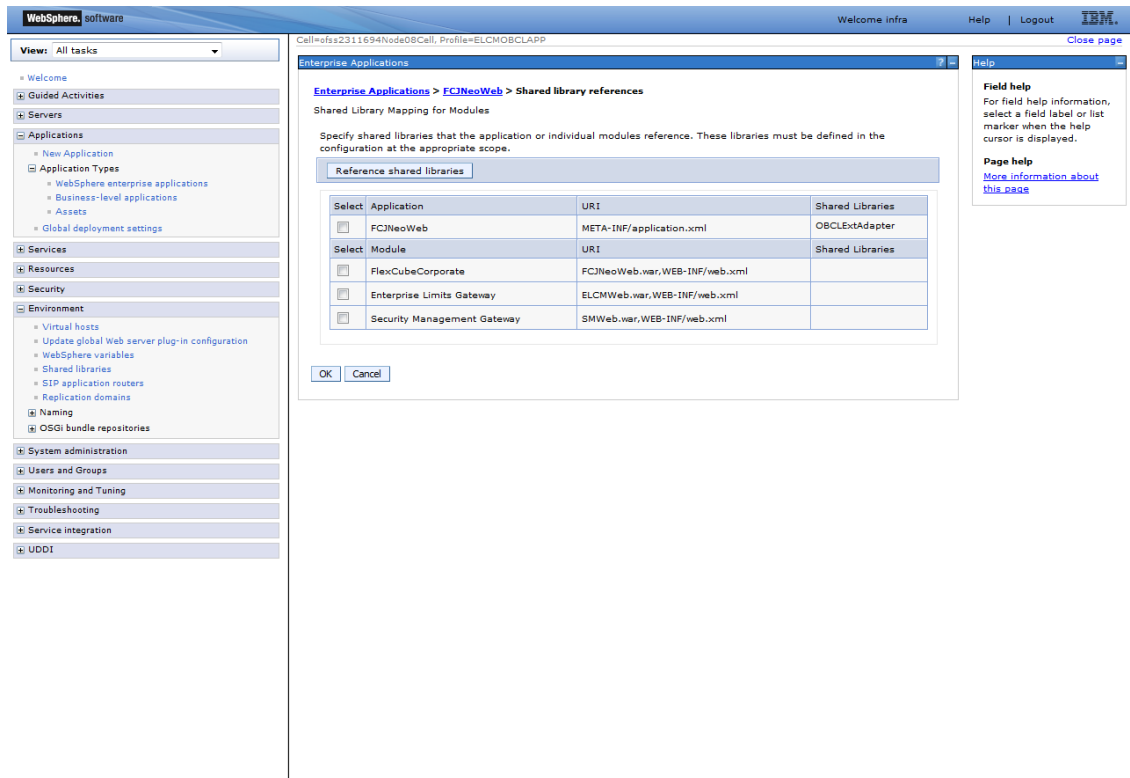
19. Click on installed FCUBS Application and the following screen is displayed.





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

The following screen is displayed.



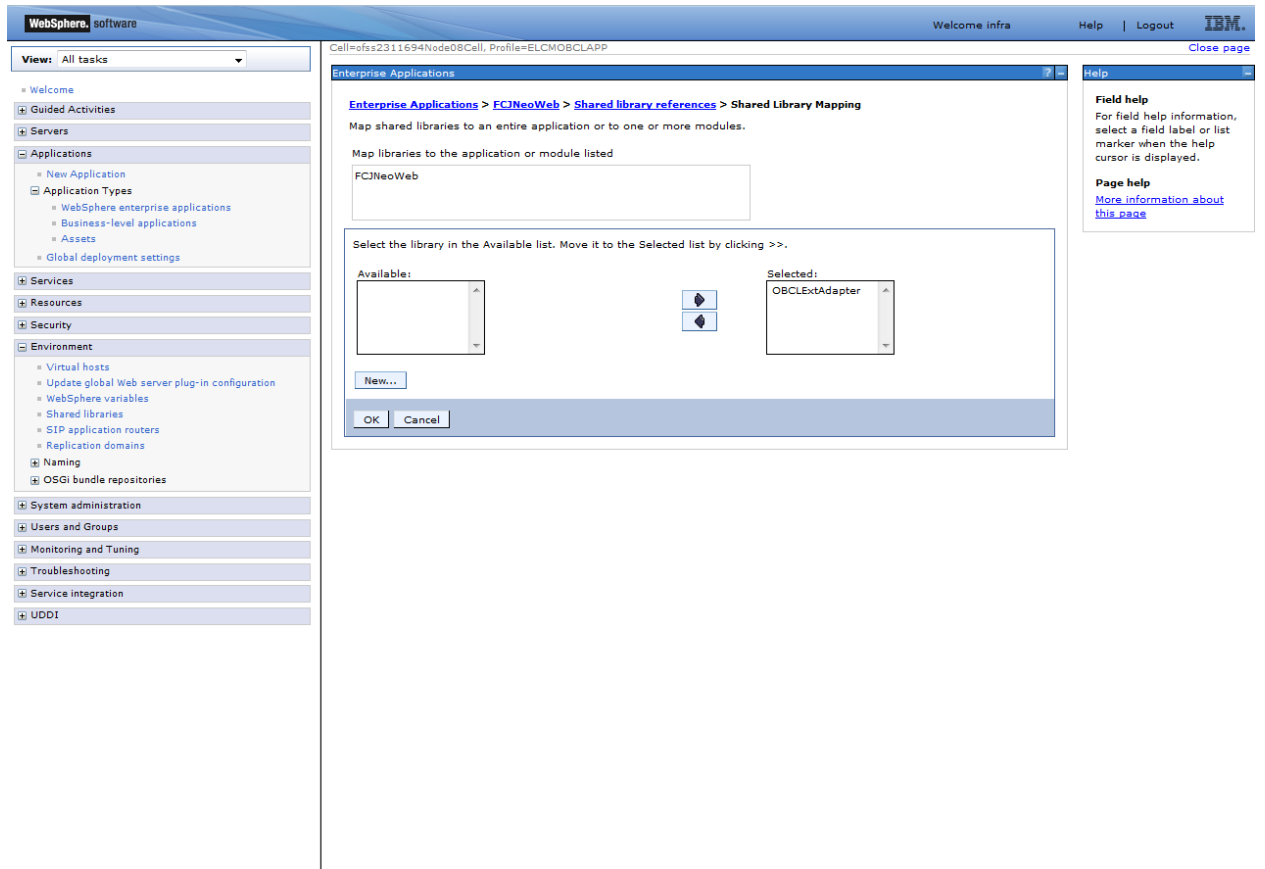
21. Select your Application and click 'Reference Shared Library'.

The following screen is displayed.

The screenshot displays the IBM WebSphere Administration Console interface. The top navigation bar includes the text 'WebSphere, software', 'Welcome infra', 'Help | Logout', and the IBM logo. A breadcrumb trail reads 'Enterprise Applications > FCJNeoWeb > Shared library references > Shared Library Mapping'. The main content area contains the following text: 'Map shared libraries to an entire application or to one or more modules.' and 'Map libraries to the application or module listed'. Below this, a text box contains 'FCJNeoWeb'. A dialog box titled 'Shared Library Mapping' is open, showing an 'Available:' list with 'OBCLExtAdapter' and an empty 'Selected:' list. Between the lists are two arrow buttons. At the bottom of the dialog are 'New...', 'OK', and 'Cancel' buttons. On the right side of the console, a 'Help' panel is visible with 'Field help' and 'Page help' sections. A system tray notification for 'Sivakannan Somasundaram' is also present in the bottom right corner.

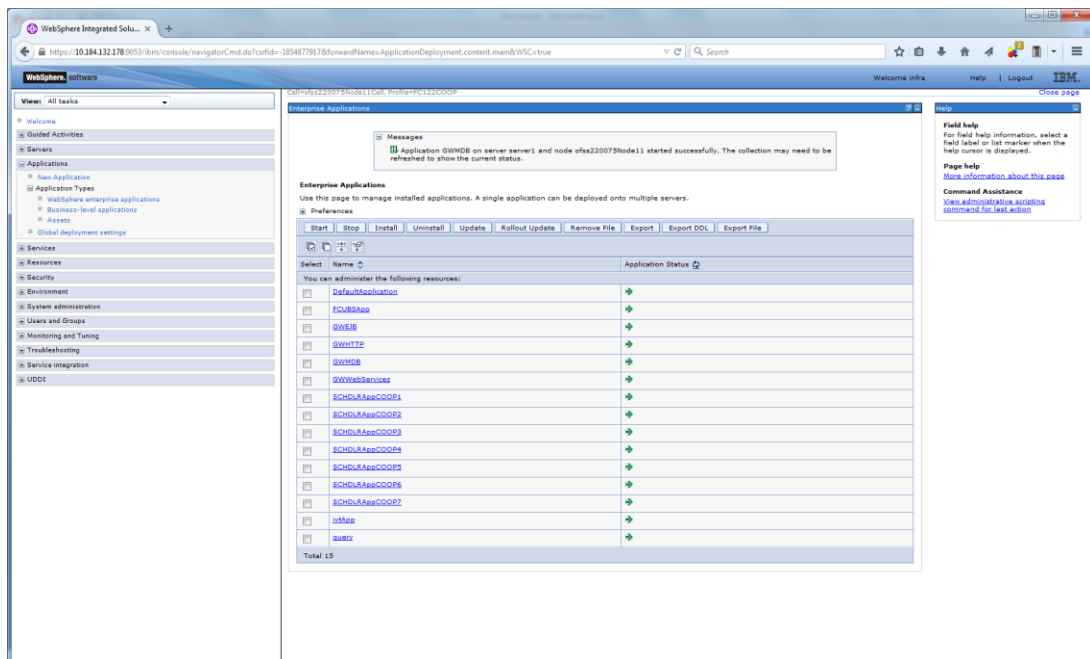
22. Click on right arrow button to add Available shared library reference.

The following screen is displayed.



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

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



MDB EAR deployment is successfully finished.

