

Deploying Oracle FLEXCUBE Application on WebSphere
Oracle FLEXCUBE Universal Banking
Release 12.87.7.0.0
[May] [2021]



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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.

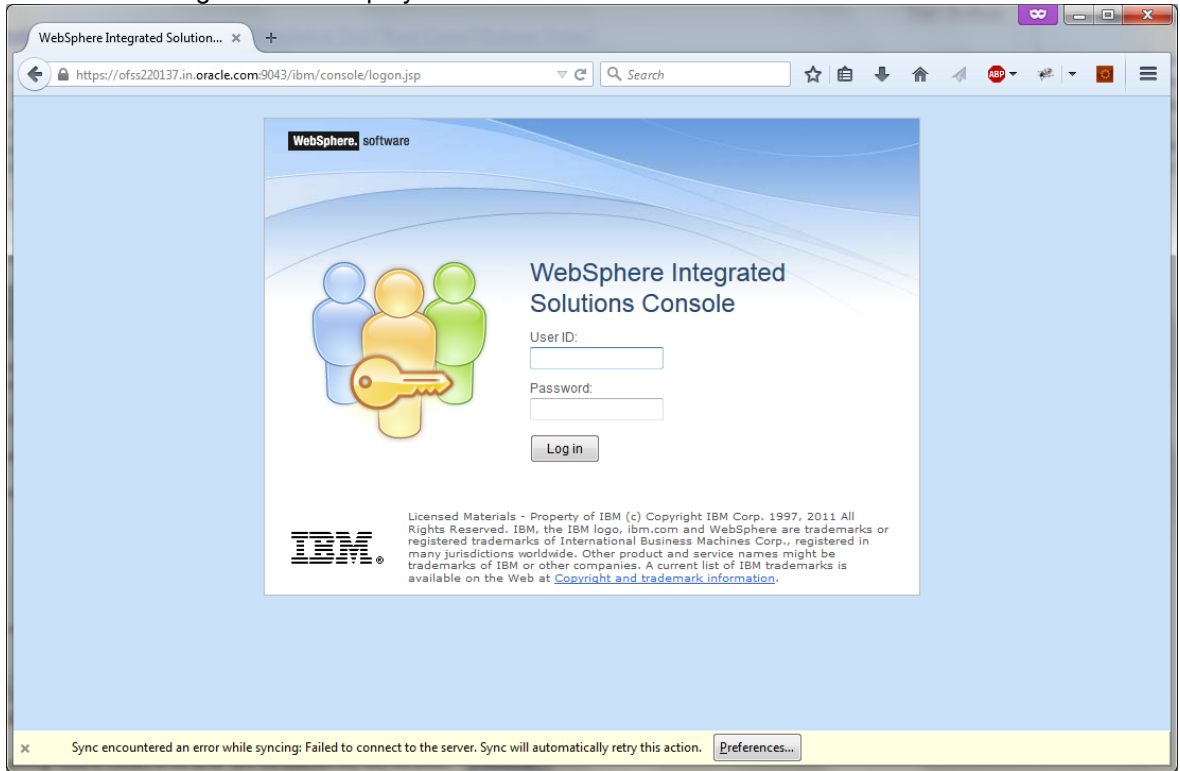
1.2 Deploying Application

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:

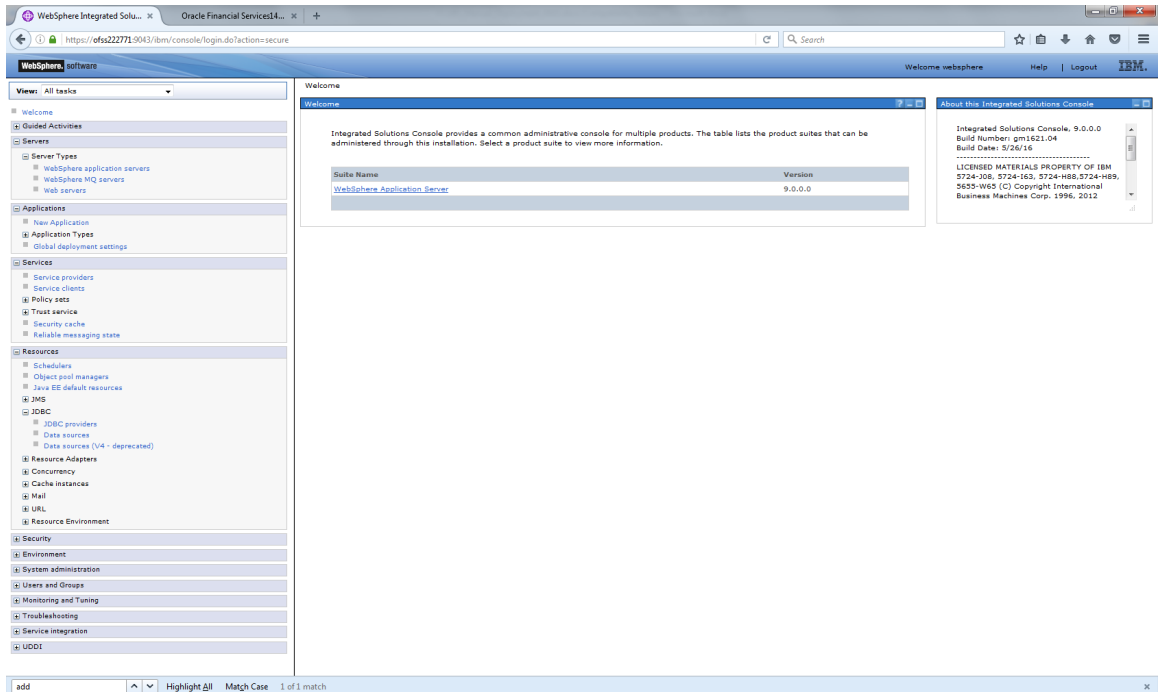
1. Copy Generated Integration Adapter (OBCLExtAdapter.jar or ExtAdapter.jar) to WebSphere Application server {Was_profile}/Extadapter. Eg:
/scratch/IBM8559/WebSphere/AppServer/profiles/BGV8559_01/Extadapter
2. Open the Administrative Console of WebSphere server:
 - Open an internet browser and type the 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'. The 'Preferences' section includes '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, 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

You can administer the following resources:

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

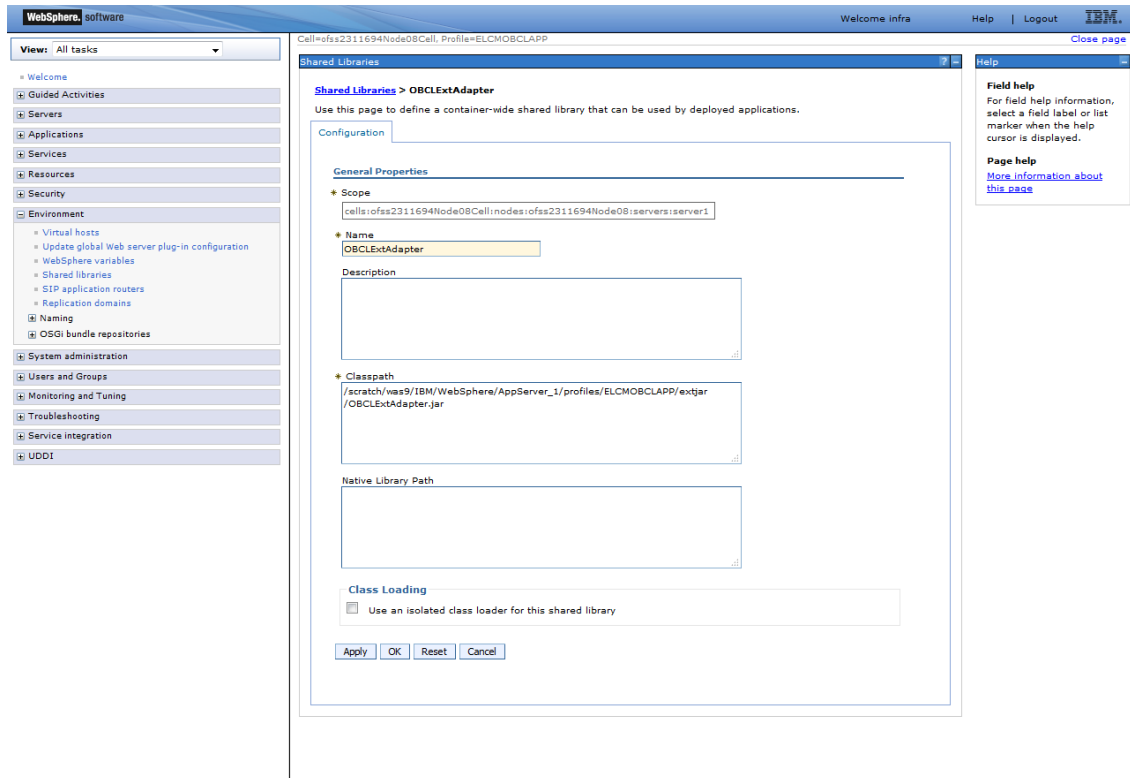
View Administrative scripting command for last action

7. Click on New

The following screen is displayed.

The screenshot shows the WebSphere Administration Console interface. The main window 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 another 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 of the console, 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:

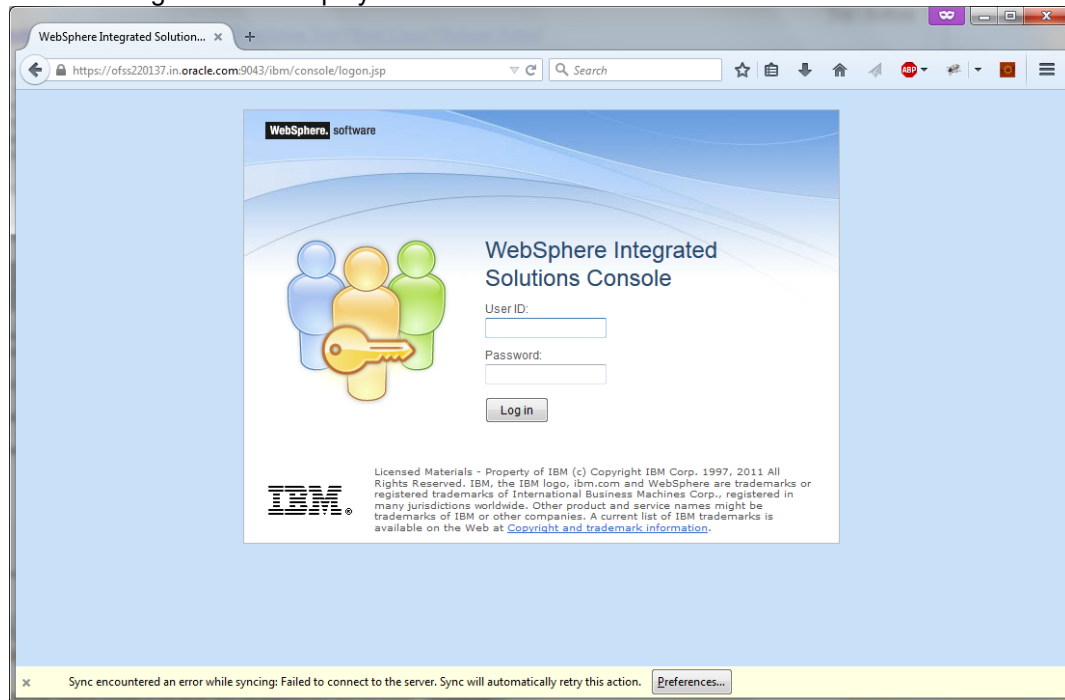
Open an internet browser and type the WebSphere Admin Console URL

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.

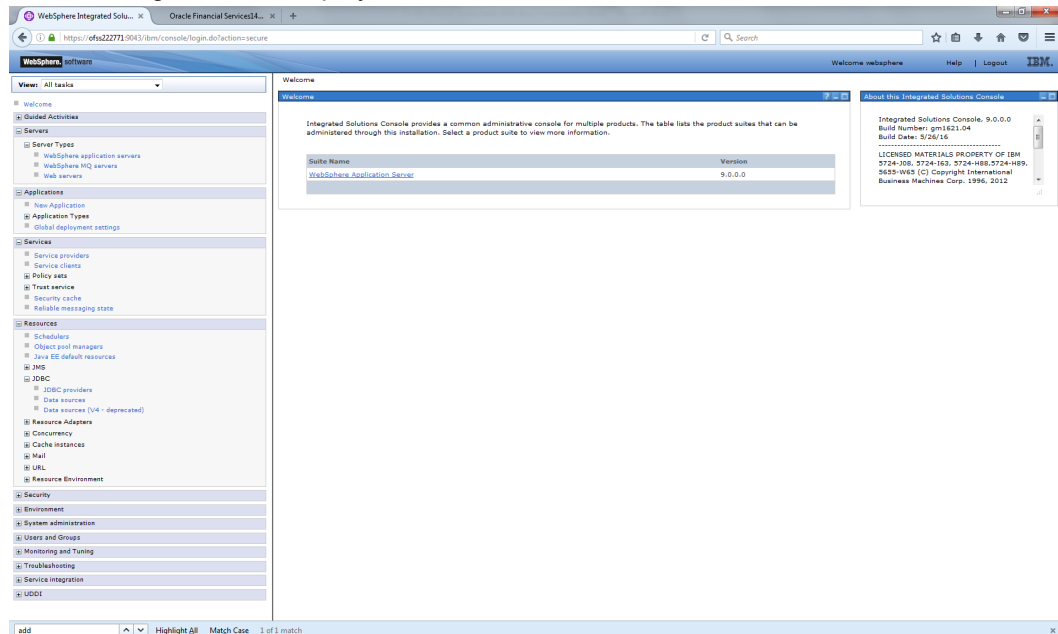
The following screen is displayed:



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

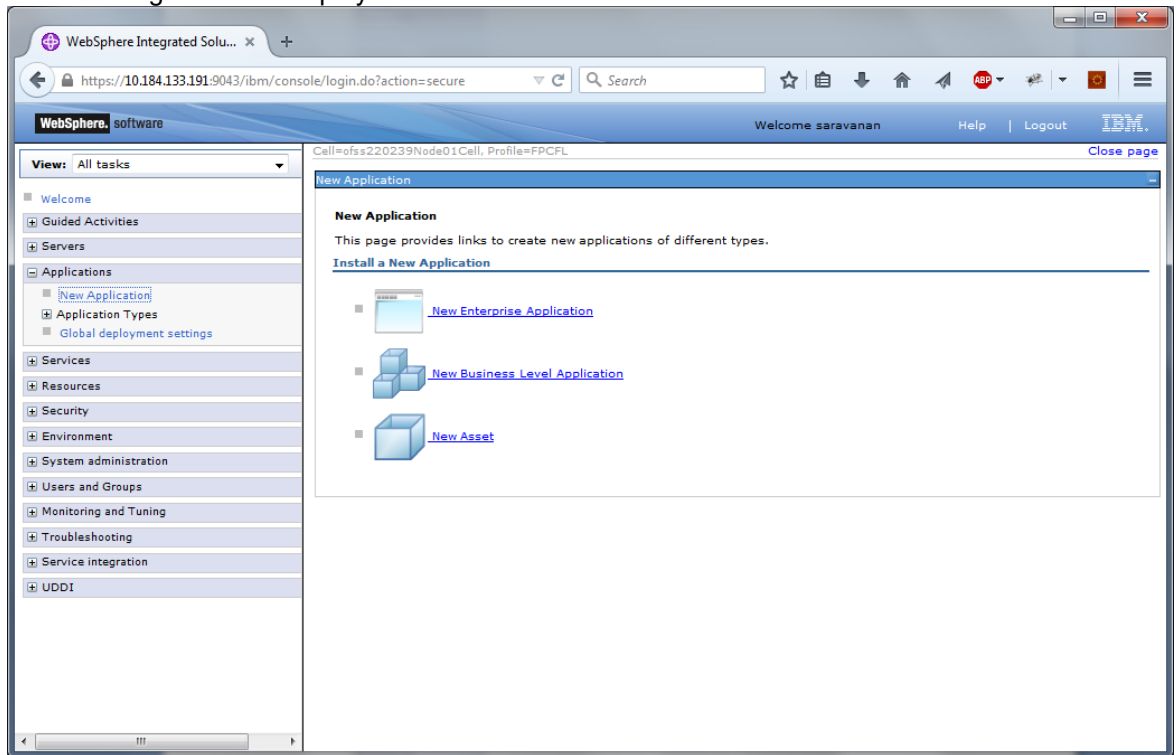
11. Navigate to the WebSphere Home Page.

The following screen is displayed.

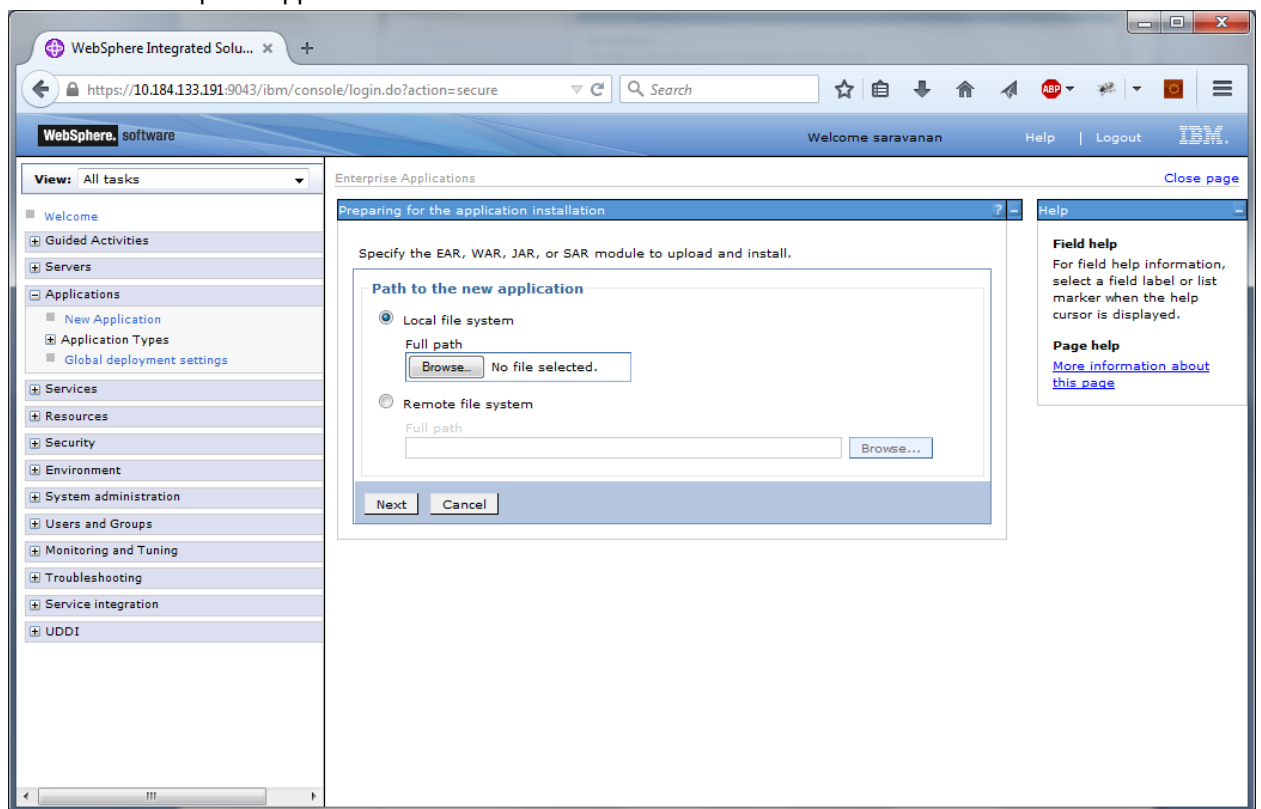


12. Expand Applications from left-side menu and Click 'New Application'.

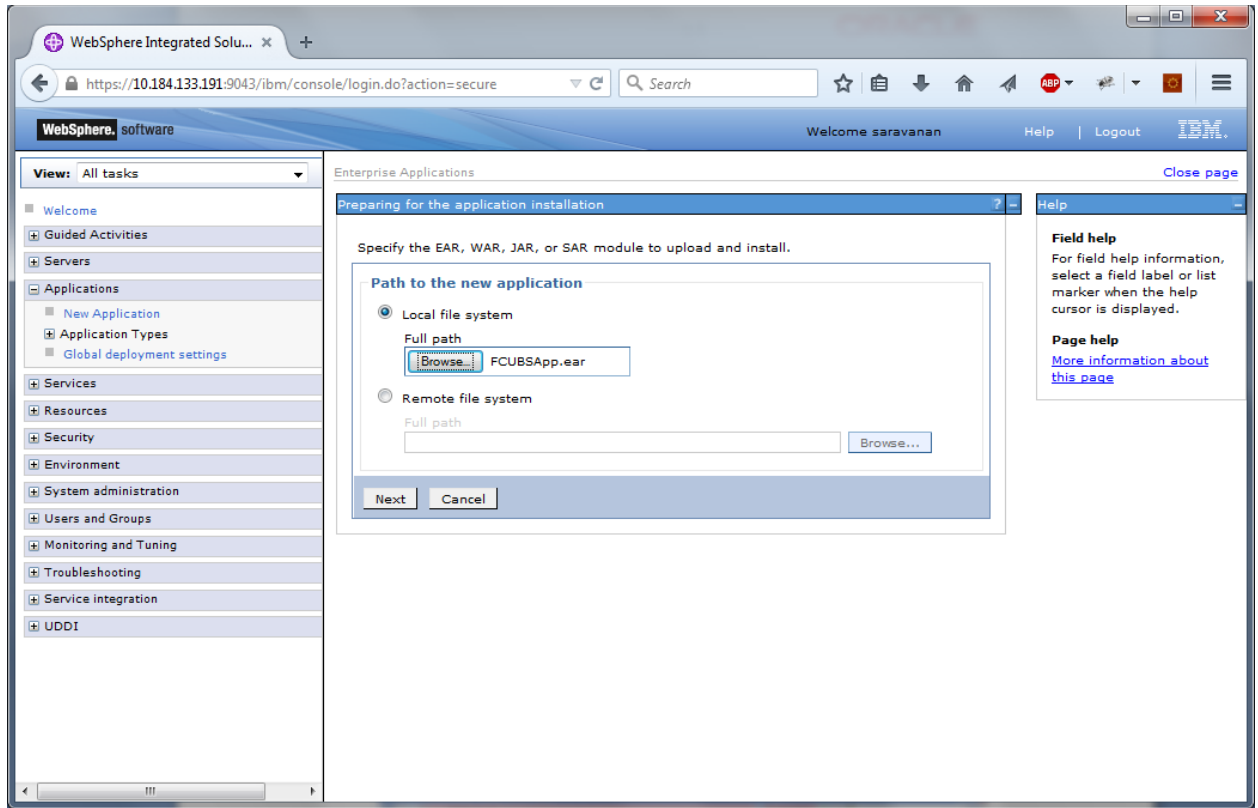
The following screen is displayed.



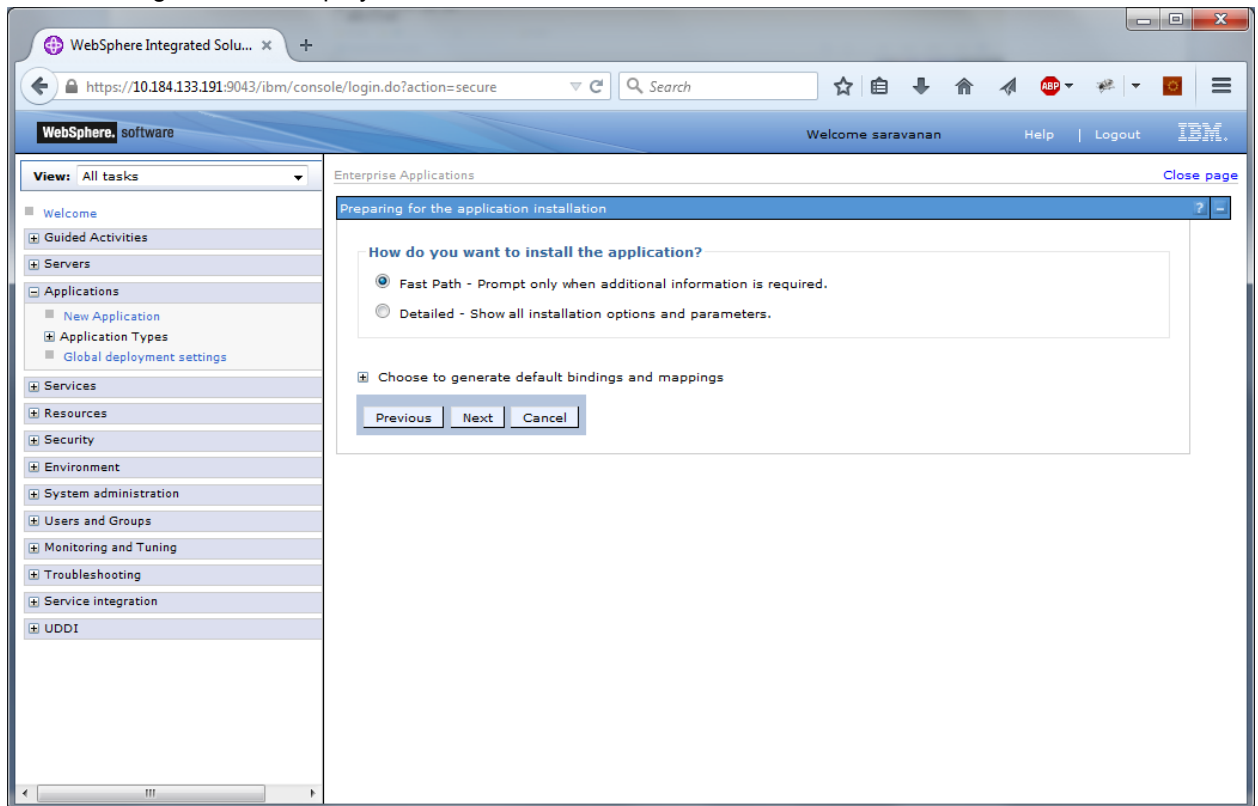
13. Click 'New Enterprise Application'.



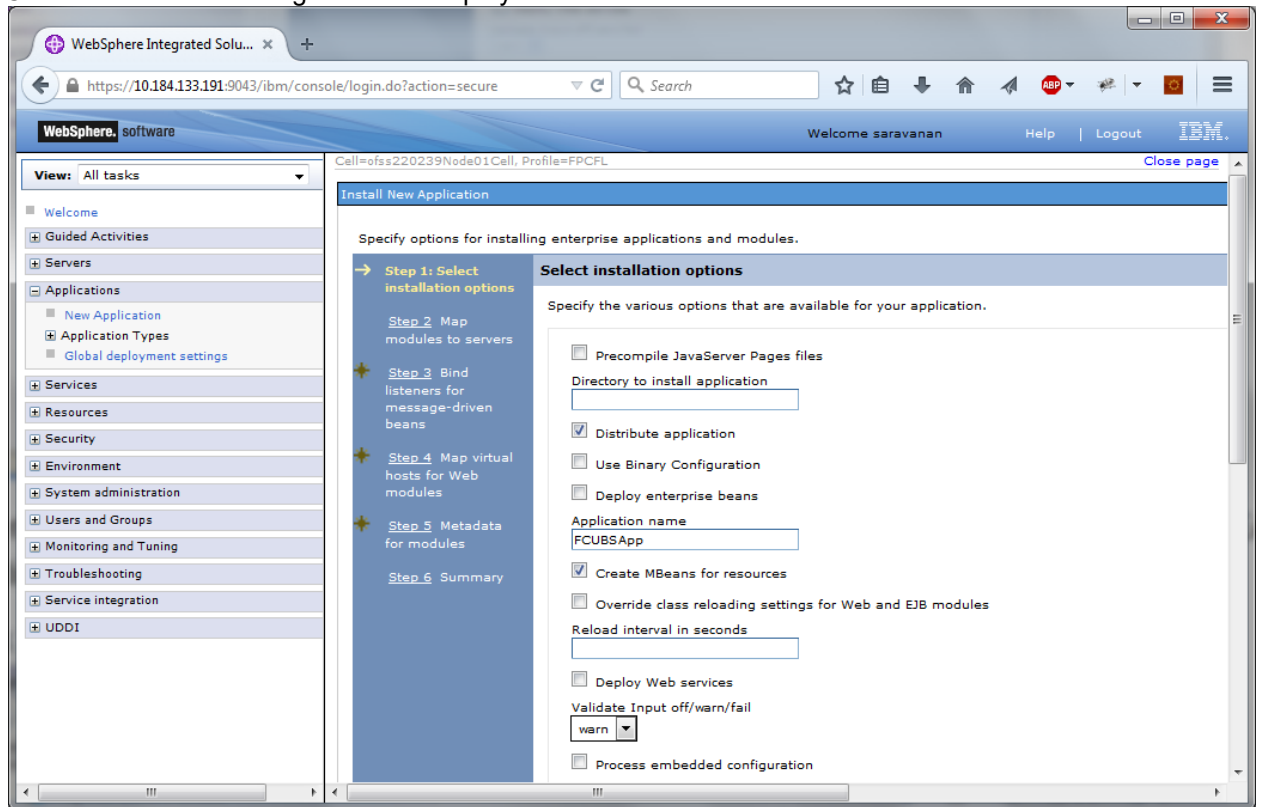
14. Browse the application EAR file and click next button



The following screen is displayed.

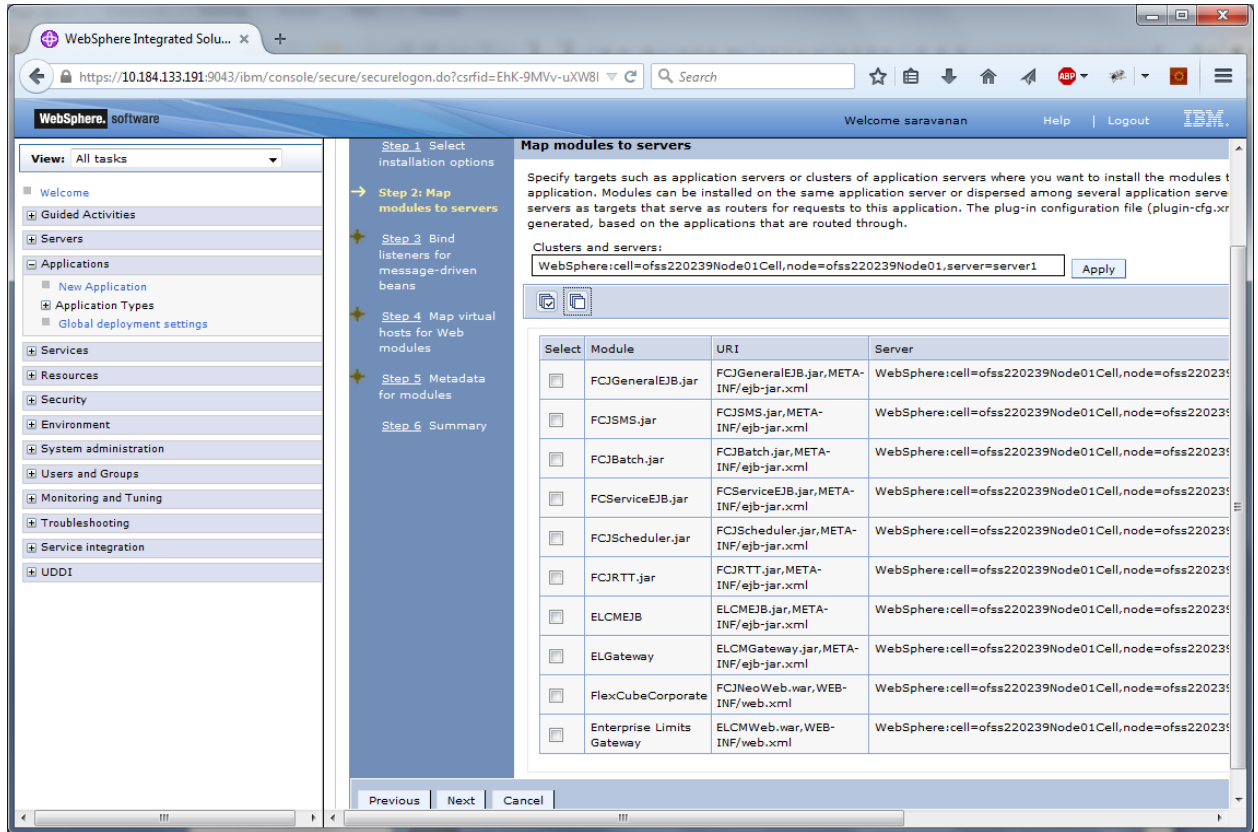


15. Click 'Next'. The following screen is displayed.

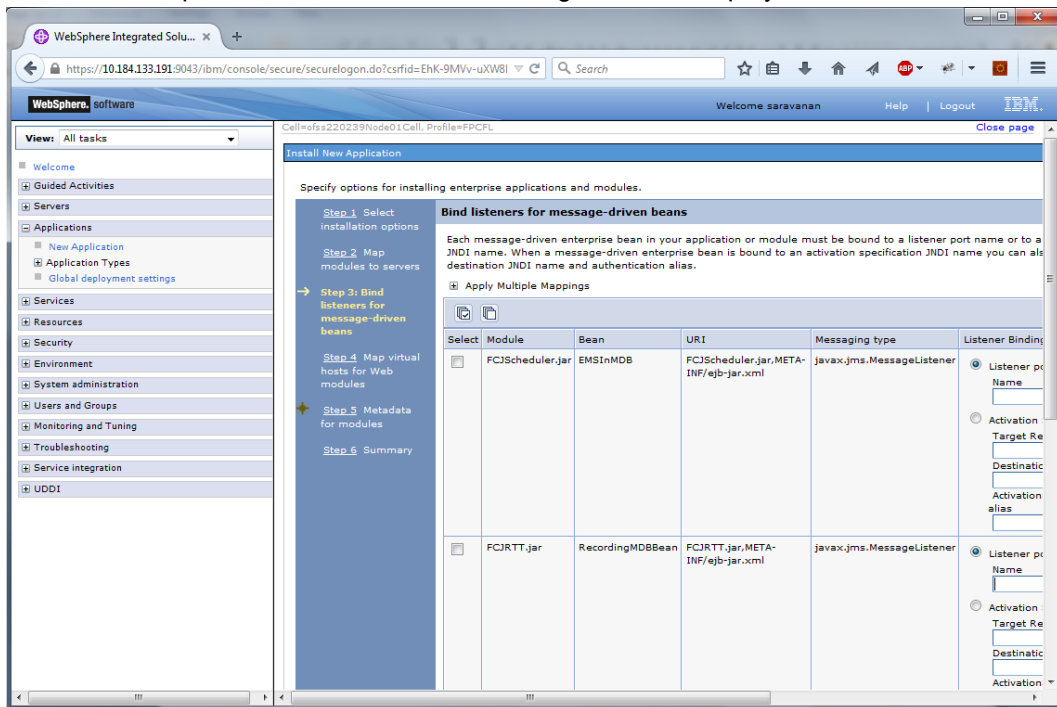


16. Enter the Application Name. This should be the application name mentioned as part of EAR building.

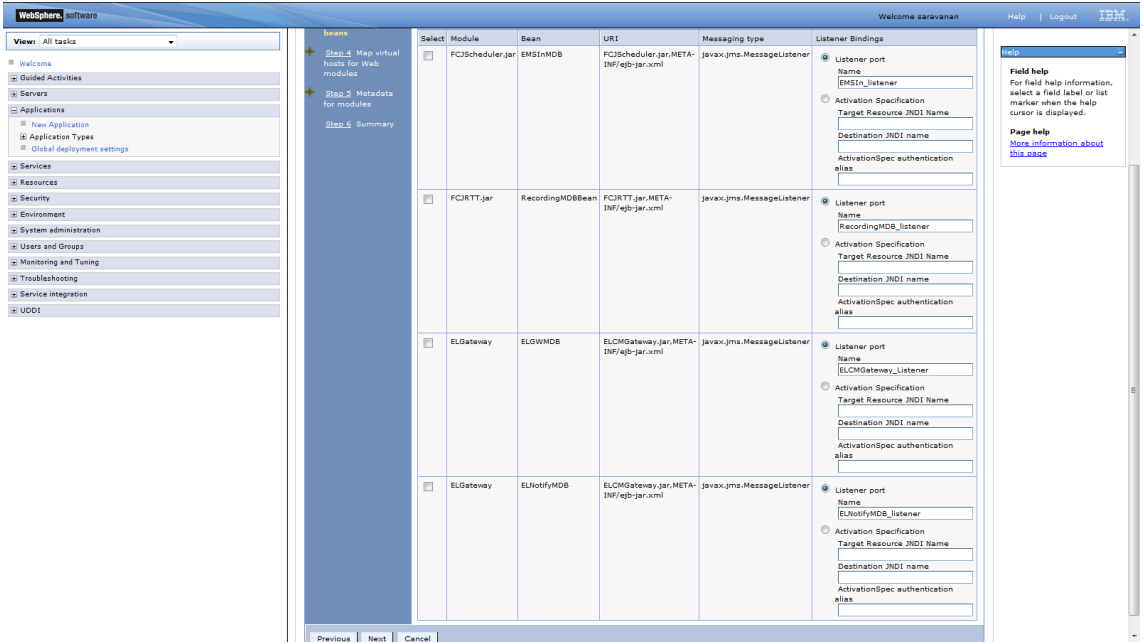
17. Click 'Next'.



