

Deploying Oracle FLEXCUBE Application on WebLogic
Oracle FLEXCUBE Universal Banking
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1. Deploying Oracle FLEXCUBE on WebLogic

1.1 Introduction

This chapter explains the steps to deploy Oracle FLEXCUBE UBS application into Oracle WebLogic application server in centralized and decentralized modes. In centralized mode, branch and host are setup in a single PC. In decentralized mode, branch and host are setup in different PCs.

1.2 Building Application

For building Oracle FLEXCUBE Application in centralized and decentralized modes, refer to the following chapters.

1.2.1 Building Application in Centralized Mode

Refer to the chapter 'Building Application in Centralized Mode'. This includes the following details:

- Creating Property File
- Building Centralized EAR File
- Configuring Plug-ins
- Loading Properties File

1.2.2 Building Application in Decentralized Mode

Refer to the chapter 'Building Application in Decentralized Mode'. This includes the following details:

- Creating Property File
- Building Decentralized EAR File
- Configuring Plug-ins
- Loading Properties File

1.3 Deploying Application in Oracle WebLogic

This section explains the method of deploying Oracle FLEXCUBE Application into Oracle WebLogic application server.

1.3.1 Deploying Integration Adapter EAR from WebLogic Administration Console

To deploy Oracle FLEXCUBE Application from Oracle WebLogic administration console, follow the steps given below.

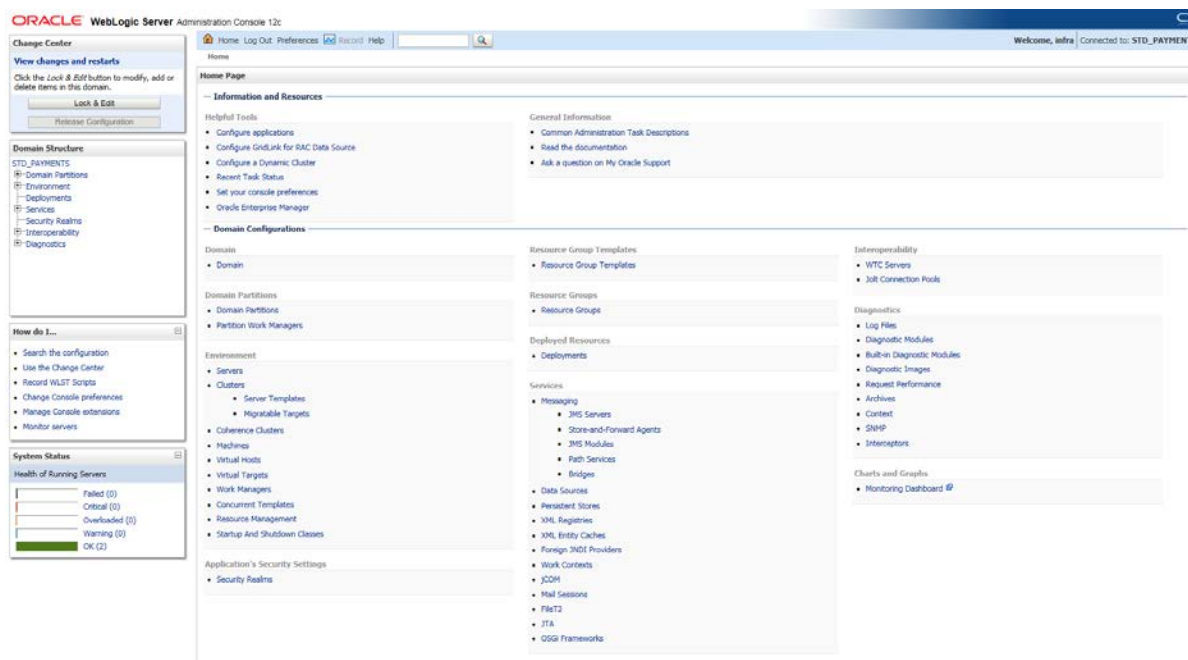
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser.

Eg: <http://10.10.10.10:1001/console>

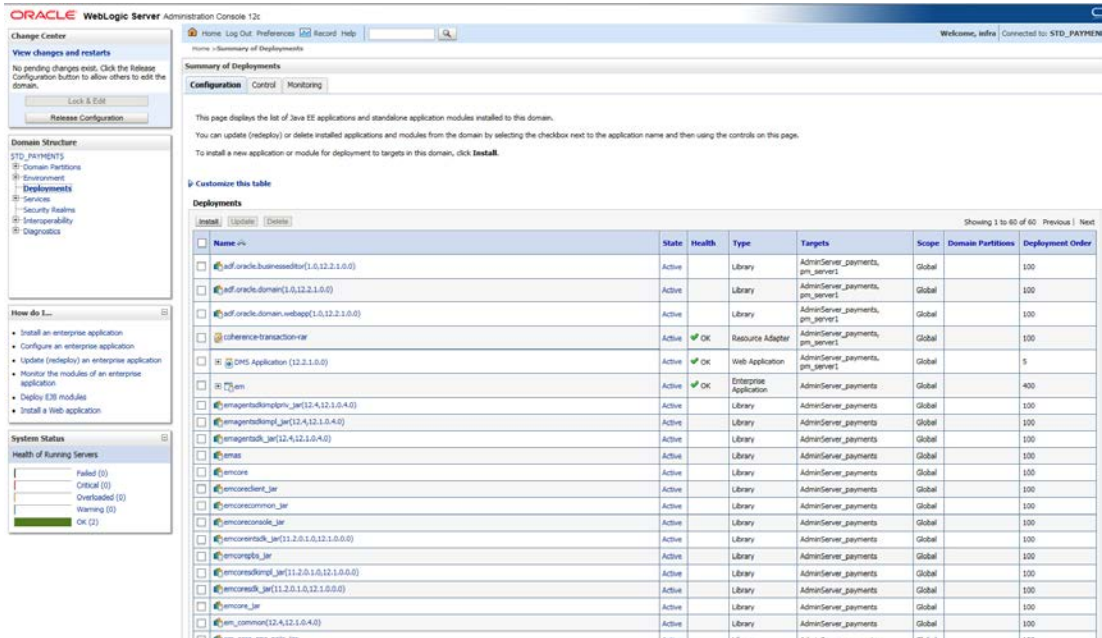
The following screen is displayed:



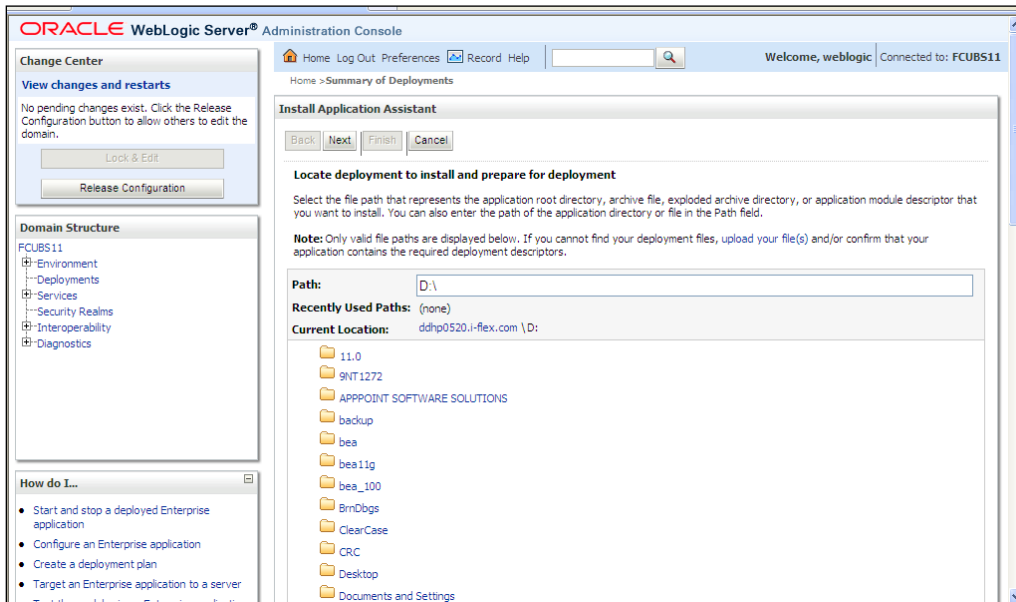
- Specify the WebLogic administrator user name and password. Click 'Log In'.



- You need to deploy an Integration adapter EAR. For e.g. 'OBCLExtAdapter.ear or ExtAdapter.ear'. Go to 'Deployment'.
Click 'Lock & Edit' button to enable the buttons. This action enables the buttons.



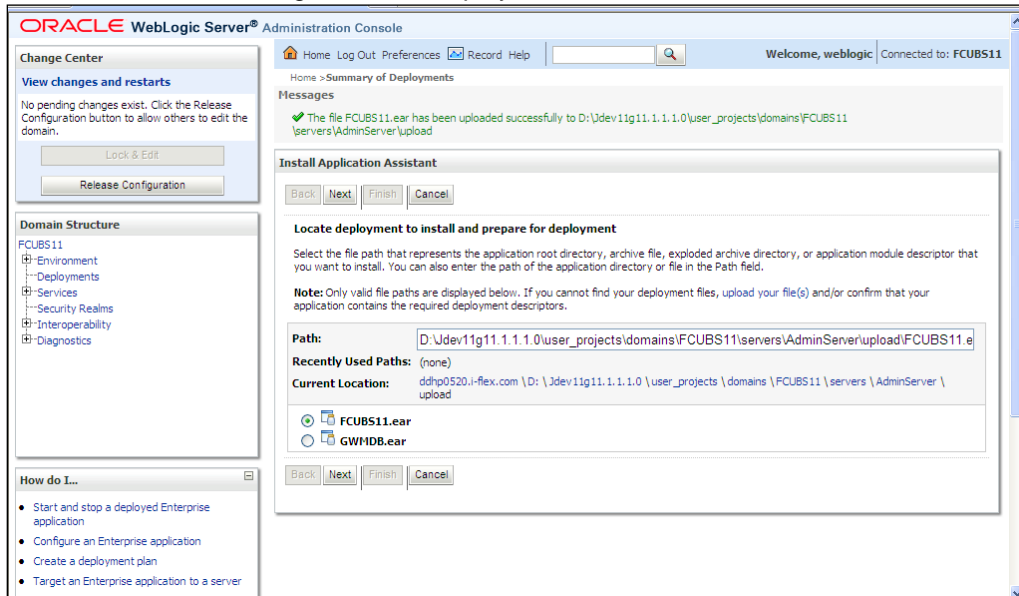
4. Click 'Install' button. The following screen is displayed:



5. In order to specify the path/location of the enterprise archive file, click the link 'upload your file(s)'.

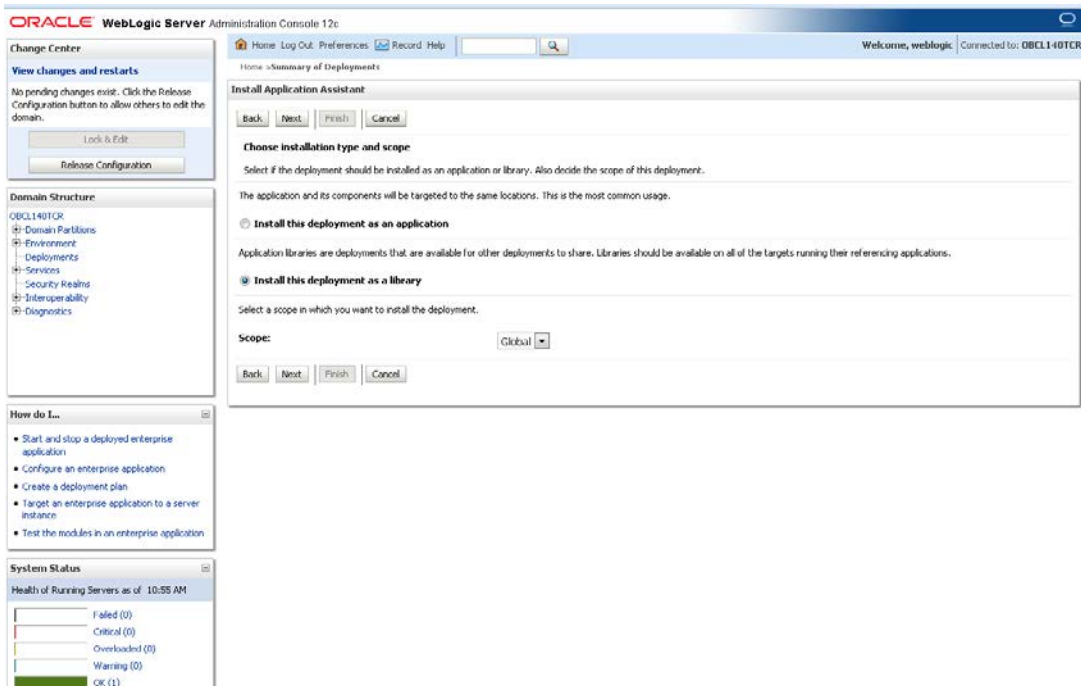
6. Specify the EAR file path. You can use the 'Browse' button to locate the file.

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



8. Select the application Adapter EAR from the list.

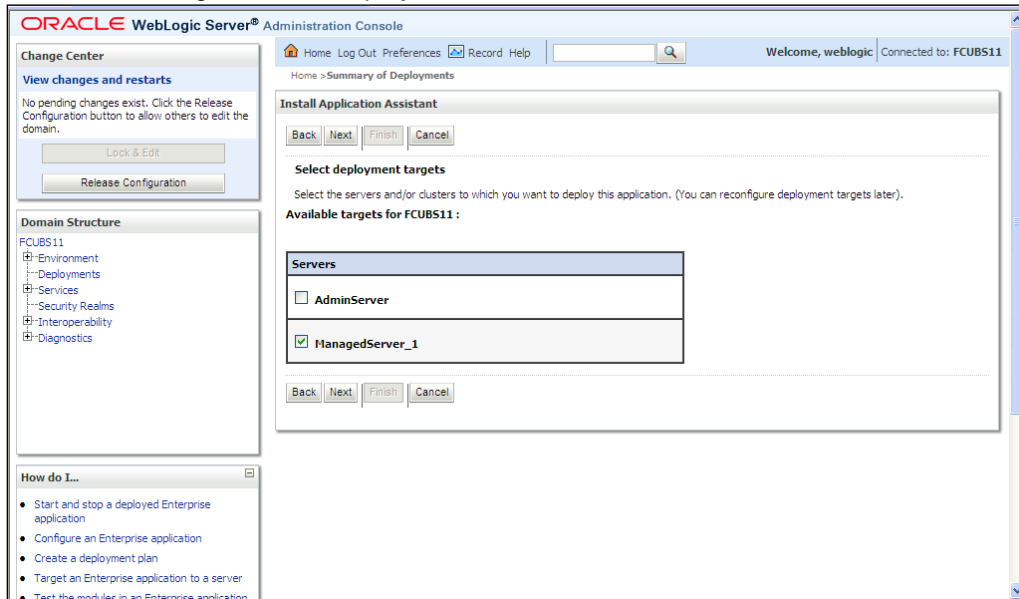
9. Click 'Next'. Following screen is displayed:



10. Choose the targeting style 'Install this deployment as a library'.

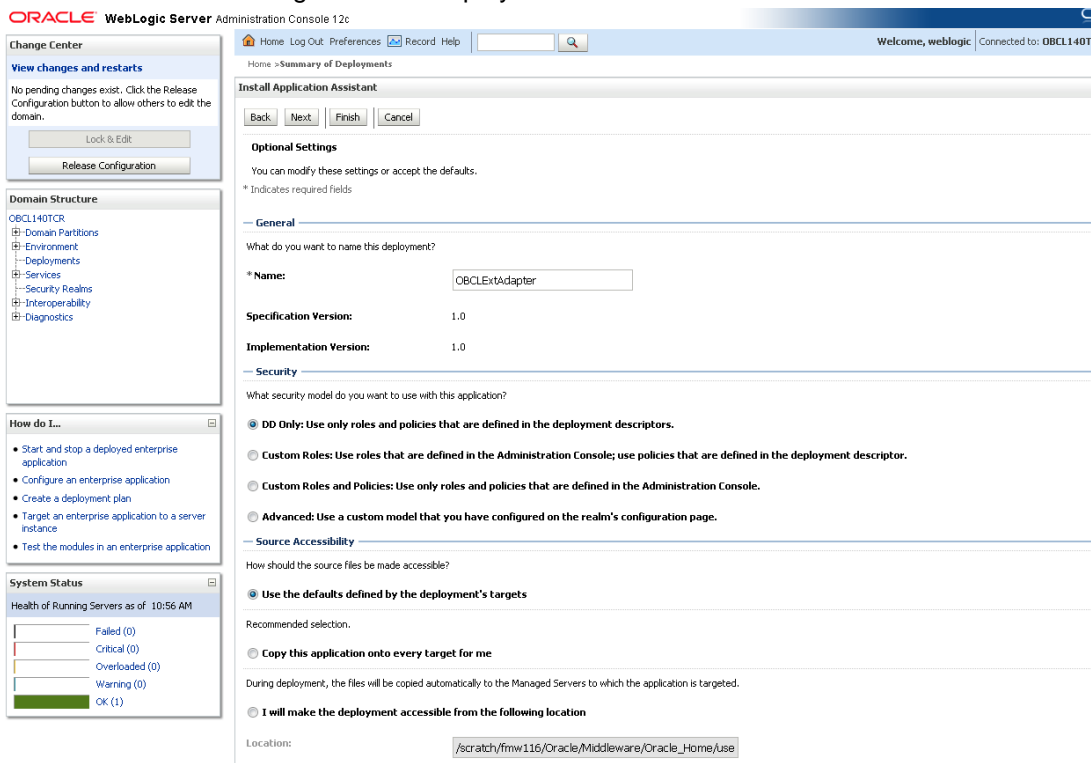
11. Click 'Next'.

12. The following screen is displayed



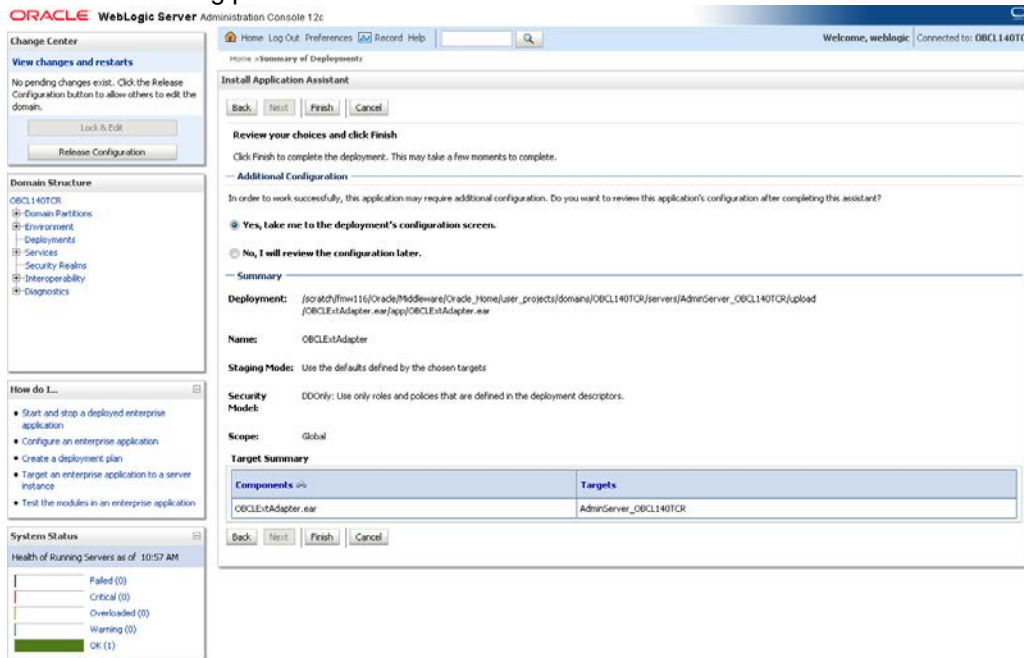
13. Select the target of the application. You can choose the server 'AdminServer' or 'Managed Server(s)'.