## 1.2.7 FCUBS HTTP Application Deployment

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

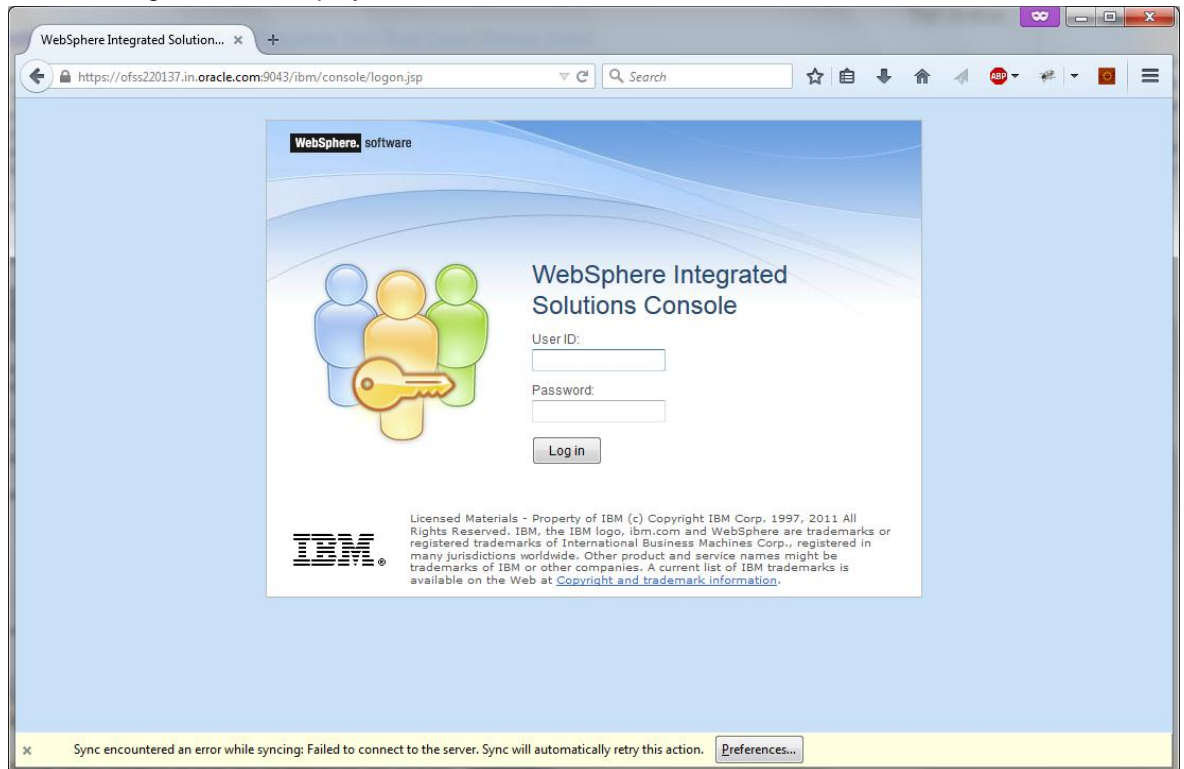
1. Open the Administrative Console of WebSphere server:

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

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

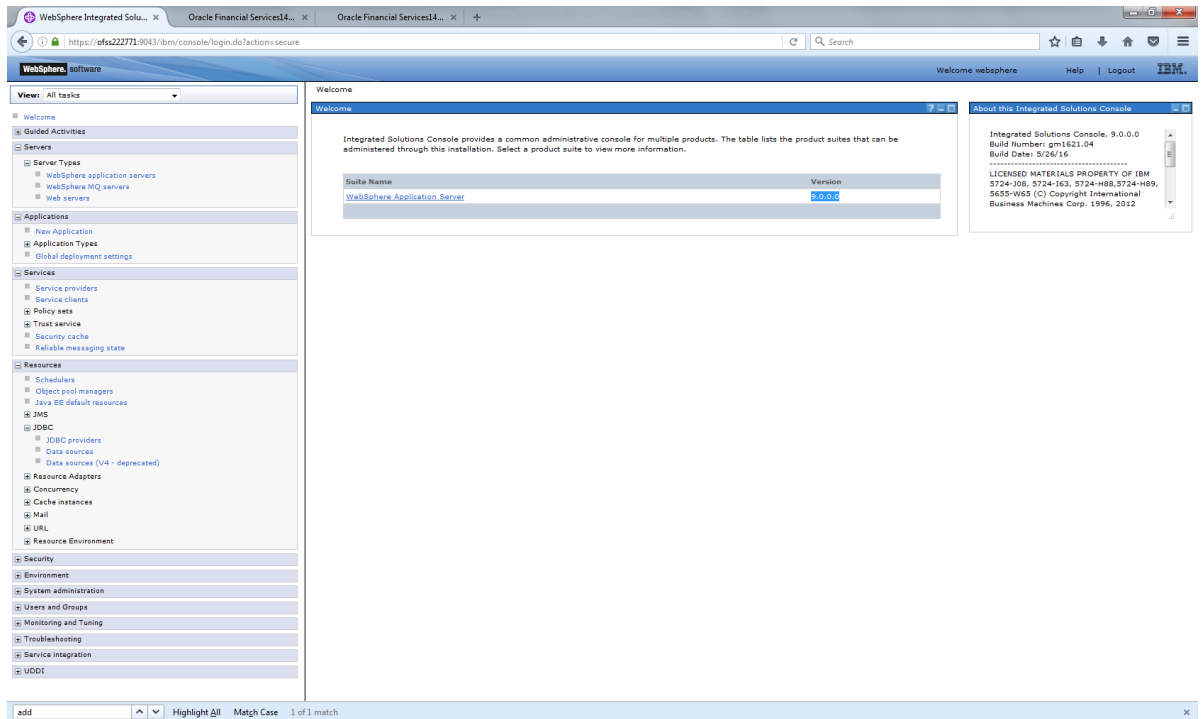
In the above example, 10.10.10.10 is the machine IP address on which WebSphere is running.

The following screen is displayed:



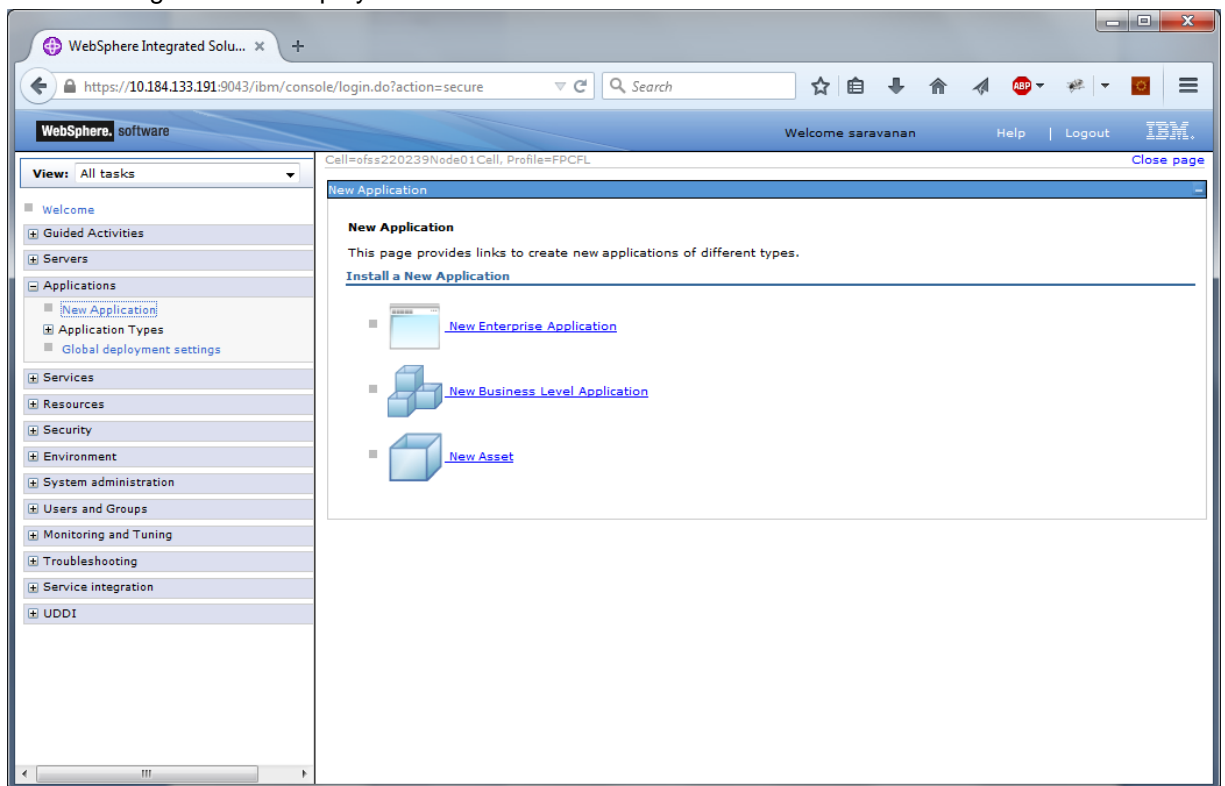
2. Enter the user name and password and click 'Log In' to log in to the application server.
3. Navigate to the WebSphere Home Page.

The following screen is displayed.