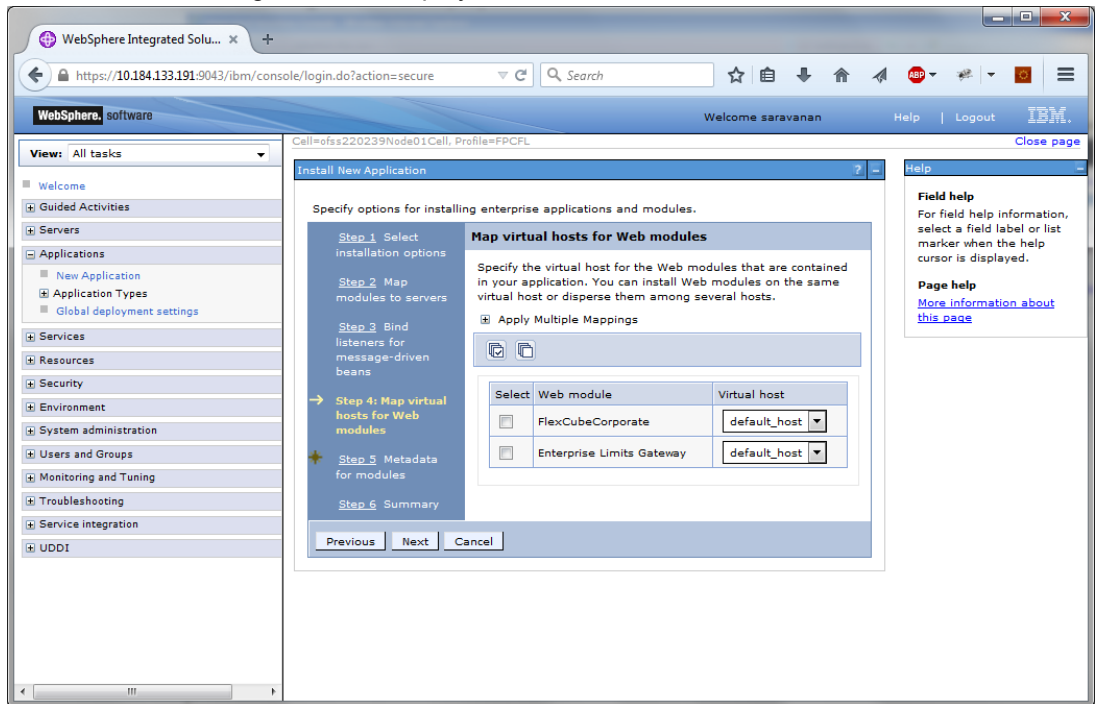
18. Check all the options. Click 'Next'. The following screen is displayed.



19. Specify the details as shown in the figure.

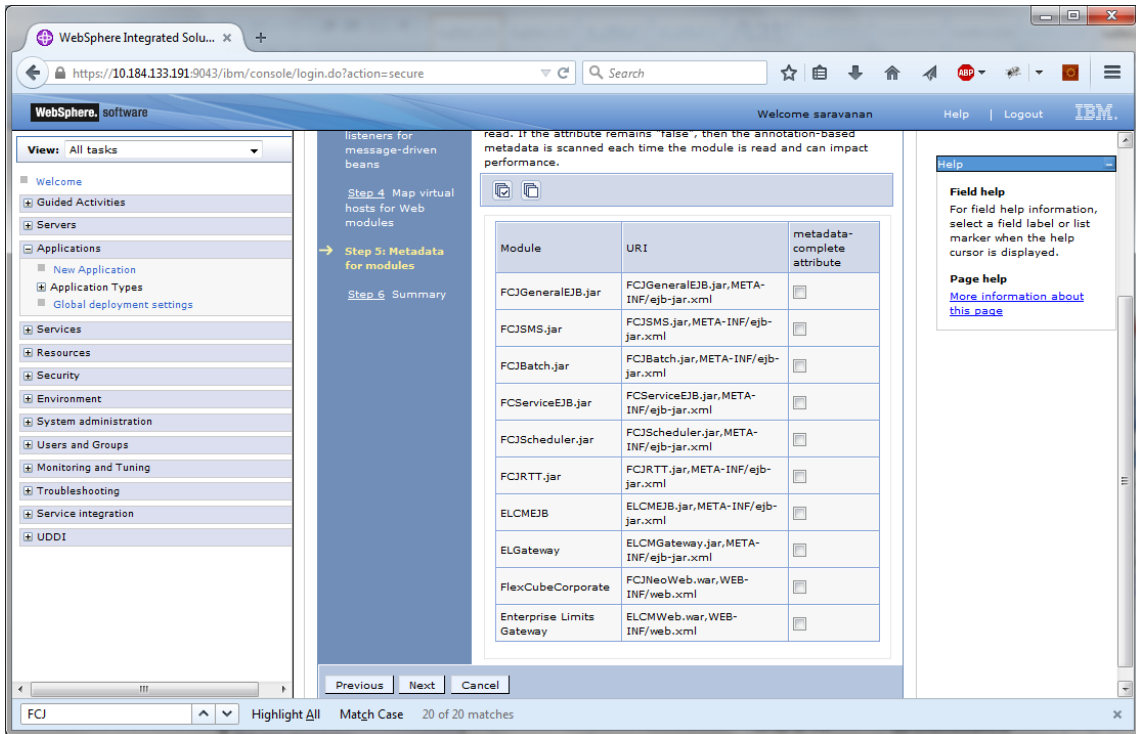


20. Click 'Next'. Following screen is displayed

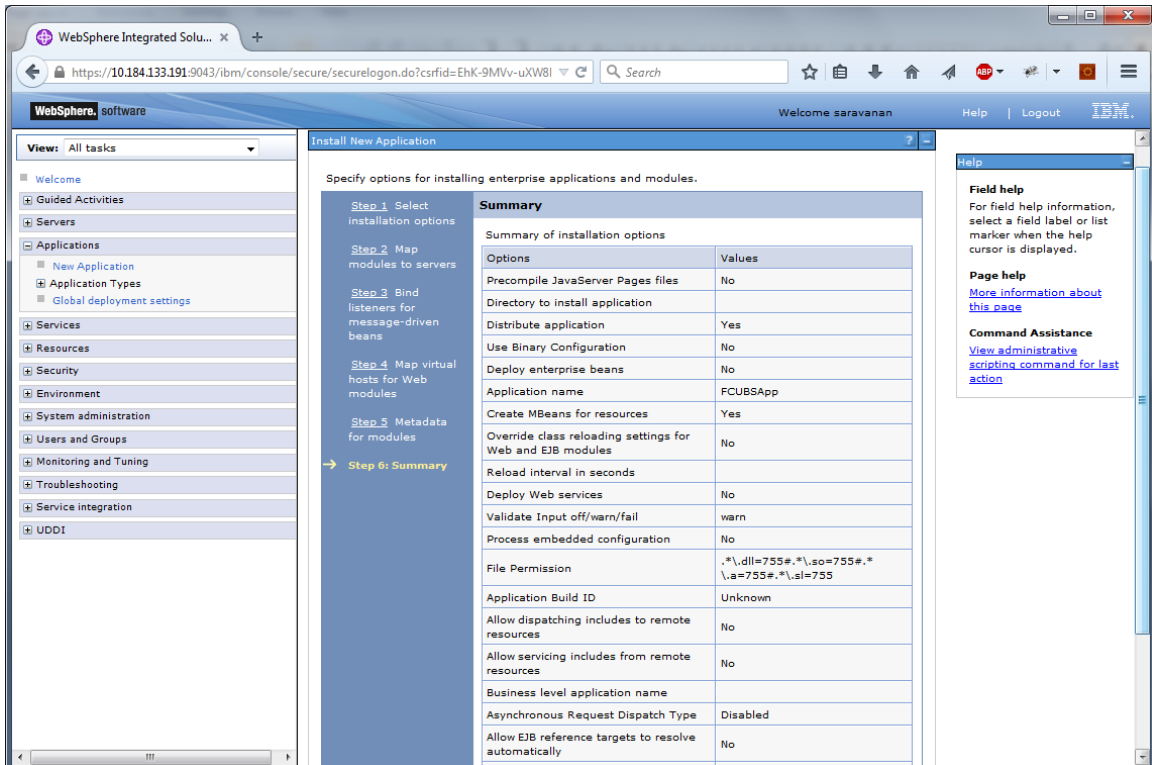


21. Click 'Next'.

The following screen is displayed.

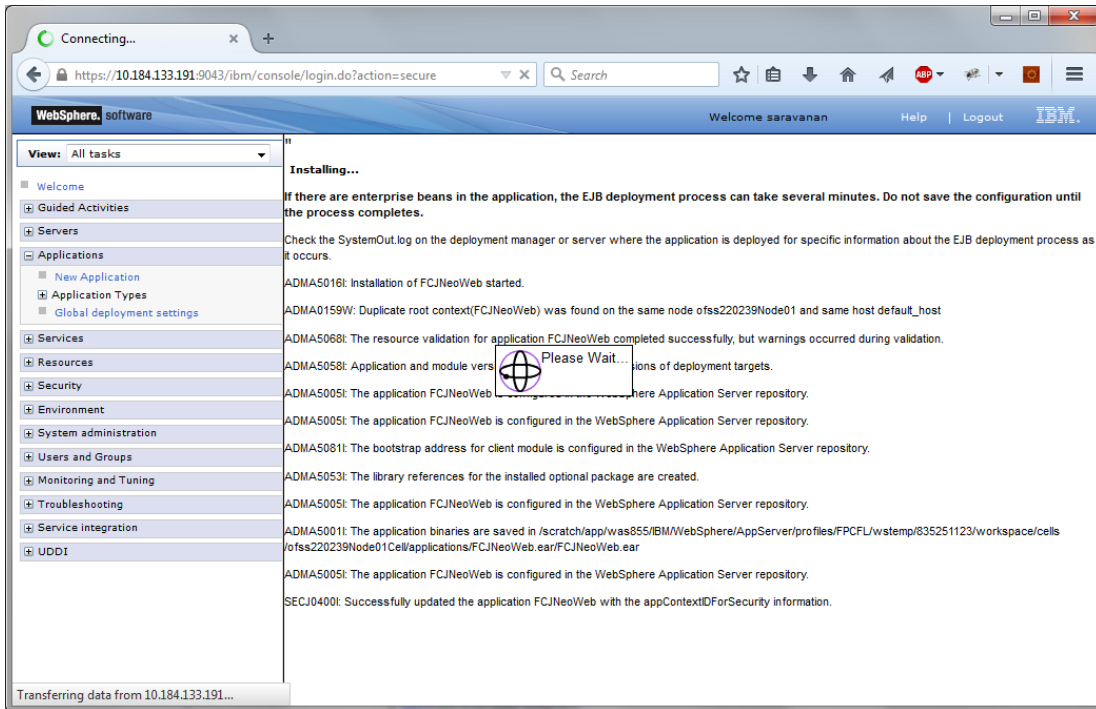


Click next.

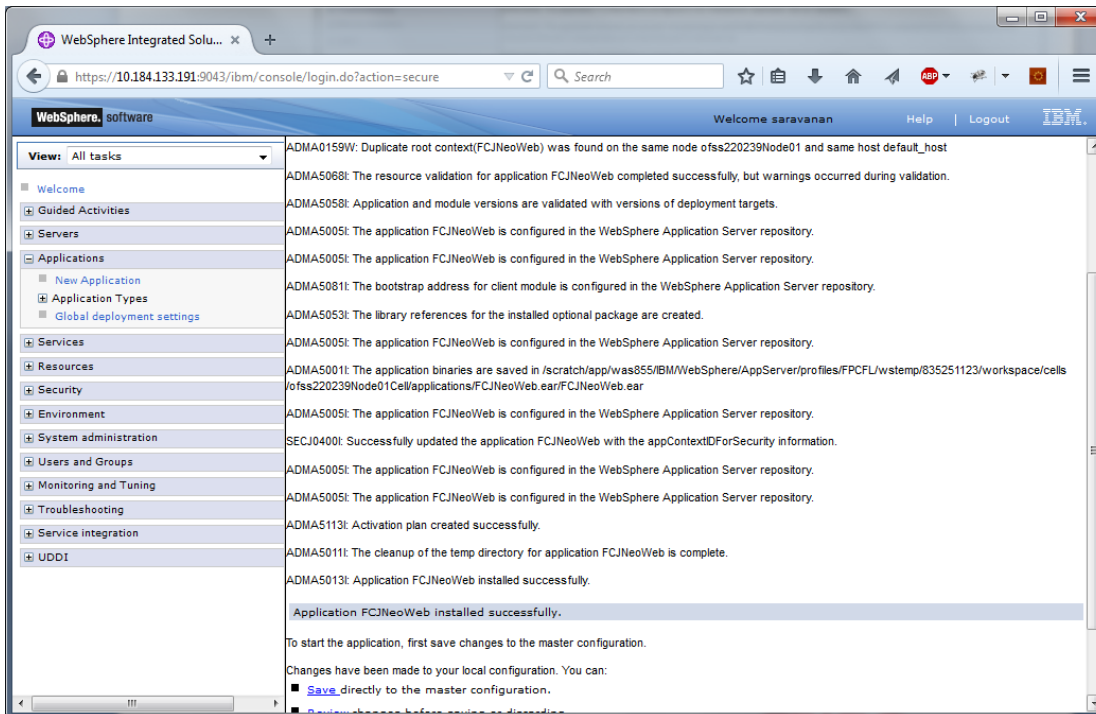


22. Click 'Finish'.

The following screen is displayed.

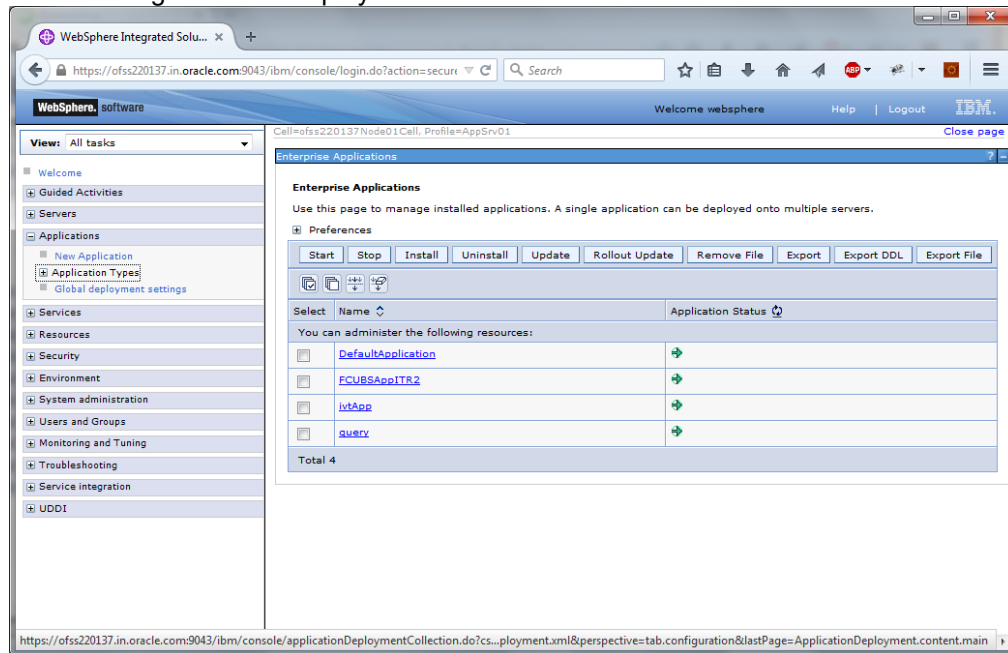


Wait for few seconds...



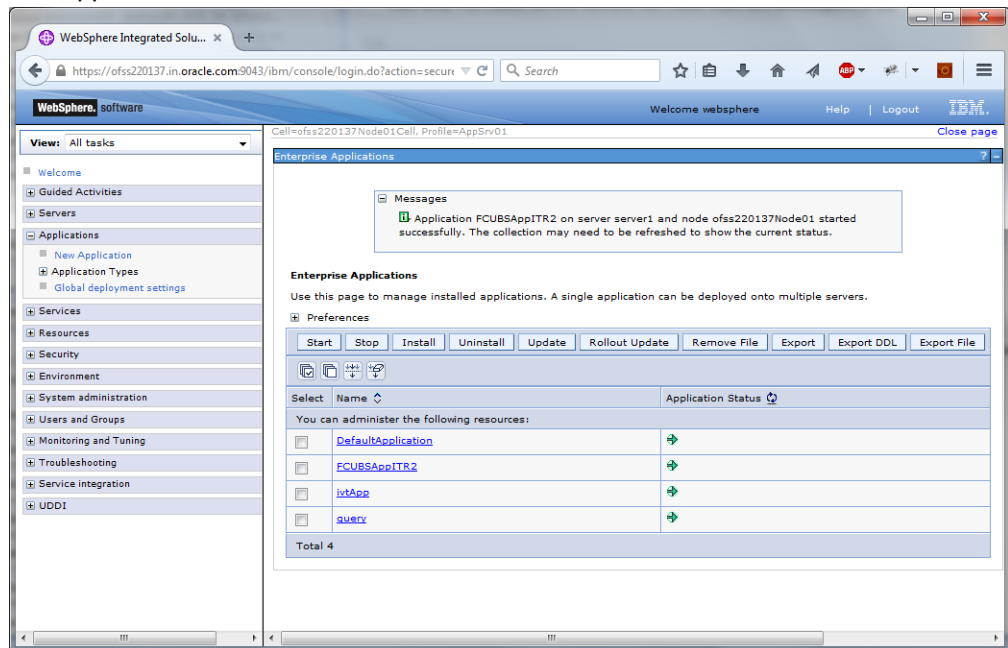
23. Click 'Save'.

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.

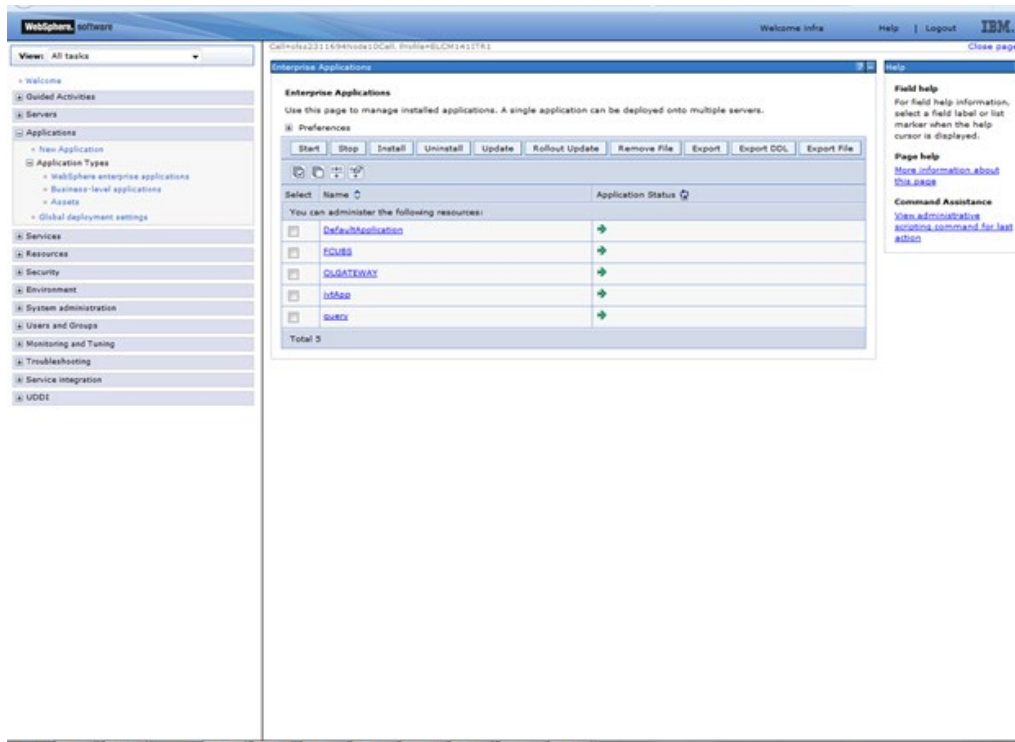
1.2.3 Link the adapter (Shared Libraries) to the Application

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

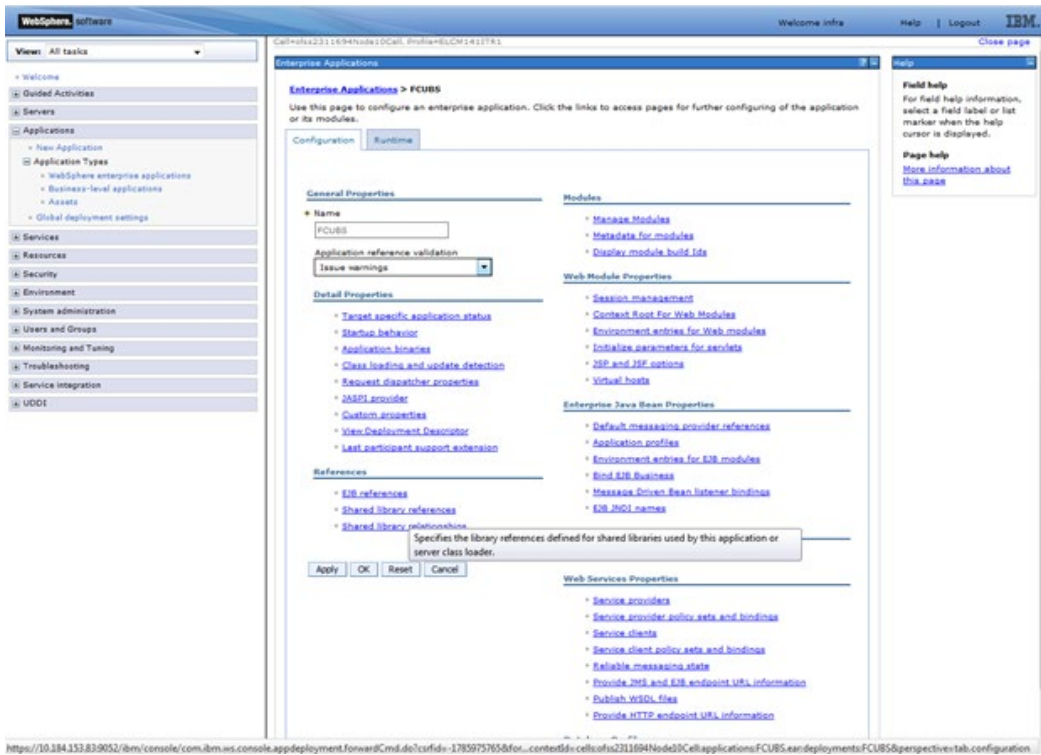
3. Eg: <https://10.10.10.10:1010/console>
4. In the above example, 10.10.10.10 is the machine IP address on which WebSphere is running

Go to Applications → Application types → WebSphere enterprise applications →

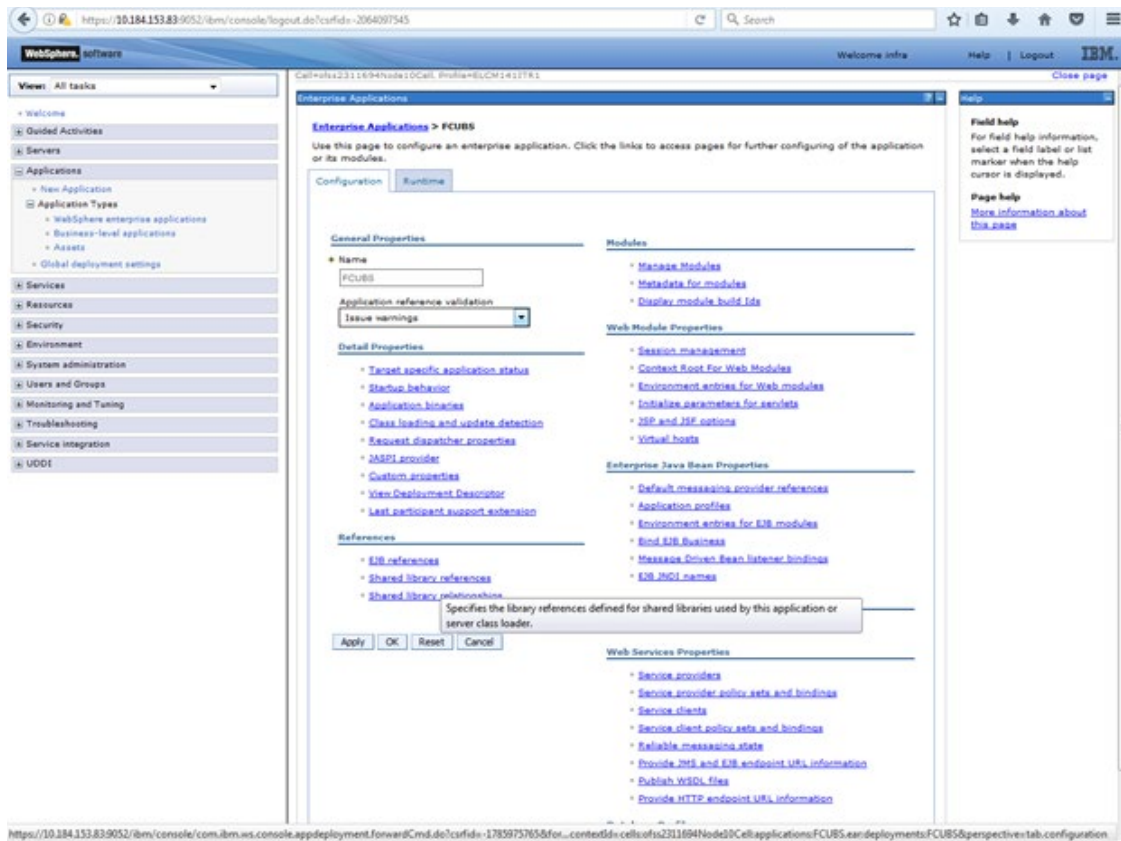
Click on the resource where the adapter to be added (here it is FCUBS)



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 infra Help | Logout IBM

CellProfile:2311634Node10Cell_Profile:ELCM1412781 Close page

View: All tasks

- 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 > FCUBS

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**
FCUBS
- Application reference validation
Issue warnings
- **Detail Properties**
 - Target specific application status
 - Startup behavior
 - Application binaries
 - Class loading and update detection
 - Request dispatcher properties
 - JAX-WS provider
 - Custom properties
 - Web Deployment Descriptor
 - Last participant support extension
- **References**
 - EJB references
 - Shared library references
 - Shared library relationships

Modules

- Manage Modules
- Metadata for modules
- Display module build Ids
- **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 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 URL information
 - Publish WSDL files
 - Provide HTTP endpoint URL information

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

Apply OK Reset Cancel

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](#)

WebSphere software

Welcome info Help Logout IBM

View: All tasks

Enterprise Applications > EEUBS > Shared Library references > Shared Library Mapping

Map shared libraries to an entire application or to one or more modules.

Map libraries to the application or module listed

PCUBS

Select the library in the Available list. Move it to the Selected list by clicking >>.

Available: Selected: OBCLC=Adapter

New...

OK Cancel

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](#)

Virtual hosts
Update global web server plug-in configuration
WebSphere variables
Shared libraries
EIP application routers
Application domains

OSGI bundle repositories

System administration
Users and Groups
Monitoring and Tuning
Troubleshooting
Service integration
UDDI

Click ok

WebSphere software

Welcome info Help Logout IBM

Cell=nlx221 (6947ed410ca8, Profile=ELCM141271)

Items: All tasks

Enterprise Applications > FCUBS > Shared library references

Shared Library Mapping for Modules

Specify shared libraries that the application or individual modules reference. These libraries must be defined in the configuration at the appropriate scope.

Reference shared libraries

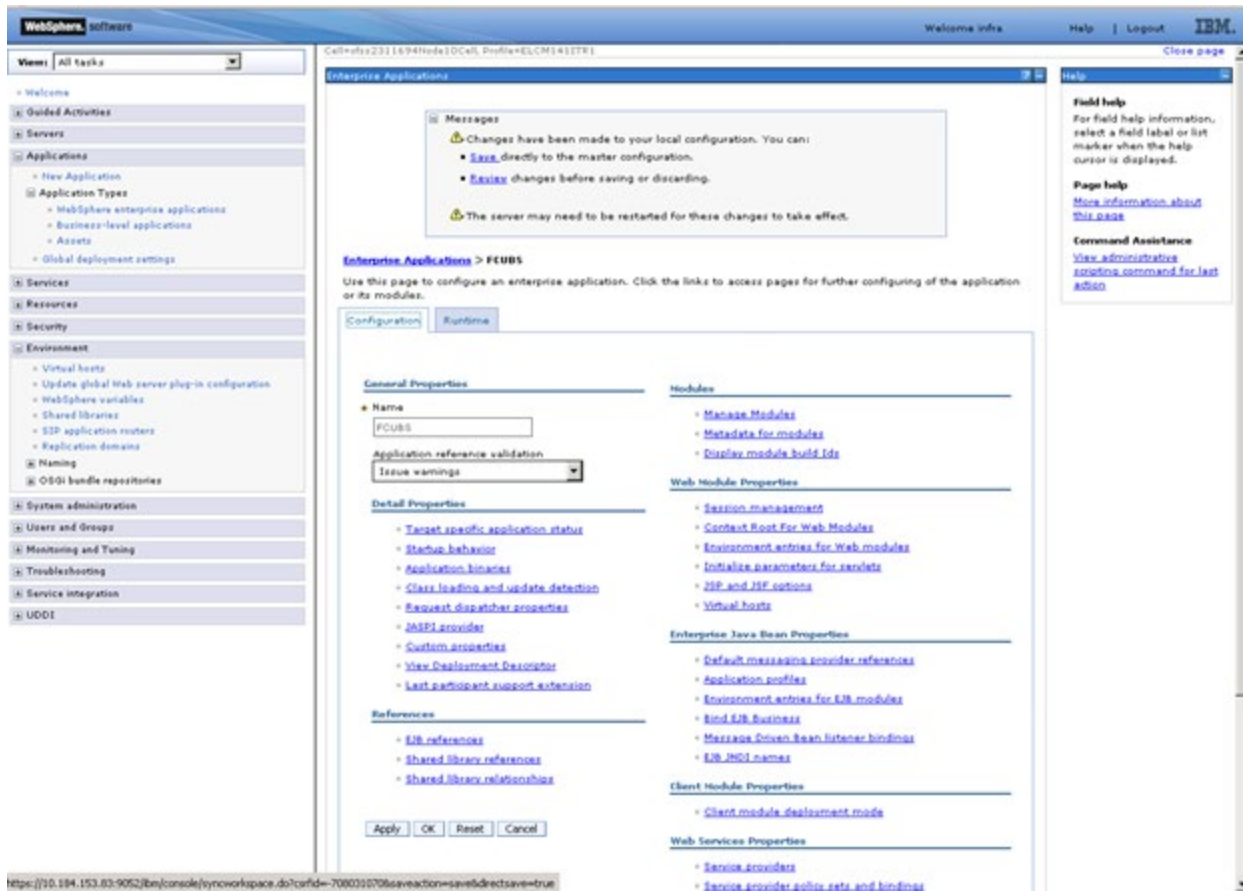
Selected: Application	URI	Shared Libraries
<input type="checkbox"/> FCUBS	META-INF/application.xml	OS-CLMAdapter
Selected: Module	URI	Shared Libraries
<input type="checkbox"/> FlexCubeCorporate	FCNeoWeb.var,WEB-INF/web.xml	
<input type="checkbox"/> Enterprise Limits Gateway	ELCMWeb.var,WEB-INF/web.xml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

OK Cancel

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 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:

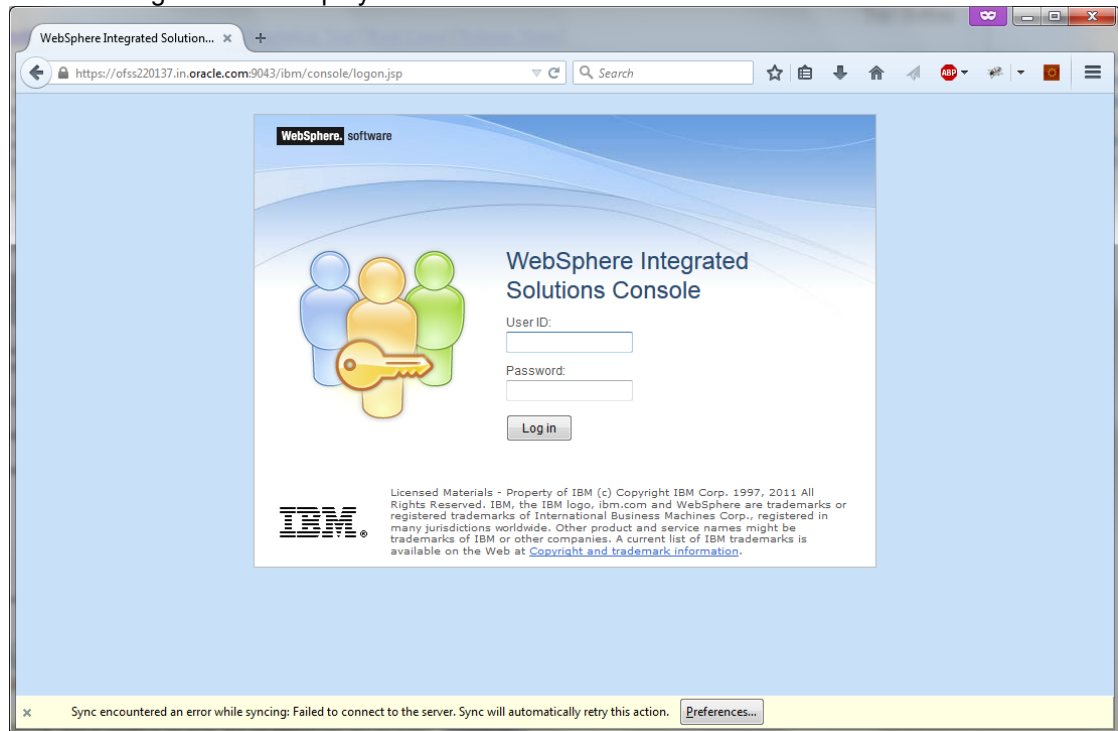
1. Open the Administrative Console of WebSphere server:

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

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

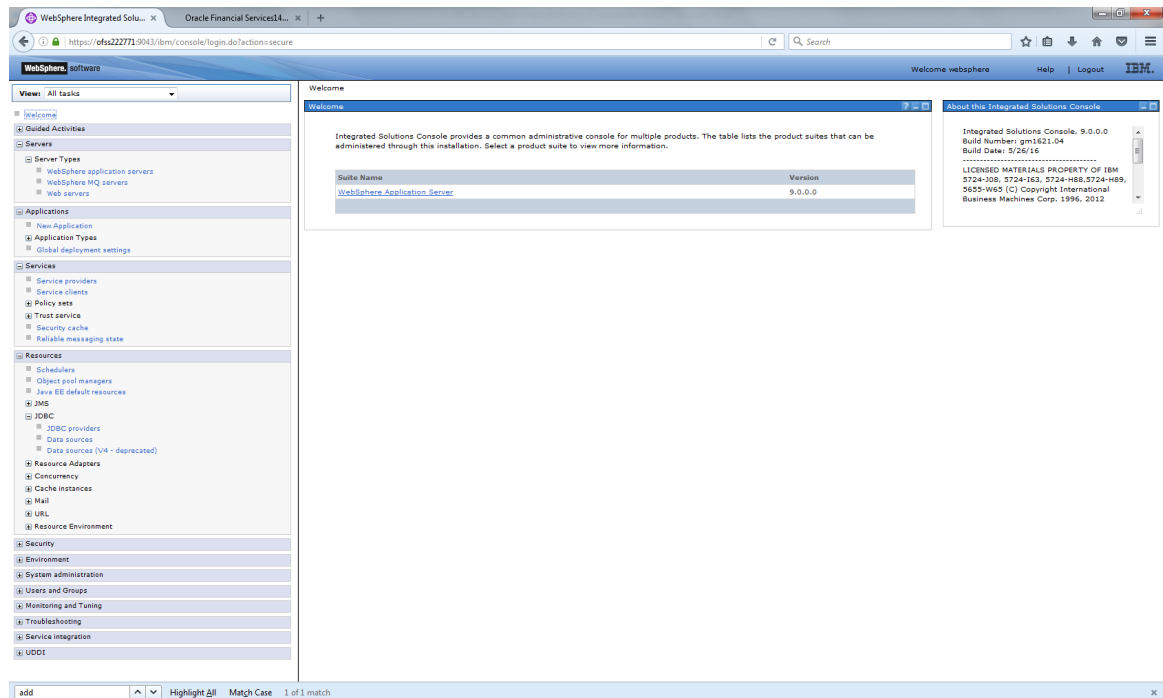
In the above example, 10.10.10.10 is the machine IP address on which WebSphere is running.