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

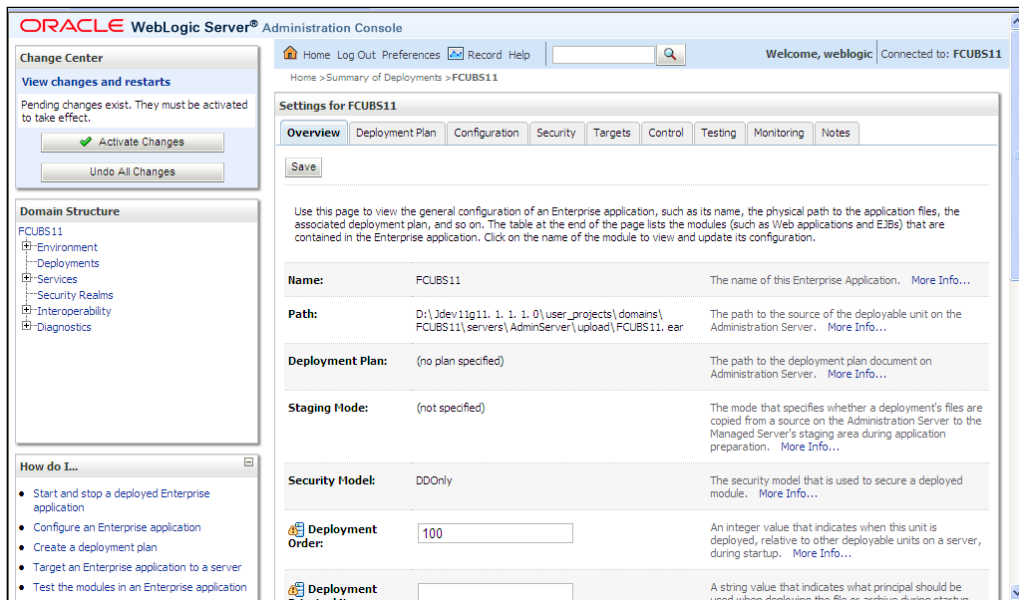


15. Check the deployment name.

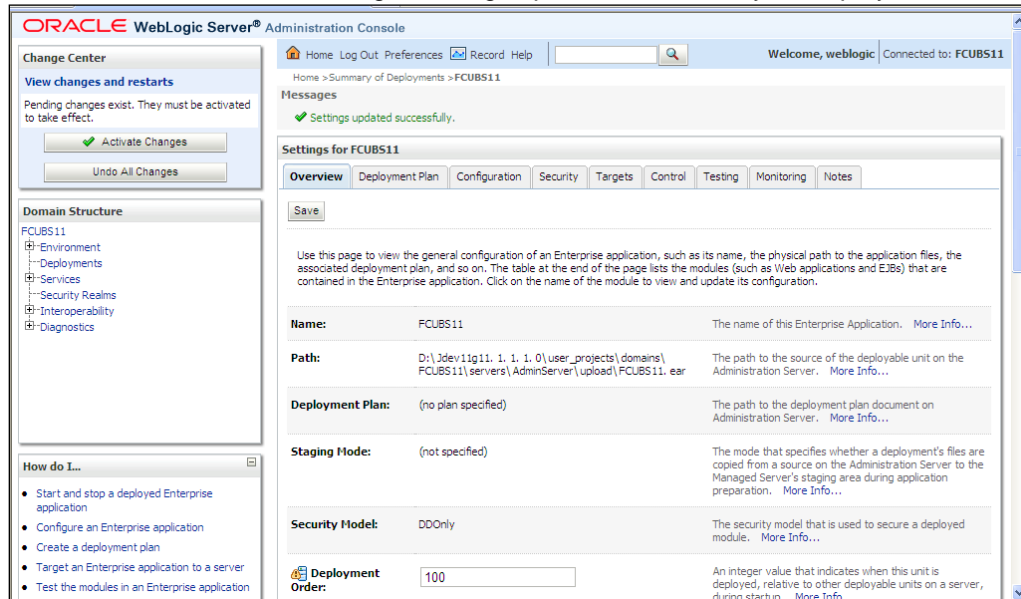
16. The remaining portion of the screen is shown below:



17. Click 'Finish' button. The following screen is displayed.



18. Click 'Save' button. The message 'Settings updated successfully' is displayed.



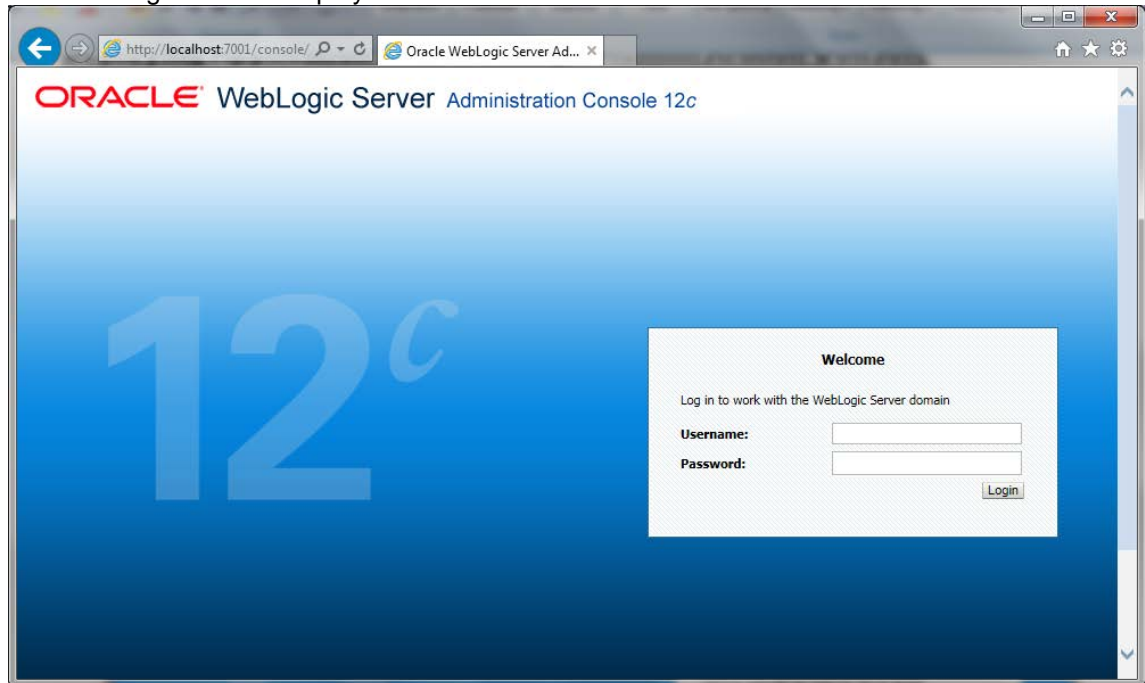
19. Click 'Activate Changes' button on the left pane. The message 'All the changes have been activated. No restarts are necessary' is displayed.

1.3.2 Deploying Dependency Library "Jax-RS"

This library must be installed before deploying FCUBSApp.ear. Follow the below steps

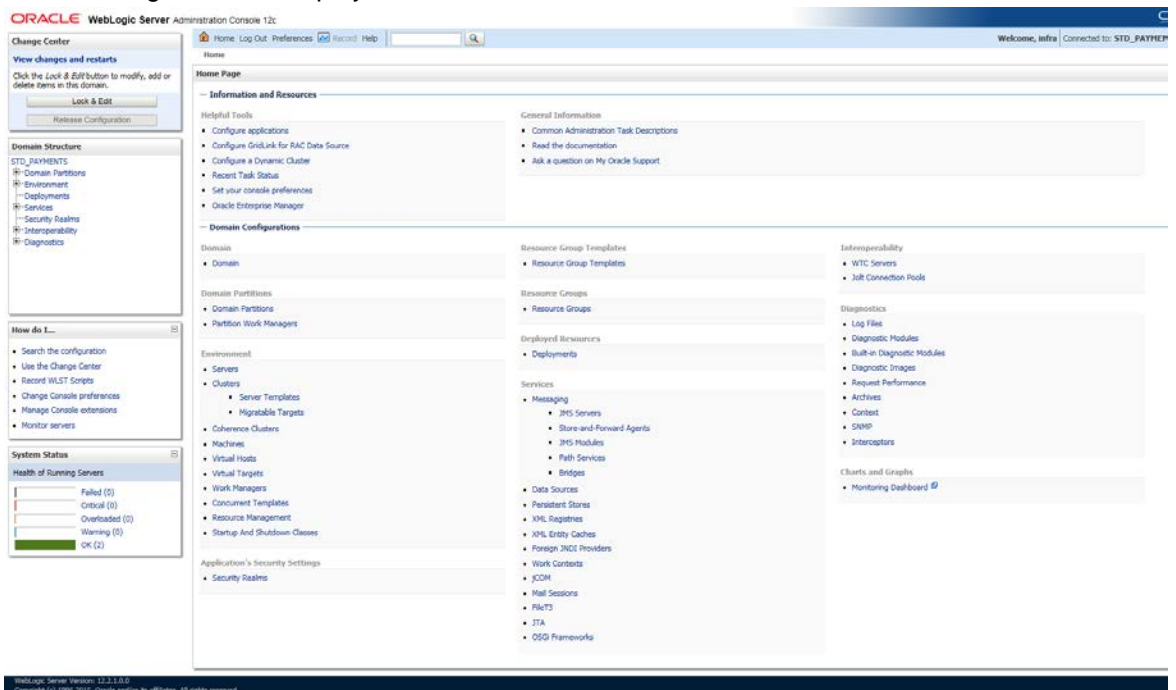
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser.
Eg: <http://10.10.10.10:1001/console>