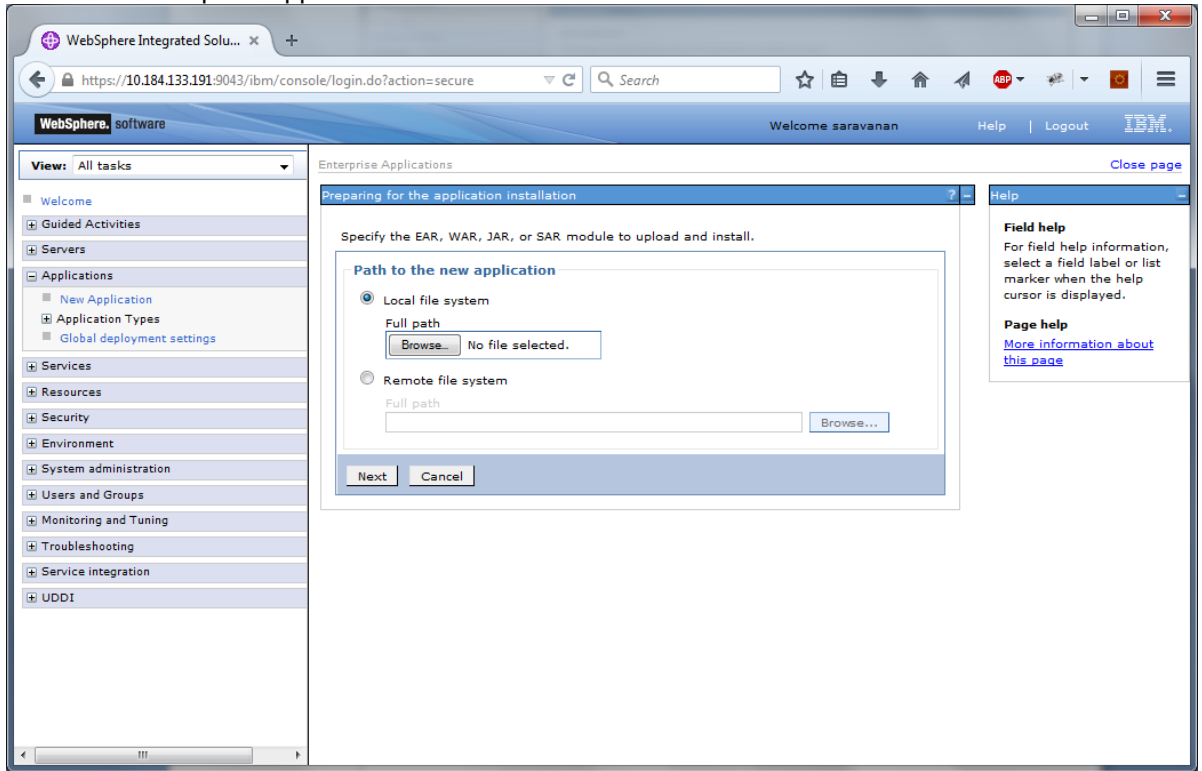


4. Expand Applications from left-side menu and Click 'New Application'.

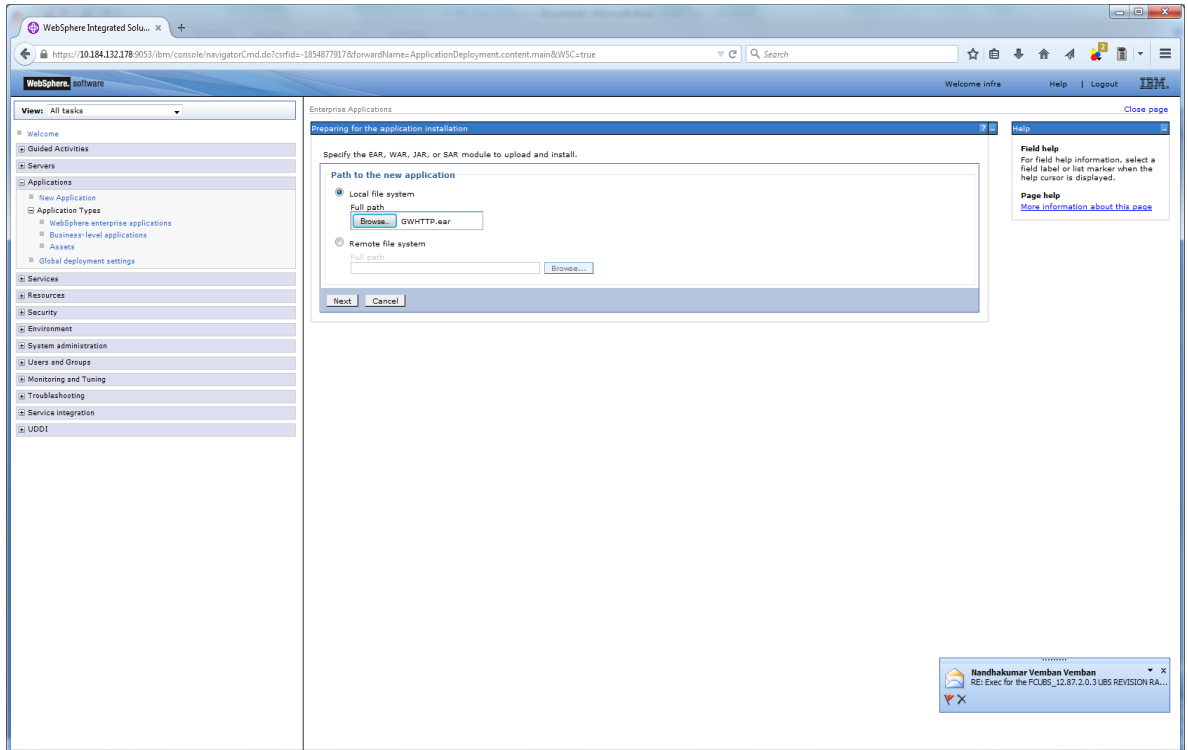
The following screen is displayed.



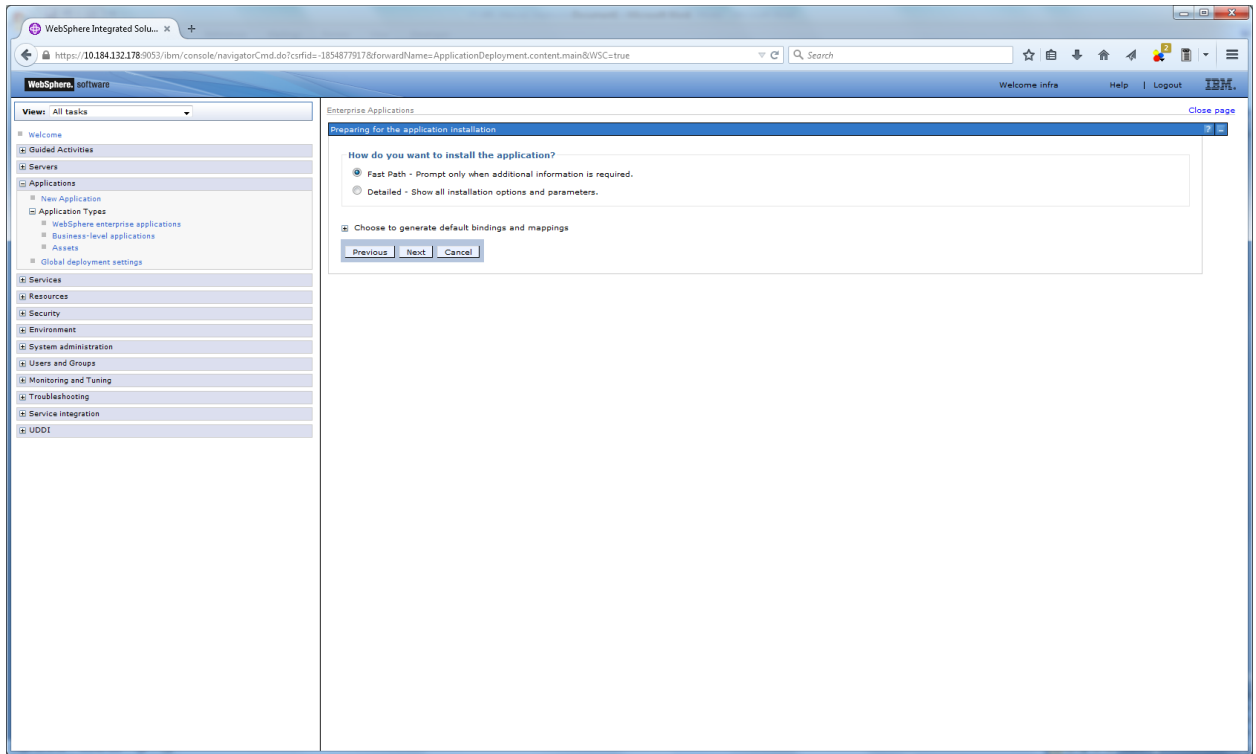
5. Click 'New Enterprise Application.'



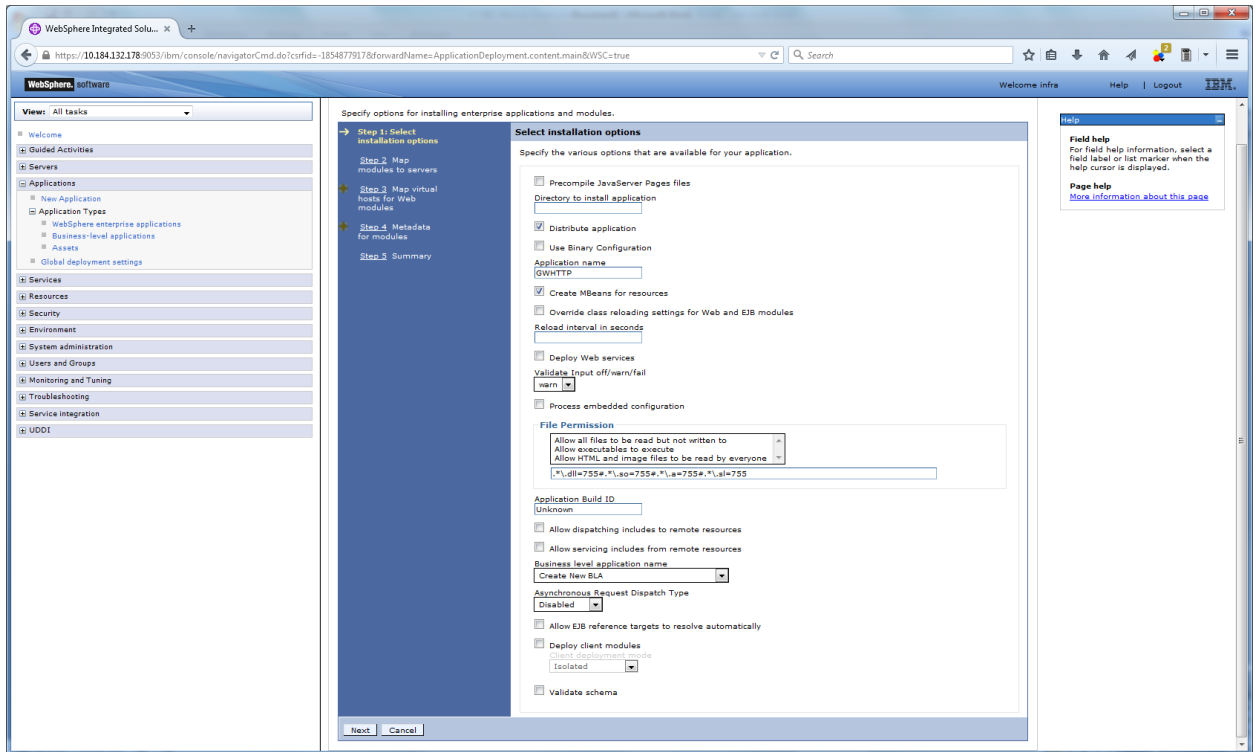
6. Browse the application EAR file and click next button



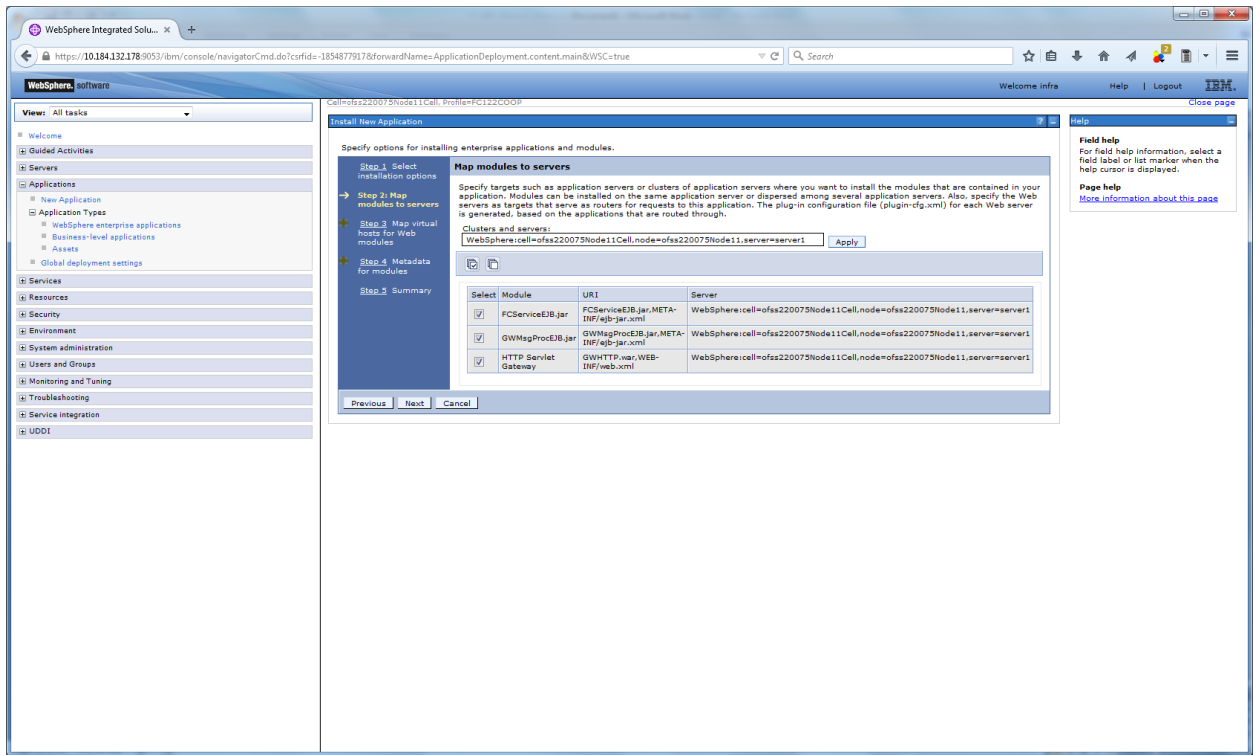
7. Click next and the following screen is displayed.