The following screen is displayed:



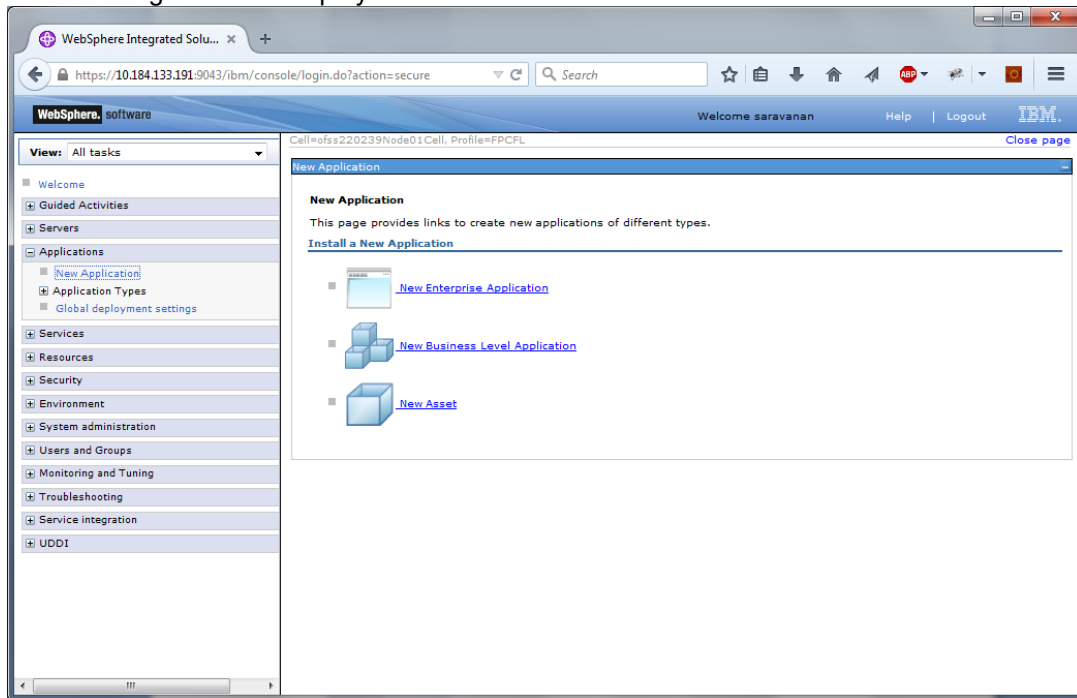
2. Enter the user name and password and click 'Log In' to log in to the application server.
3. Navigate to the WebSphere Home Page.

The following screen is displayed.

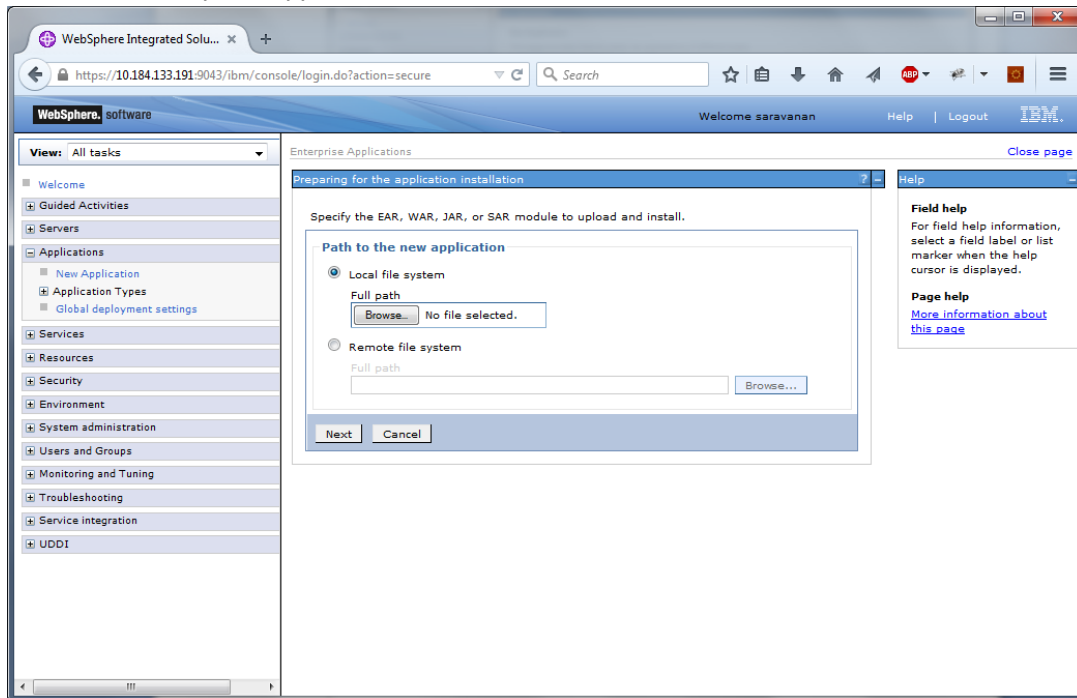


4. Expand Applications from left-side menu and Click 'New Application'.

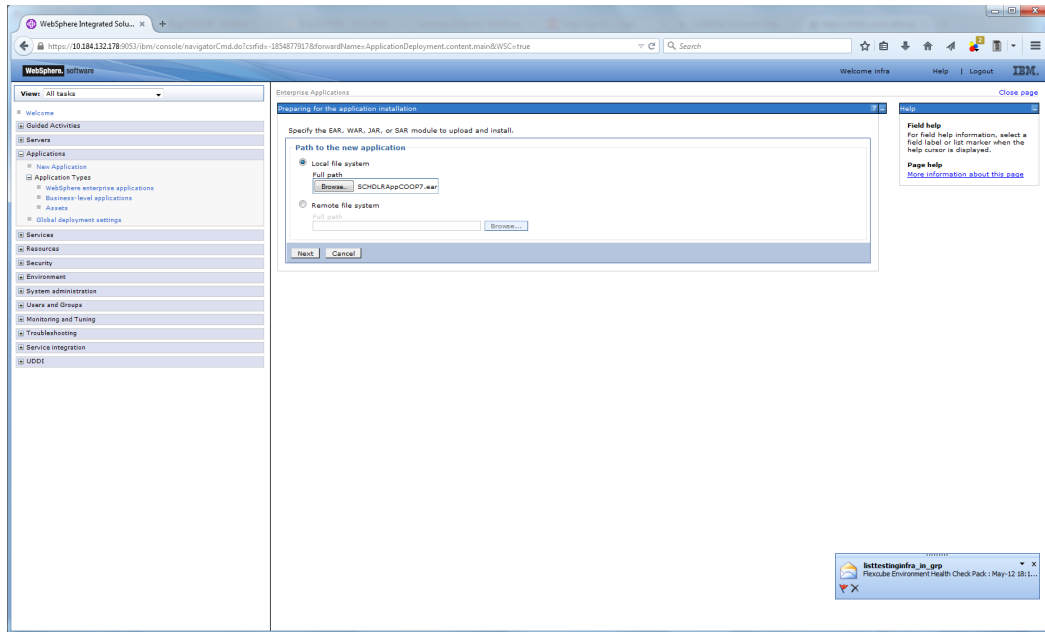
The following screen is displayed.



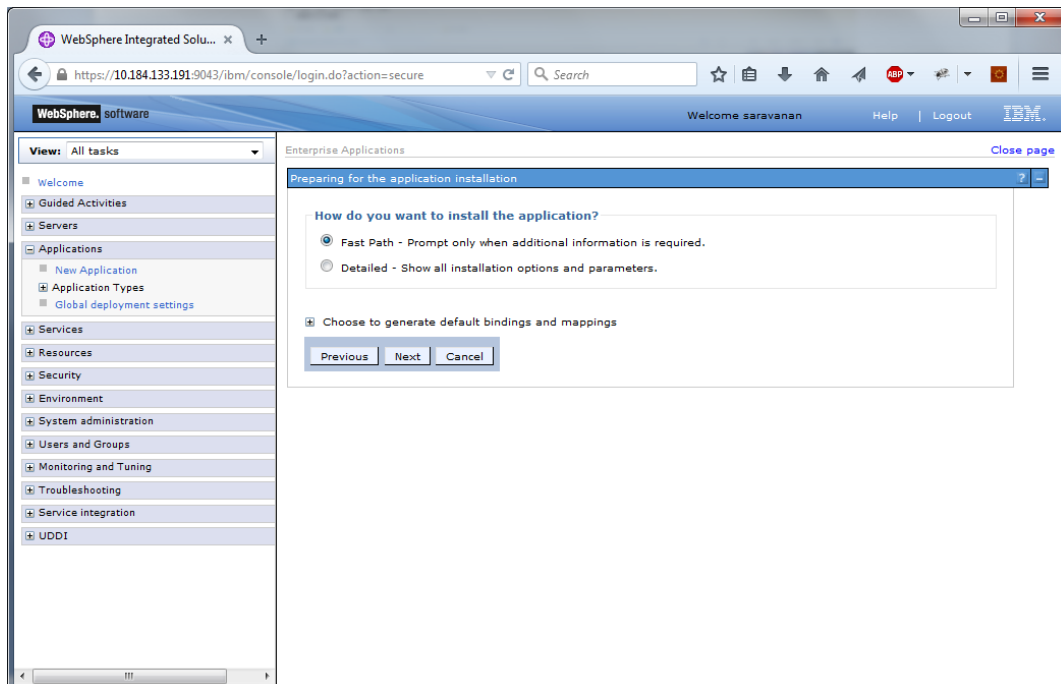
5. Click 'New Enterprise Application'.



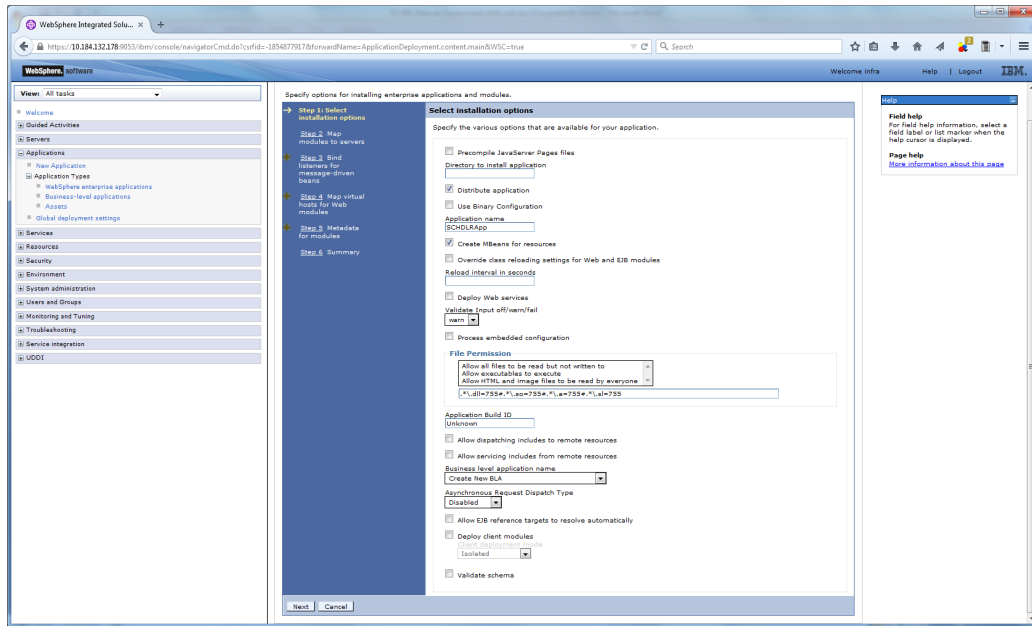
6. Browse the application EAR file and click next button



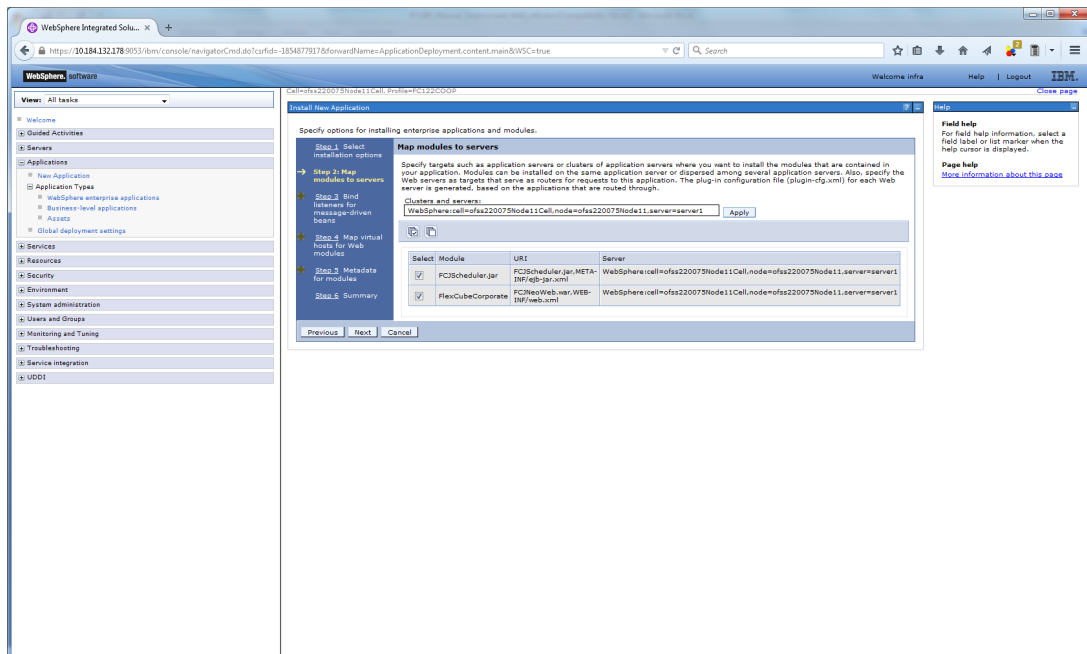
The following screen is displayed.



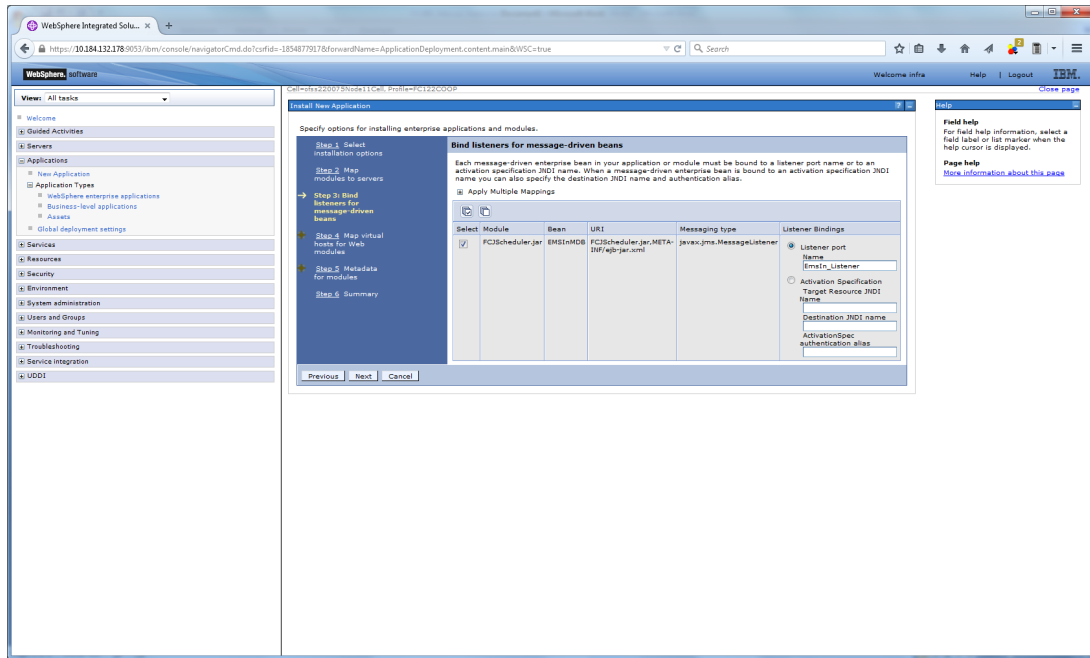
7. Click 'Next'. The following screen is displayed.



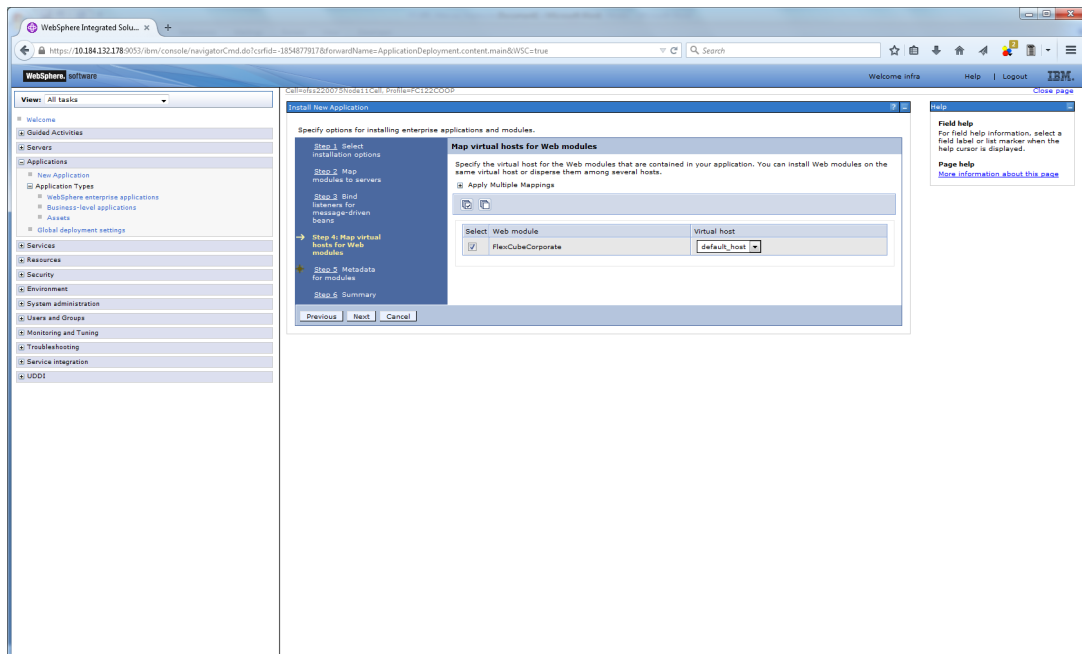
8. Enter the Application Name. This should be the application name mentioned as part of EAR building.



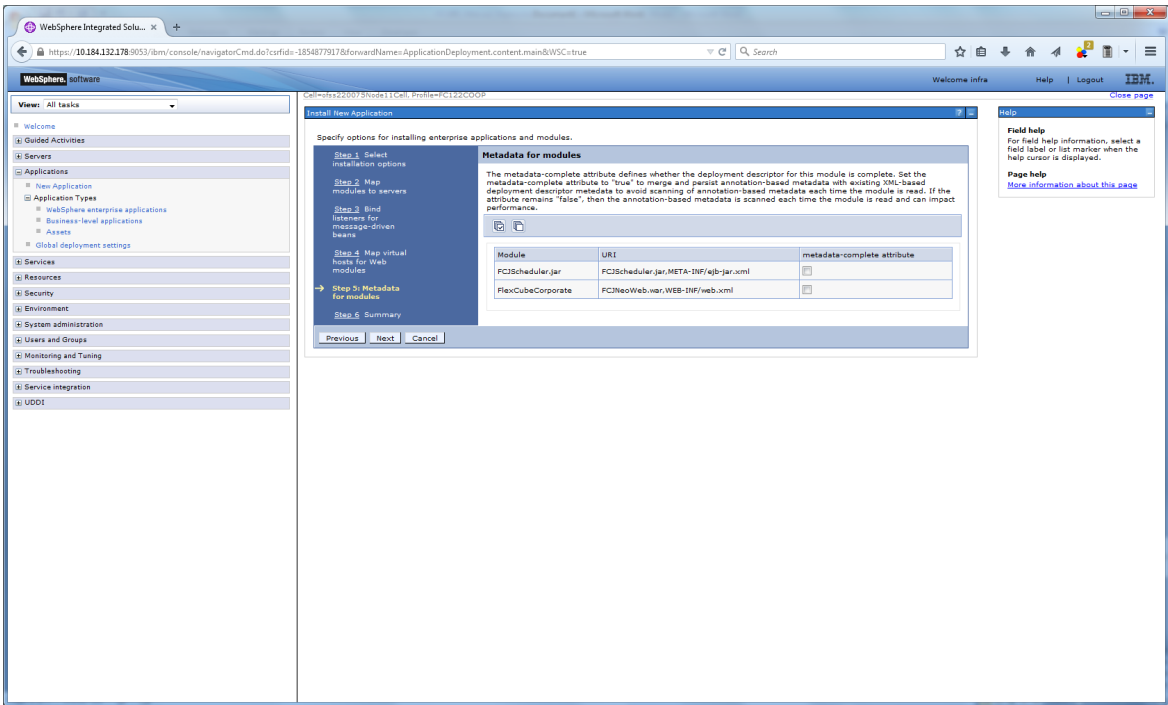
9. Check all the options. Click 'Next'. The following screen is displayed.



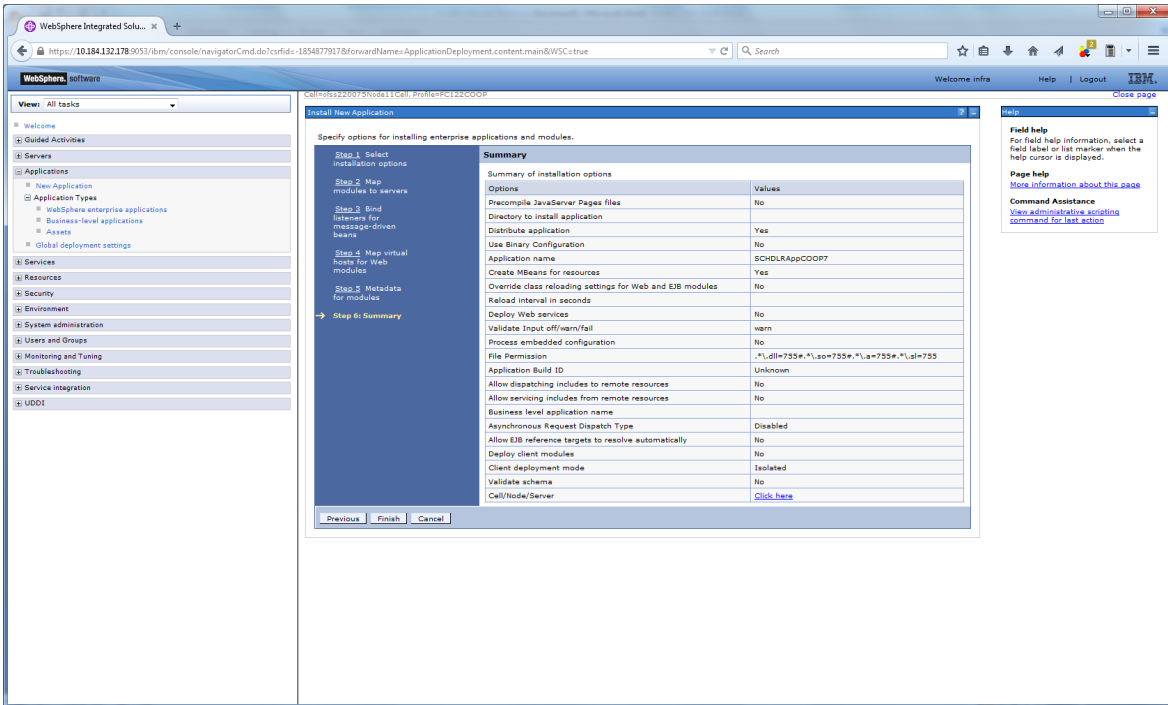
10. Specify the details as shown in the figure.



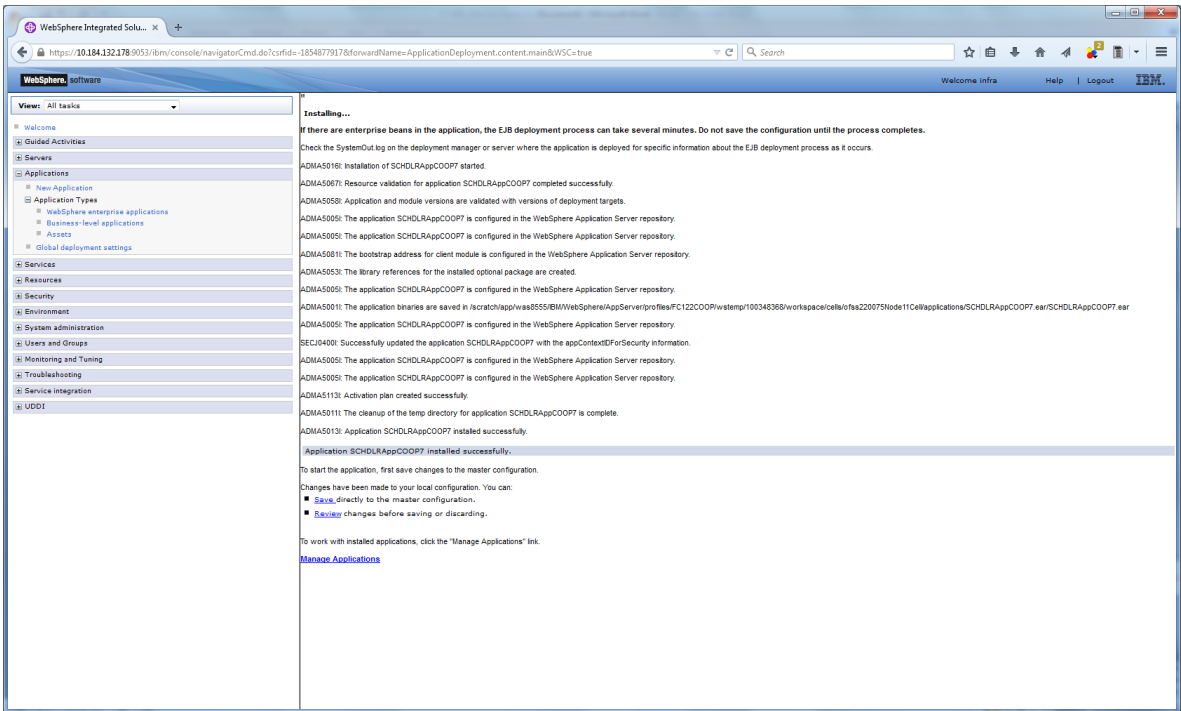
11. Click 'Next'. The following screen is displayed.



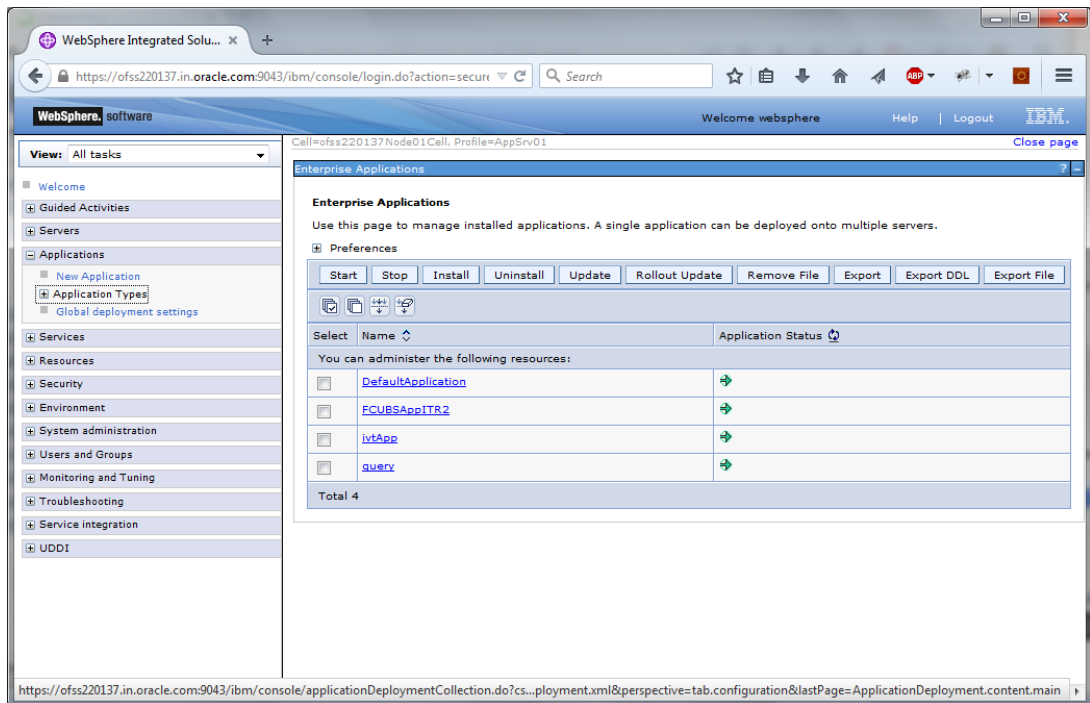
12. Click 'Next'. The following screen is displayed.



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

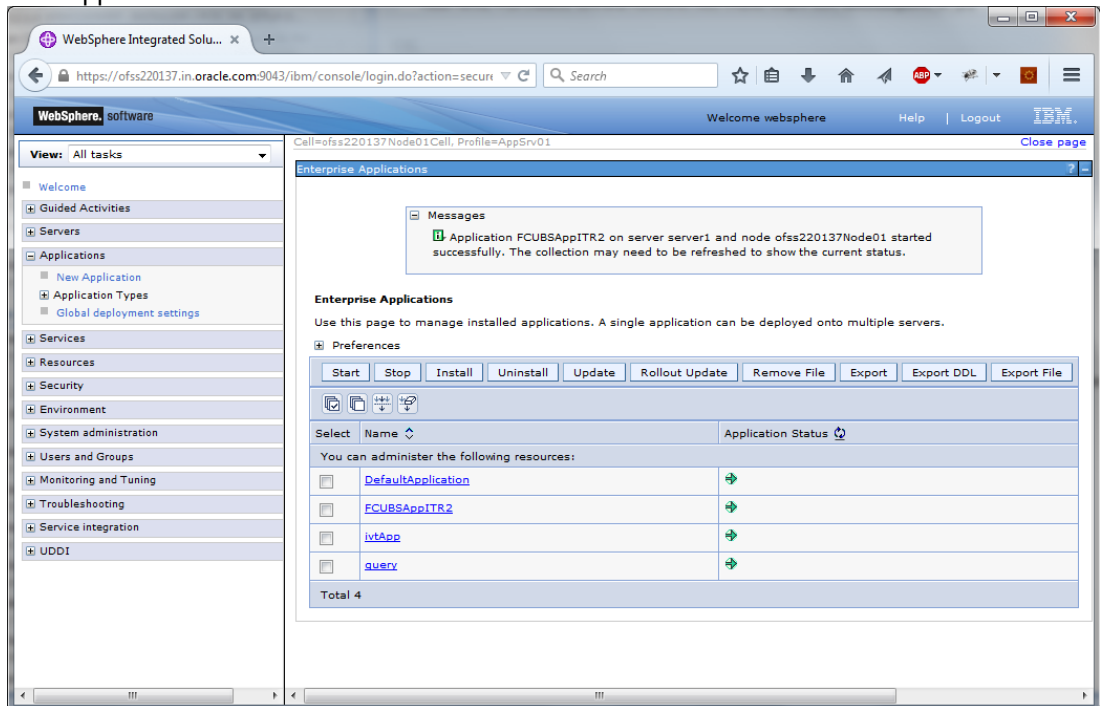


Click 'Save'. The following screen is displayed.