2. The following screen is displayed:

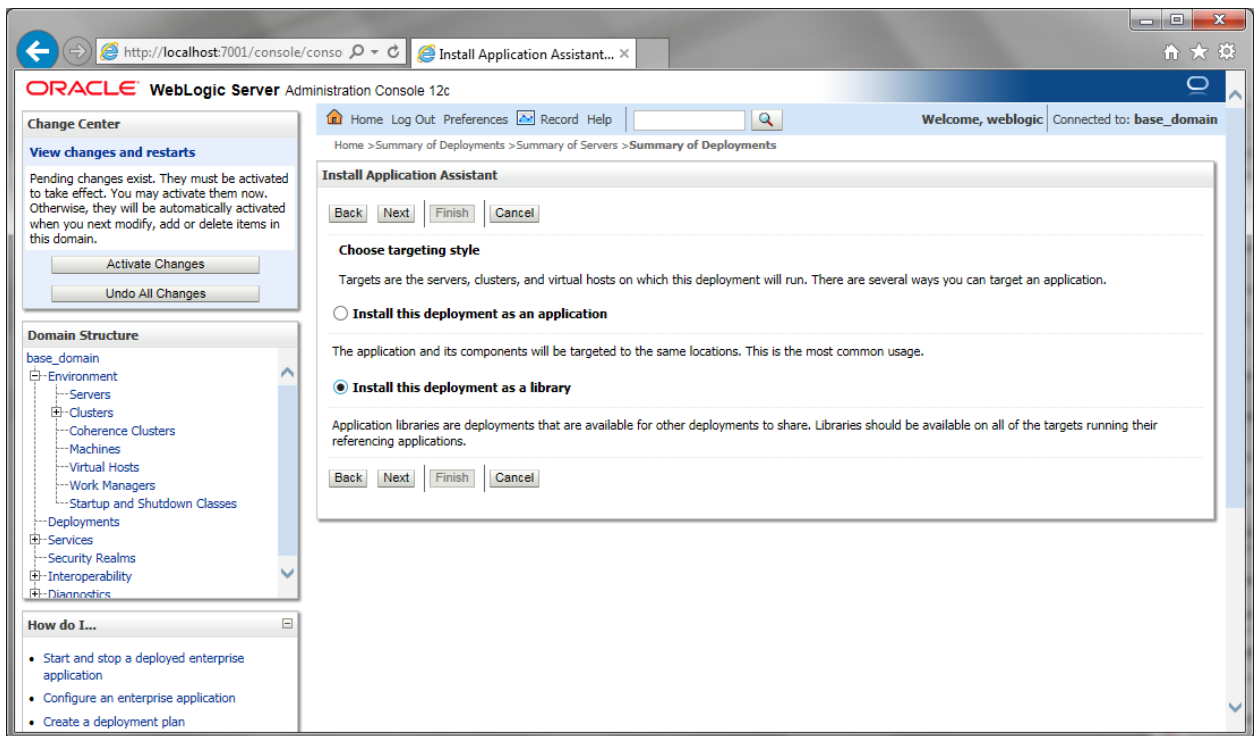


3. Specify the WebLogic administrator user name and password. Click 'Log In'.

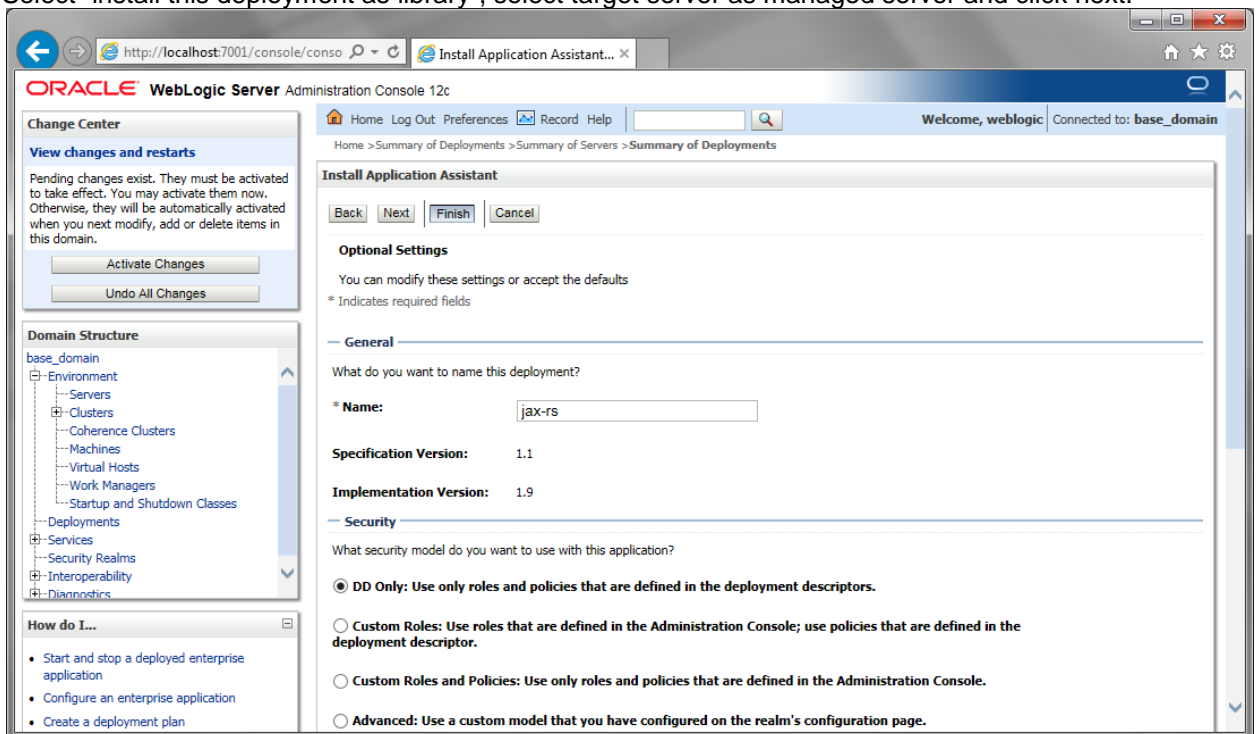
The following screen is displayed:



4. Click install button



Select "install this deployment as library", select target server as managed server and click next.



Click finish button



This library must appear in the deployment with Type column as “Library’

Note :- latest Jax-rs version will be jax-rs(2.0,2.22.1.0)

1.3.3 Deploying FCUBS Application from WebLogic Administration Console

To deploy Oracle FLEXCUBE Application from Oracle WebLogic administration console, follow the steps given below.

1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser.
Eg: http://10.10.10.10:1001/console

The following screen is displayed:



2. Specify the WebLogic administrator user name and password. Click ‘Log In’.

The following screen is displayed:

The screenshot shows the Oracle WebLogic Administration Console Home Page. The interface includes a top navigation bar with 'Home', 'Log Out', 'Preferences', 'Record', and 'Help' menus. The main content area is divided into several sections: 'Information and Resources' with helpful tools and general information; 'Domain Configurations' with a tree view for Domain, Domain Partitions, and Environment; 'Resource Group Templates' and 'Resource Groups'; 'Deployed Resources' with deployment targets; 'Services' including JMS, Store and Forward Agents, and Foreign JNDI Providers; 'Interoperability' with WTC Servers and Jolt Connection Pools; 'Diagnostics' with log files and diagnostic modules; and 'Charts and Graphs' with a monitoring dashboard. A 'Change Center' sidebar on the left provides options to lock and edit the domain configuration.

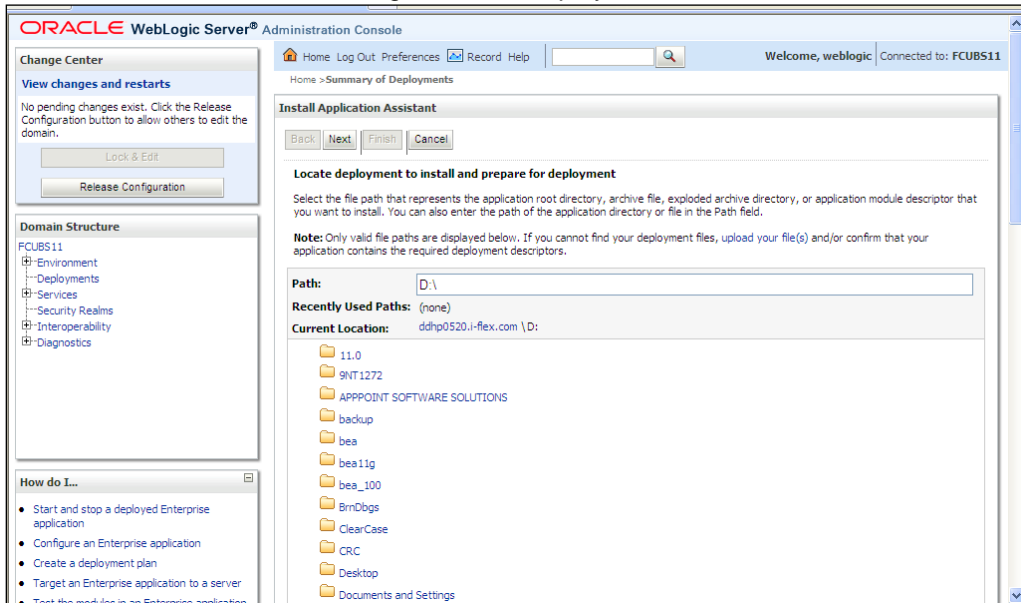
3. You need to deploy an EAR. For e.g. 'FCUBSApp.ear'. Go to 'Deployment'.

Click 'Lock & Edit' button to enable the buttons. This action enables the buttons.

The screenshot shows the 'Summary of Deployments' page in the Oracle WebLogic Administration Console. The page title is 'Summary of Deployments' and it includes sub-sections for 'Configuration', 'Control', and 'Monitoring'. A message states: 'This page displays the list of Java EE applications and standalone application modules installed to the domain. You can update (redploy) or delete installed applications and modules from the domain by selecting the checkbox next to the application name and then using the controls on this page. To install a new application or module for deployment to targets in this domain, click **Install**.' Below this is a 'Customize this Table' link and a table of deployments. The table has columns for 'Name', 'State', 'Health', 'Type', 'Targets', 'Scope', 'Domain Partitions', and 'Deployment Order'. The table lists various Java EE applications and modules, including libraries, web applications, and enterprise applications, all showing an 'Active' state.

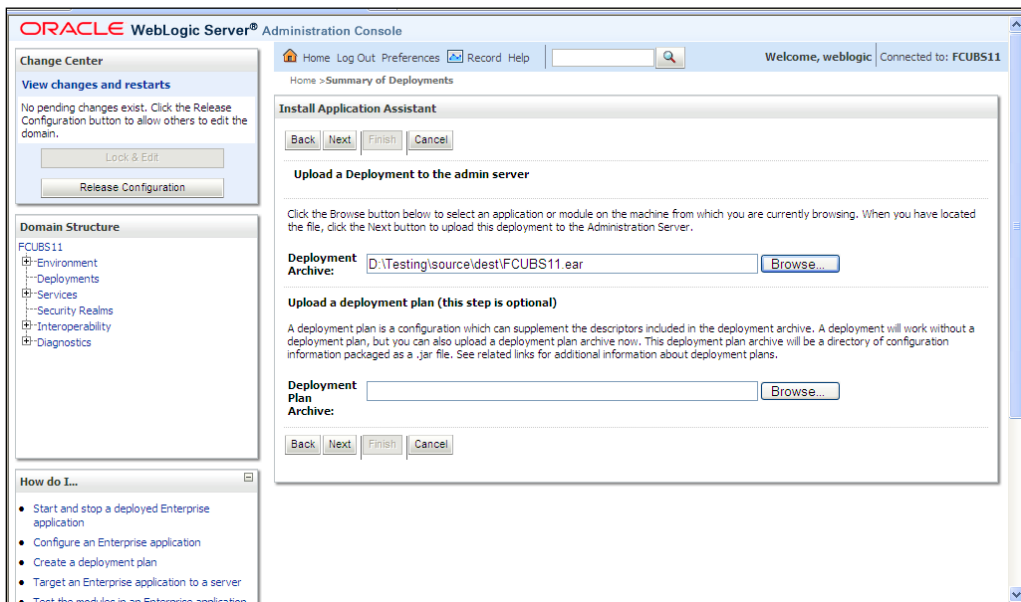
Name	State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
oracle.businesseditor(1.0,12.2.1.0.0)	Active		Library	AdminServer_payments, pm_server1	Global	100	
oracle.domain(1.0,12.2.1.0.0)	Active		Library	AdminServer_payments, pm_server1	Global	100	
oracle.domain.webapp(1.0,12.2.1.0.0)	Active		Library	AdminServer_payments, pm_server1	Global	100	
coherence-transaction-war	Active	OK	Resource Adapter	AdminServer_payments, pm_server1	Global	100	
DMS Application (12.2.1.0.0)	Active	OK	Web Application	AdminServer_payments, pm_server1	Global	5	
em	Active	OK	Enterprise Application	AdminServer_payments	Global	400	
emagent@kmpm_jar(12.4,12.1.0.4.0)	Active		Library	AdminServer_payments	Global	100	
emagent@kmp_jar(12.4,12.1.0.4.0)	Active		Library	AdminServer_payments	Global	100	
emagent@k_jar(12.4,12.1.0.4.0)	Active		Library	AdminServer_payments	Global	100	
emas	Active		Library	AdminServer_payments	Global	100	
emcore	Active		Library	AdminServer_payments	Global	100	
emconnect_jar	Active		Library	AdminServer_payments	Global	100	
emconnectcommon_jar	Active		Library	AdminServer_payments	Global	100	
emconnectconsole_jar	Active		Library	AdminServer_payments	Global	100	
emconnectsk_jar(11.2.0.1.0,12.1.0.0.0)	Active		Library	AdminServer_payments	Global	100	
emconnectsk_jar	Active		Library	AdminServer_payments	Global	100	
emconnectskmp_jar(11.2.0.1.0,12.1.0.0.0)	Active		Library	AdminServer_payments	Global	100	
emconnectskmp_jar	Active		Library	AdminServer_payments	Global	100	
emconnectsk_jar(11.2.0.1.0,12.1.0.0.0)	Active		Library	AdminServer_payments	Global	100	
emconnectsk_jar	Active		Library	AdminServer_payments	Global	100	
emcore_jar	Active		Library	AdminServer_payments	Global	100	
em_common(12.4,12.1.0.4.0)	Active		Library	AdminServer_payments	Global	100	