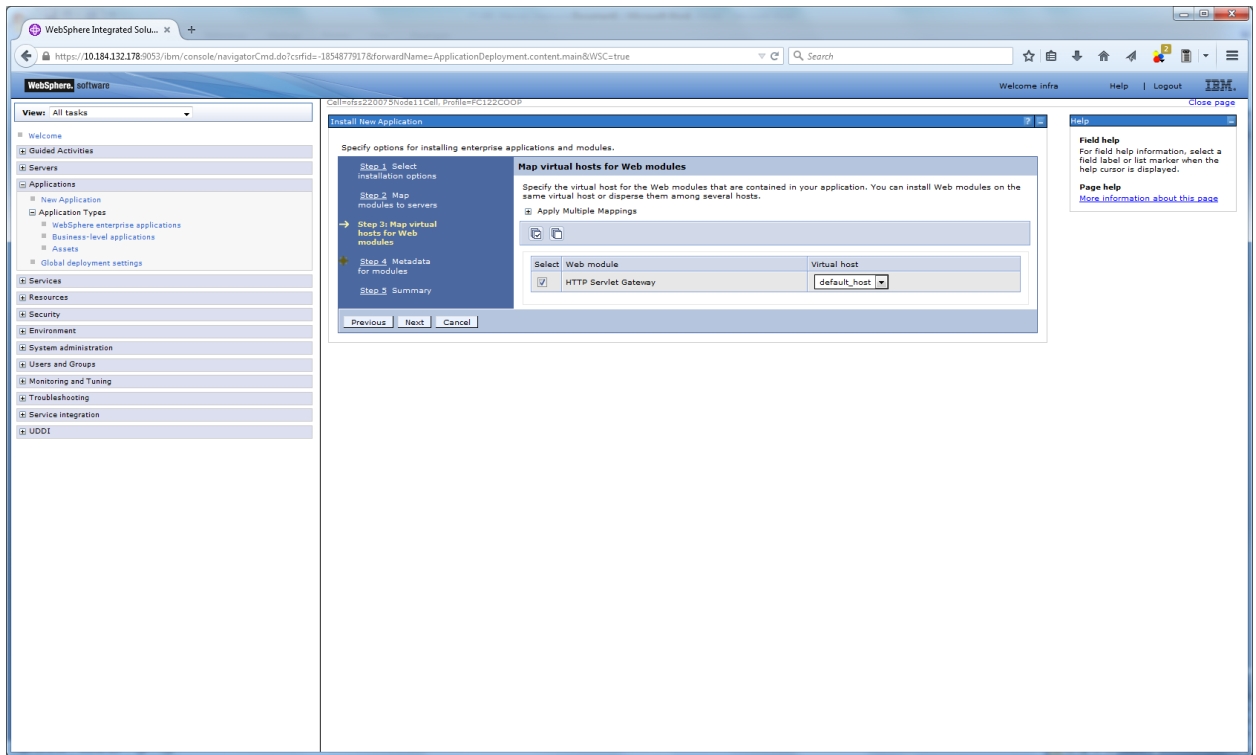
8. Click next and the following screen is displayed.



9. Click next and the following screen is displayed.

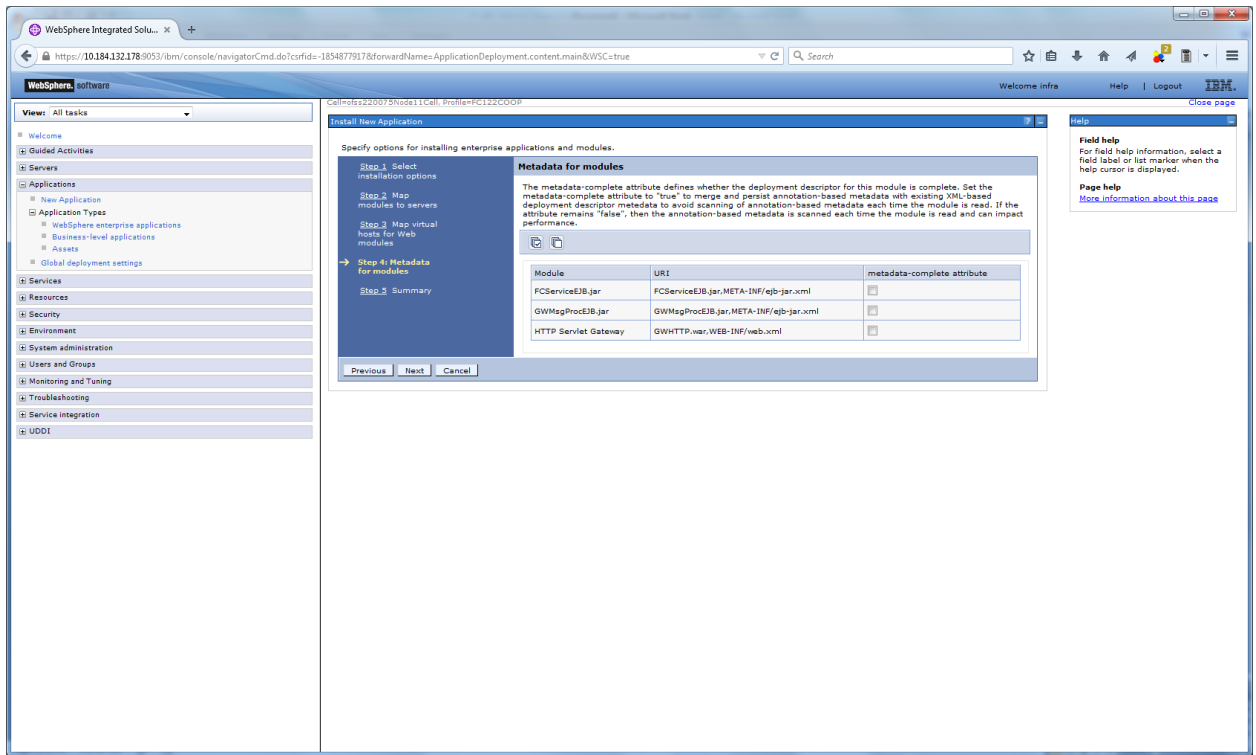


10. Click next and the following screen is displayed.

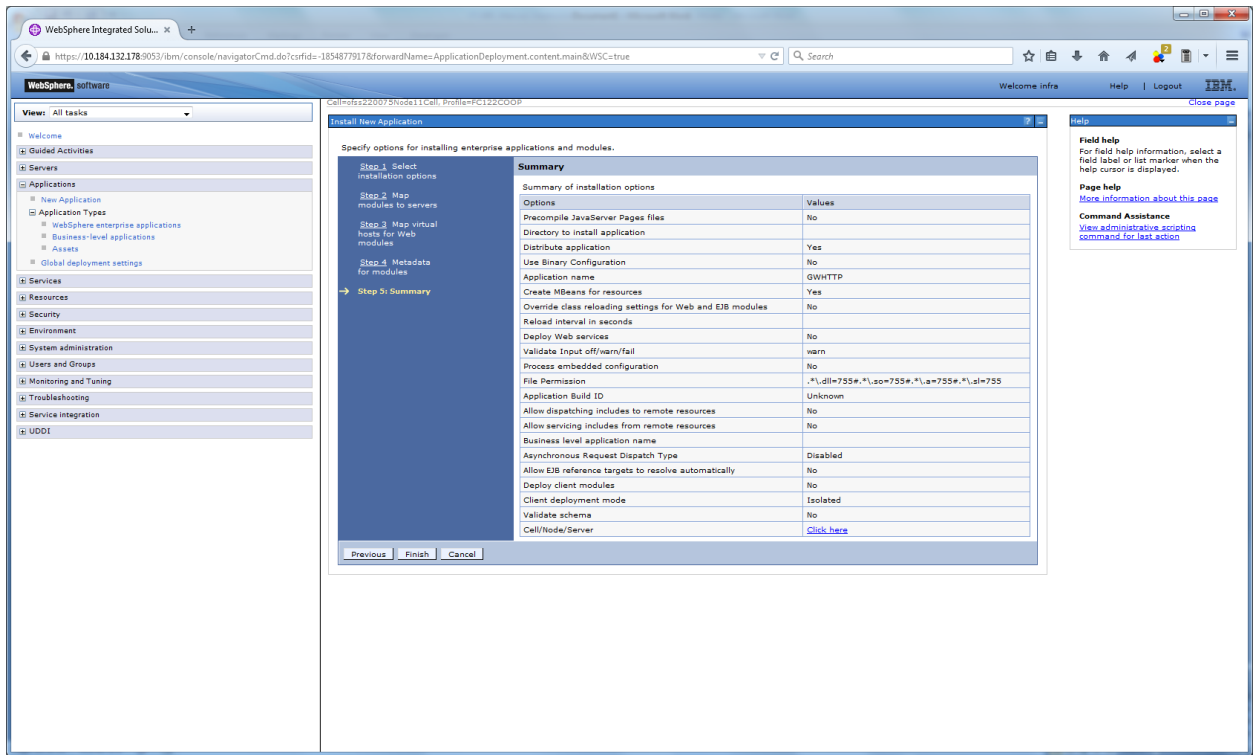




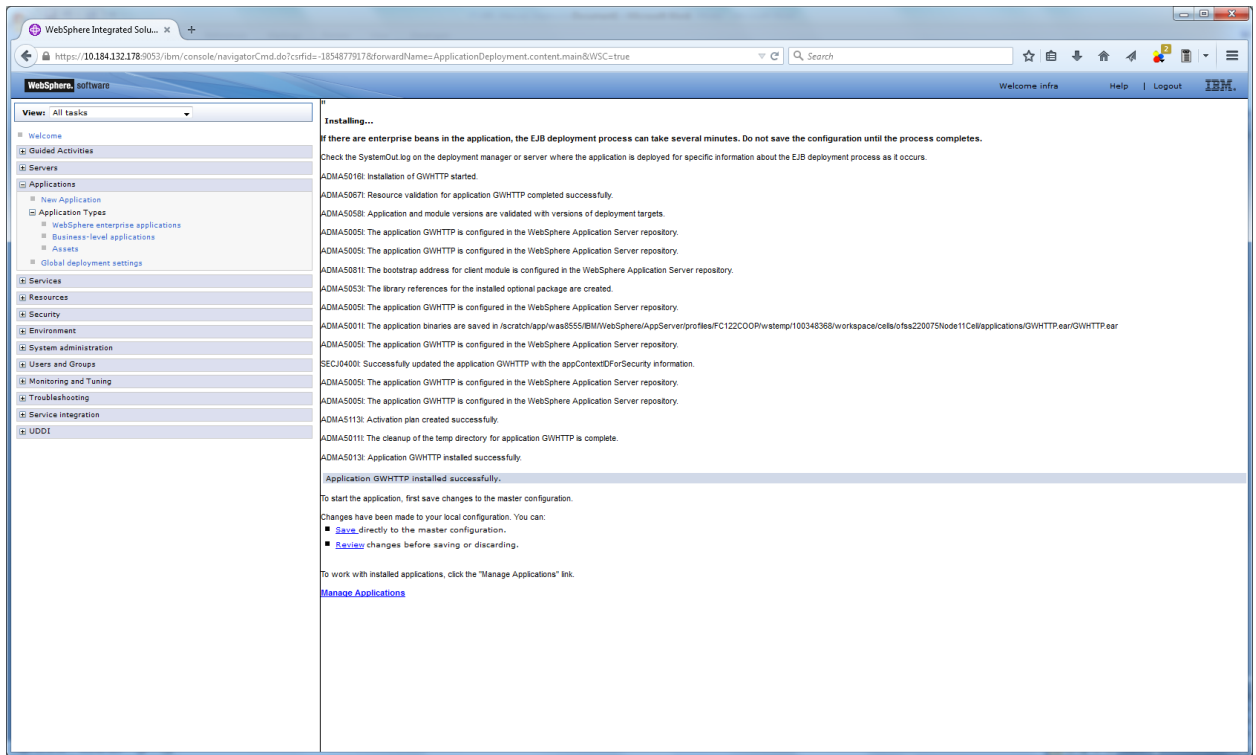
11. Click next and the following screen is displayed.