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:

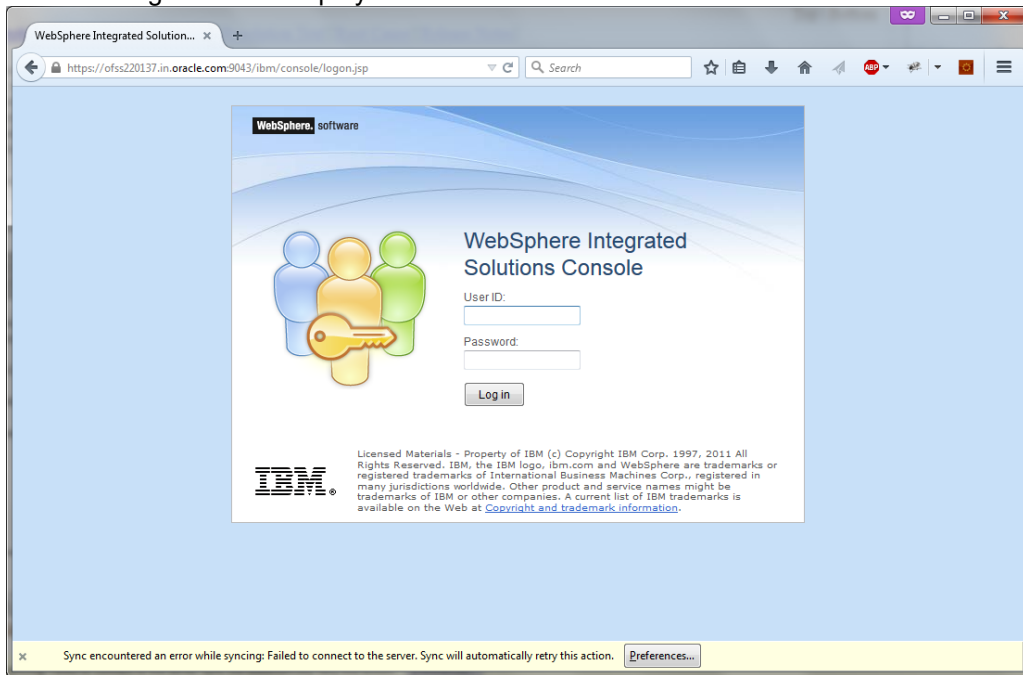
1. Open the Administrative Console of WebSphere server:

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.

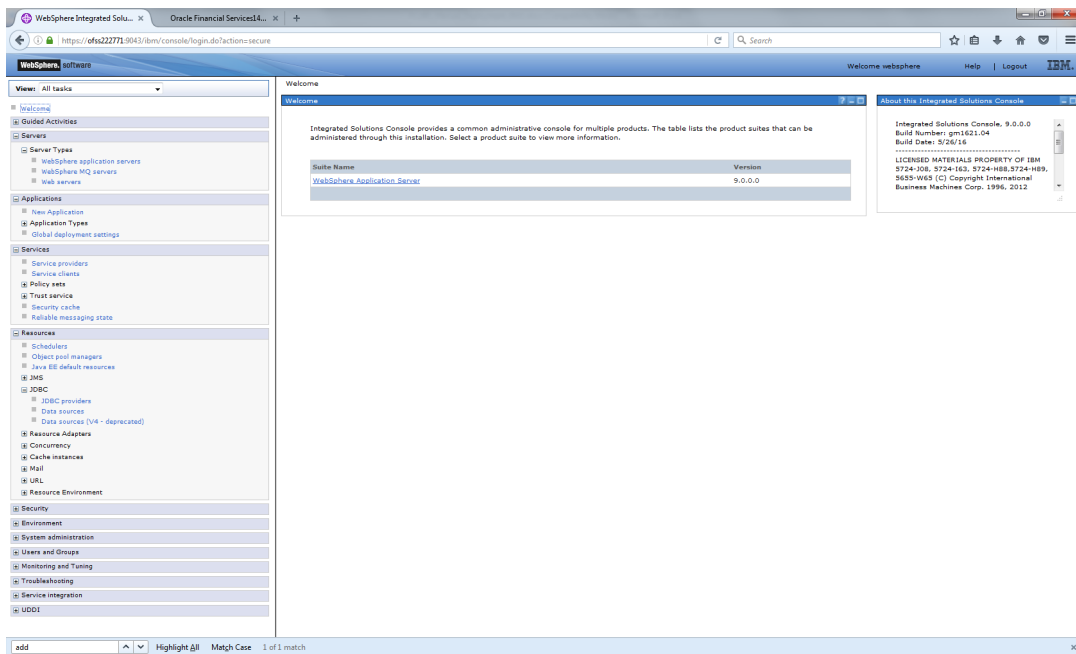
The following screen is displayed:



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

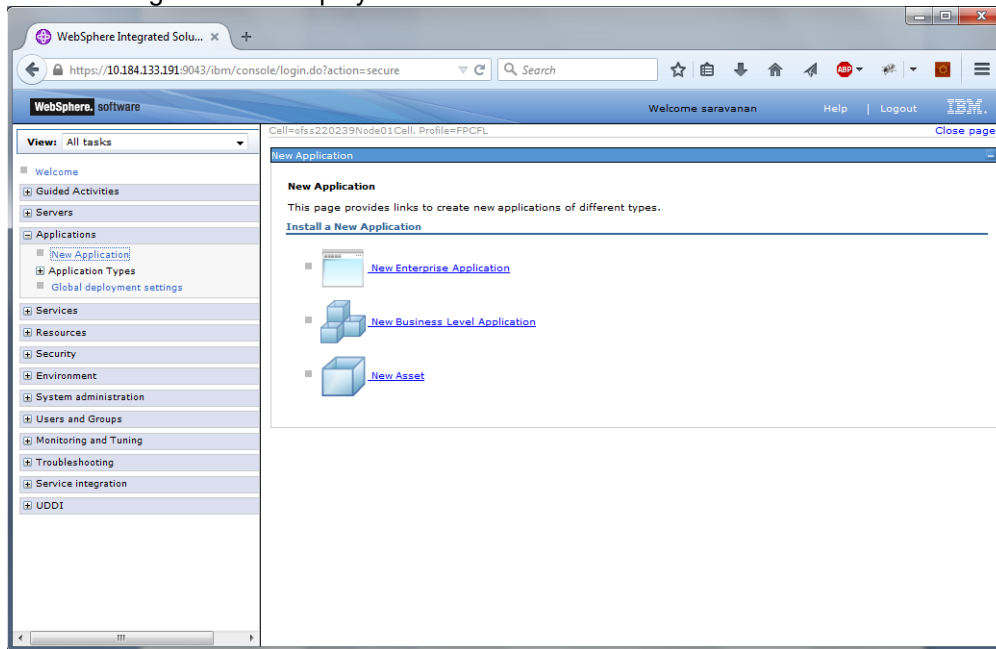
3. Navigate to the WebSphere Home Page.

The following screen is displayed.

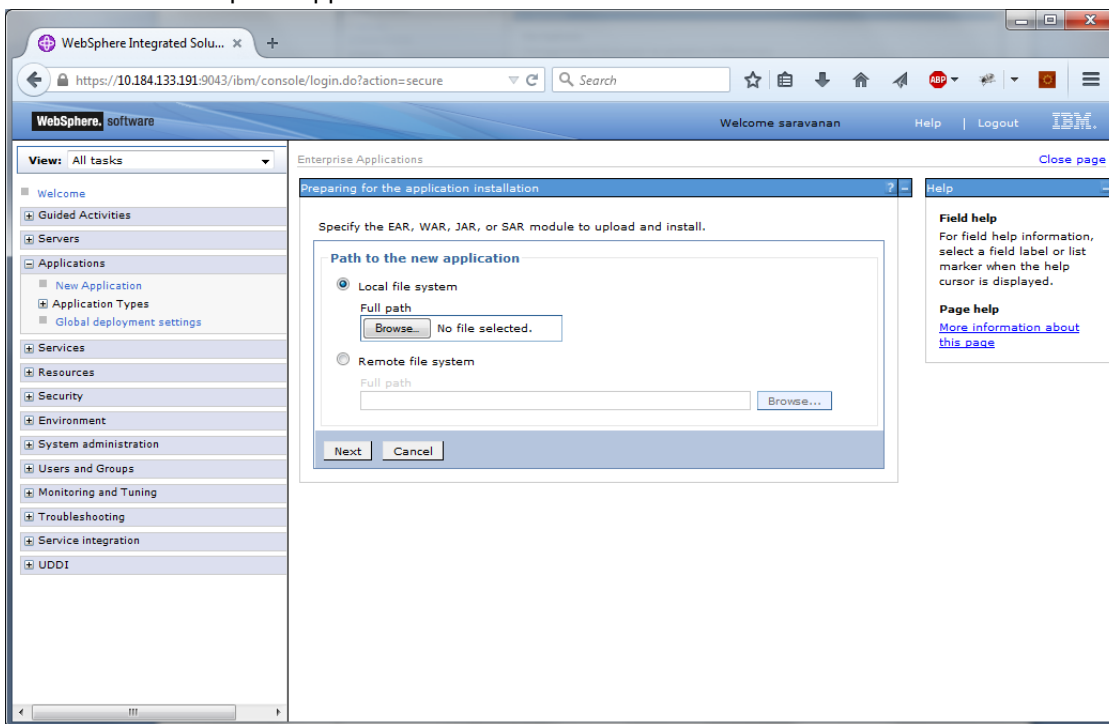


4. Expand Applications from left-side menu and Click 'New Application'.

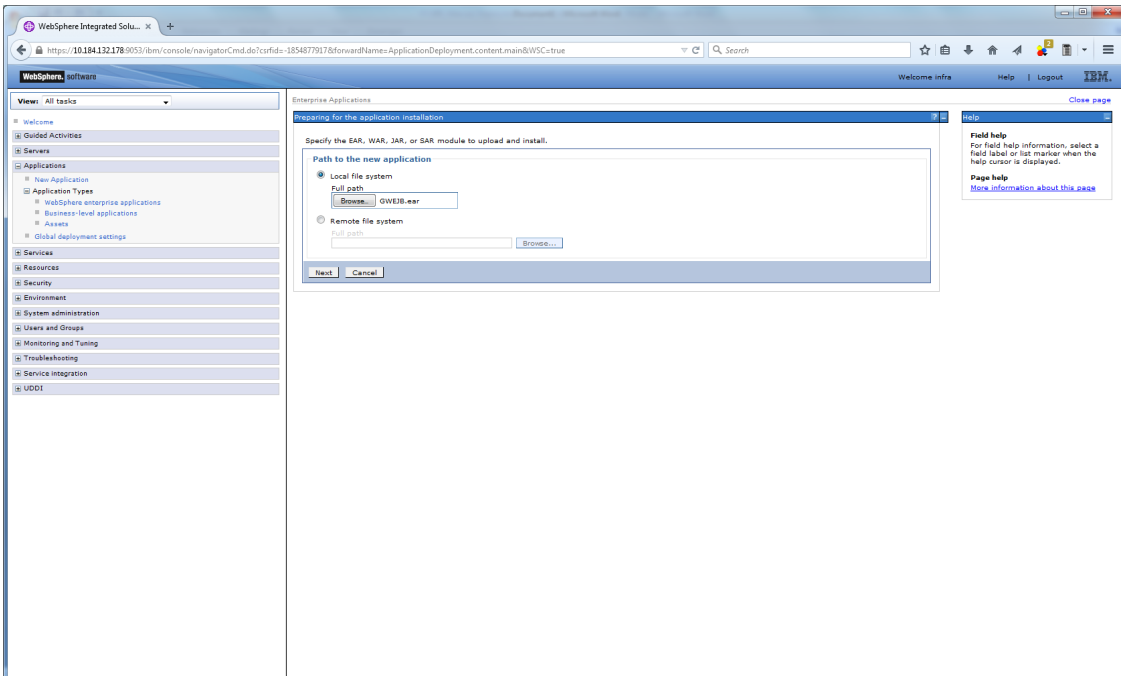
The following screen is displayed.



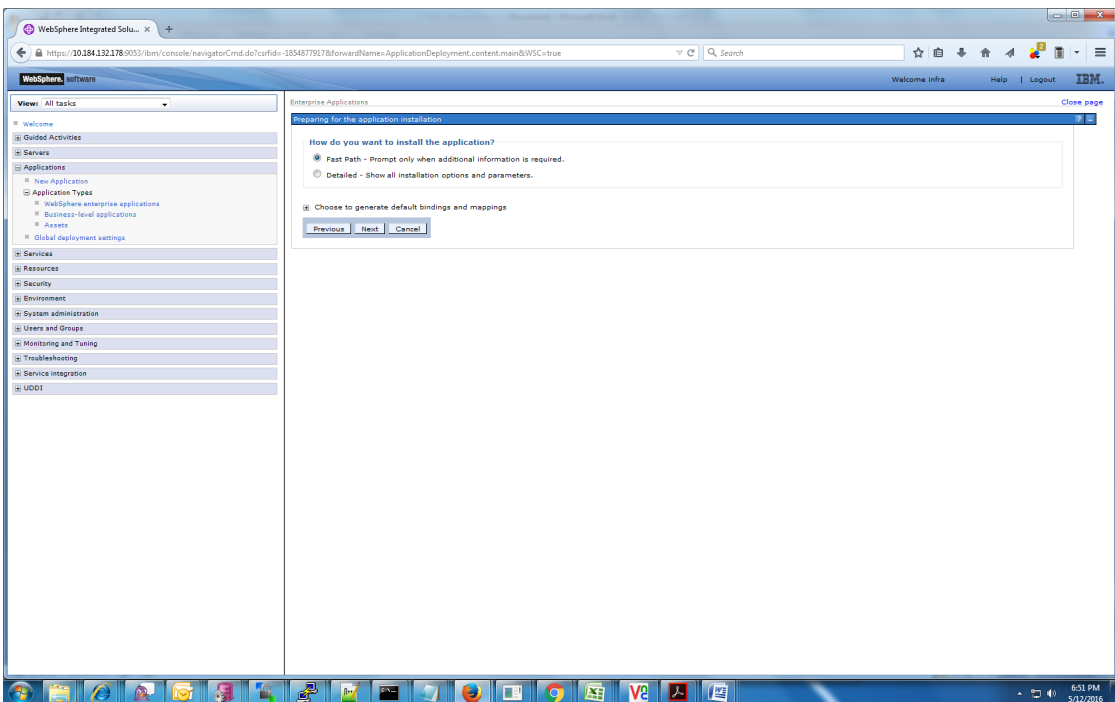
5. Click 'New Enterprise Application'.



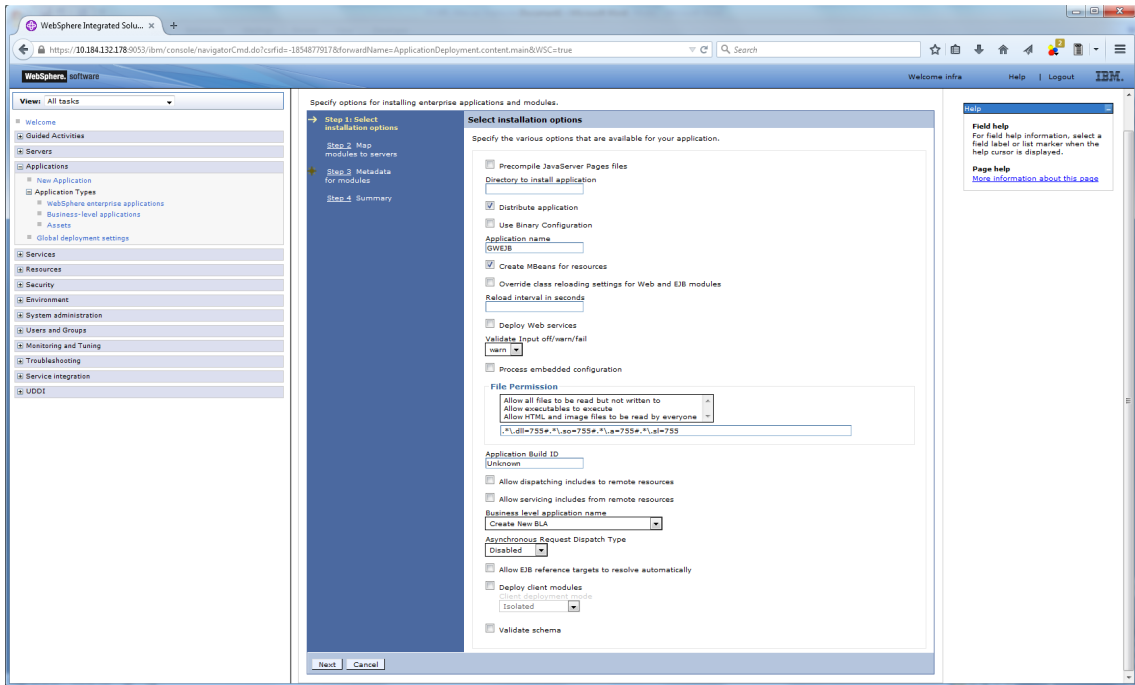
6. Browse the application EAR file and click next button



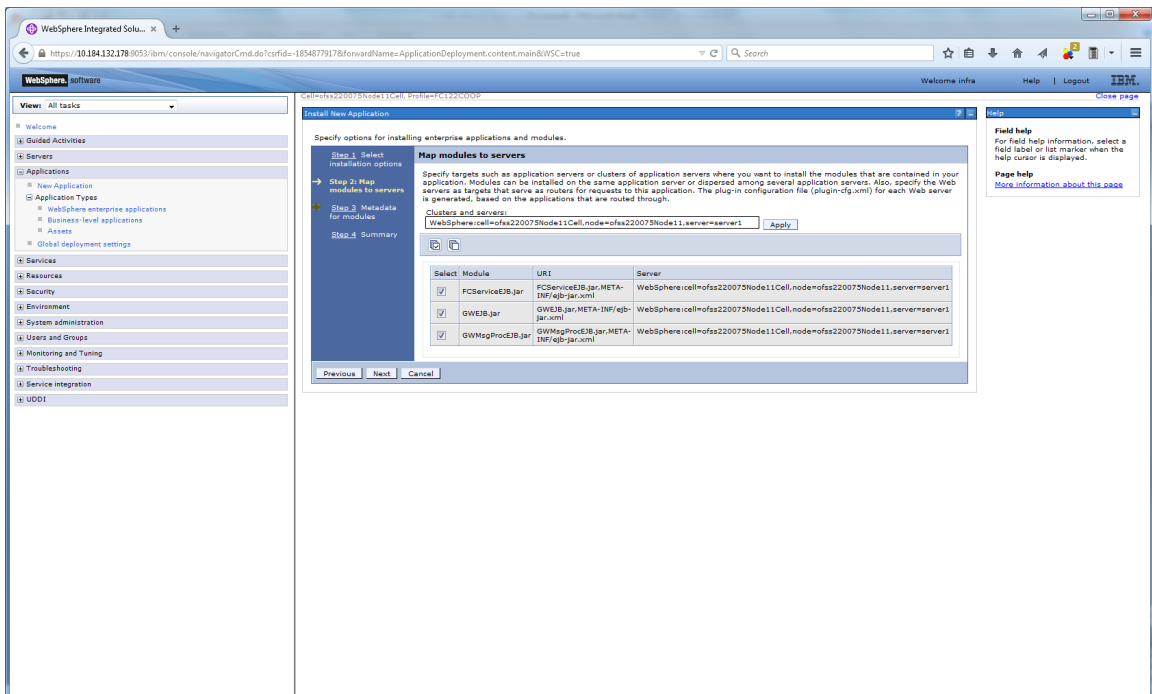
7. Click Next and the following screen is displayed.



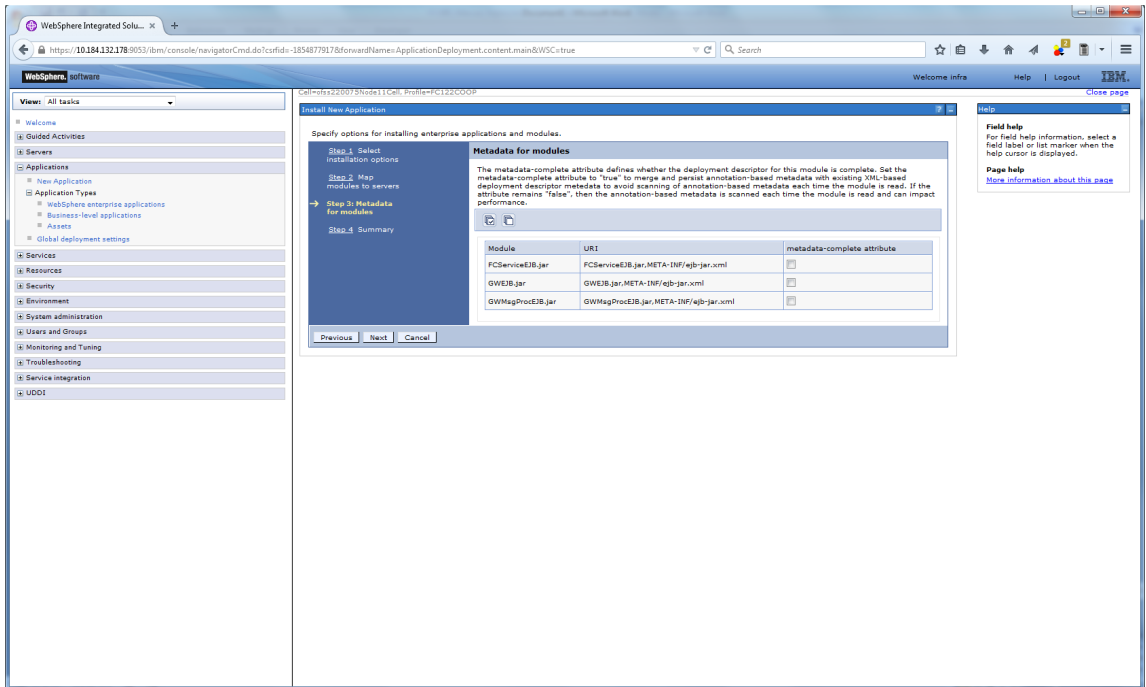
8. Click next and the following screen is displayed.



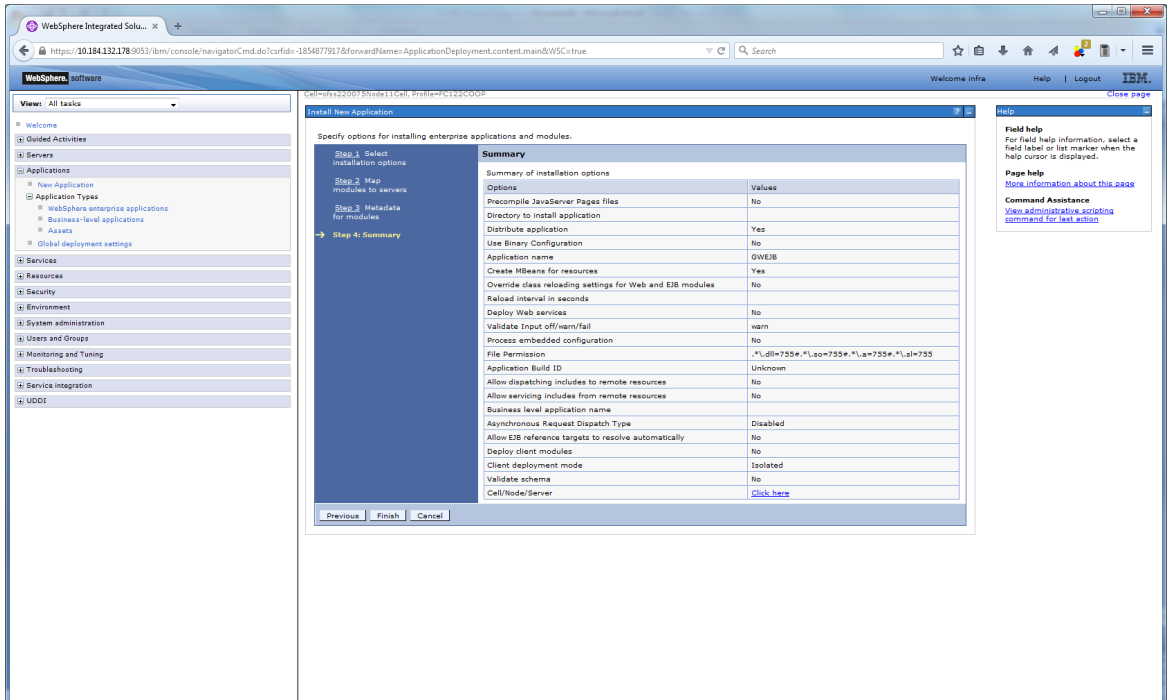
9. Click next and the following screen is displayed.



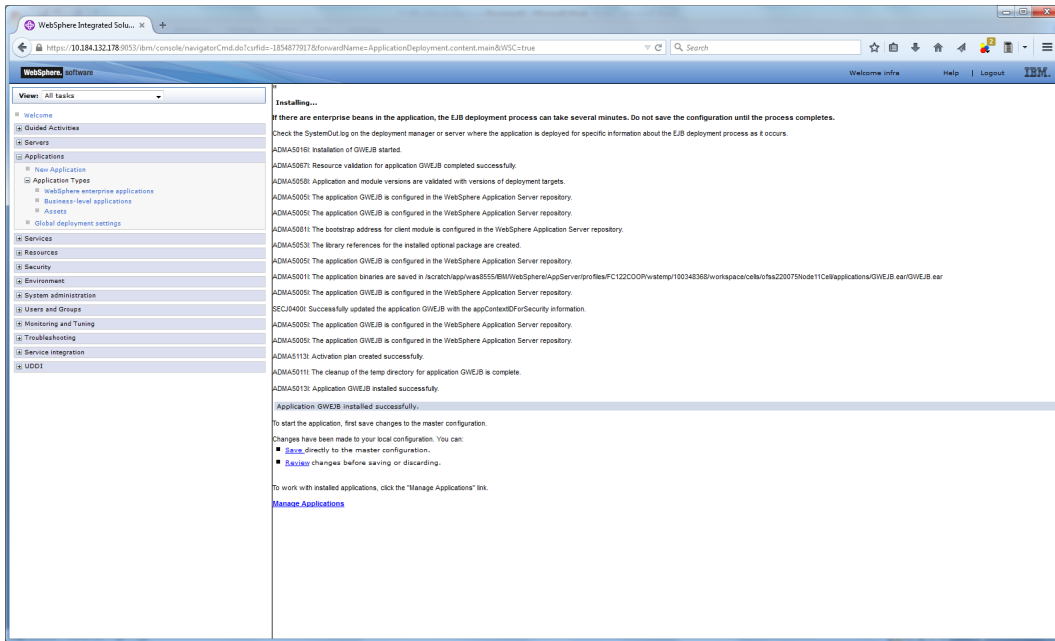
10. click next and the following Screen is displayed.



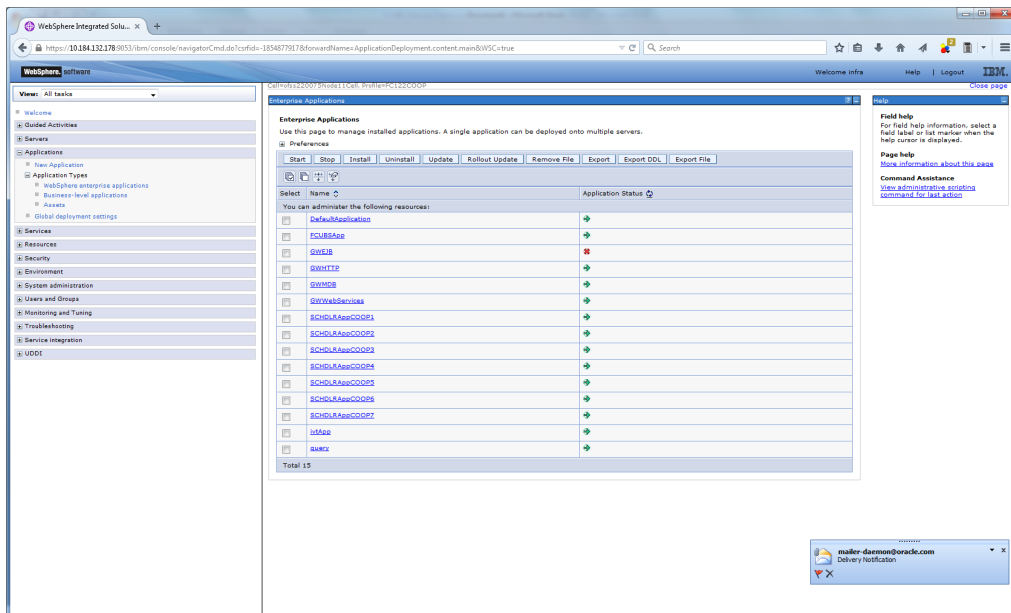
11. Click next and the following screen is displayed.



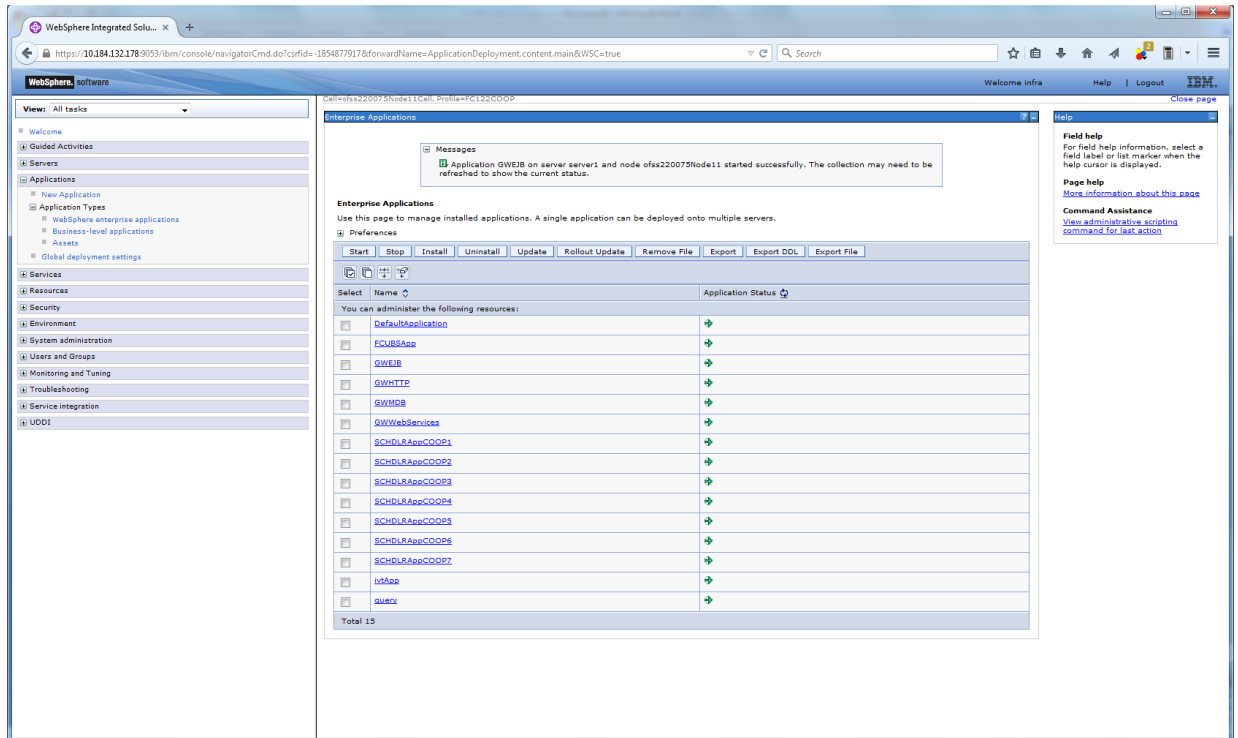
12. Click on finish and the following screen is displayed.



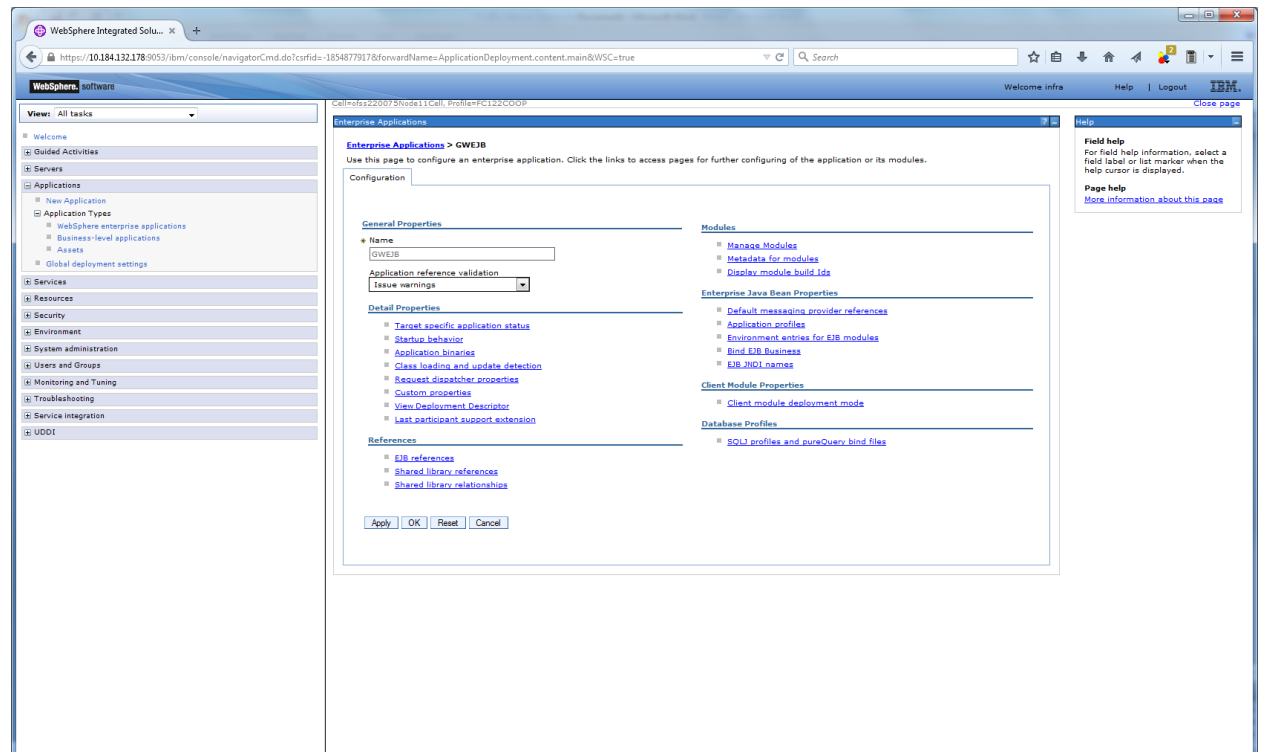
13. Click on save and the following screen is displayed.