- Click 'Install' button. The following screen is displayed:



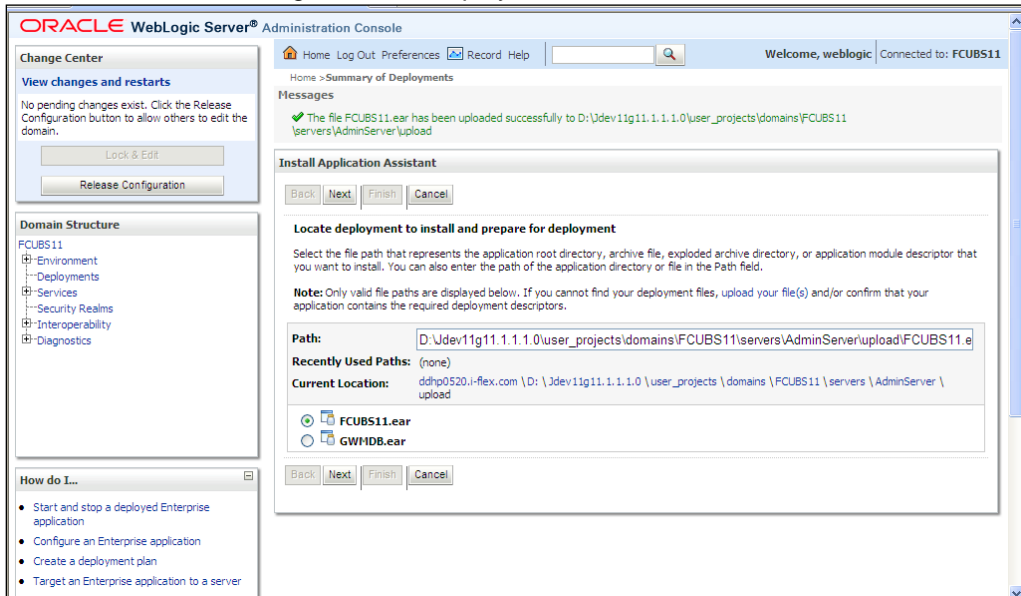
- In order to specify the path/location of the enterprise archive file, click the link 'upload your file(s)'.

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



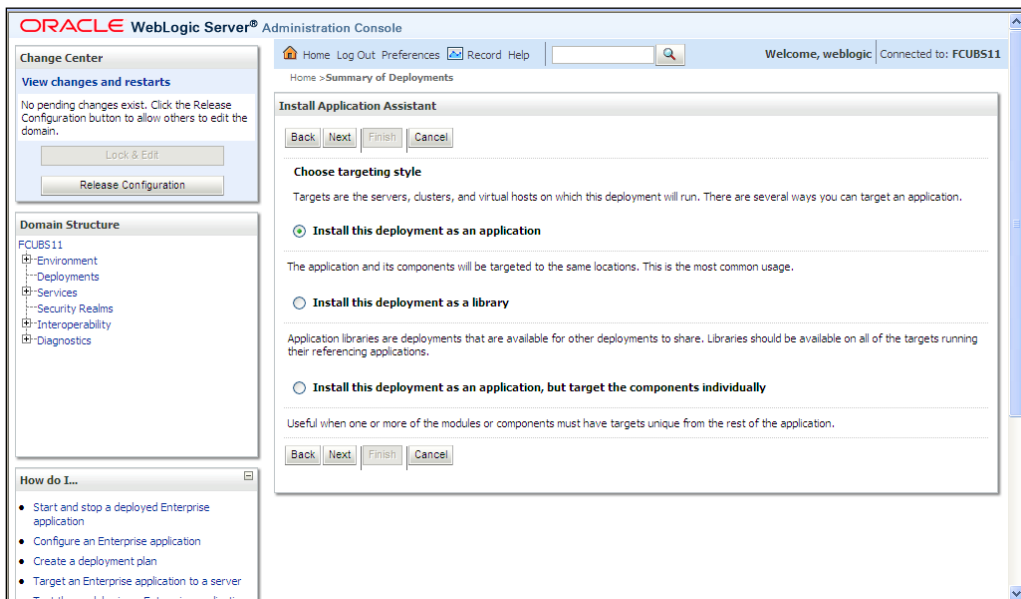
- Specify the EAR file path. You can use the 'Browse' button to locate the file.

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



9. Select the application FCUBS EAR from the list.

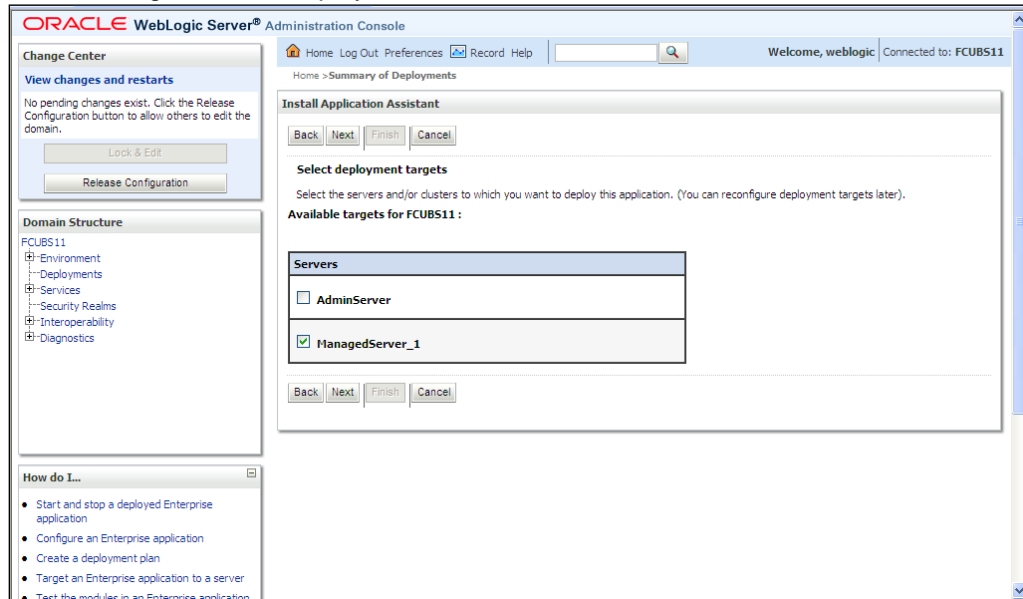
10. Click 'Next'. Following screen is displayed:



11. Choose the targeting style 'Install this deployment as an application'.

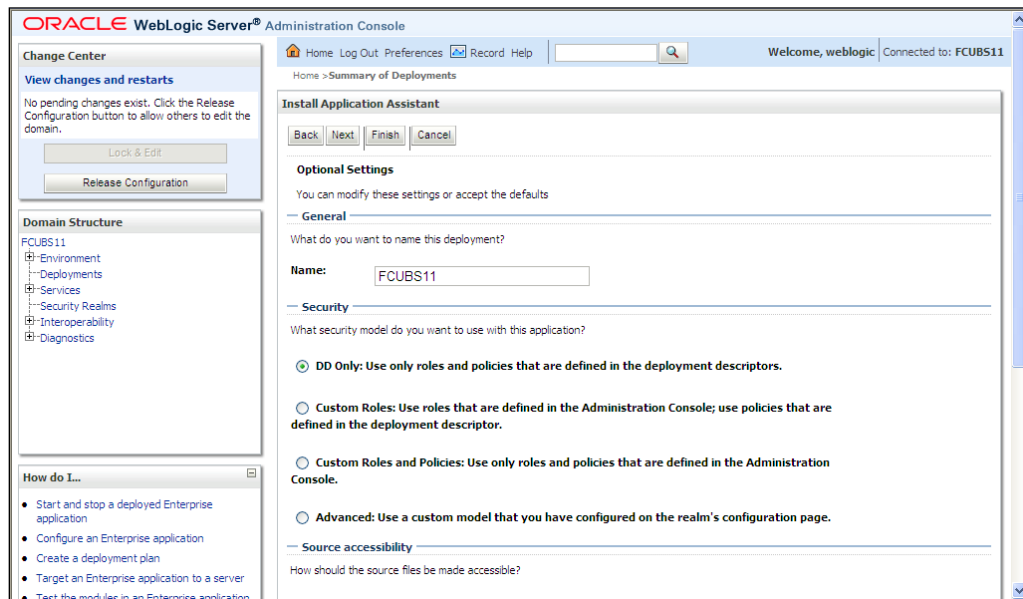
12. Click 'Next'.