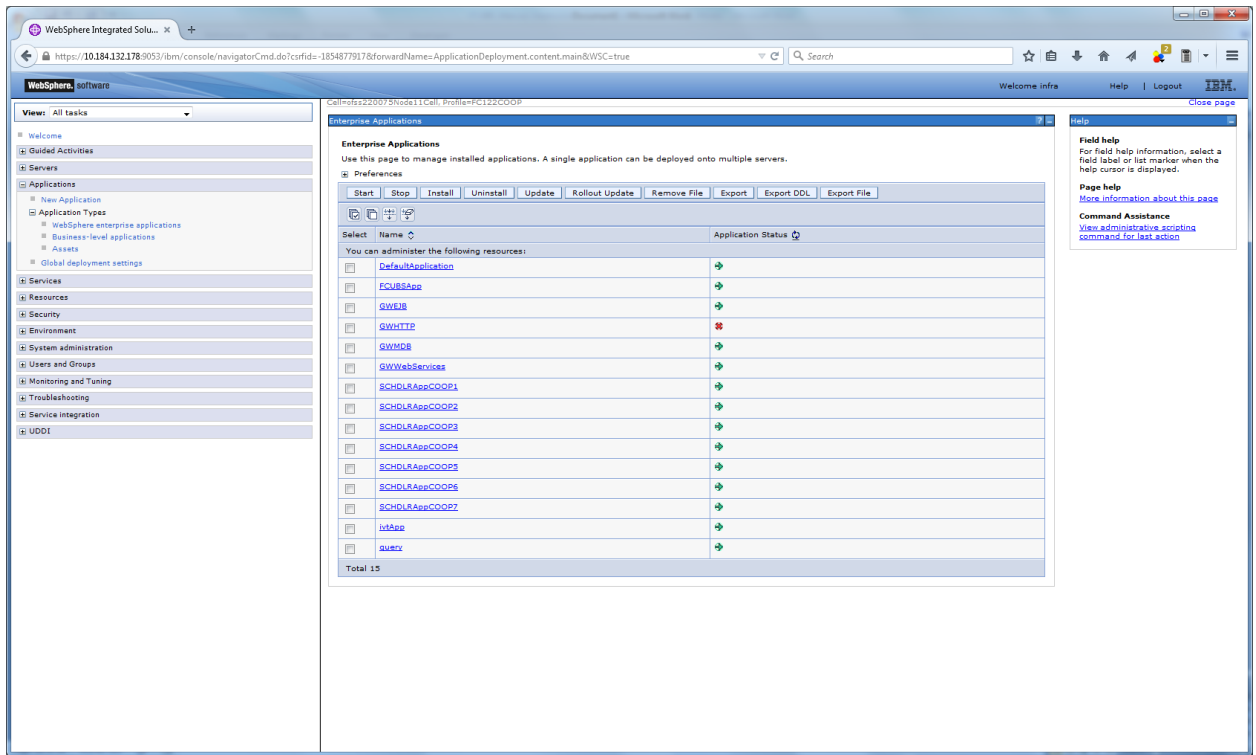
12. Click next and the following screen is displayed.



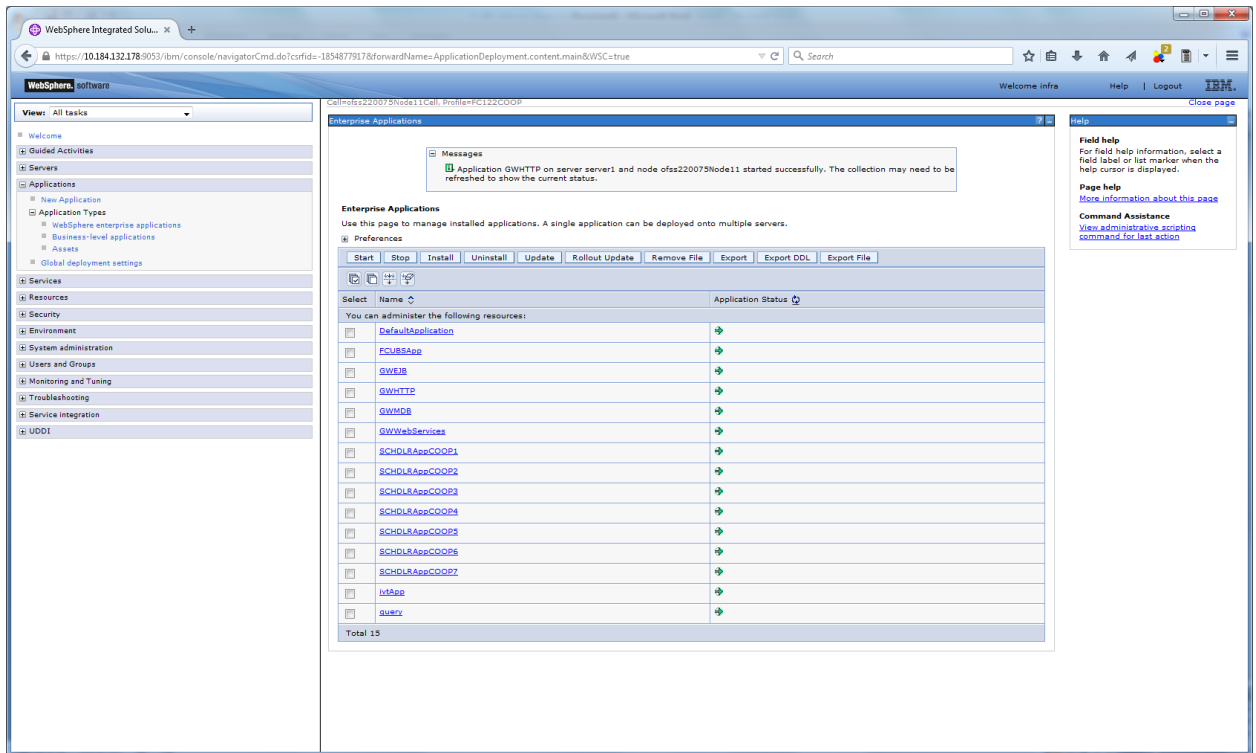
13. Click on finish and the following screen is displayed.



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.

## 1.2.8 FCUBS GWWebServices Application Deployment

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

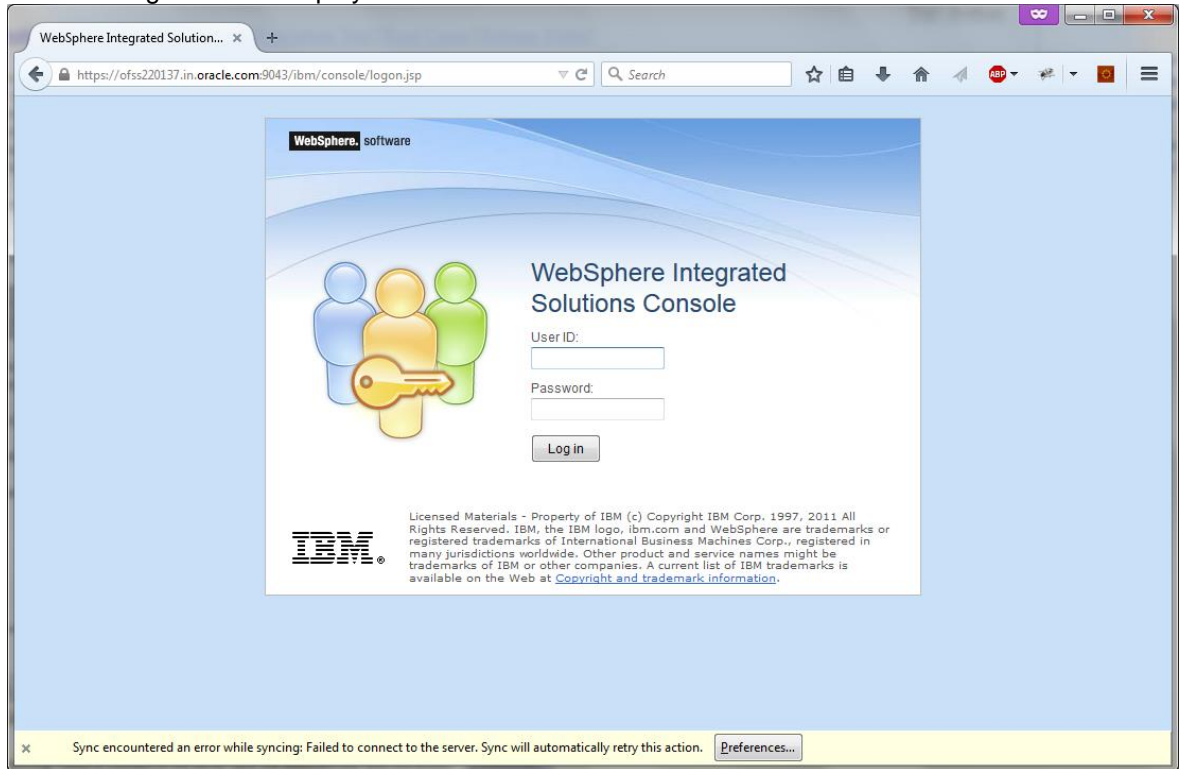
1. Open the Administrative Console of WebSphere server:

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

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

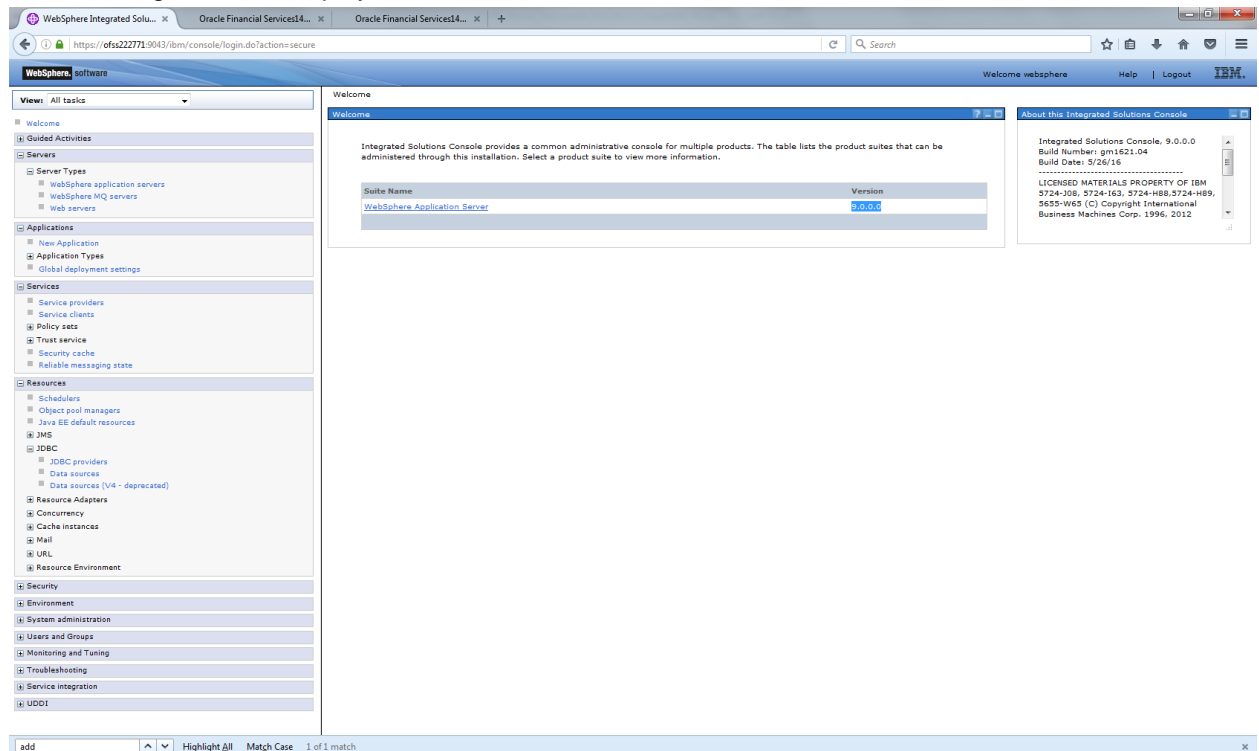
In the above example, 10.10.10.10 is the machine IP address on which WebSphere is running.

The following screen is displayed:



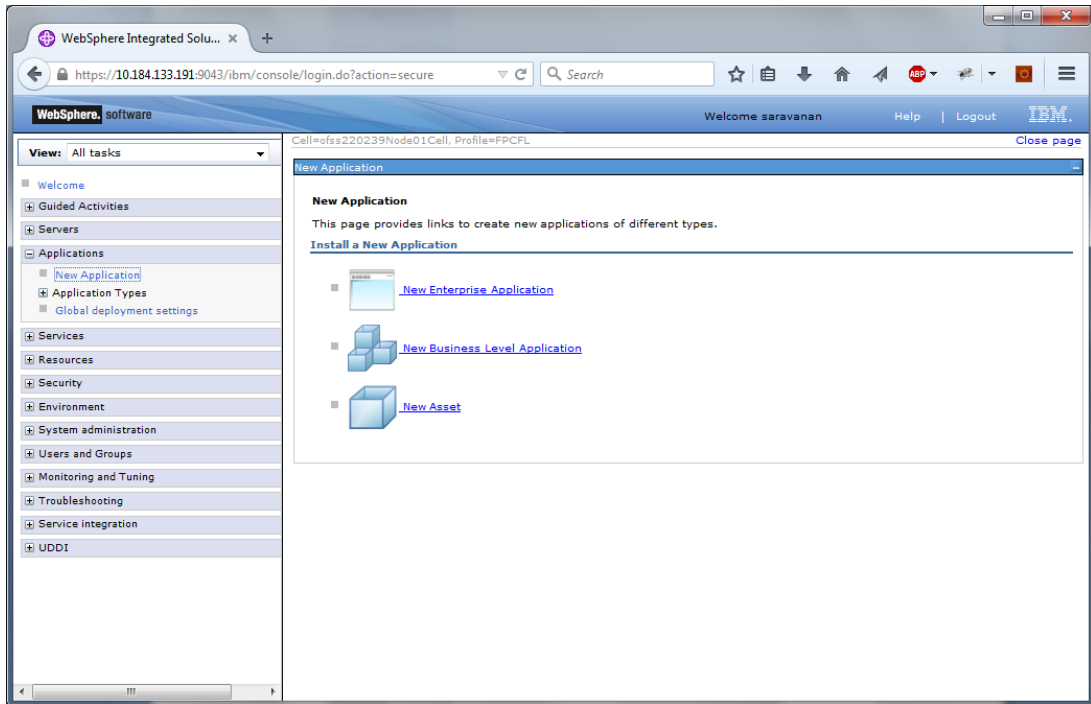
2. Enter the user name and password and click 'Log In' to log in to the application server.
3. Navigate to the WebSphere Home Page.

The following screen is displayed.

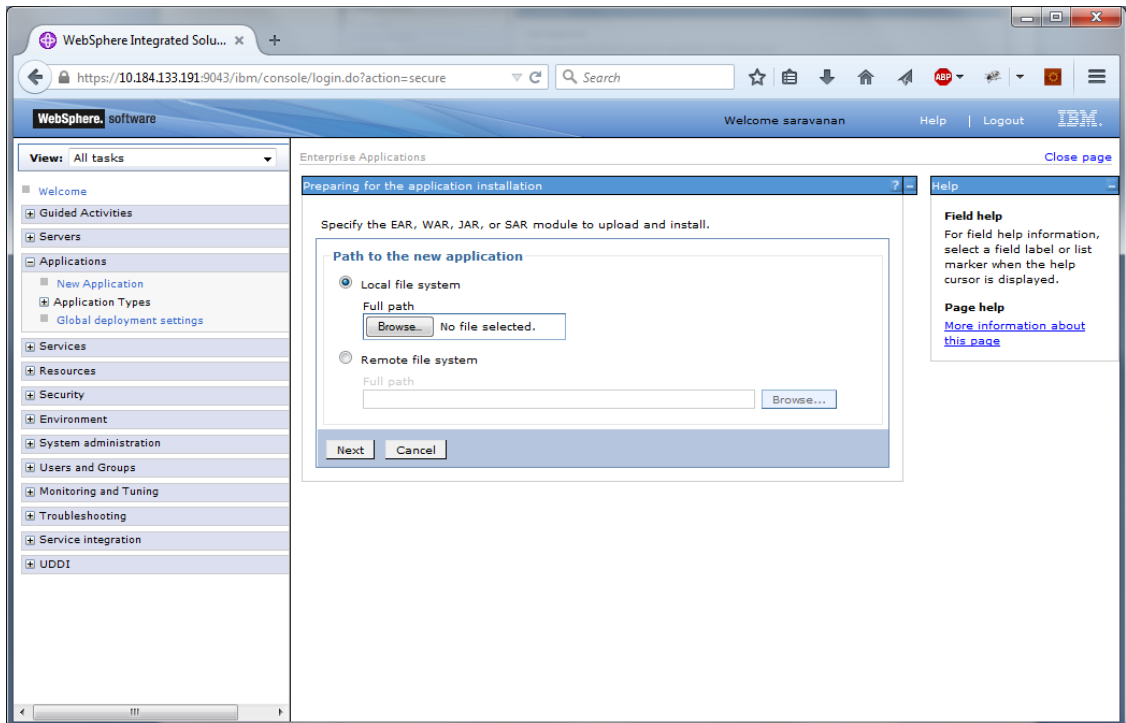


- Expand Applications from left-side menu and Click 'New Application'.

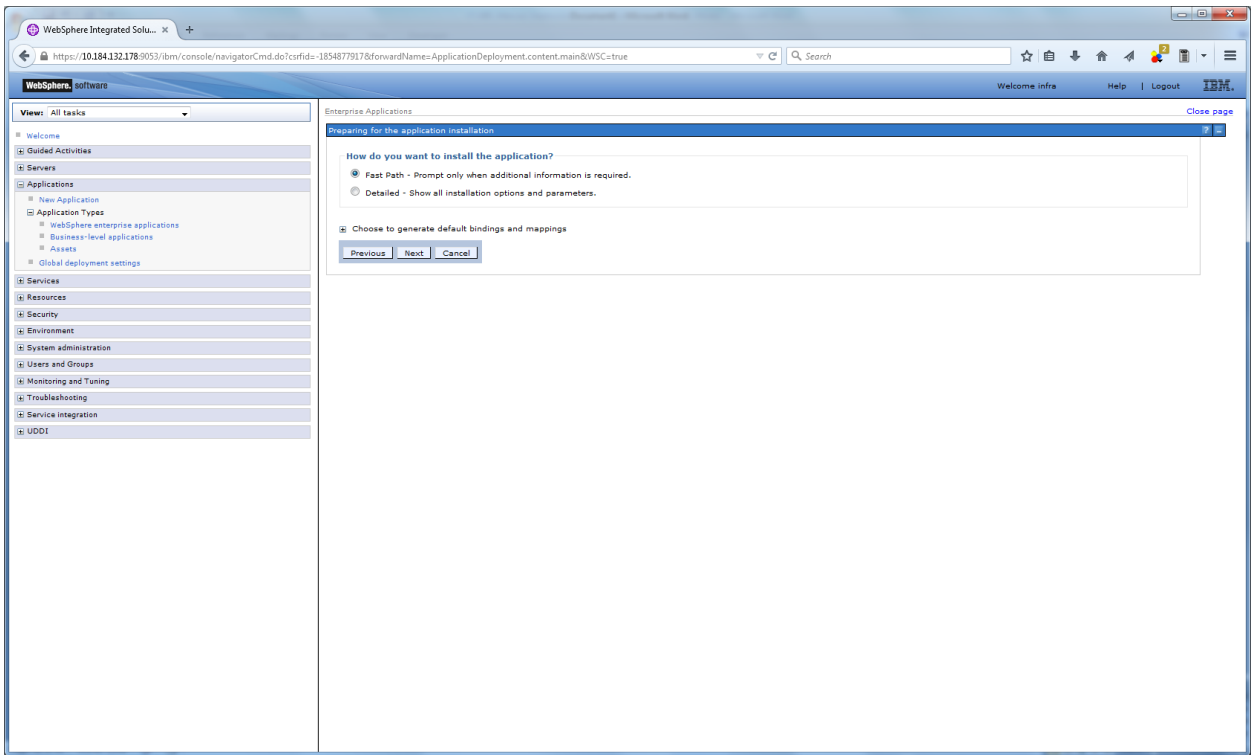
The following screen is displayed.