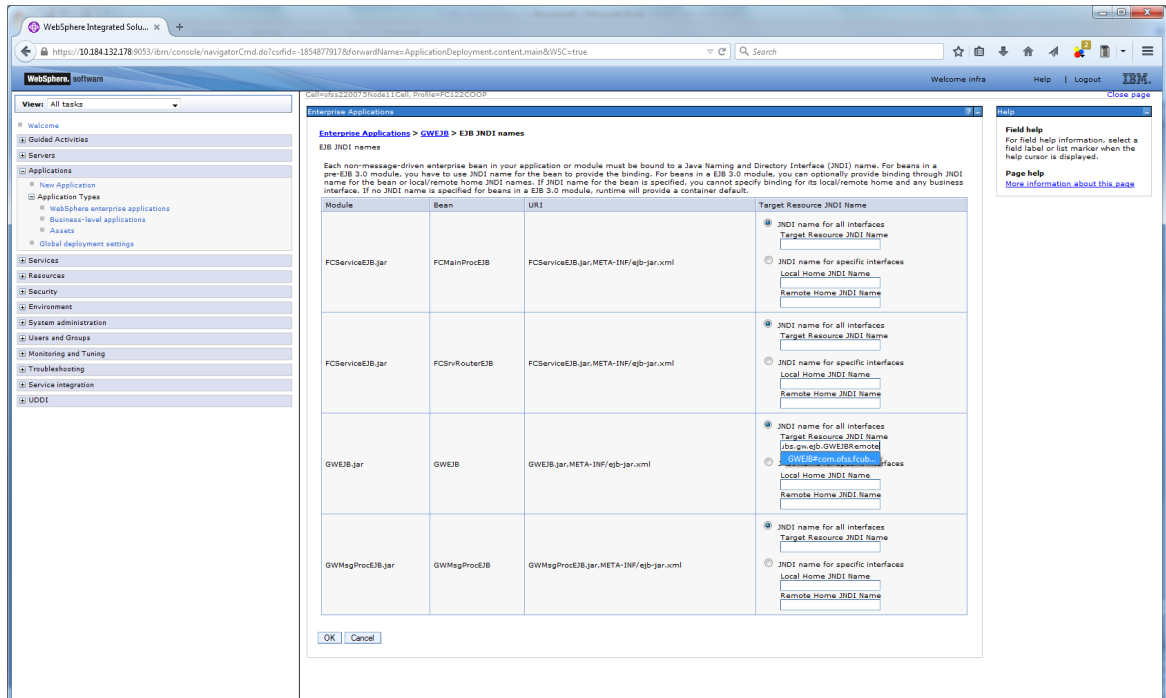
15. Select the deployed application and click on start



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

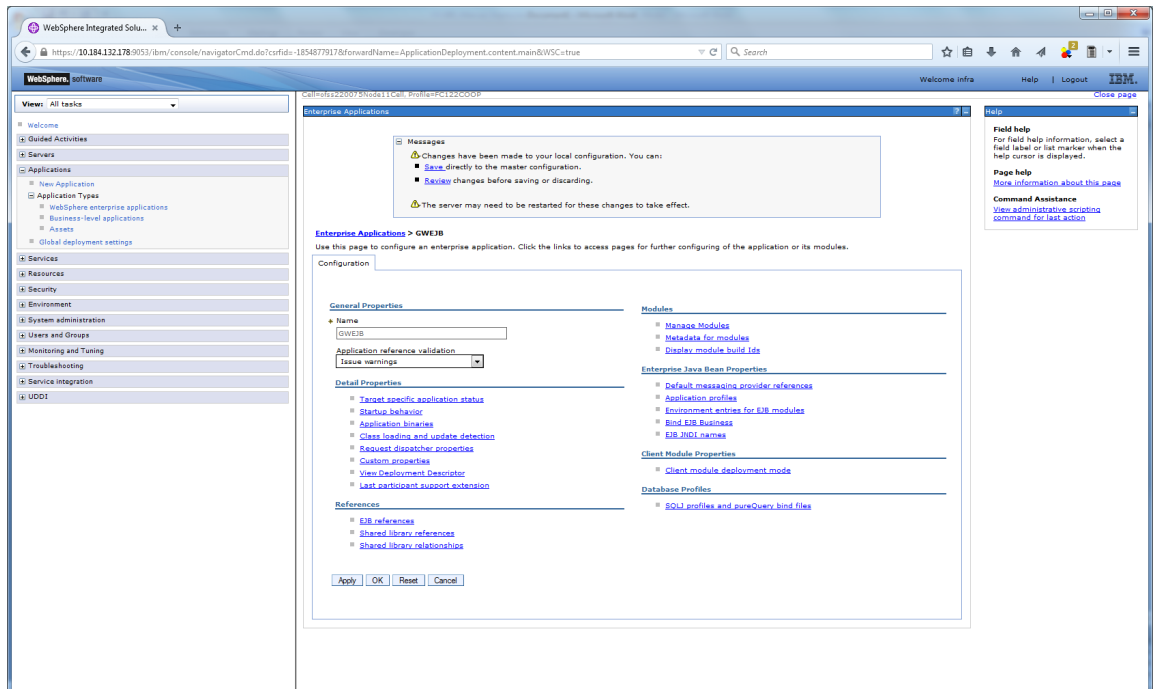


17. Click on EJB JNDI names and the following screen is displayed.



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:

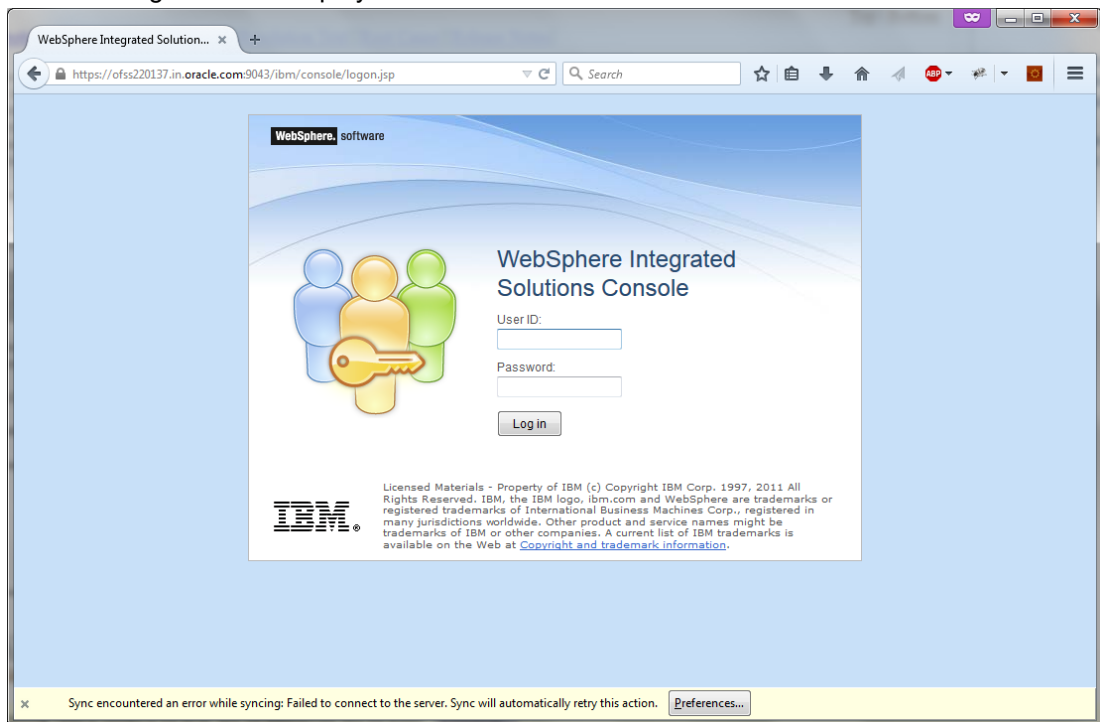
1. Open the Administrative Console of WebSphere server:

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

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

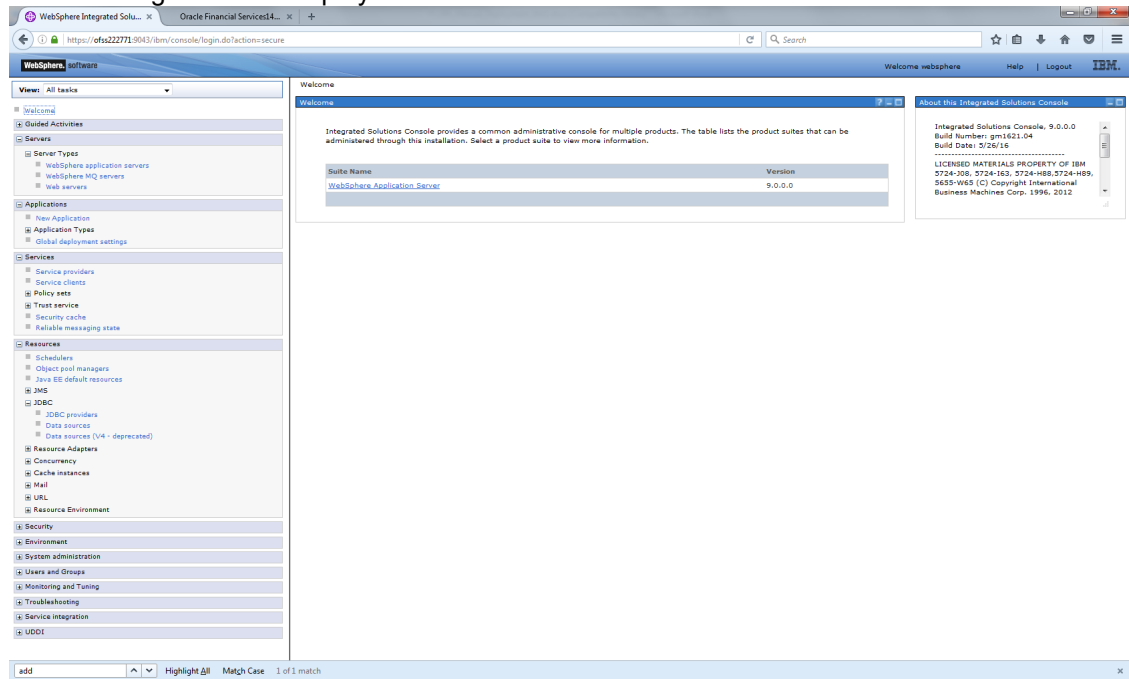
In the above example, 10.10.10.10 is the machine IP address on which WebSphere is running.

The following screen is displayed:



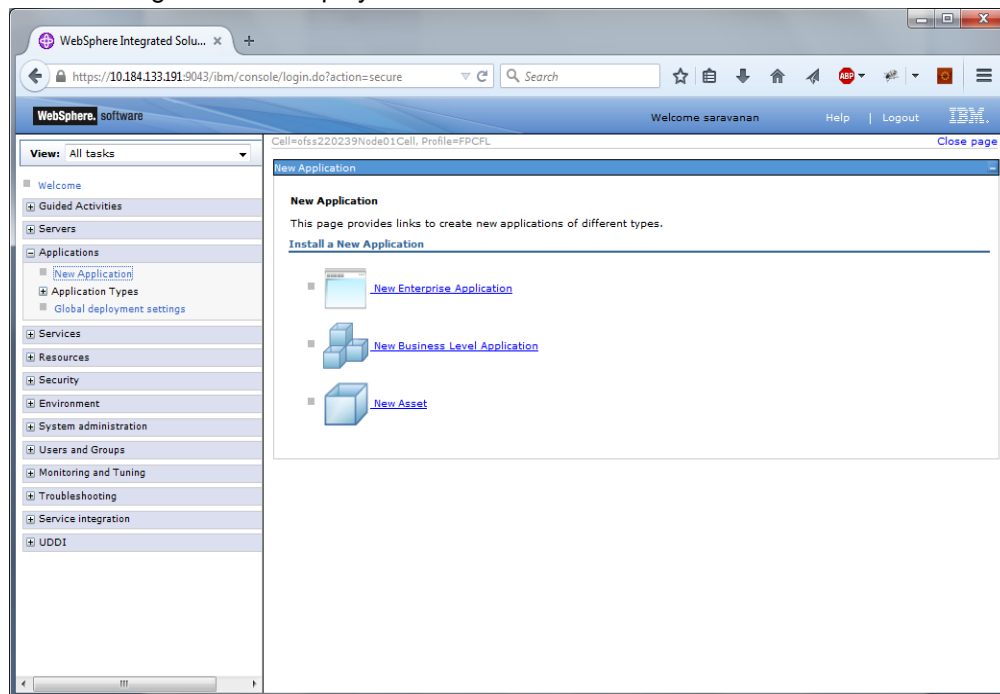
2. Enter the user name and password and click 'Log In' to log in to the application server.
3. Navigate to the WebSphere Home Page.

The following screen is displayed.

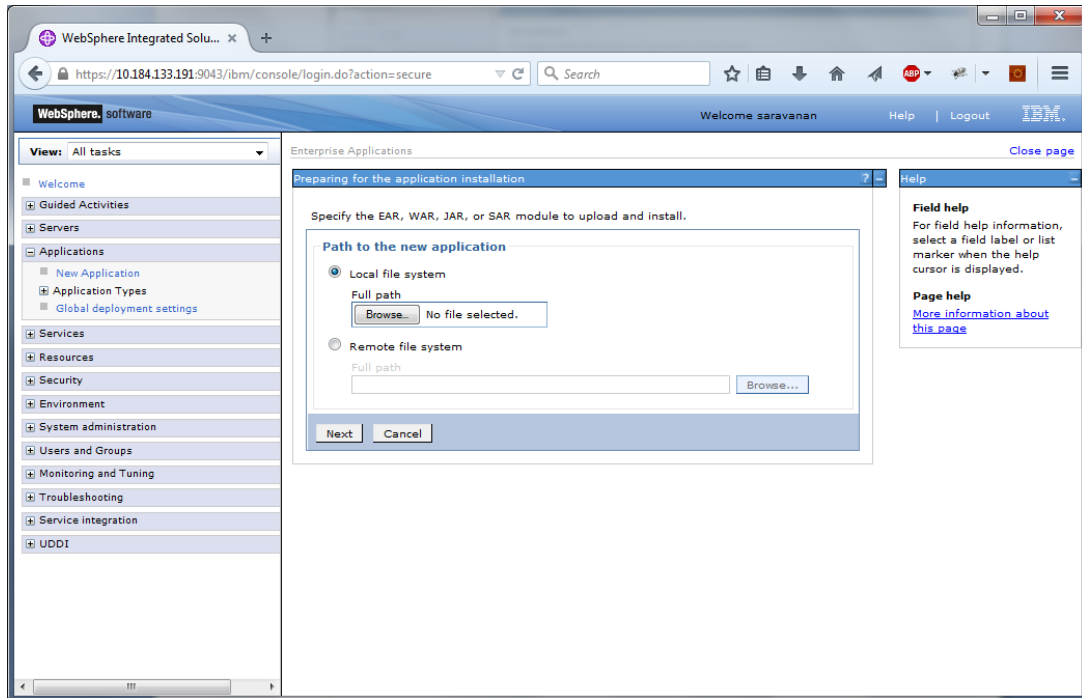


4. Expand Applications from left-side menu and Click 'New Application'.

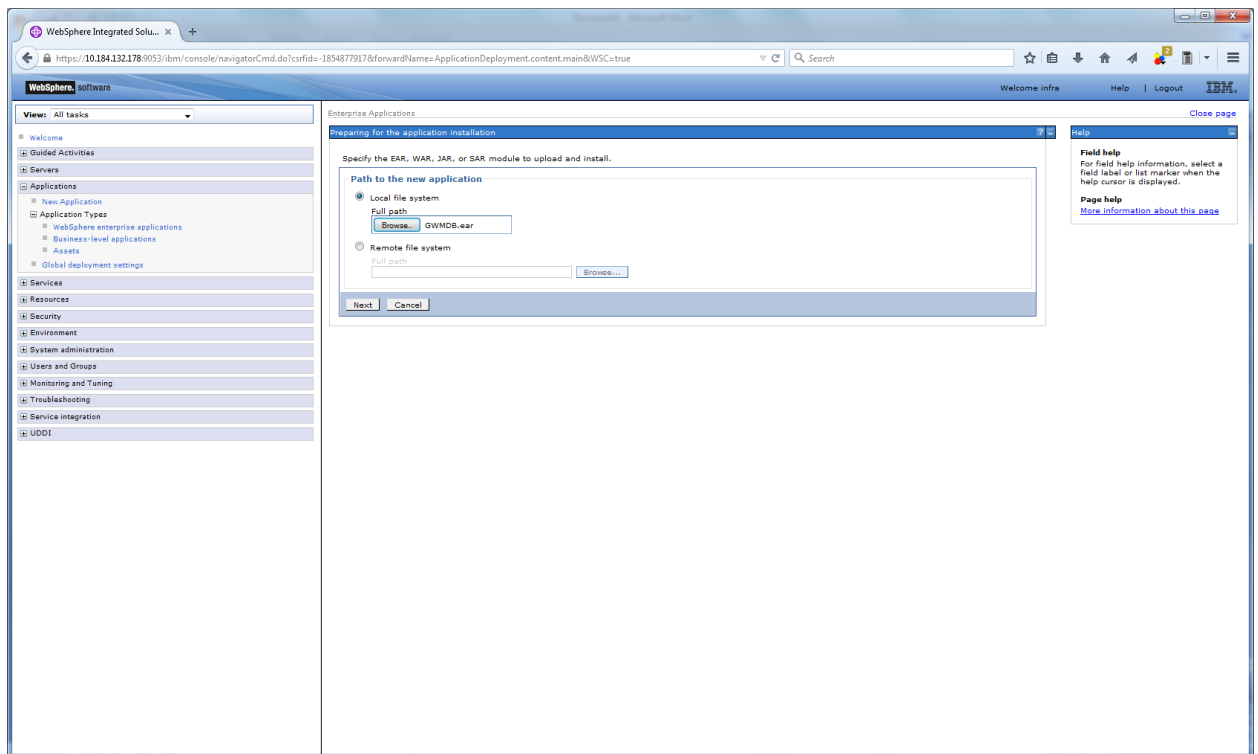
The following screen is displayed.



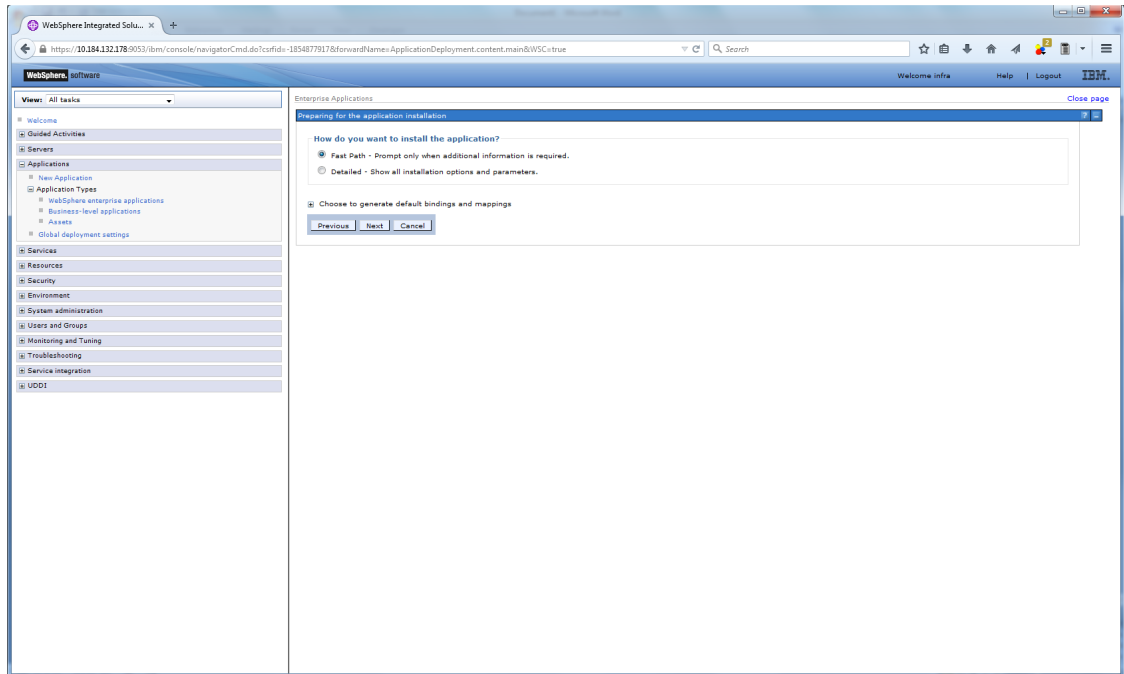
5. Click 'New Enterprise Application'.



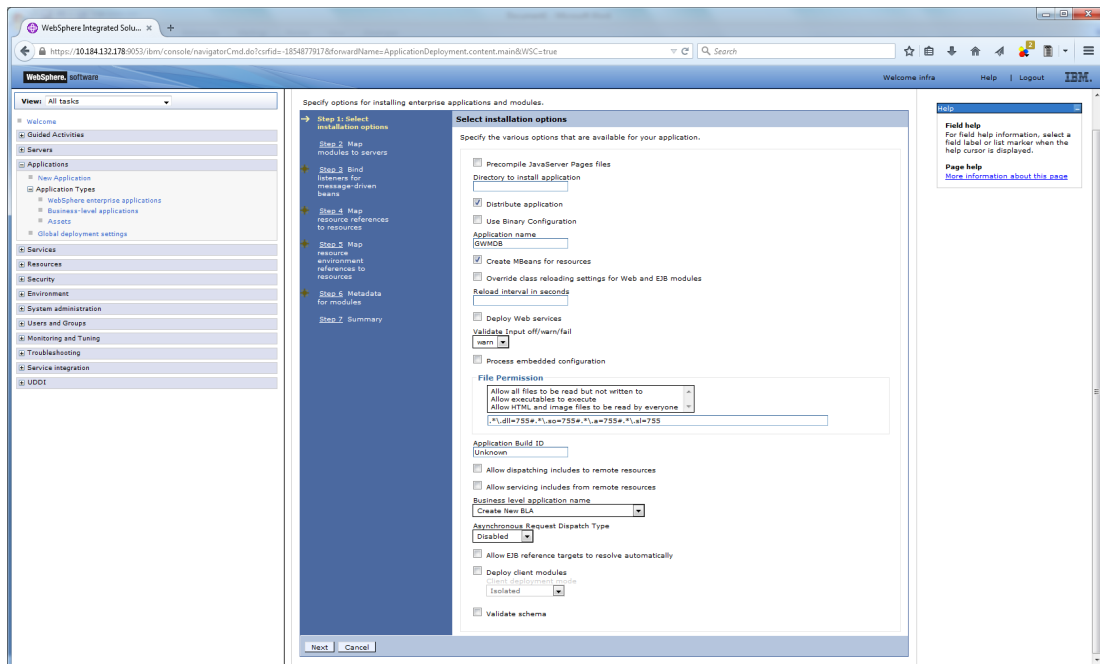
6. Click on Browse and select the MDB EAR and the following screen is displayed



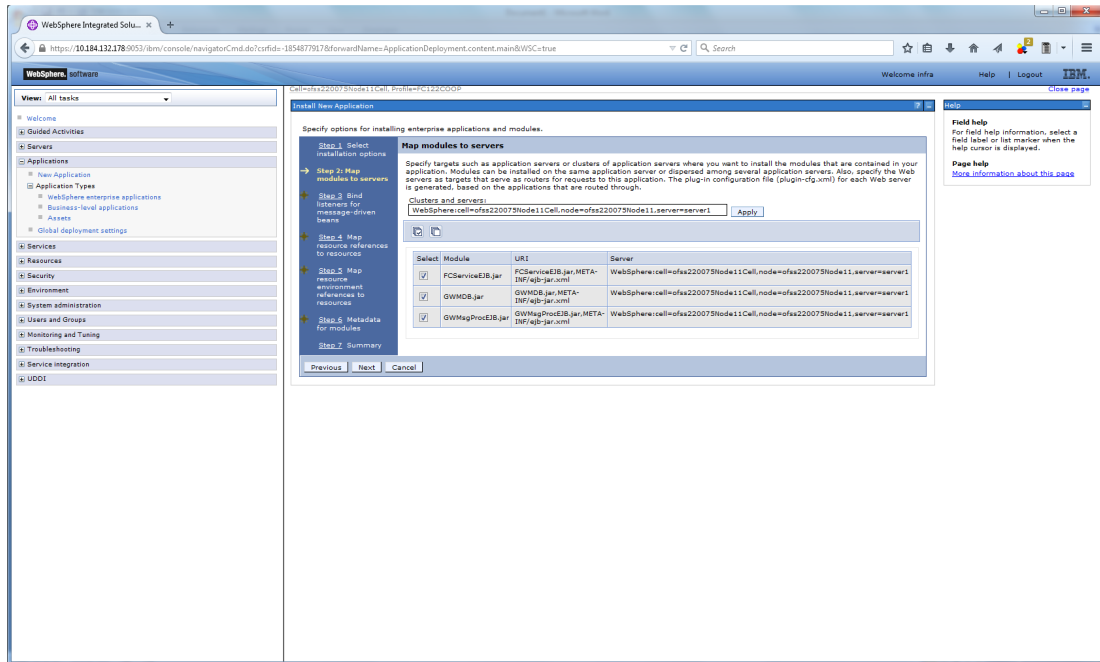
7. Click on next and the following screen is displayed.



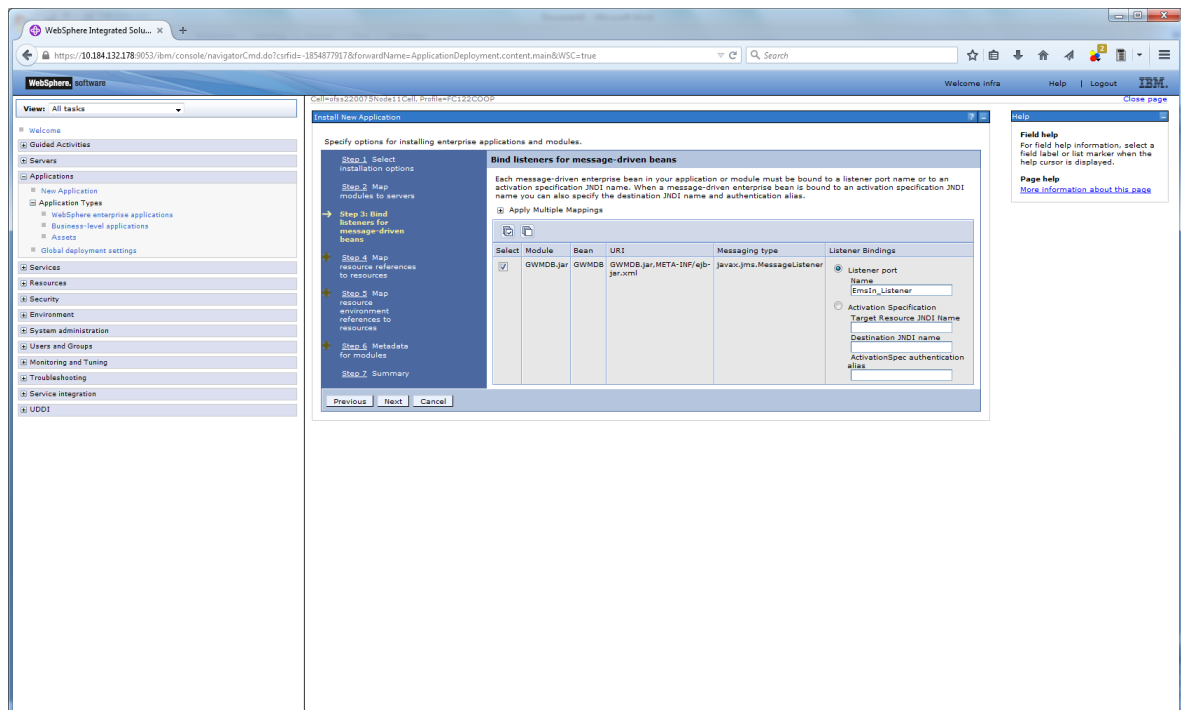
8. Click on next and the following screen is displayed.



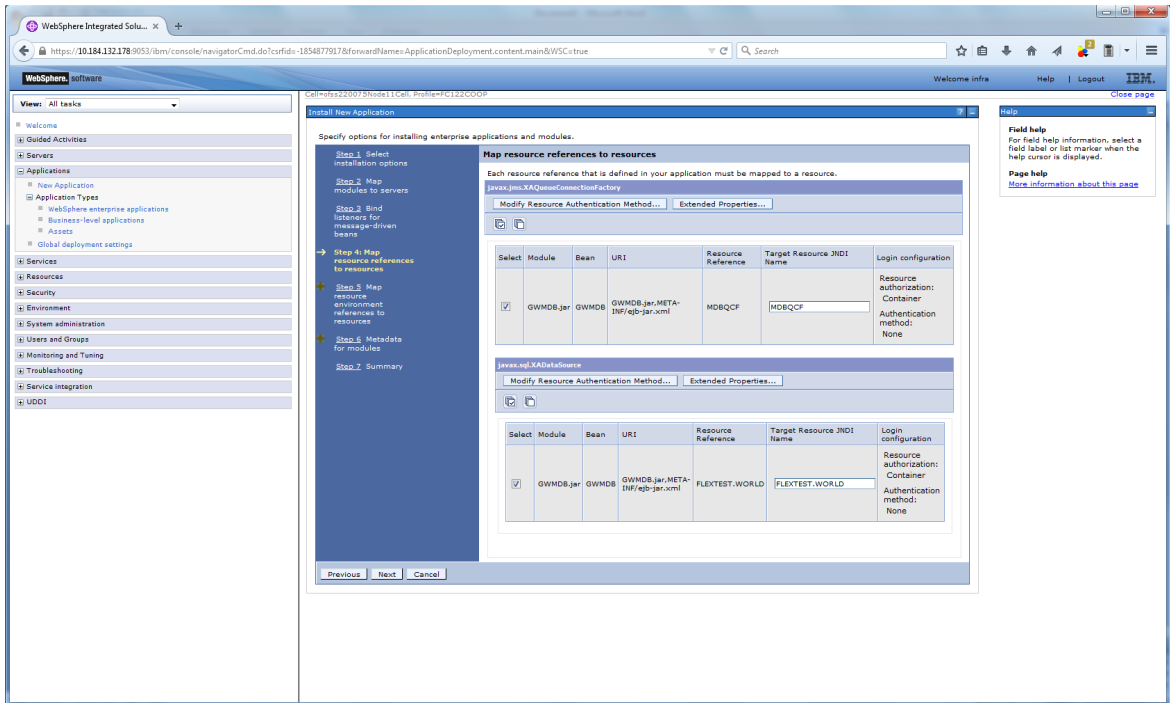
9. Click on next and the following screen is displayed.



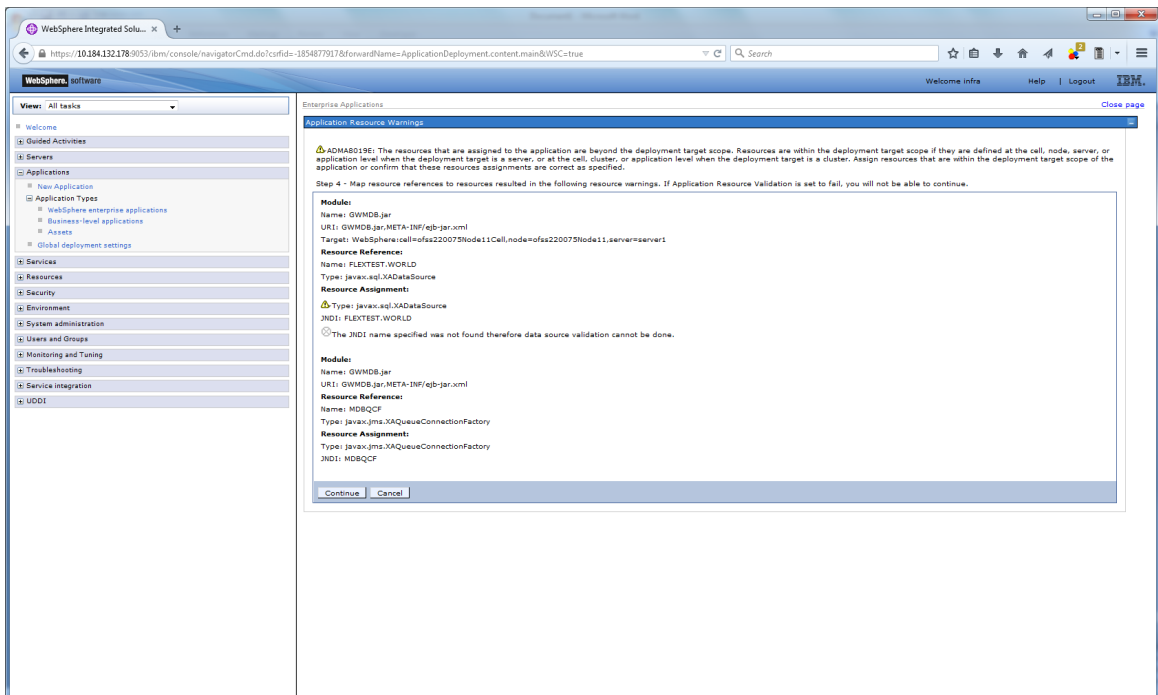
10. Click on next and the following screen is displayed.



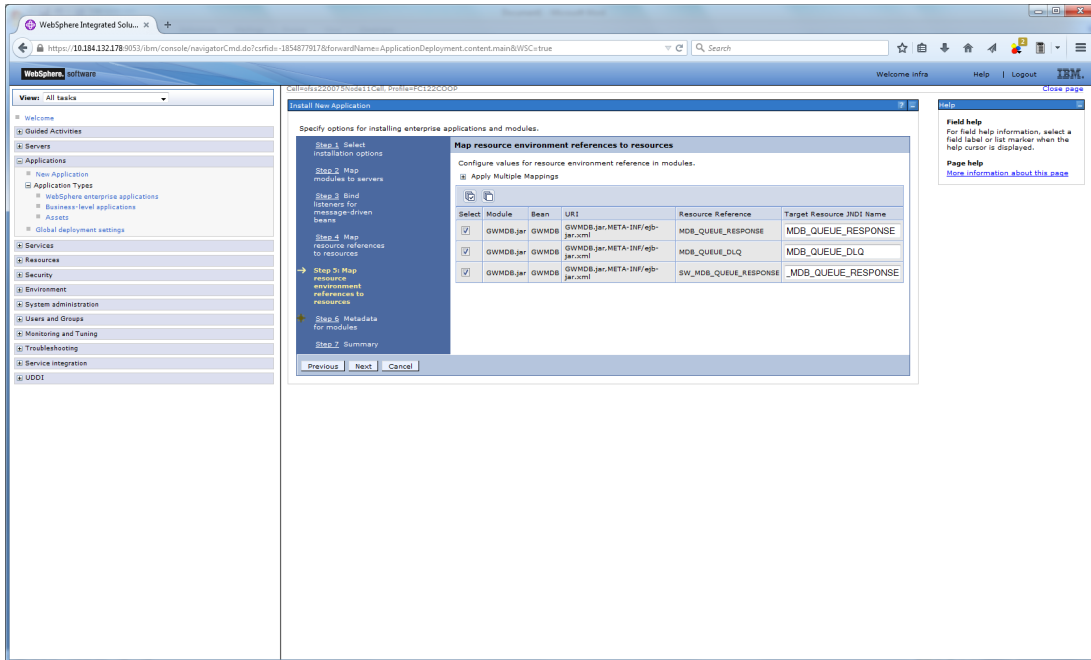
11. Input the listner name click next. Following screen is displayed.