The following screen is displayed



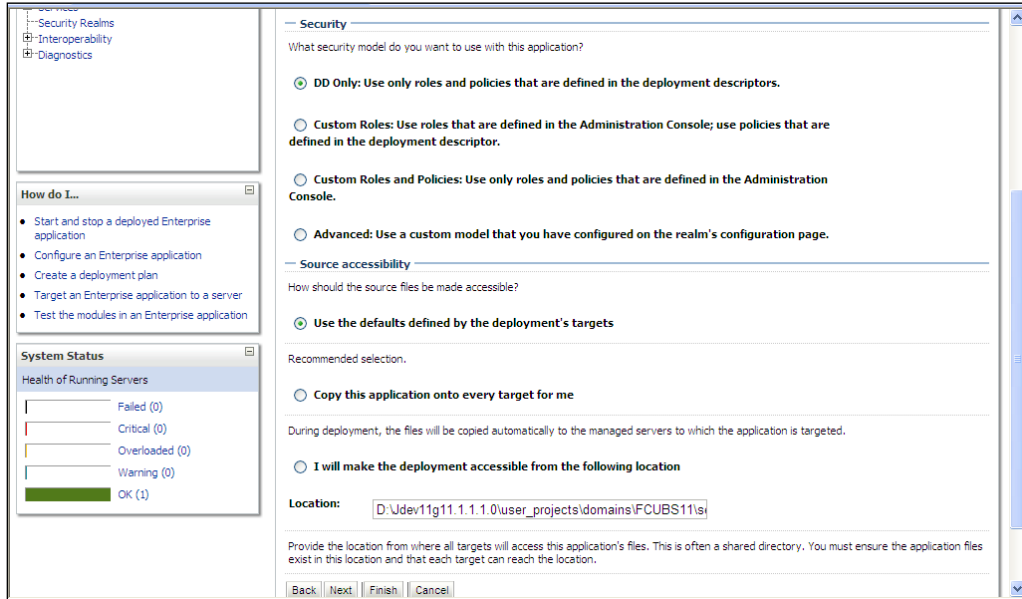
13. Select the target of the application. You can choose the server 'AdminServer' or 'Managed Server(s)'.

14. Click 'Next'. The following screen appears.



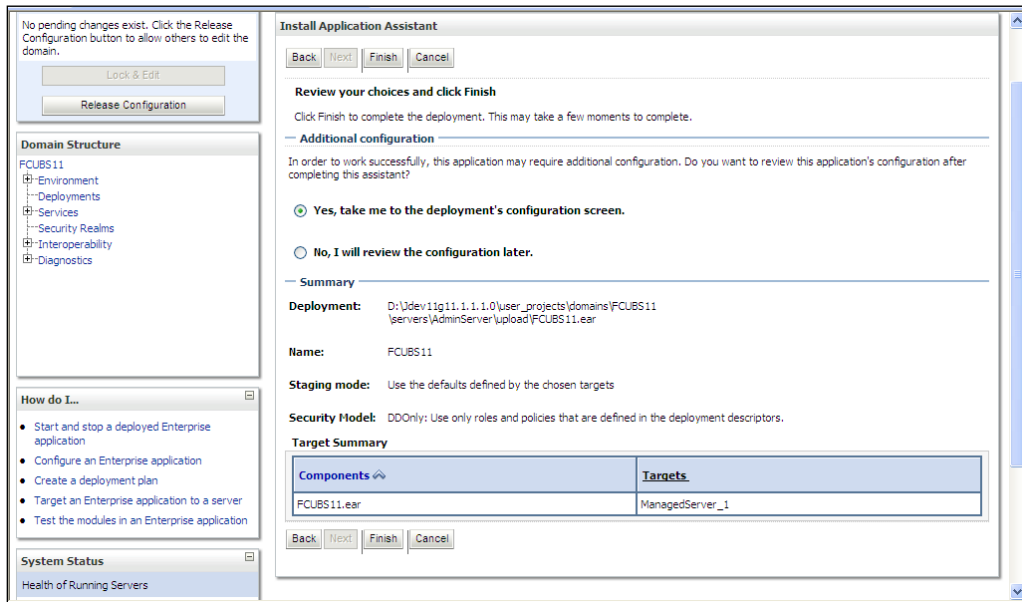
15. Check the deployment name.

The remaining portion of the screen is shown below:



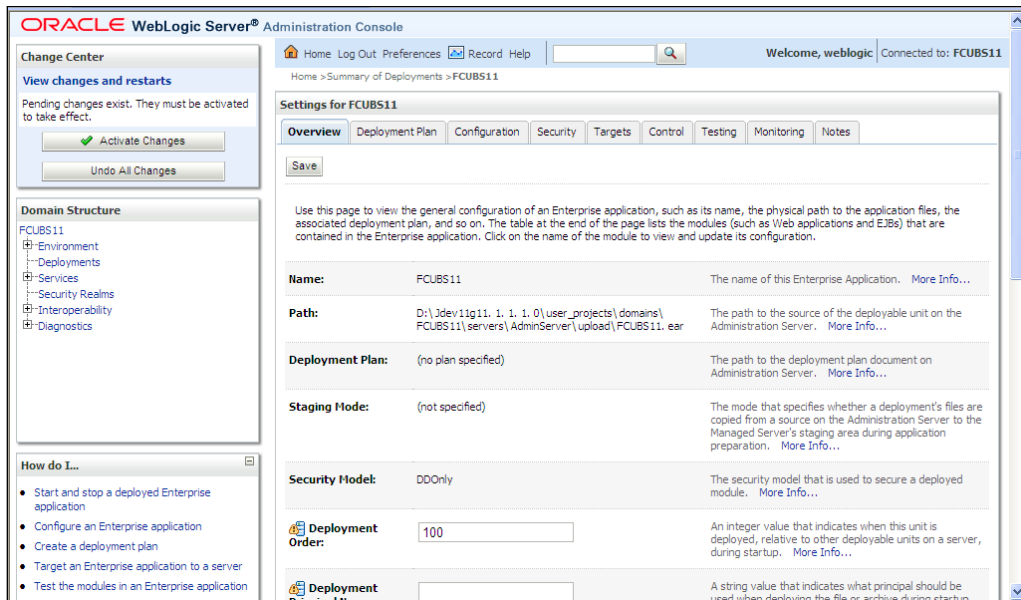
16. Check whether the deployment location is accessible or not.

The following screen is displayed.

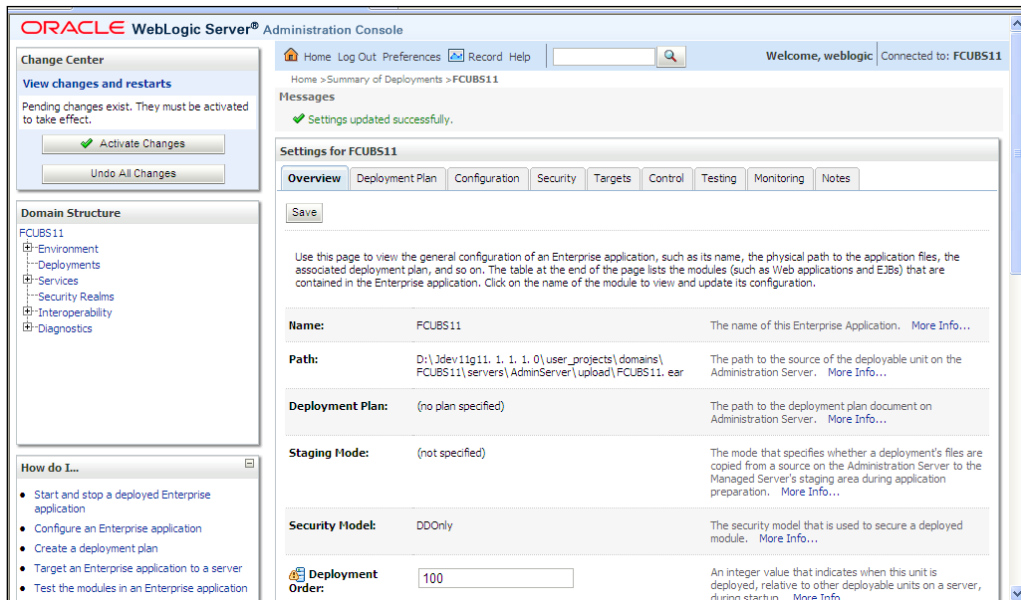


17. Click 'Finish' button. The following screen is displayed.

Change **Deployment Order** to **400** if the application includes **BPEL plug-in**.

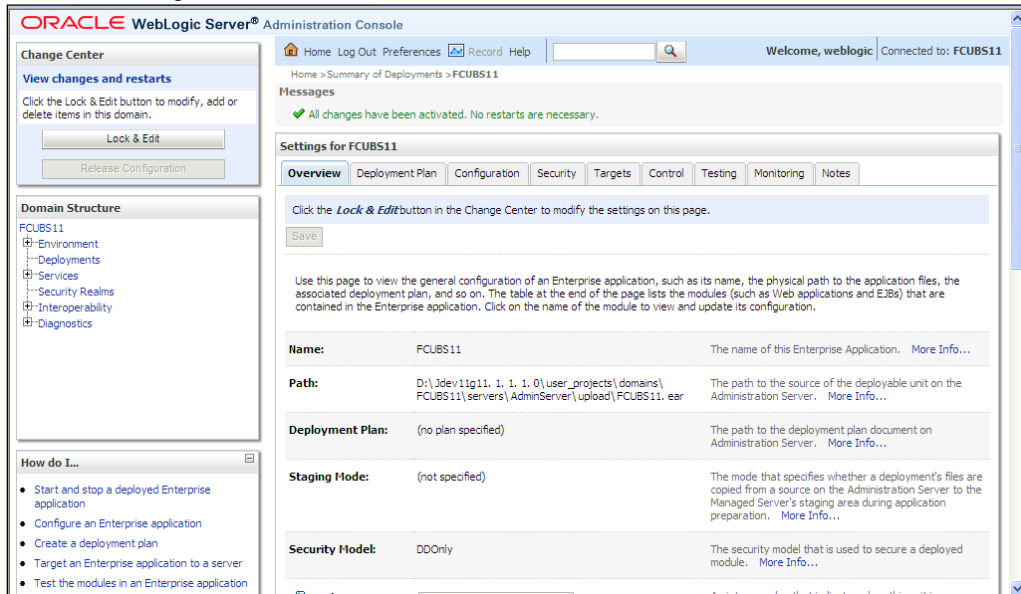


18. Click 'Save' button. The message 'Settings updated successfully' is displayed.

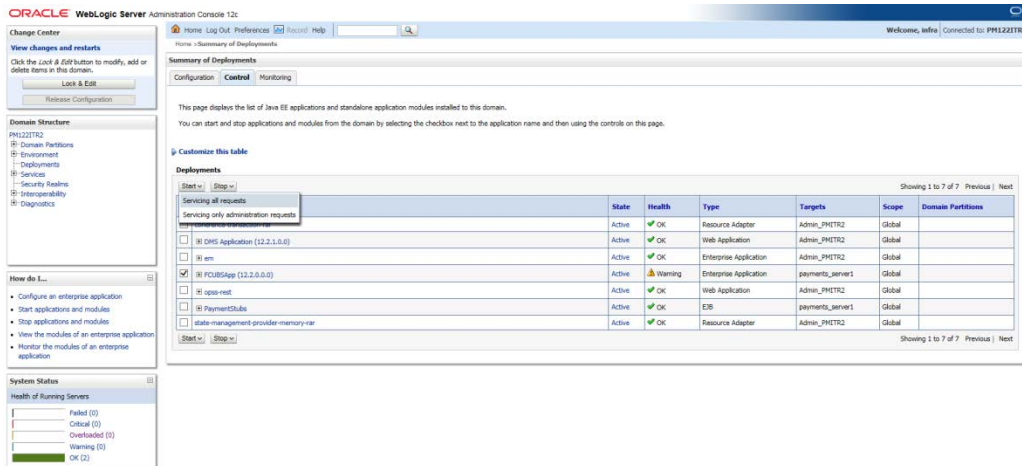


19. Click 'Activate Changes' button on the left pane. The message 'All the changes have been activated. No restarts are necessary' is displayed.