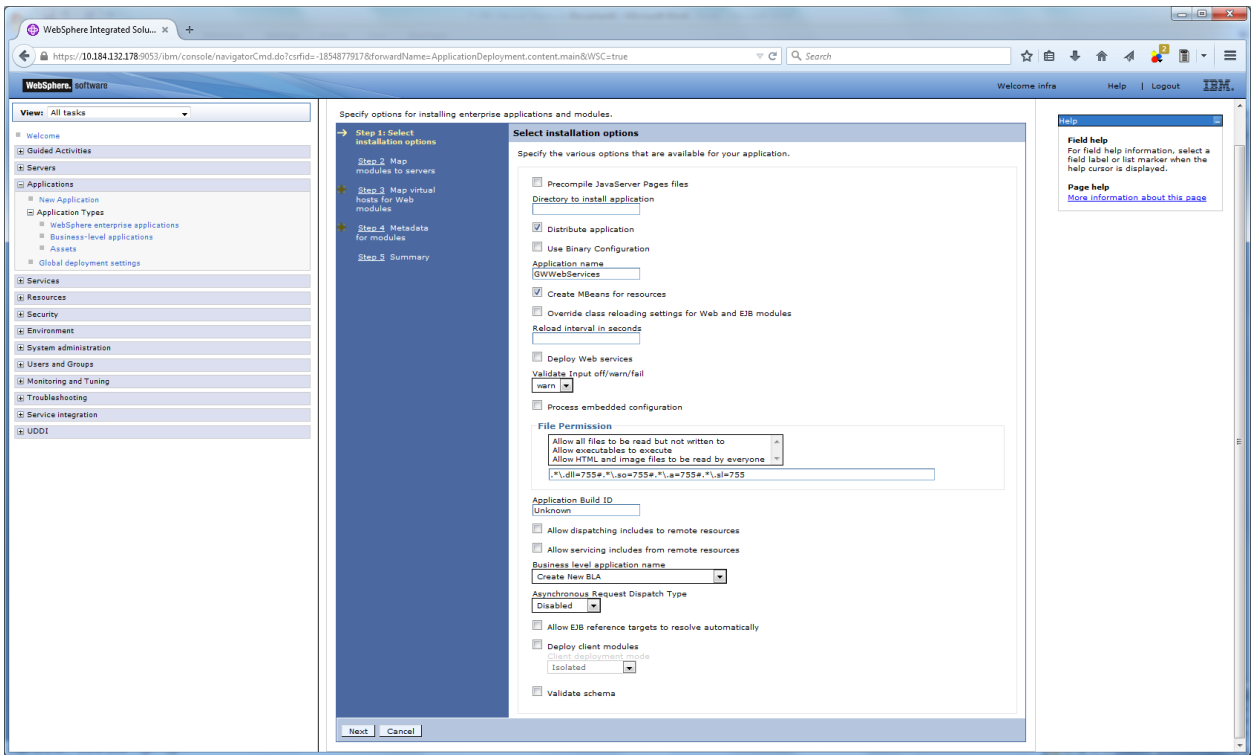
- Click 'New Enterprise Application'.



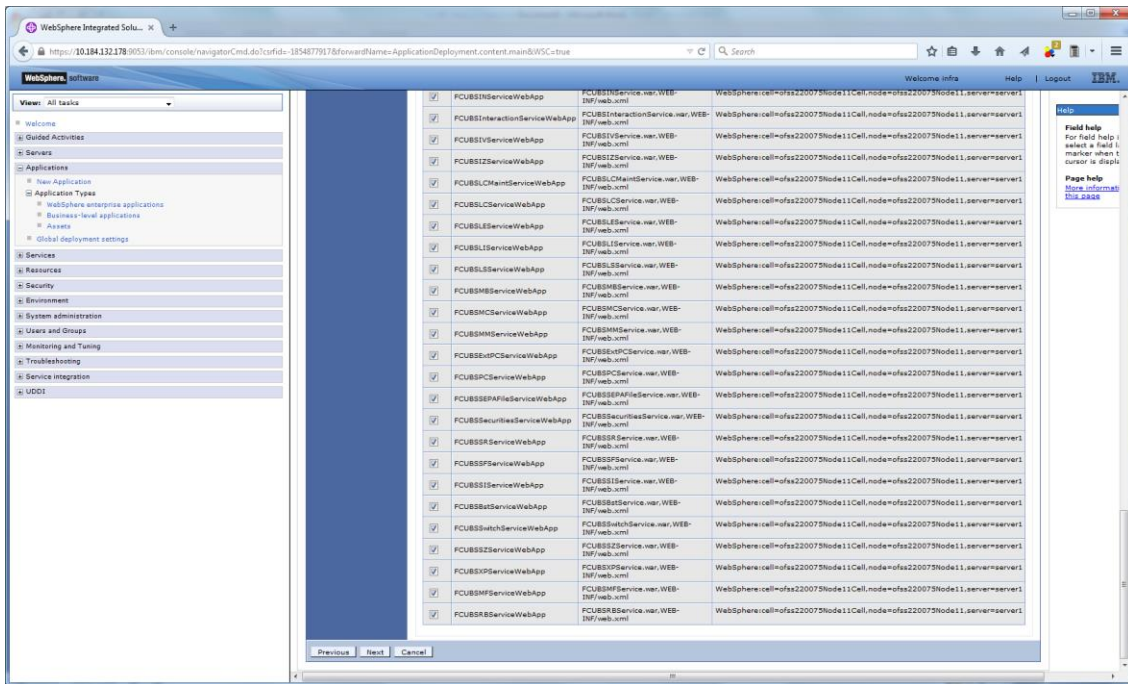
6. Browse the application EAR file and click next button.



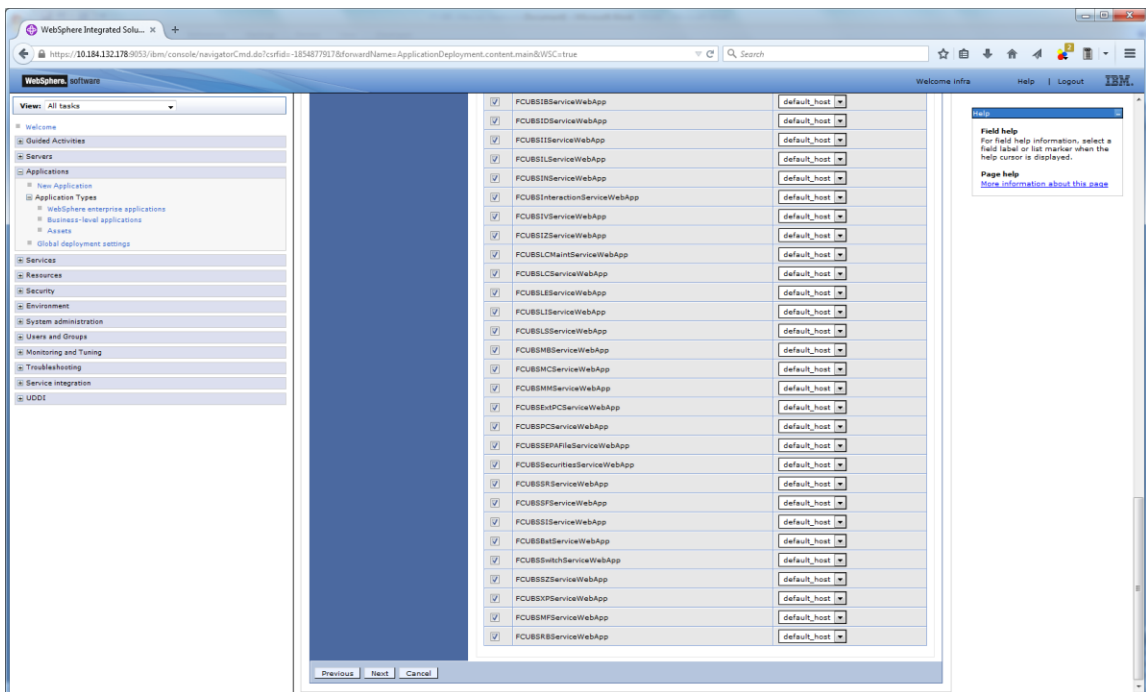
7. Click on next and the following screen is displayed.



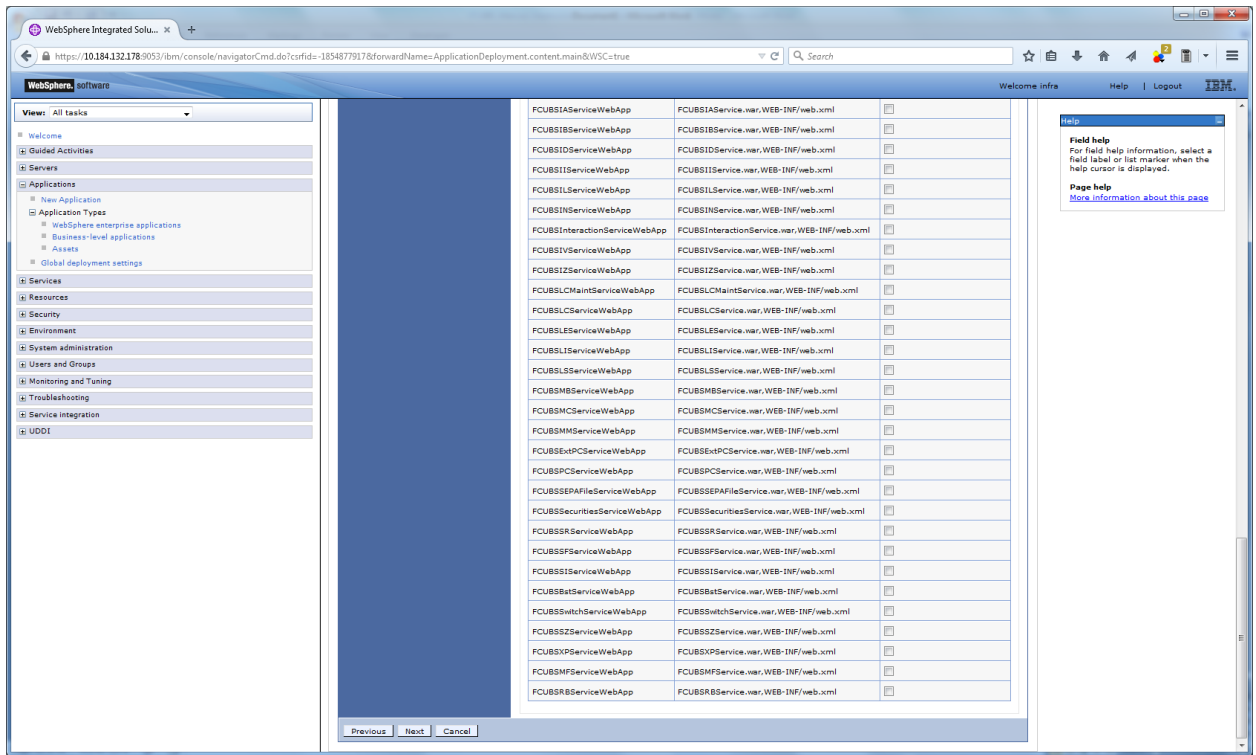
8. Click on next and the following screen is displayed.