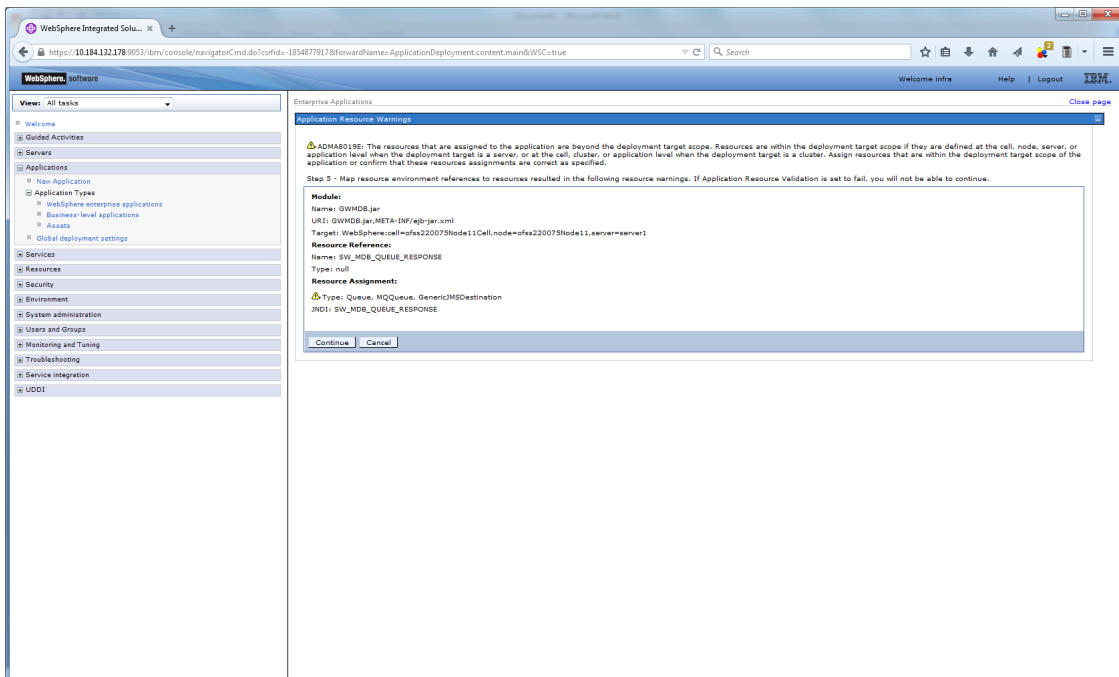
12. Enter the details as shown and click next.



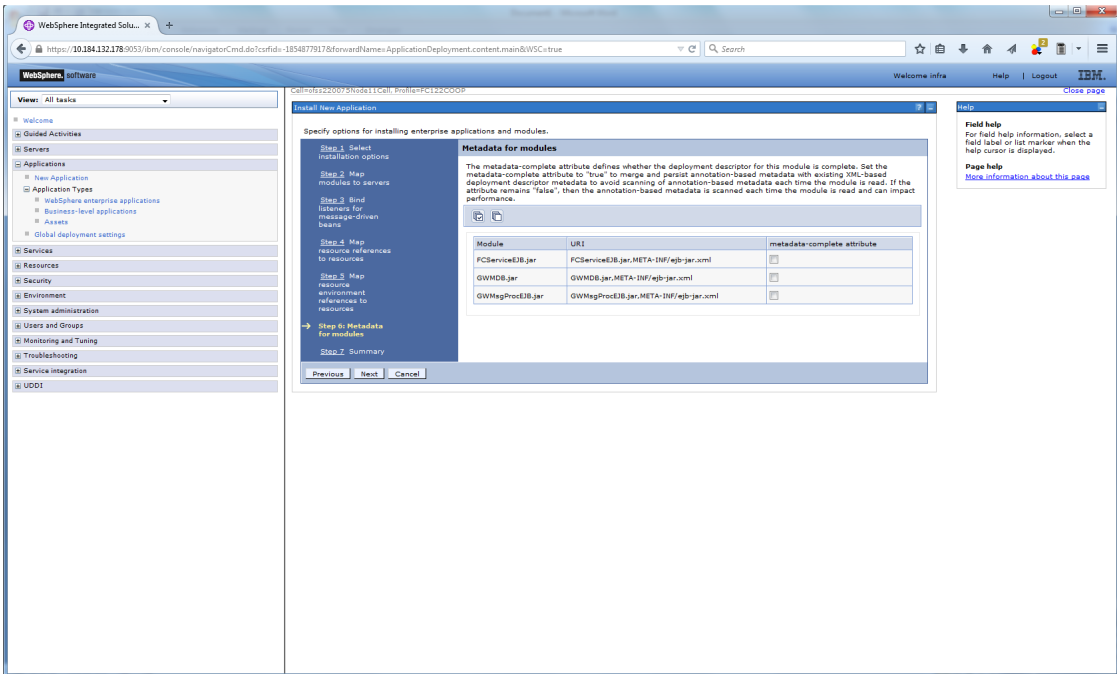
13. Click on continue and following screen is displayed.



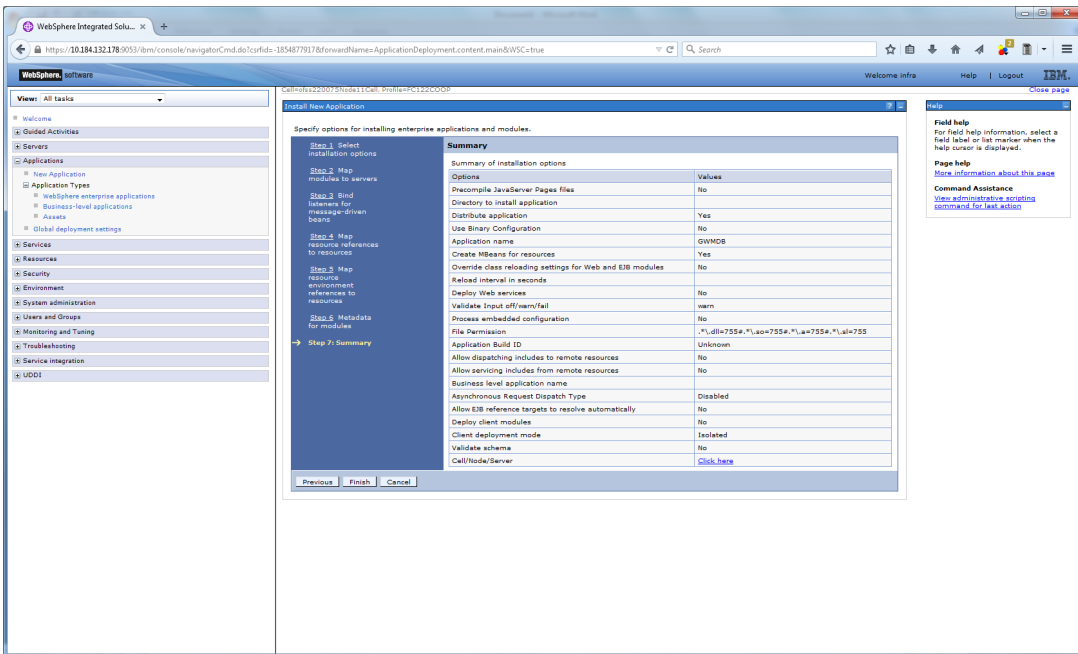
14. Give necessary details as shown and click next.



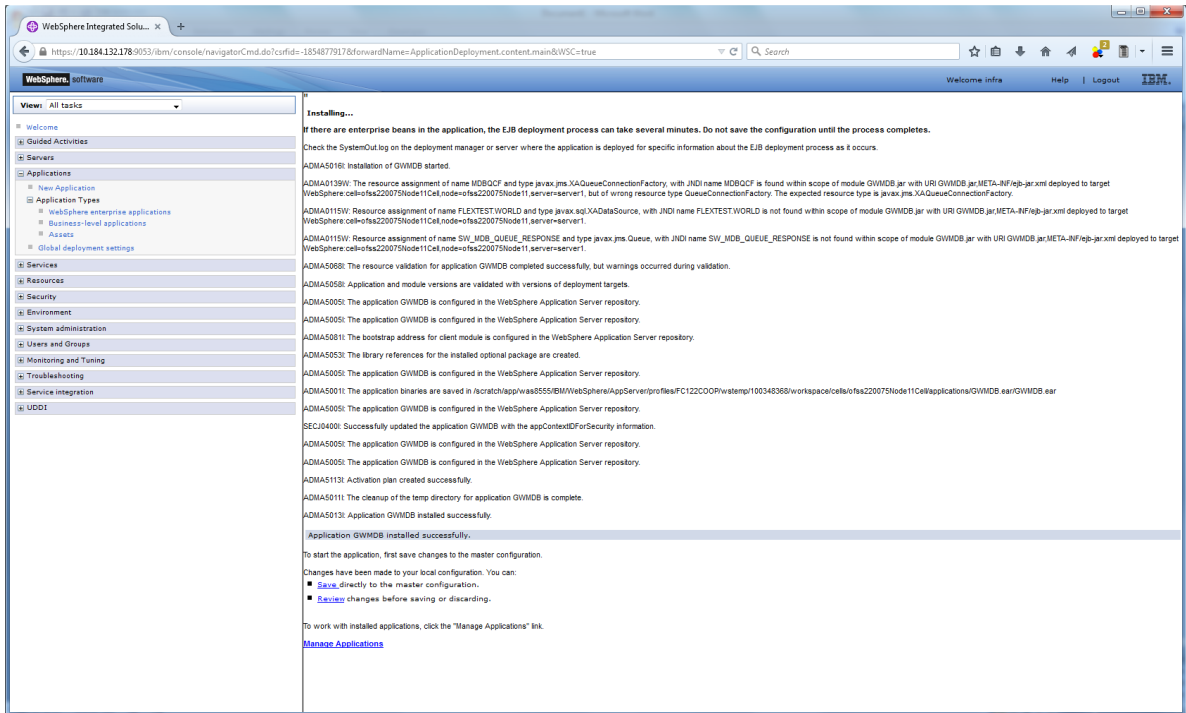
15. Click on continue and below screen is displayed.



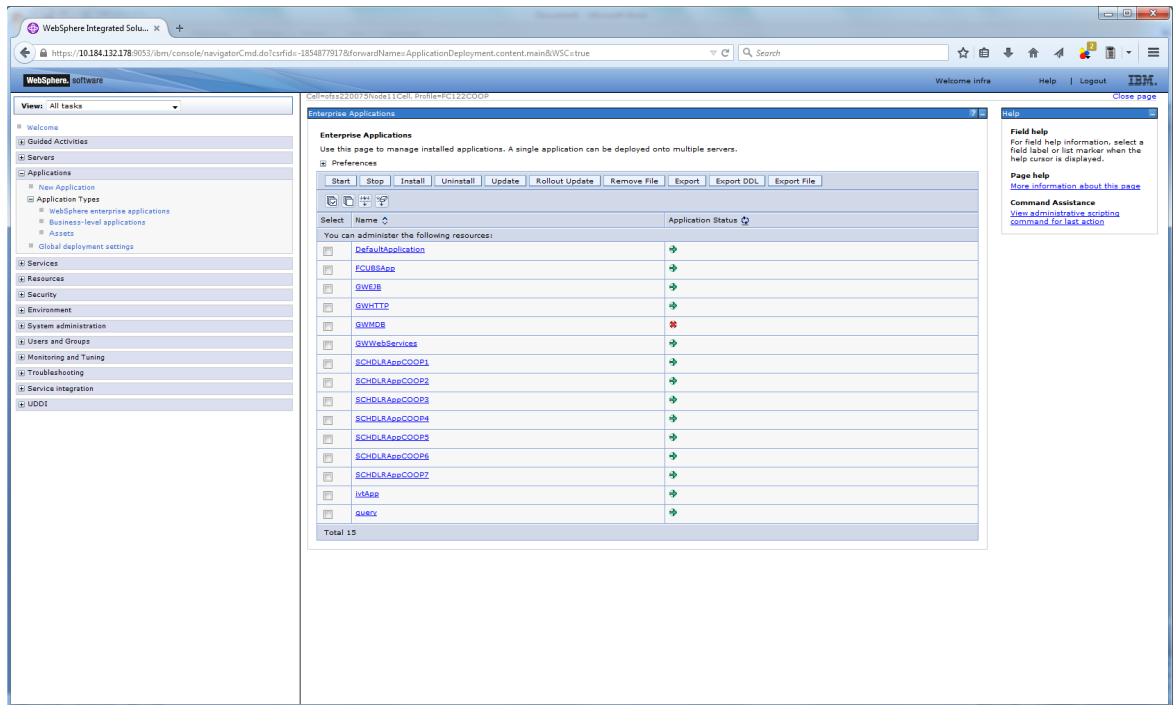
16. Click on next and following screen is displayed.



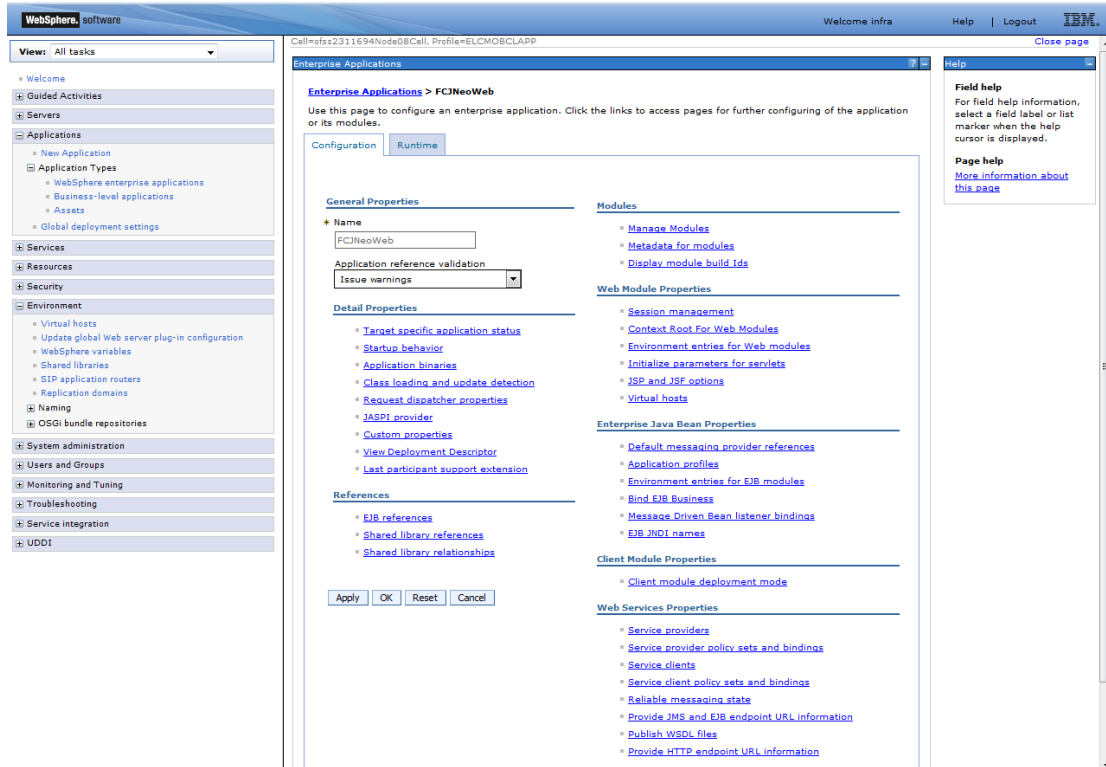
17. Click on Finish and following screen is displayed.



18. Click on save and following screen is displayed.

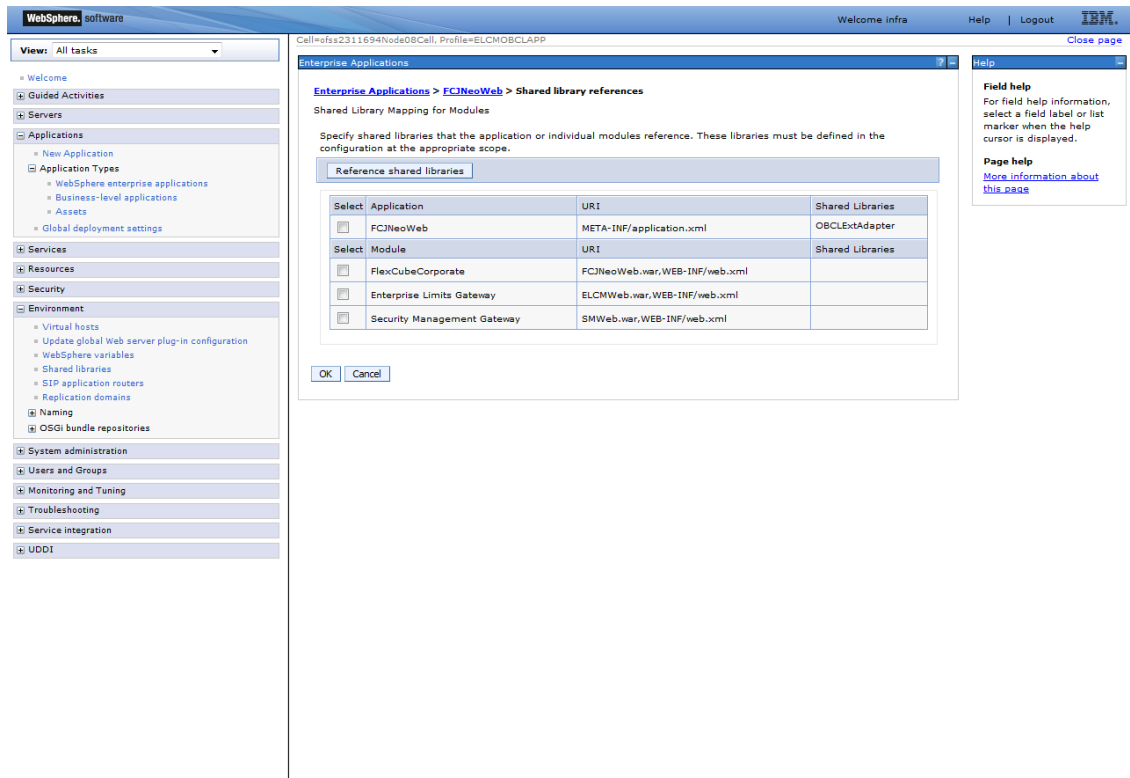


19. Click on installed FCUBS Application and the following screen is displayed.



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

The following screen is displayed.



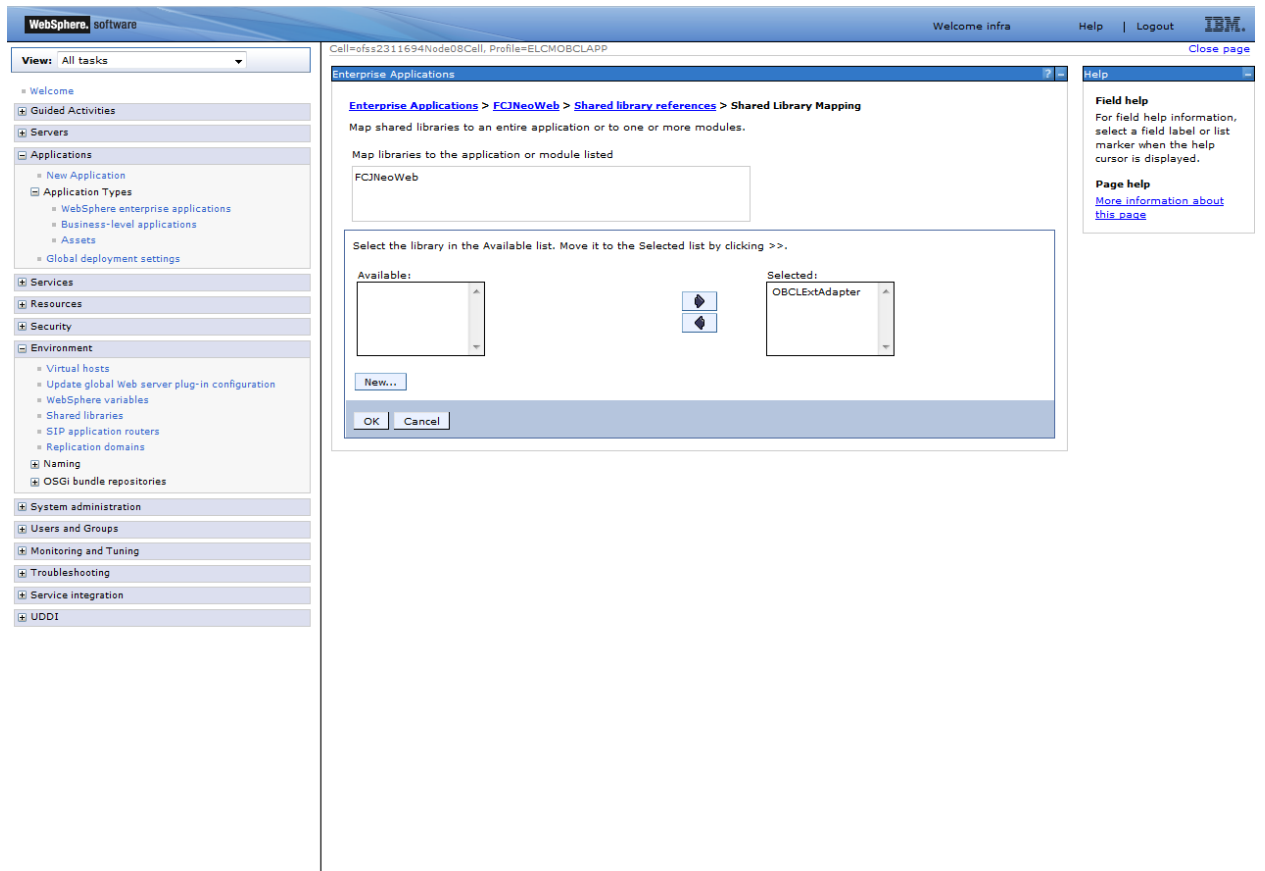
21. Select your Application and click 'Reference Shared Library'.

The following screen is displayed.

The screenshot displays the IBM WebSphere Administration Console interface. The top navigation bar includes the text "WebSphere, software" on the left, "Welcome infra" in the center, and "Help | Logout" on the right, with the IBM logo. Below the navigation bar, the breadcrumb path is "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, there is a text input field containing "FCJNeoWeb". A dialog box is open, titled "Select the library in the Available list. Move it to the Selected list by clicking >>.". The dialog box has two list boxes: "Available:" containing "OBCLExtAdapter" and "Selected:". Between the lists are two arrow buttons (left and right). Below the lists are "New...", "OK", and "Cancel" buttons. On the right side of the console, there is a "Help" panel with "Field help" and "Page help" sections. The "Page help" section contains the text "More information about this page" with a link. In the bottom right corner, there is a small notification window from "Sivakannan Somasundaram" with the subject "FW: 12.5 Core Support Check in - Request for approval".

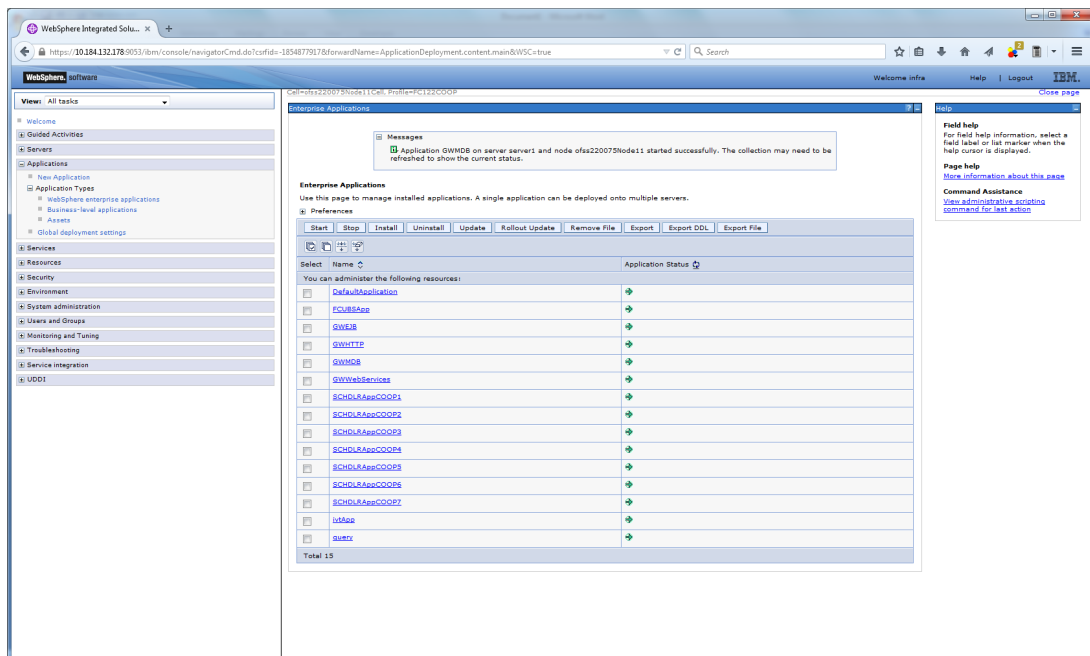
22. Click on right arrow button to add Available shared library reference.

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:

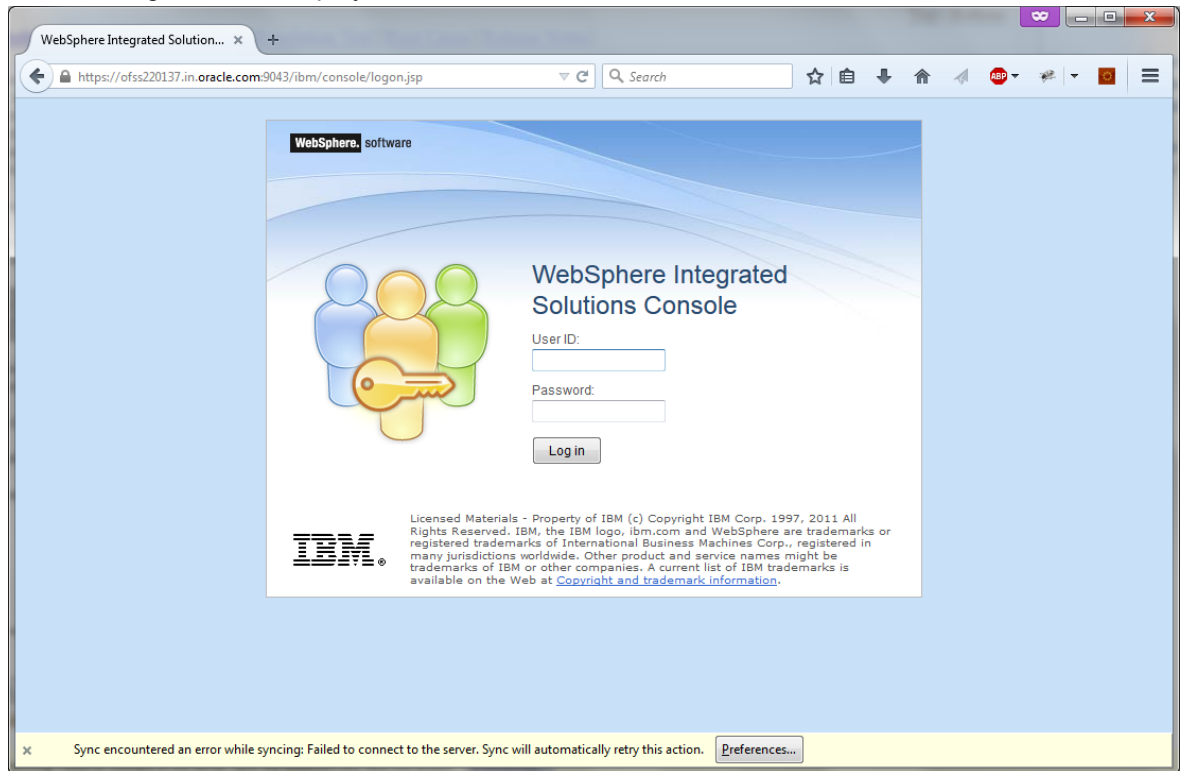
Open an internet browser and type the WebSphere Admin Console URL

`http://{Host}:{Port}/console.`

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

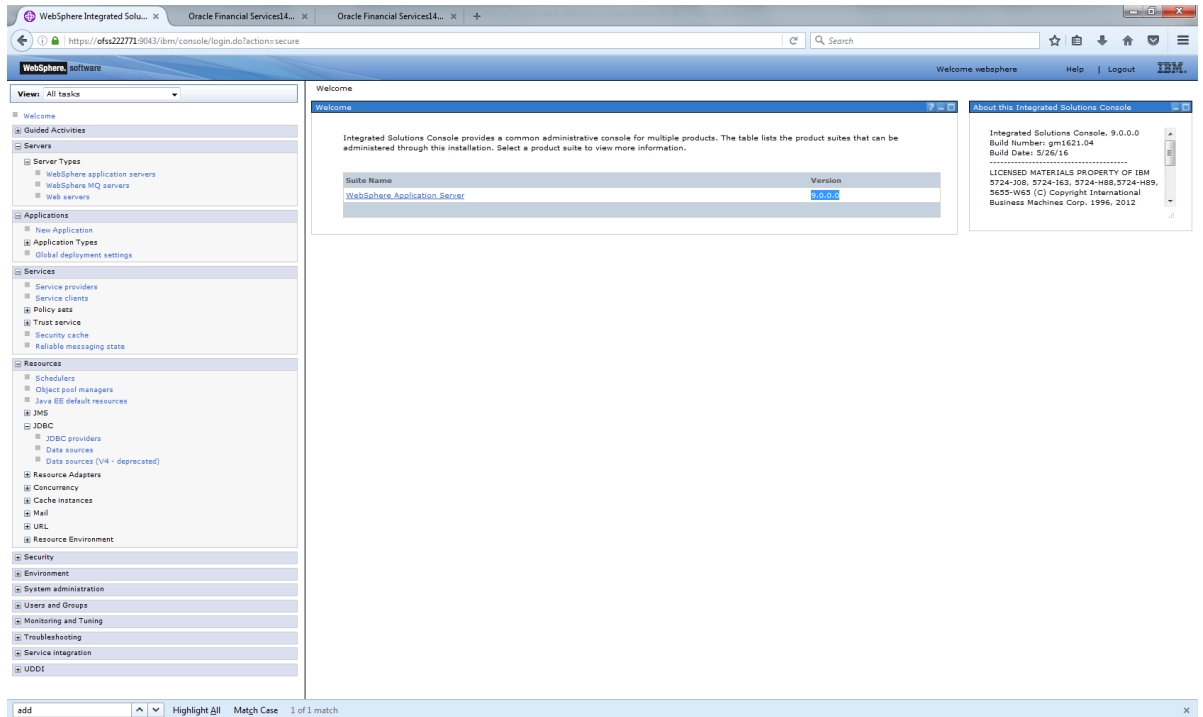
In the above example, 10.10.10.10 is the machine IP address on which WebSphere is running.

The following screen is displayed:



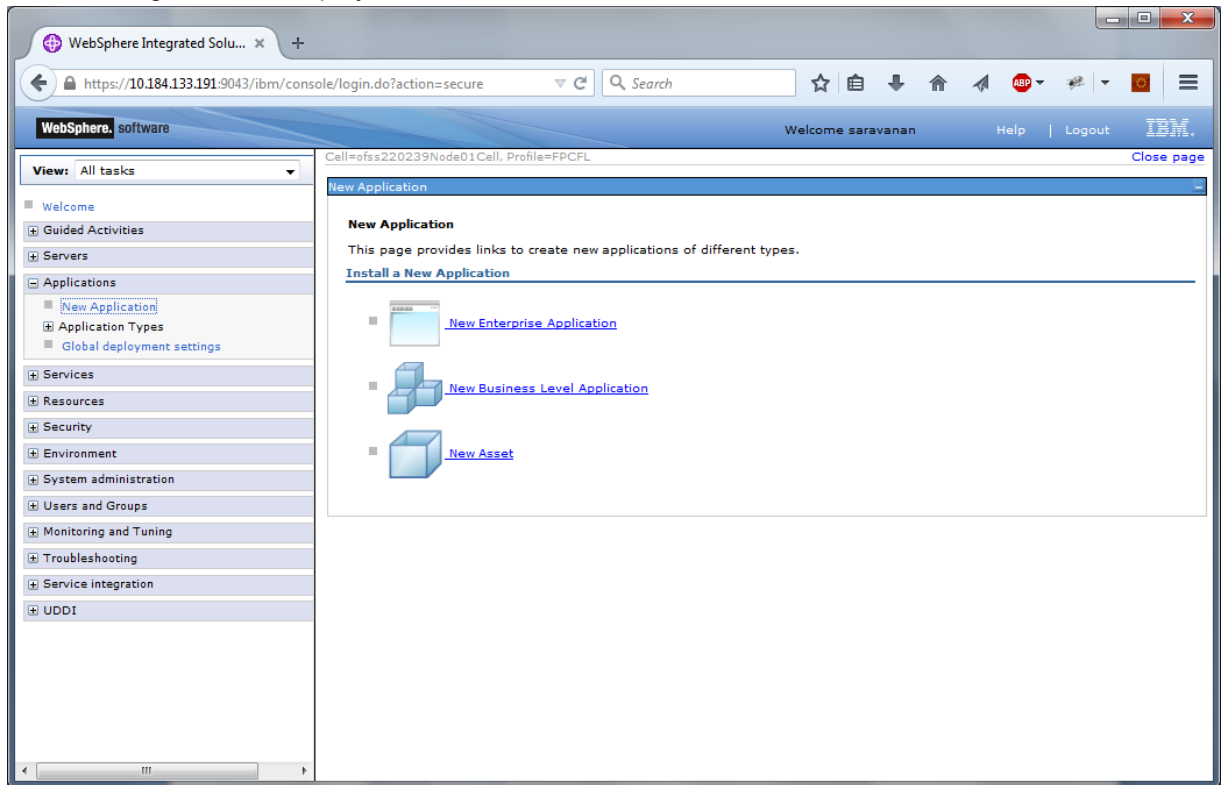
2. Enter the user name and password and click 'Log In' to log in to the application server.
3. Navigate to the WebSphere Home Page.