The screen is given below:

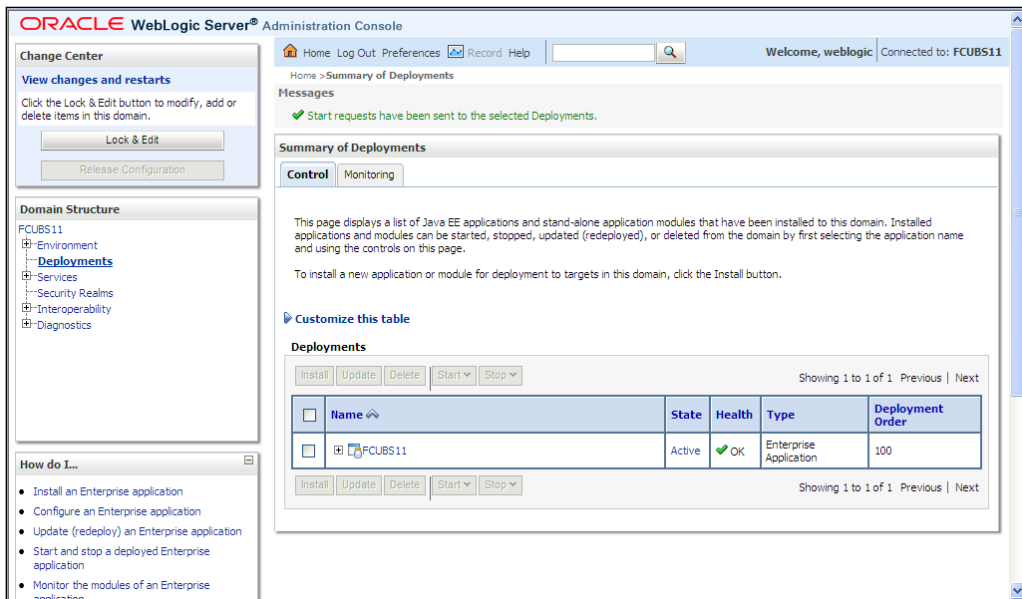
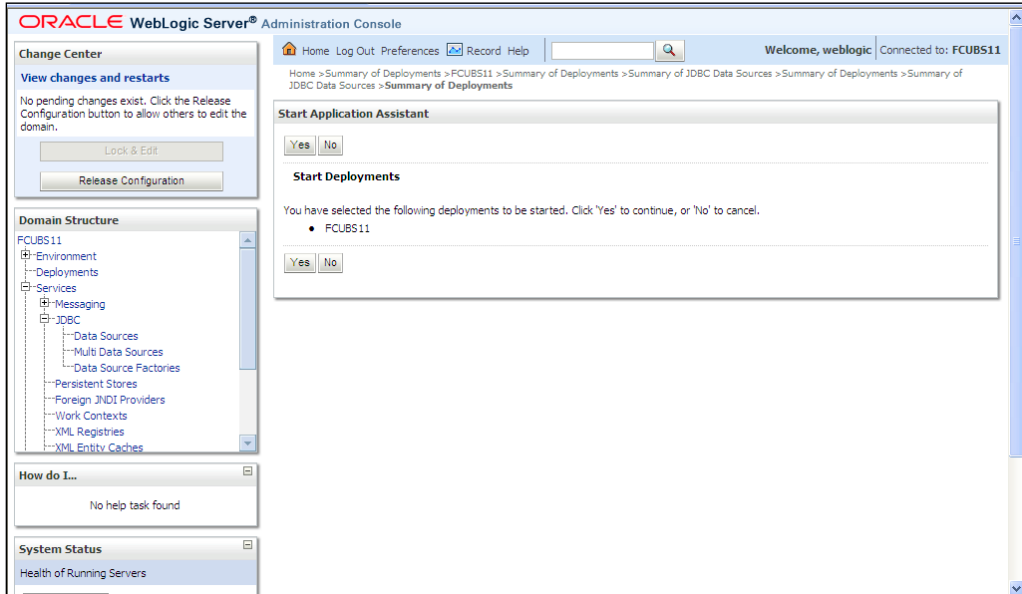


Click 'Deployment' on the left pane. Switch to Control tab .The following screen is displayed.



20. Click 'Start' drop-down button and select 'Servicing all requests'.

The following screen is displayed.



21. Click 'Yes'. The following screen is displayed.

This completes the deployment process.

1.3.4 Deploying Gateway/Scheduler Applications from WebLogic Administration Console

To deploy Oracle FLEXCUBE Gateway/Scheduler Application from Oracle WebLogic administration console, follow the steps given below.

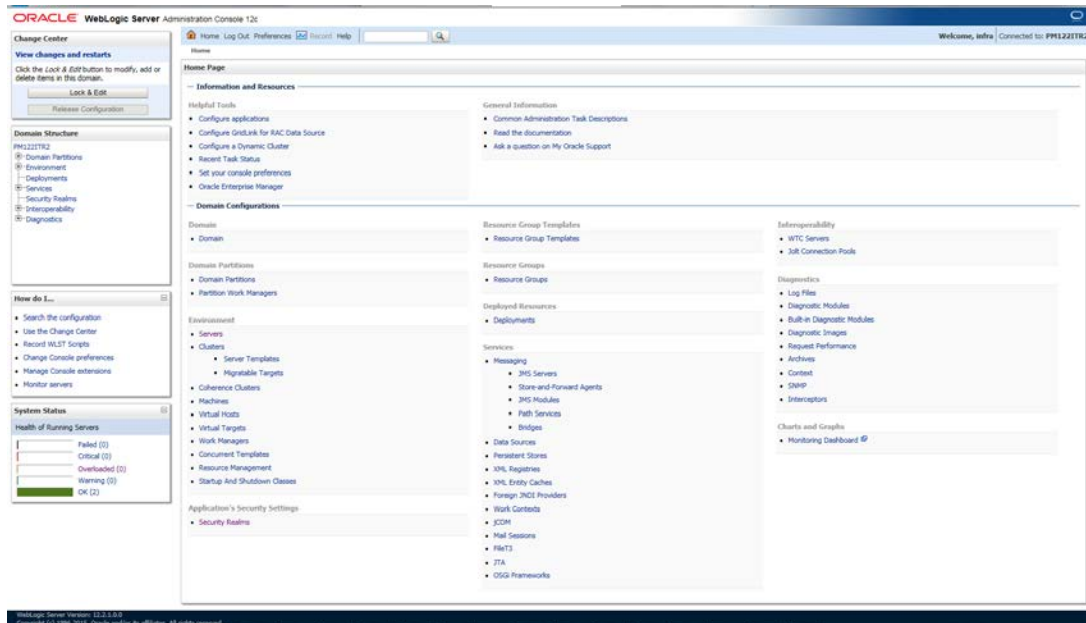
1. Launch Administrative Console of WebLogic application server. You can launch this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser.
Eg: `http://10.10.10.10:1001/console`

22. The following screen is displayed:



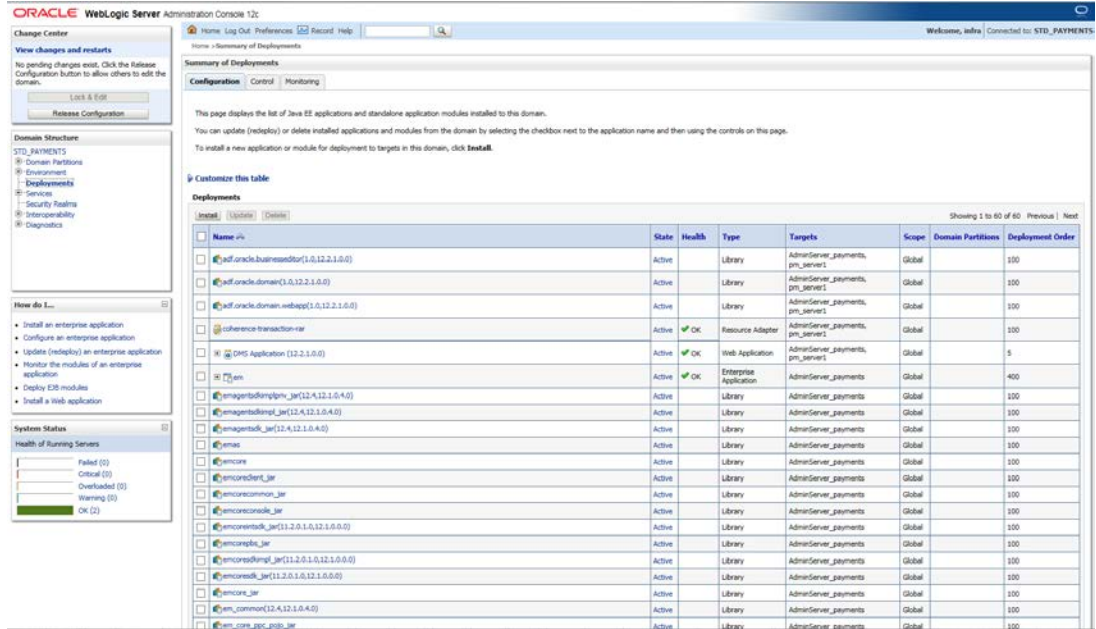
23. Specify the WebLogic administrator user name and password. Click 'Log In'.