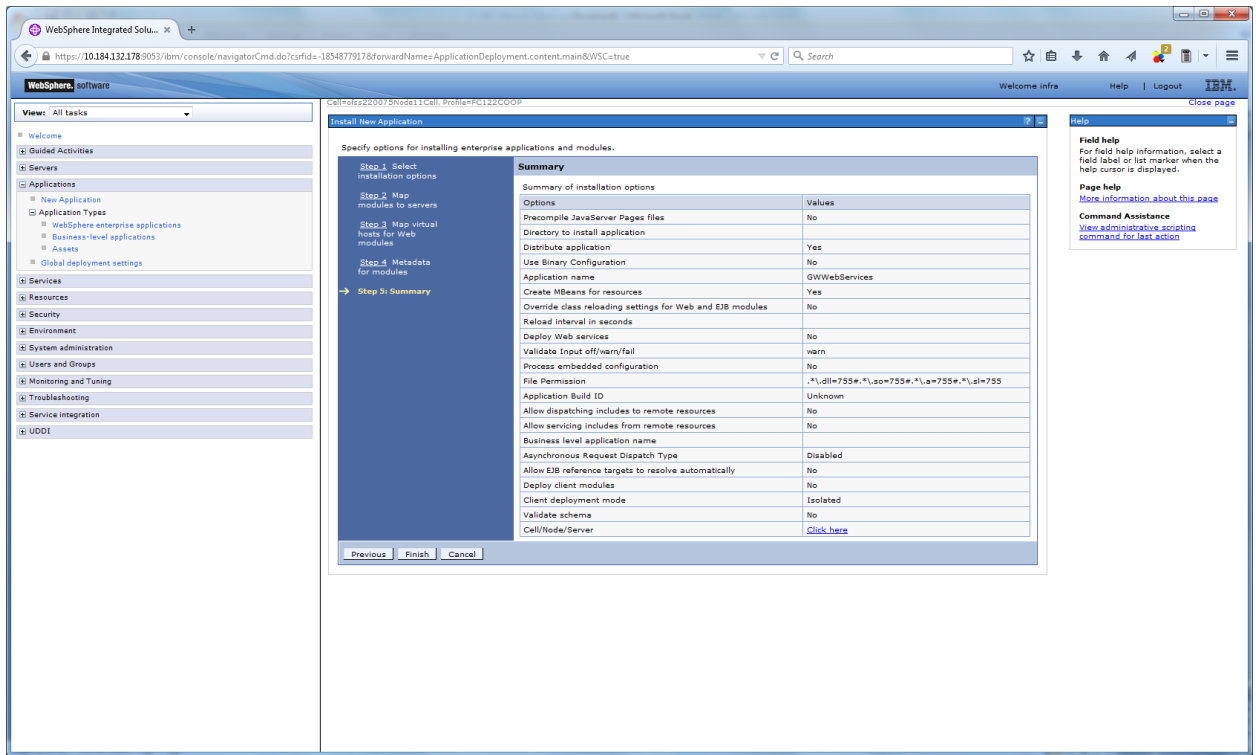
9. Click on next and the following screen is displayed.



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

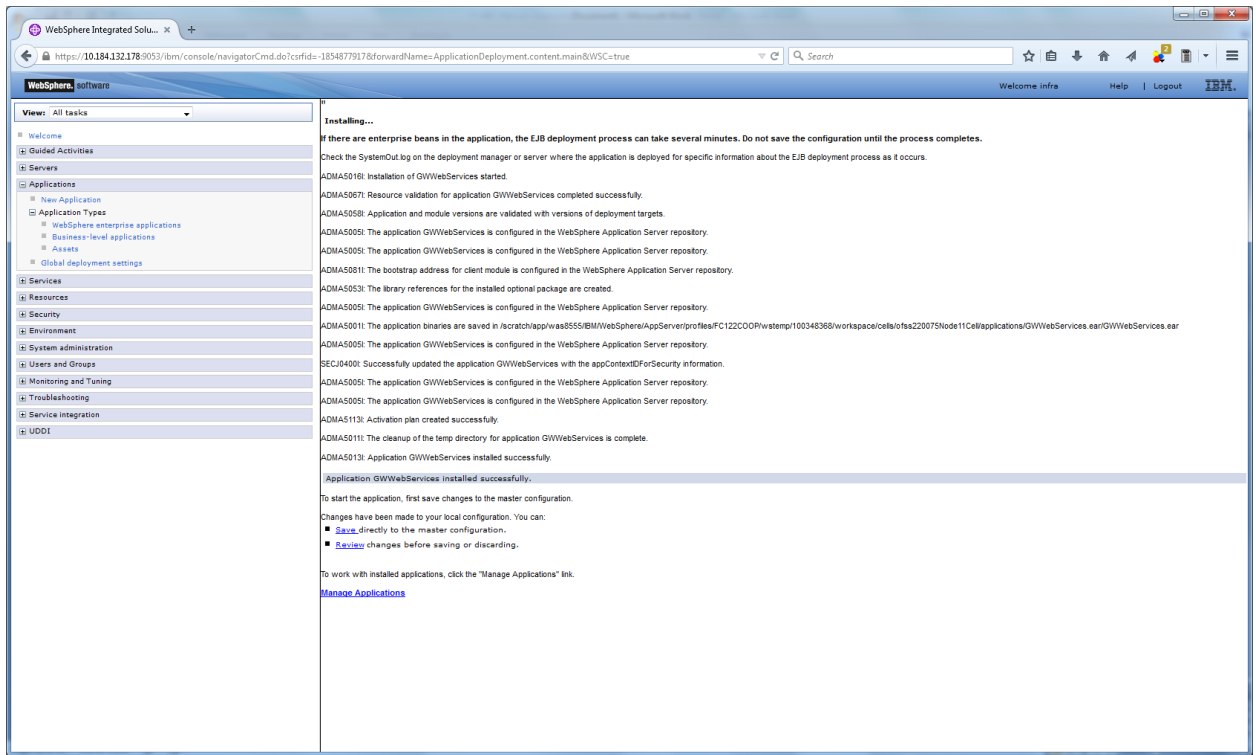


11. Click on next and the following screen is displayed.

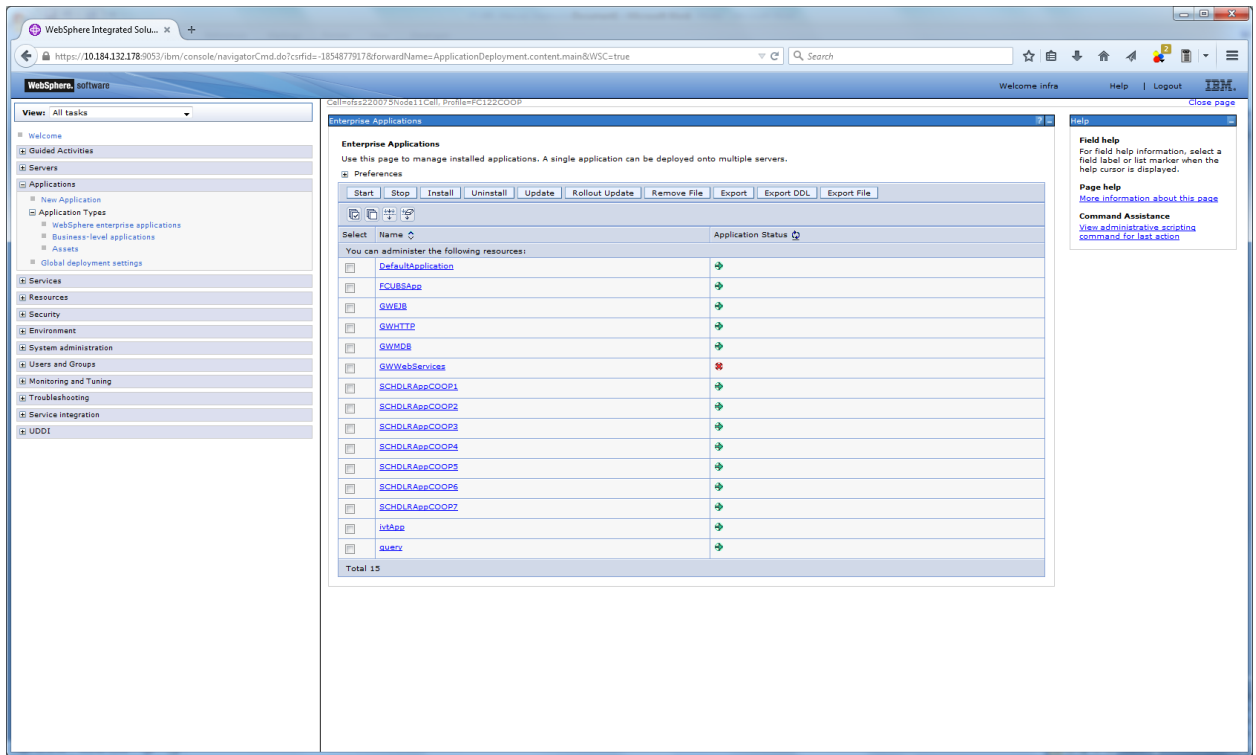




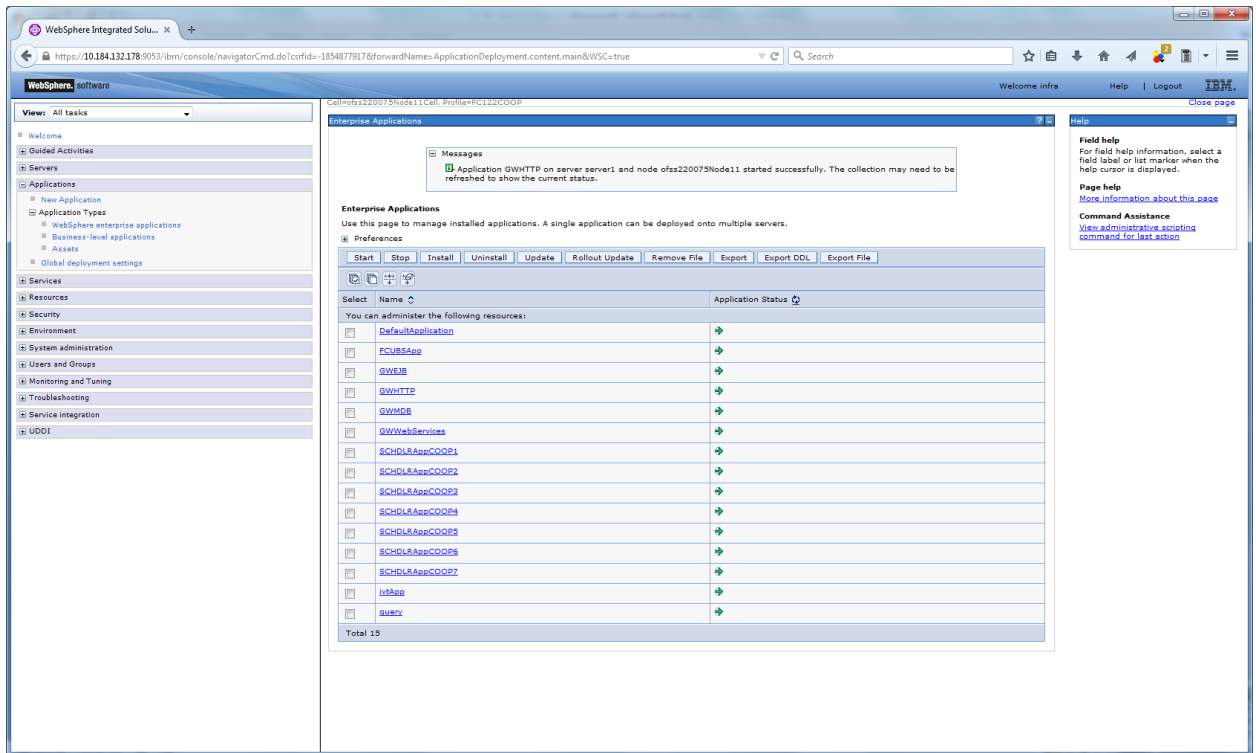
12. Click on finish and the following screen displayed.



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] [2022]  
Version 14.6.0.0.0

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