The following screen is displayed.

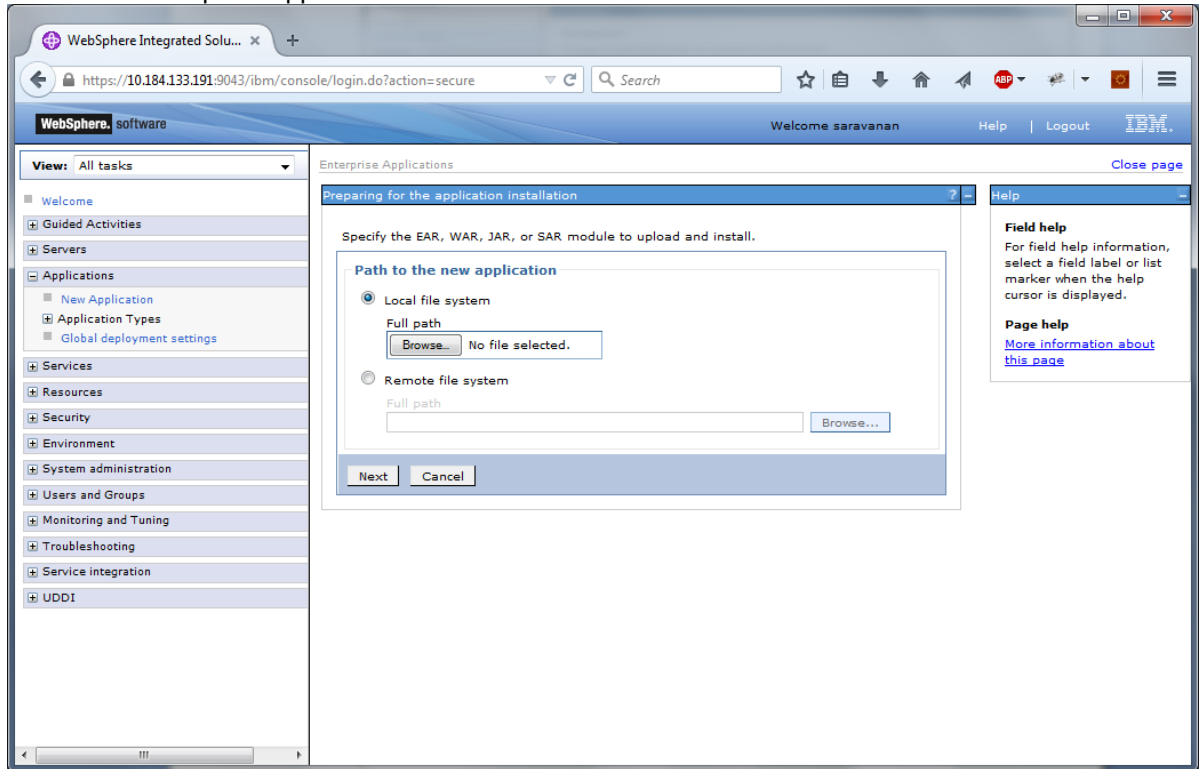


4. Expand Applications from left-side menu and Click 'New Application'.

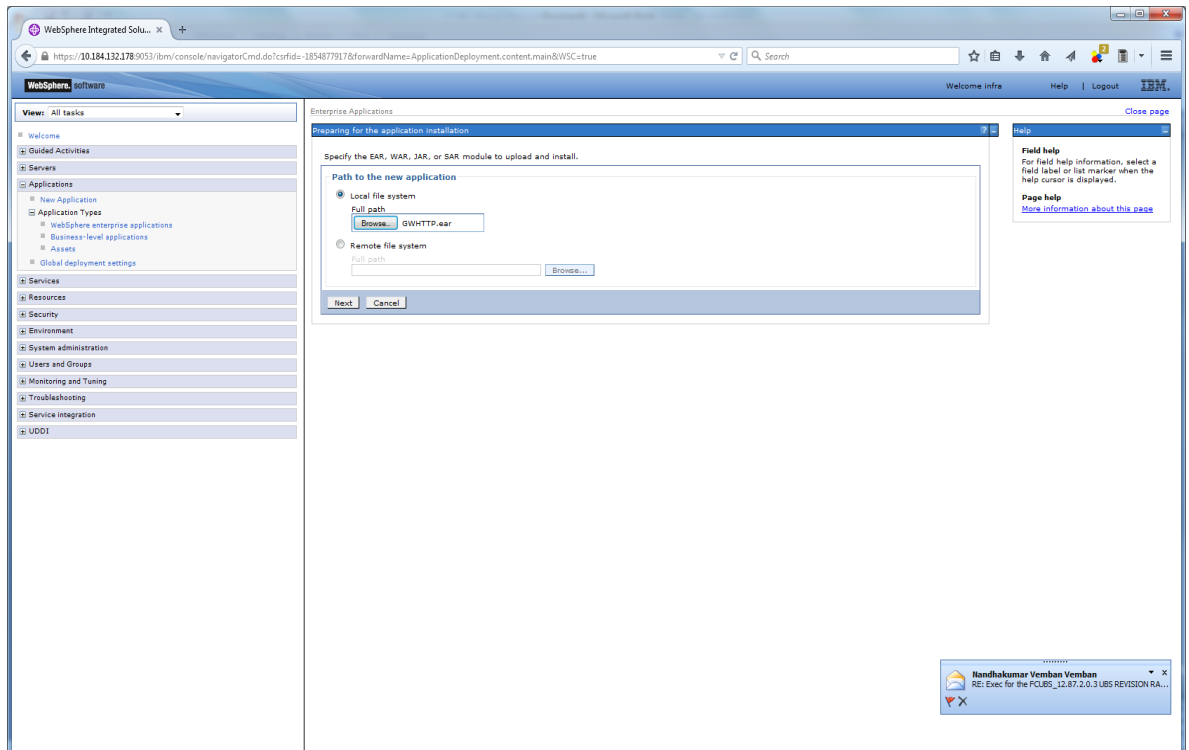
The following screen is displayed.



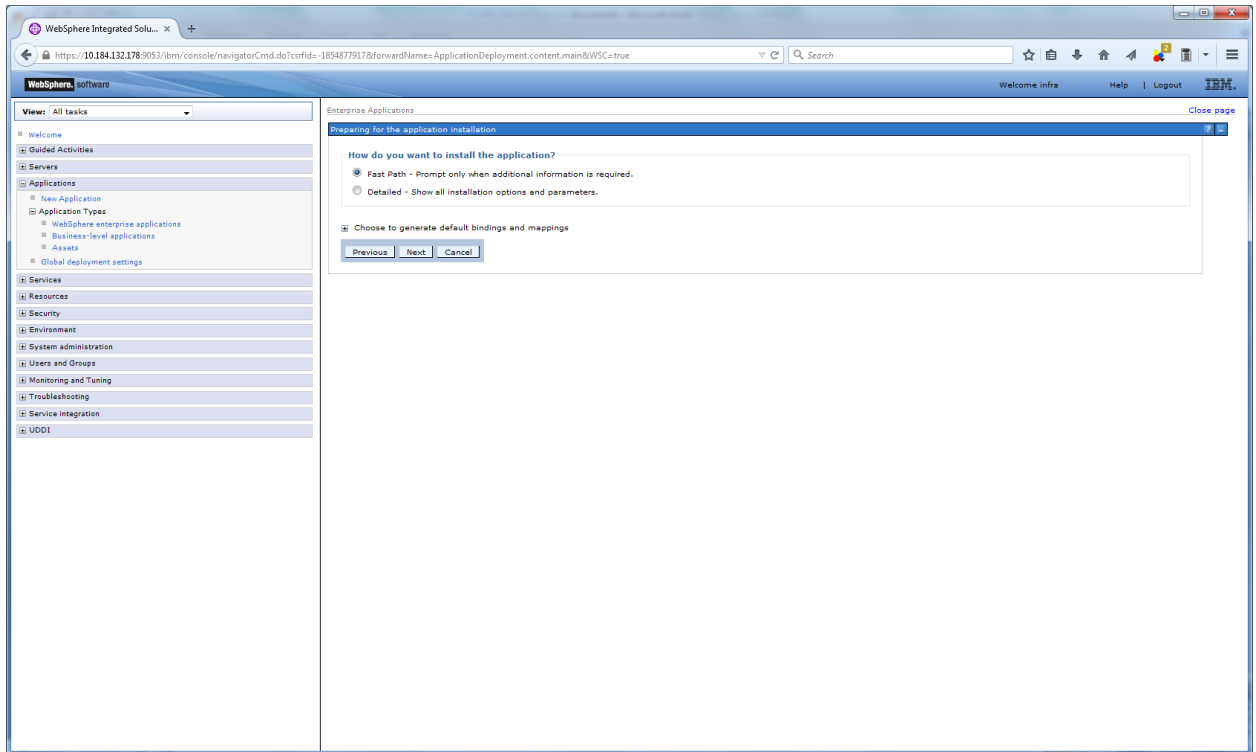
5. Click 'New Enterprise Application.'



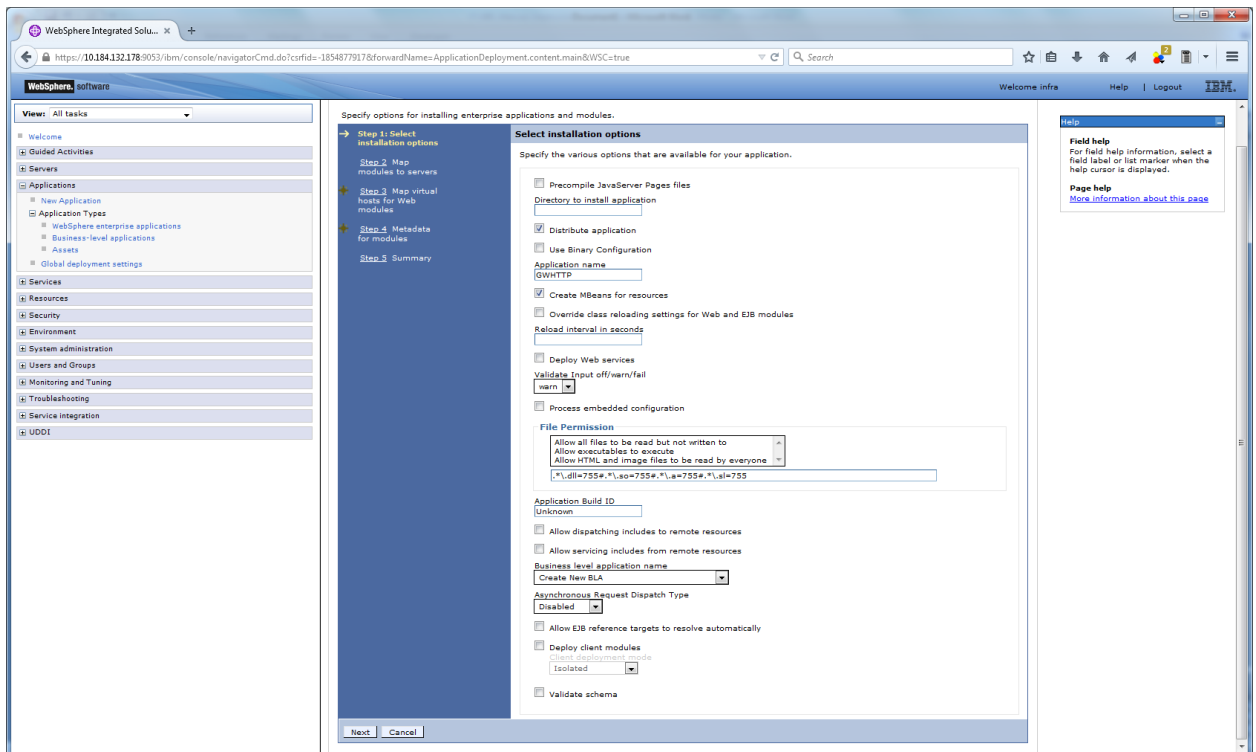
6. Browse the application EAR file and click next button



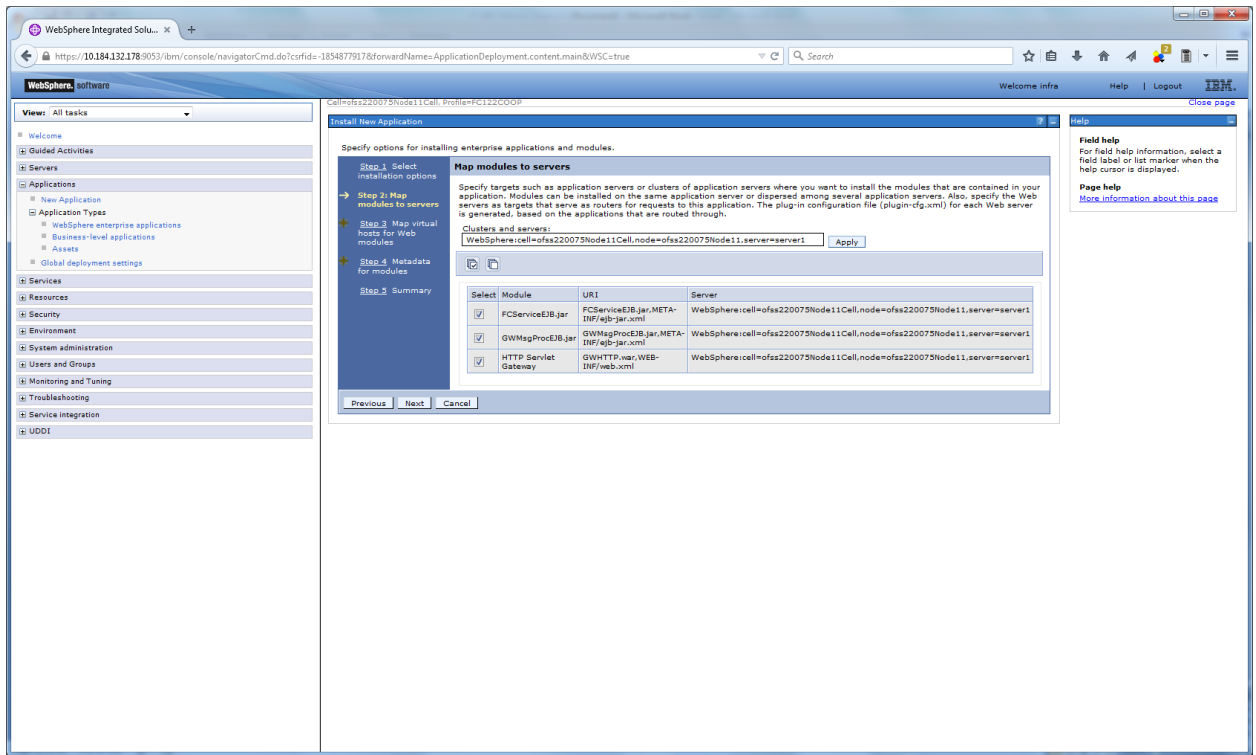
7. Click next and the following screen is displayed.



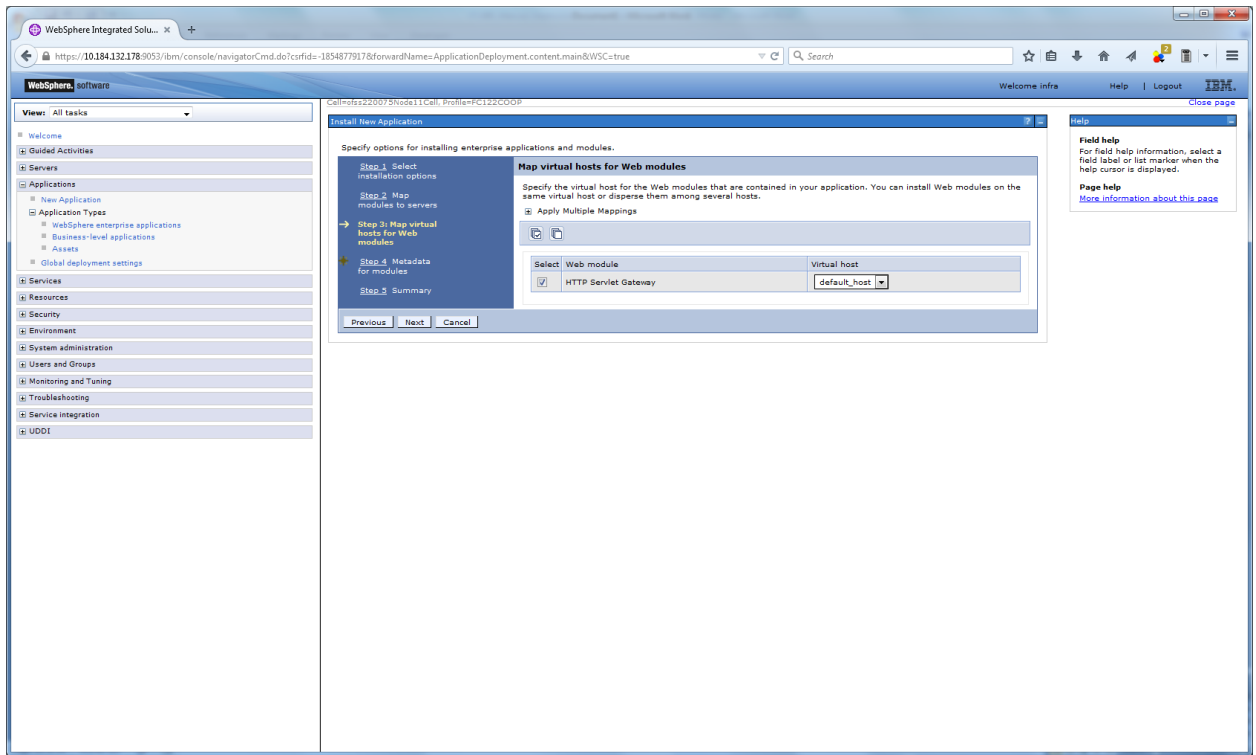
8. Click next and the following screen is displayed.



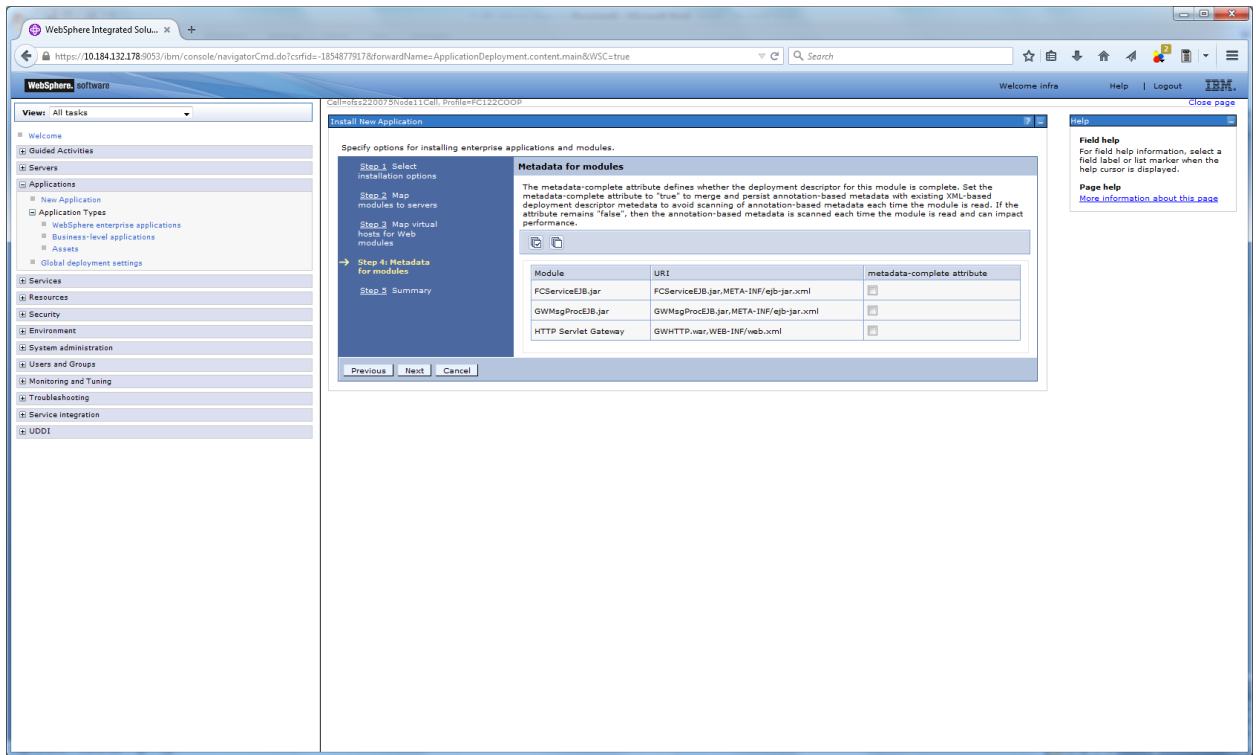
9. Click next and the following screen is displayed.



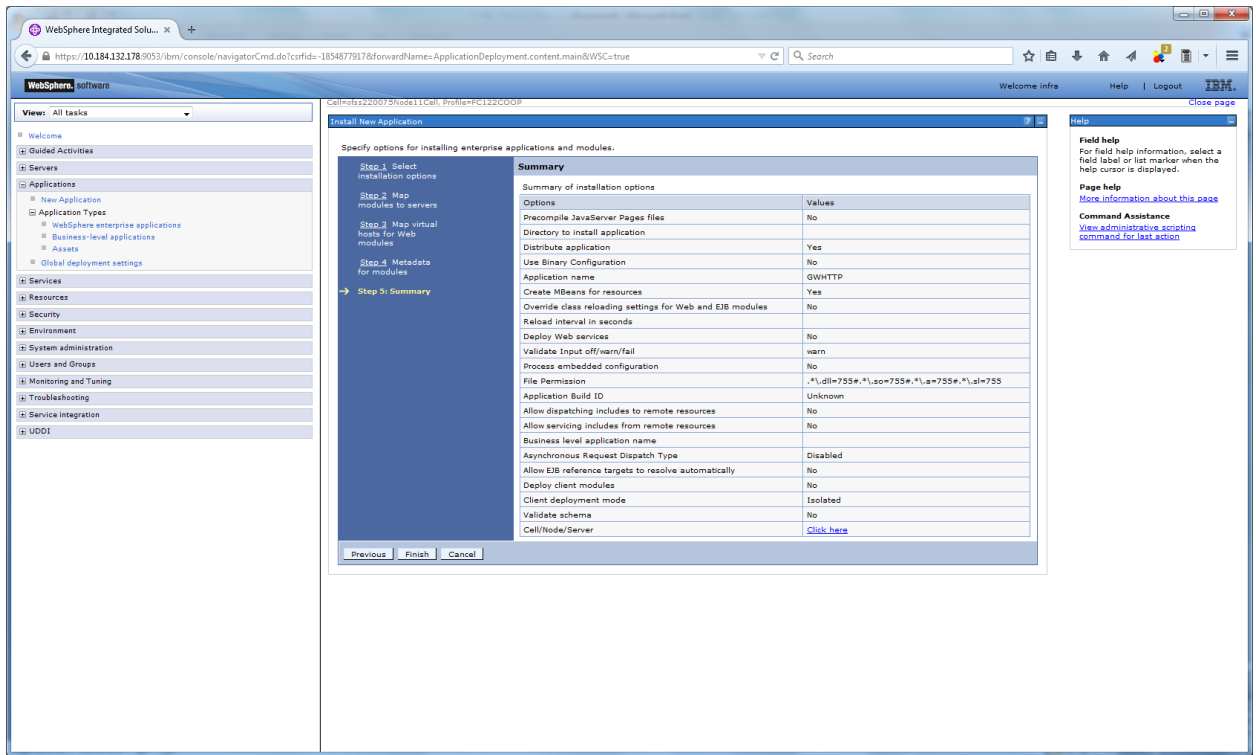
10. Click next and the following screen is displayed.



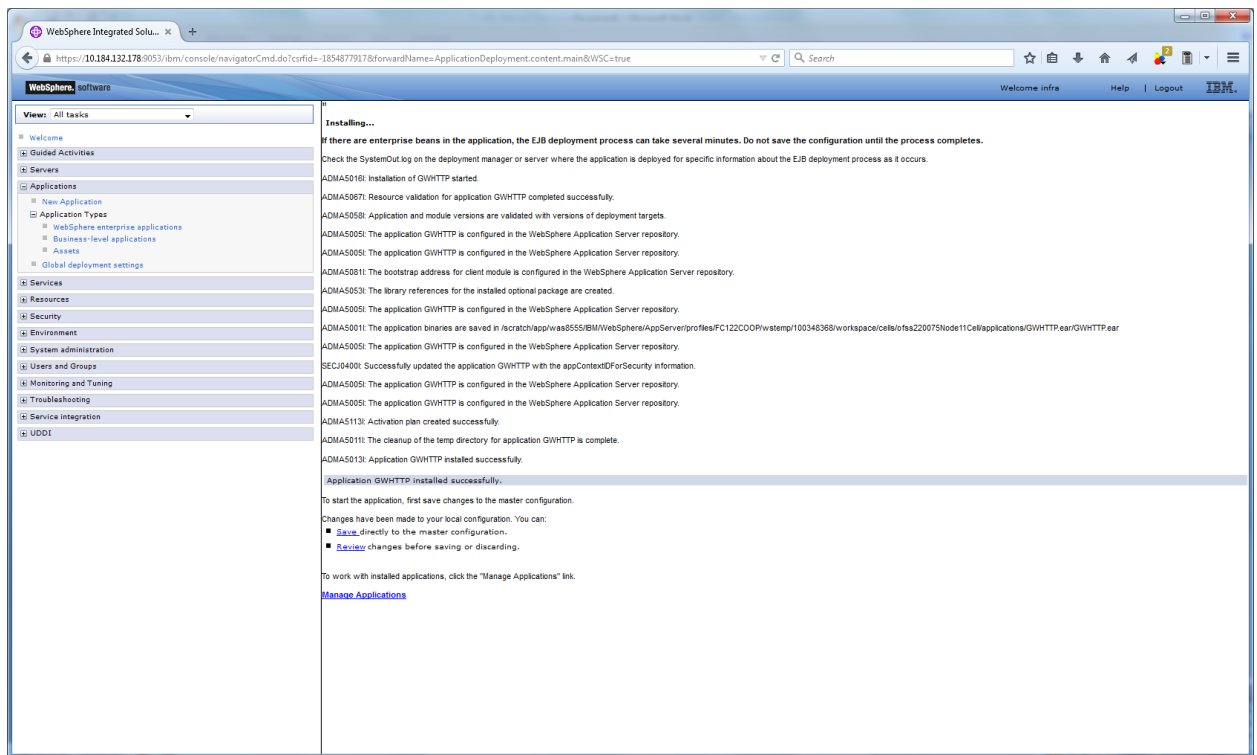
11. Click next and the following screen is displayed.



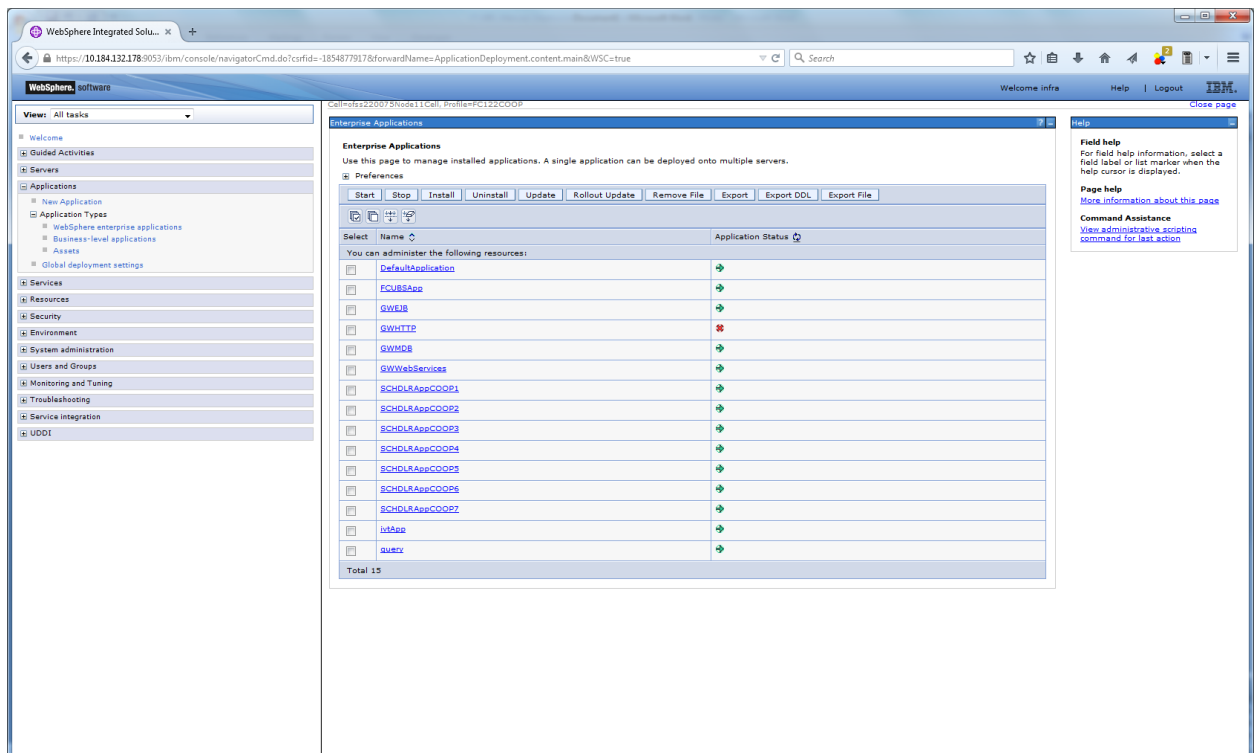
12. Click next and the following screen is displayed.



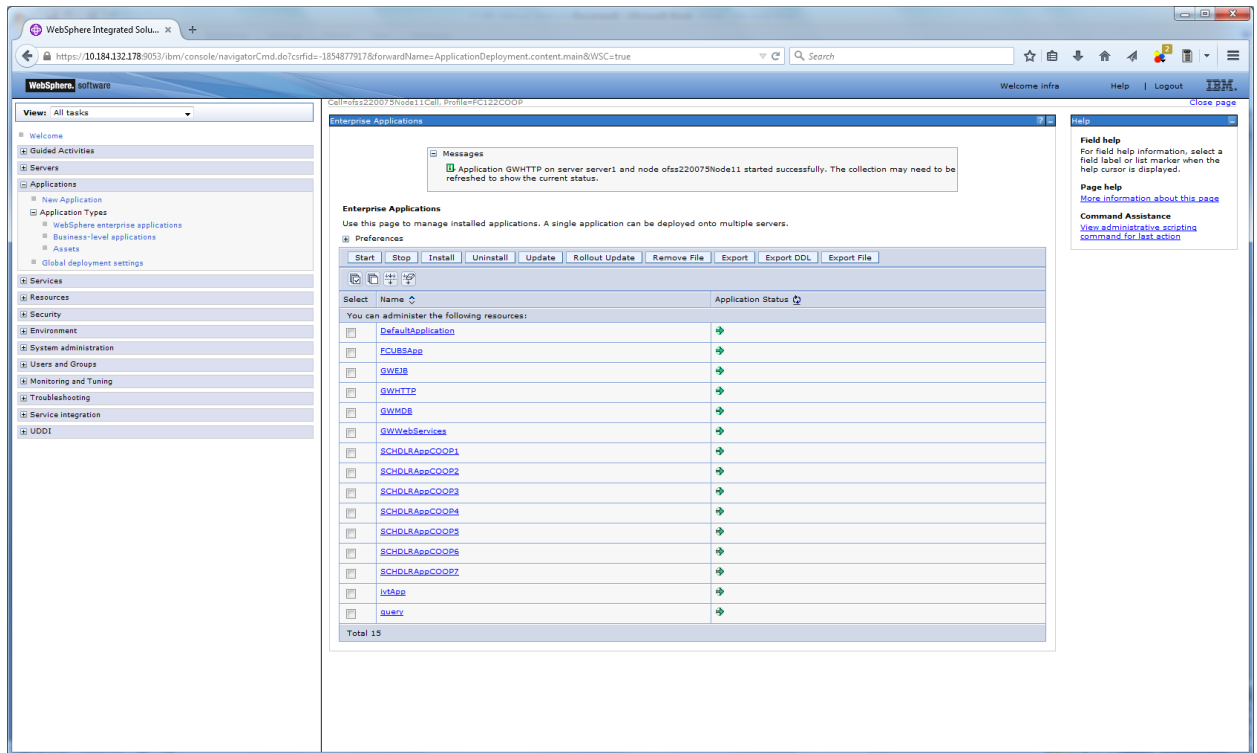
13. Click on finish and the following screen is displayed.



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:

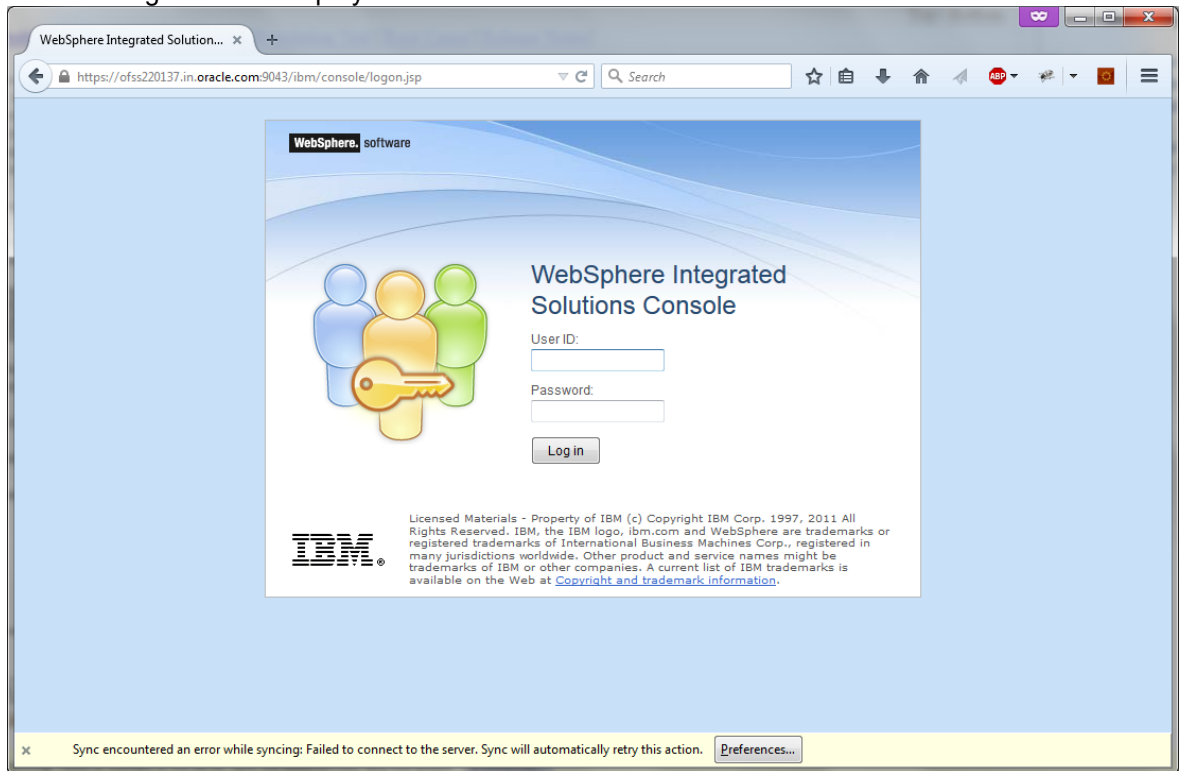
1. Open the Administrative Console of WebSphere server:

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

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

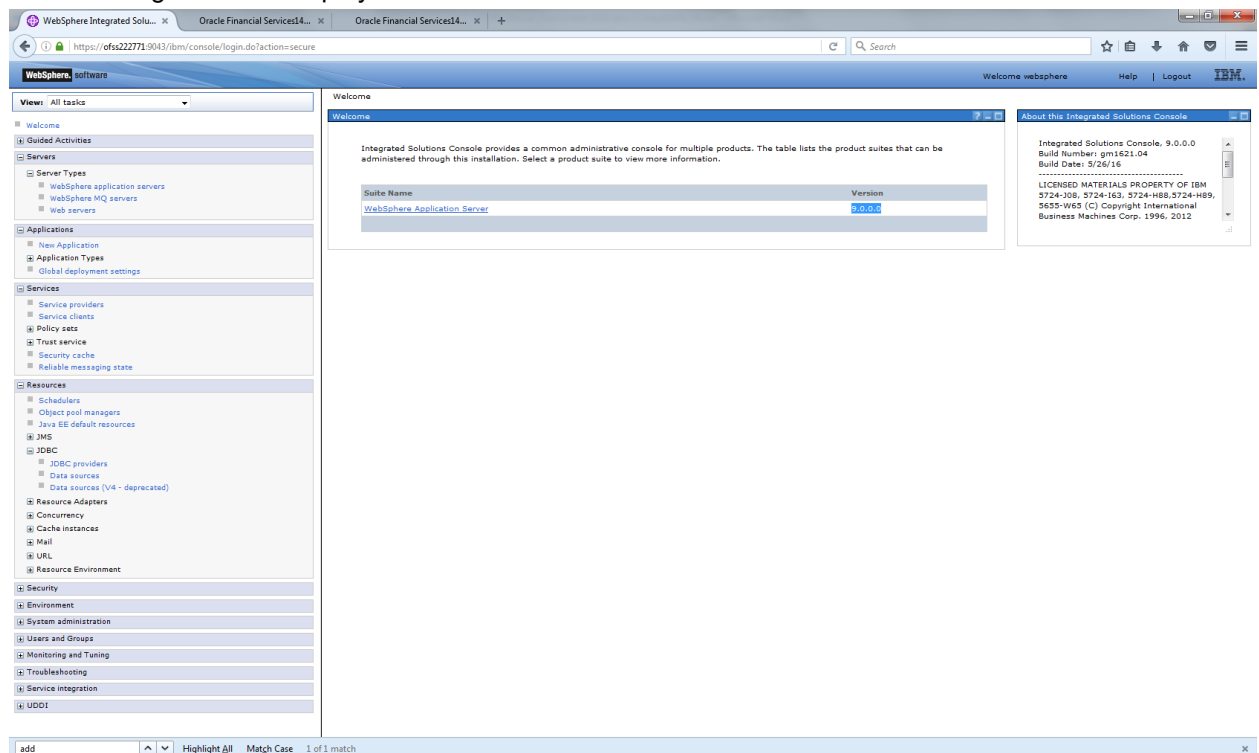
In the above example, 10.10.10.10 is the machine IP address on which WebSphere is running.

The following screen is displayed:



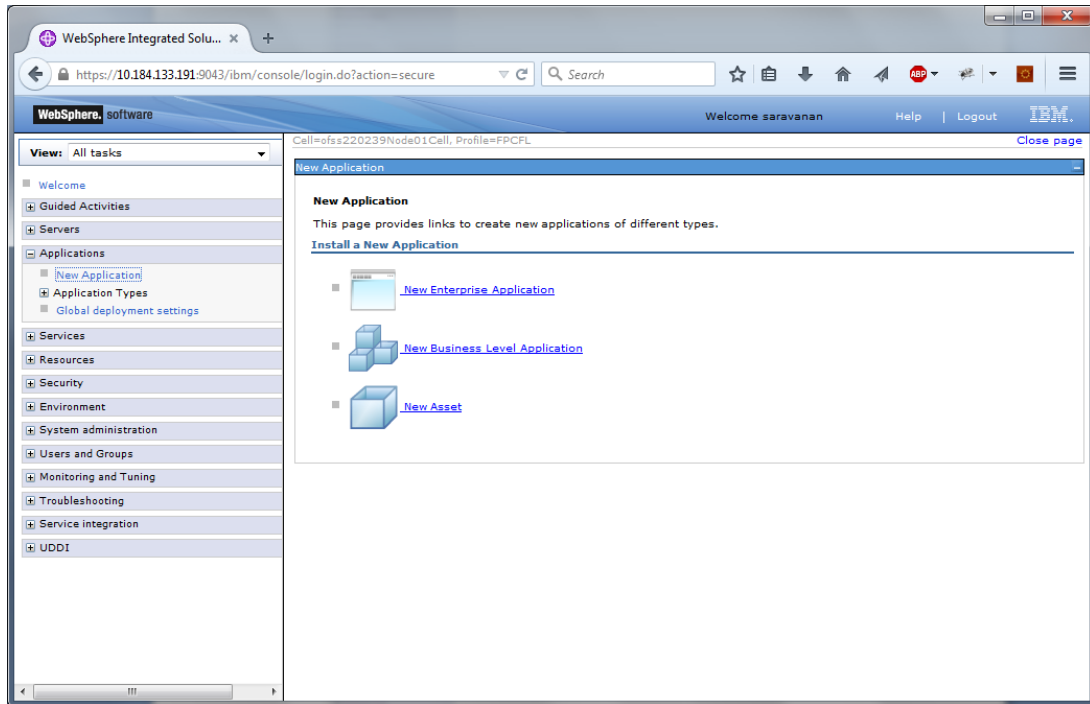
2. Enter the user name and password and click 'Log In' to log in to the application server.
3. Navigate to the WebSphere Home Page.

The following screen is displayed.

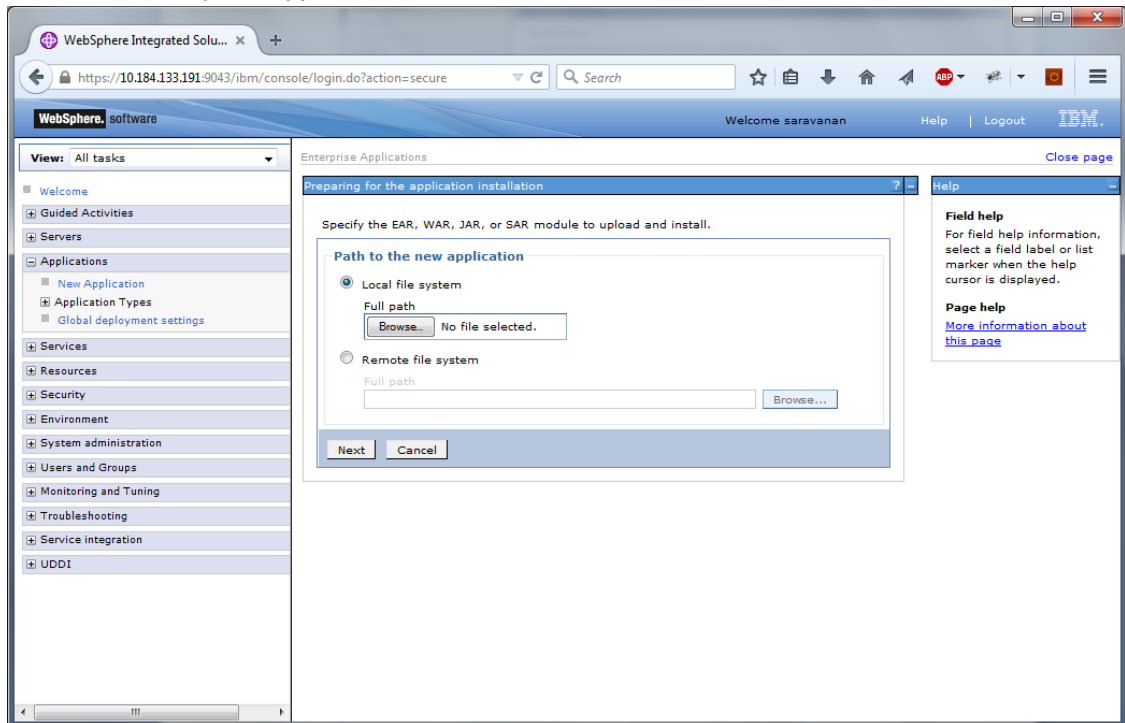


- Expand Applications from left-side menu and Click 'New Application'.

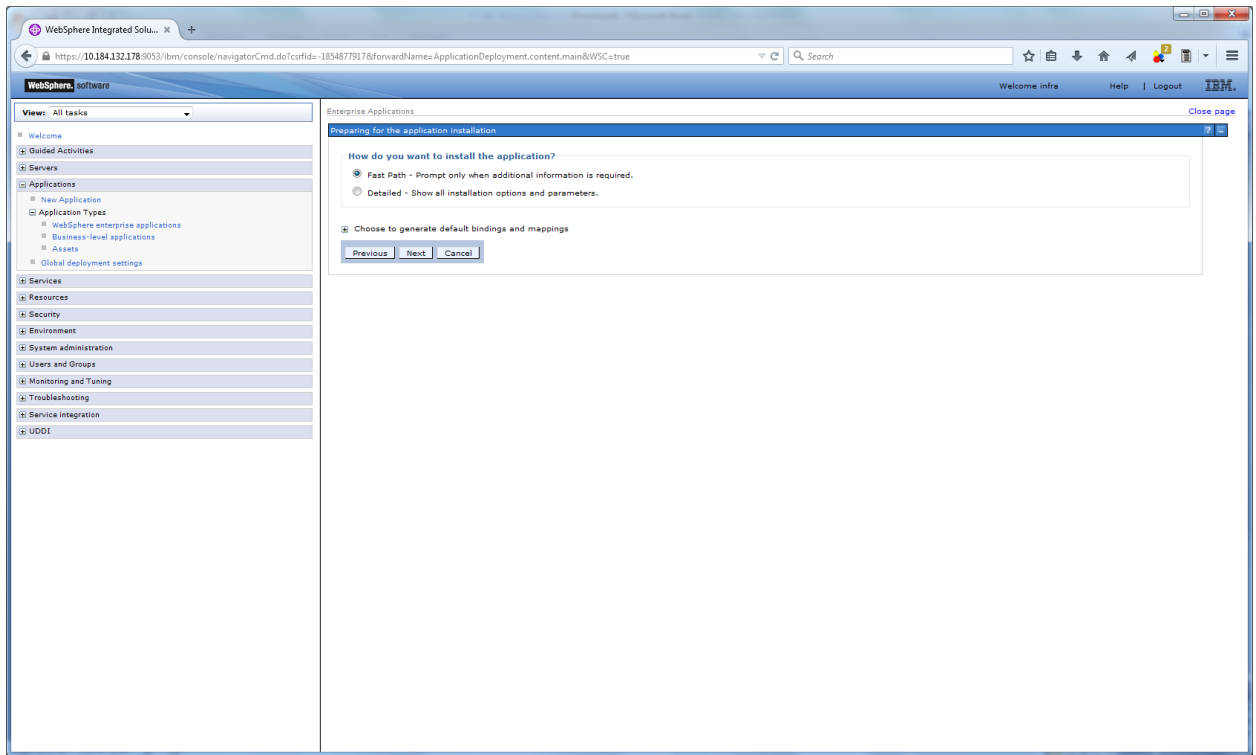
The following screen is displayed.



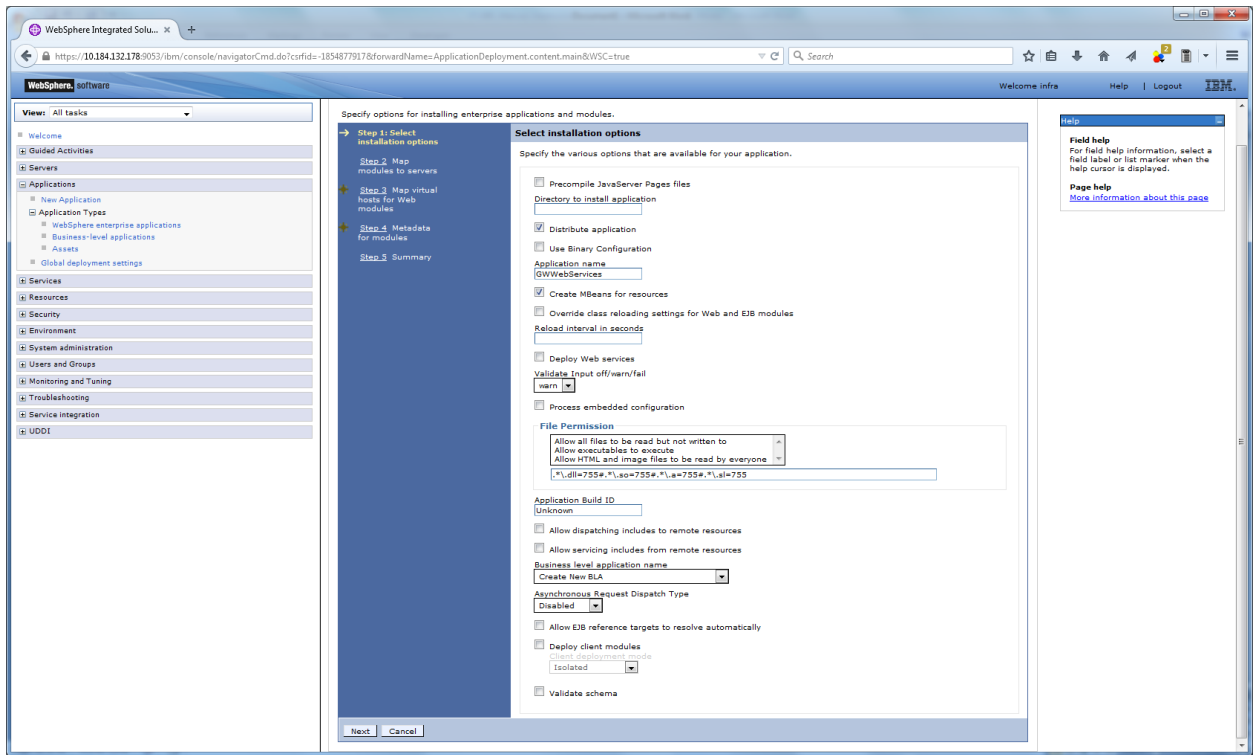
- Click 'New Enterprise Application'.



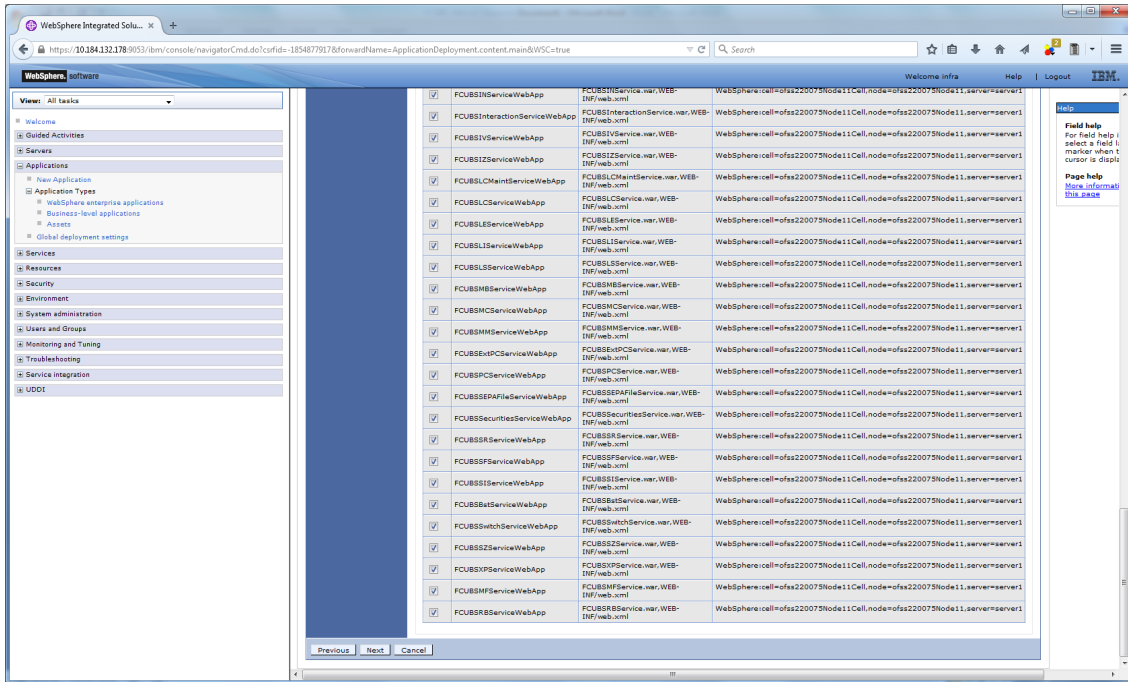
6. Browse the application EAR file and click next button.



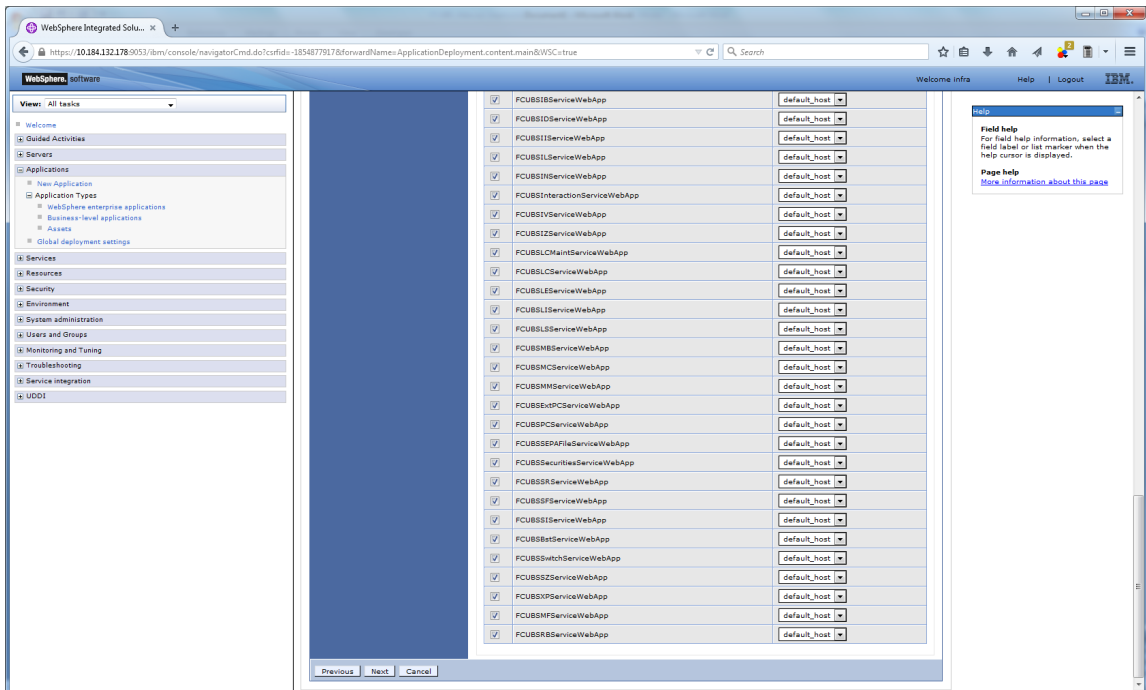
7. Click on next and the following screen is displayed.



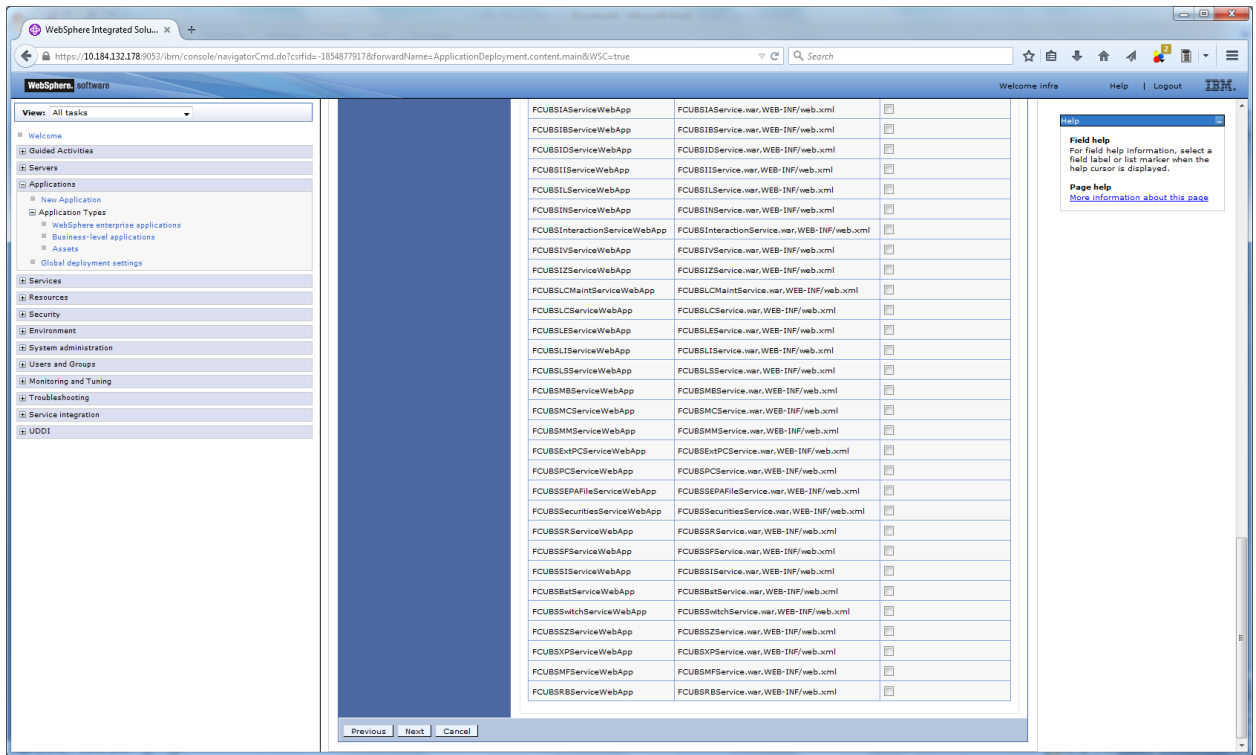
8. Click on next and the following screen is displayed.



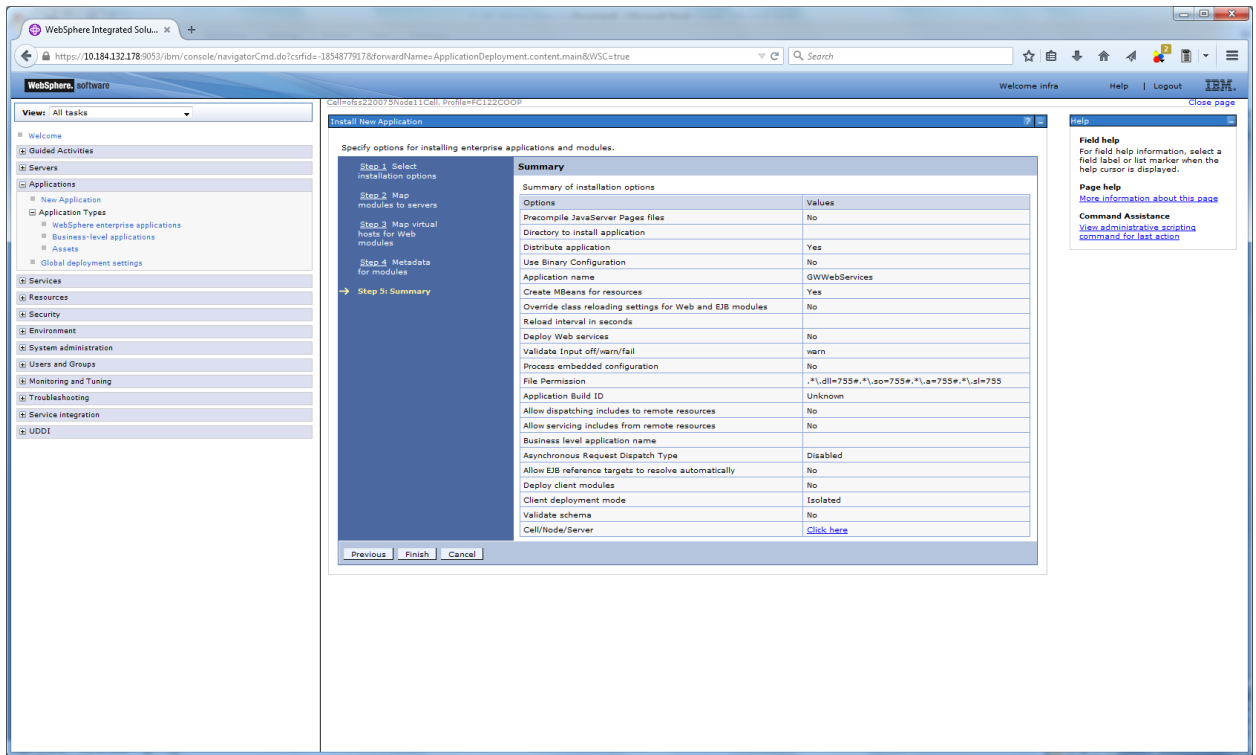
9. Click on next and the following screen is displayed.



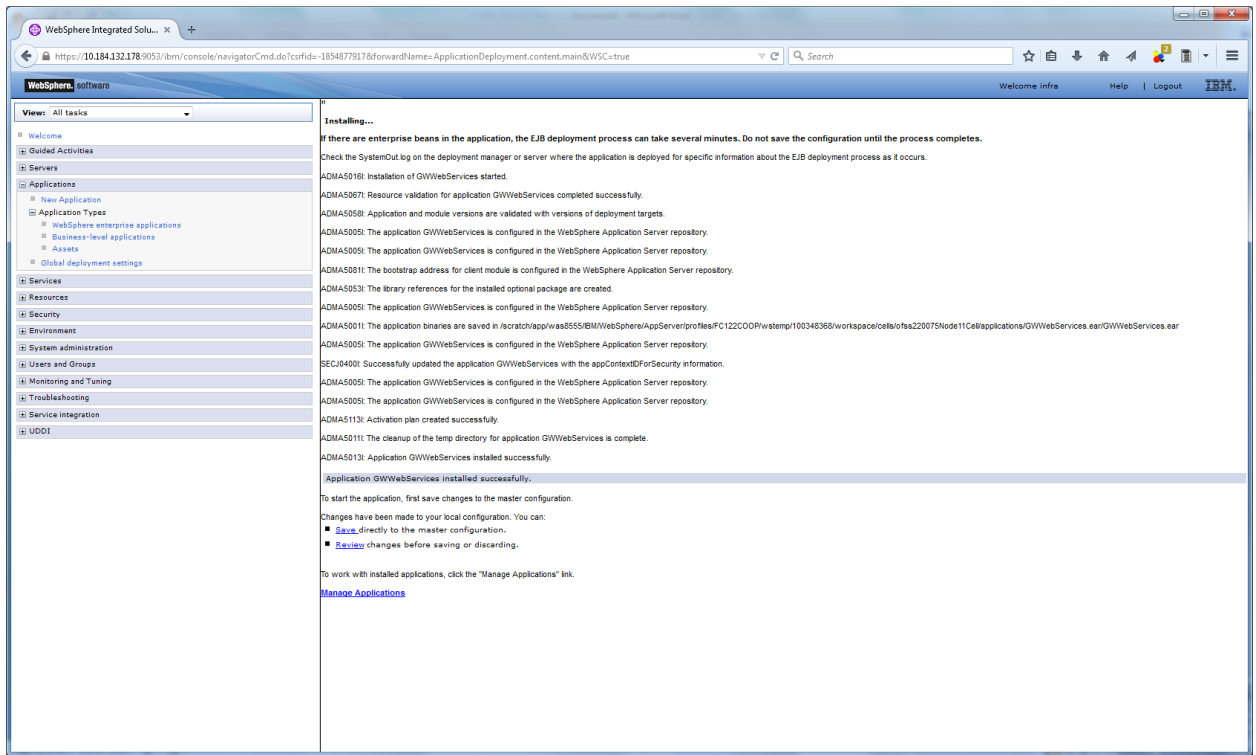
10. Click on next and the following screen is displayed.



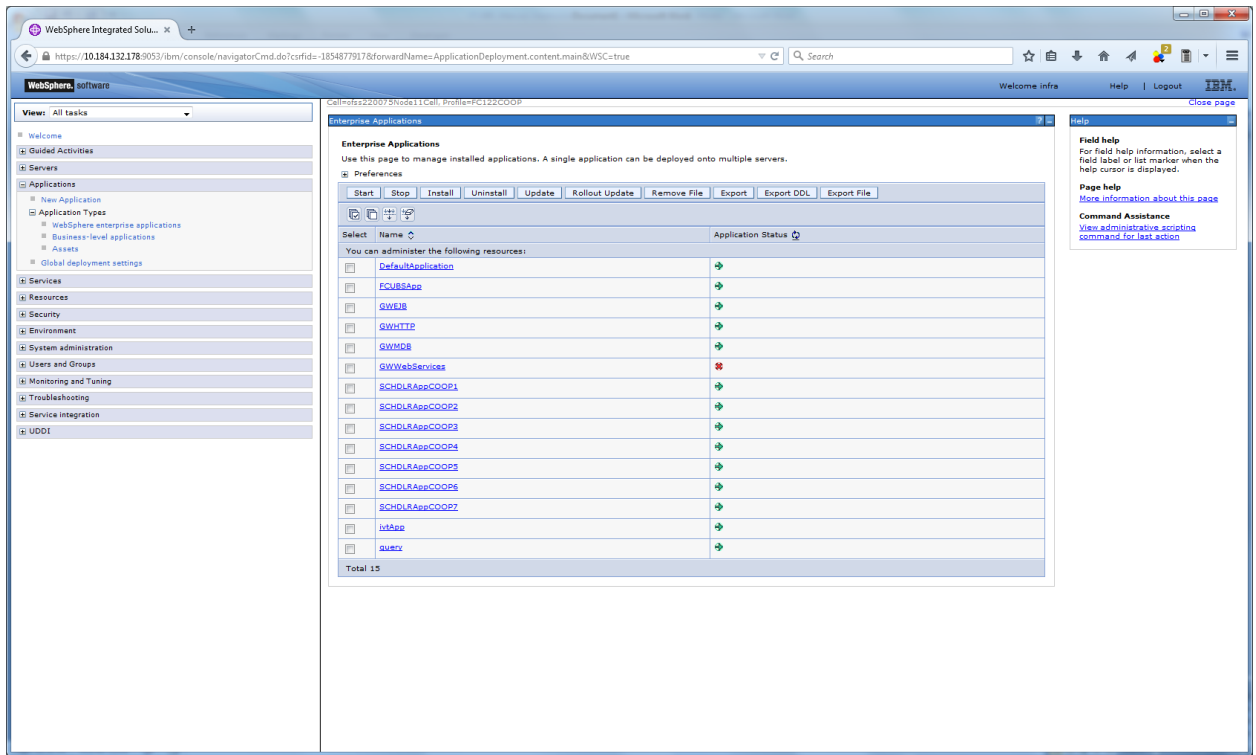
11. Click on next and the following screen is displayed.



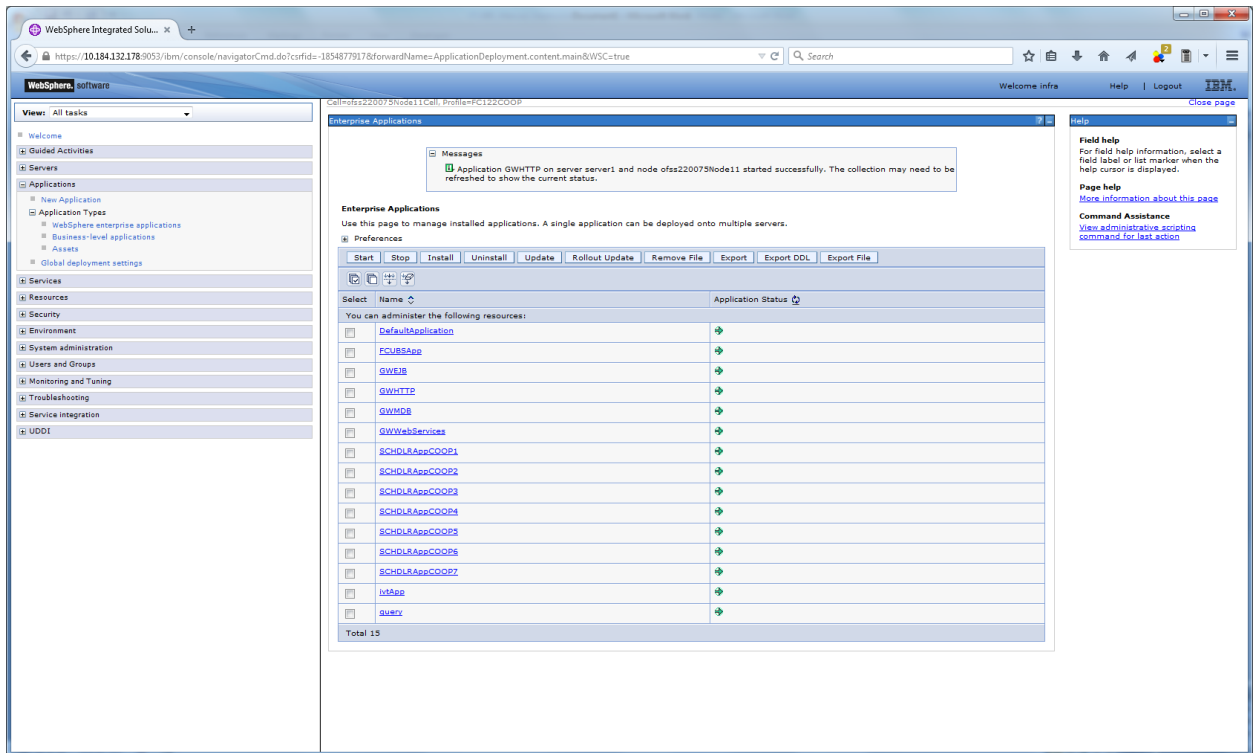
12. Click on finish and the following screen displayed.



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] [2021]
Version 12.87.7.0.0

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
<https://www.oracle.com/industries/financial-services/index.html>

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