The following screen is displayed:

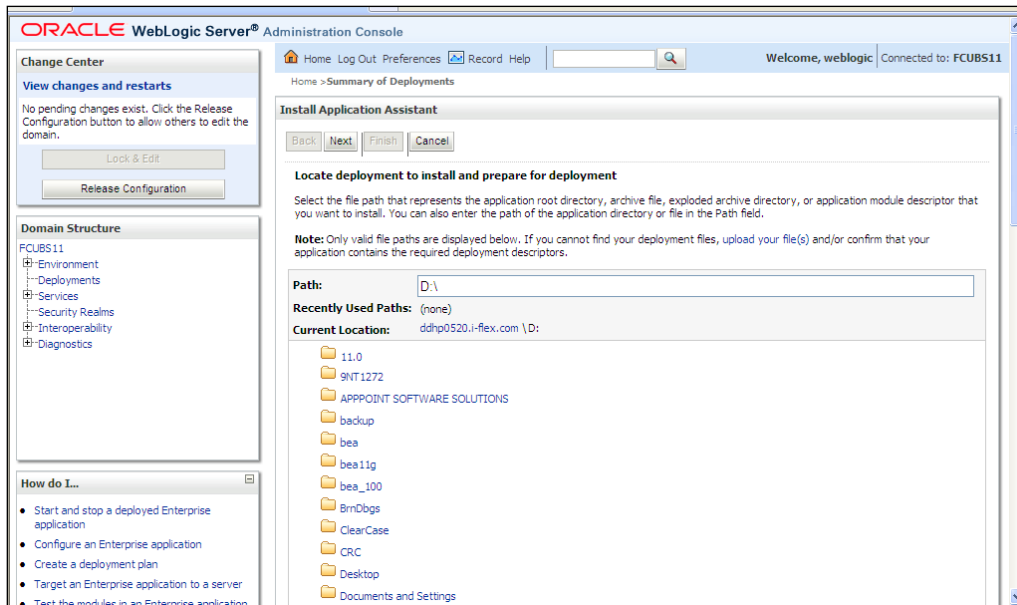


24. You need to deploy an EAR. For e.g. 'GWEJB.ear'. Go to 'Deployment'.

Click 'Lock & Edit' button to enable the buttons. This action enables the buttons.

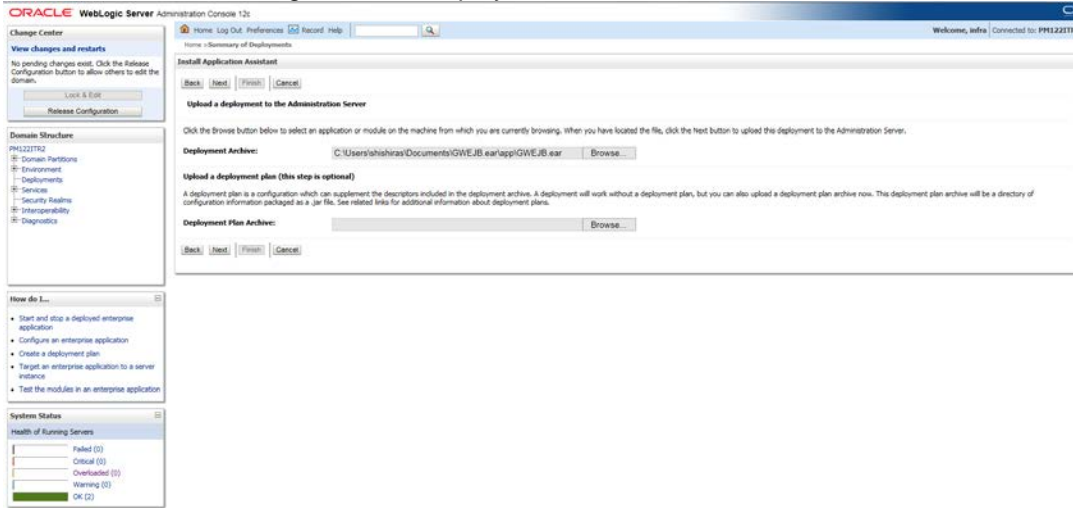


25. Click 'Install' button. The following screen is displayed:



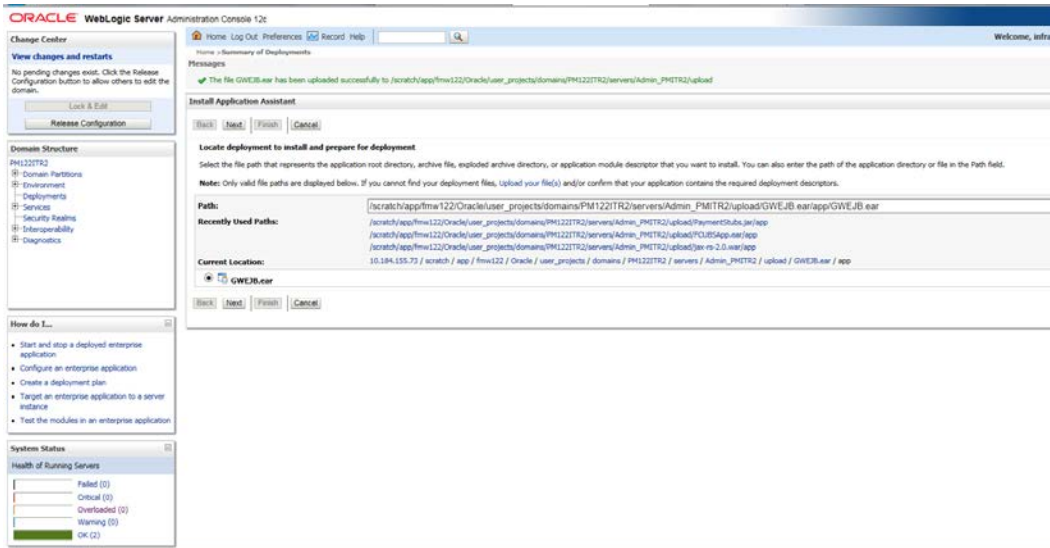
26. In order to specify the path/location of the enterprise archive file, click the link 'upload your file(s)'.

27. Click 'Next'. The following screen is displayed:



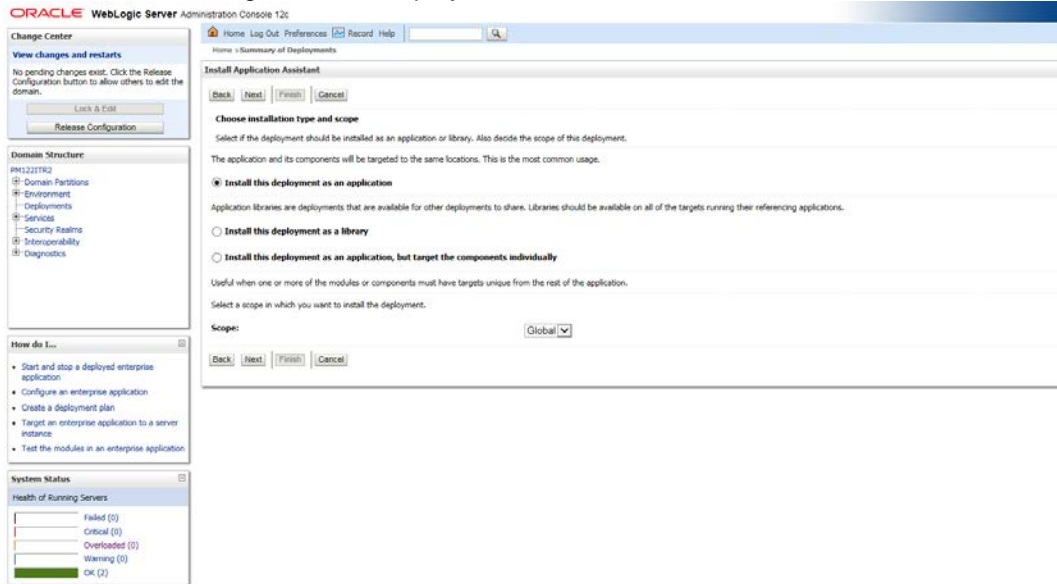
28. Specify the EAR file path. You can use the 'Browse' button to locate the file.

29. Click 'Next'. The following screen is displayed:



30. Select the application from the list.

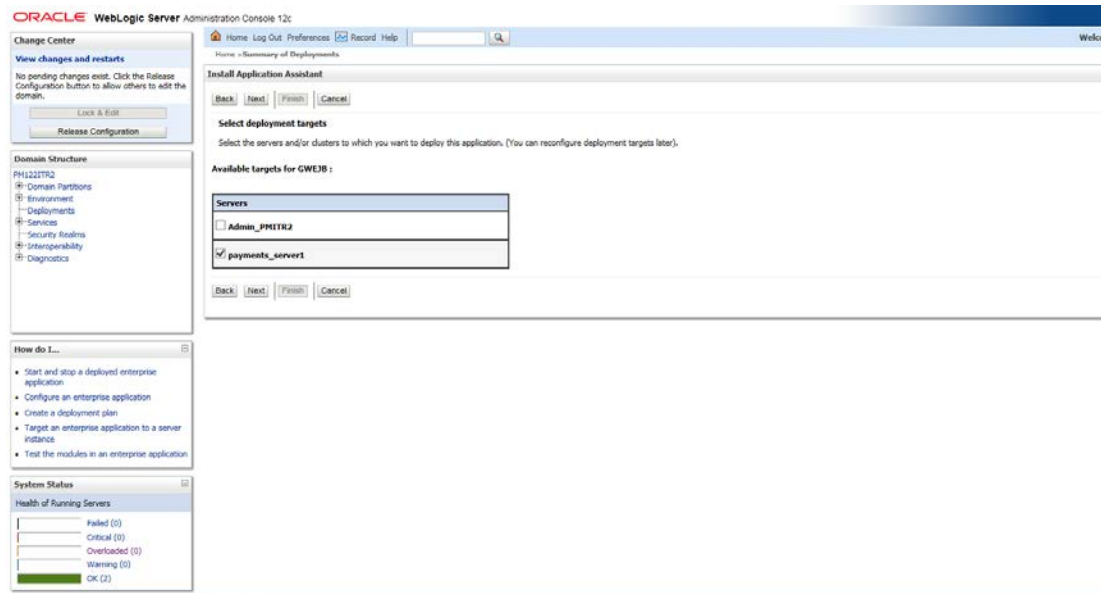
31. Click 'Next'. Following screen is displayed:



32. Choose the targeting style 'Install this deployment as an application'.

33. Click 'Next'.

The following screen is displayed



34. Select the target of the application. You can choose the server 'AdminServer' or 'Managed Server(s)'.

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

The screenshot shows the Oracle WebLogic Server Administration Console interface. The main window is titled 'Install Application Assistant' and contains several sections:

- Optional Settings:** A section where you can modify settings or accept defaults. It includes:
 - General:** A field for 'Name' with the value 'GWJJB'.
 - Security:** A section asking 'What security model do you want to use with this application?'. The selected option is 'DD Only: Use only roles and policies that are defined in the deployment descriptors.' Other options include 'Custom Roles' and 'Advanced'.
 - Source Accessibility:** A section asking 'How should the source files be made accessible?'. The selected option is 'Use the defaults defined by the deployment's targets'.
- Recommended selection:** A section with the option 'Copy this application onto every target for me' selected. Below it, a note states: 'During deployment, the files will be copied automatically to the Managed Servers to which the application is targeted.'
- Plan Source Accessibility:** A section asking 'How should the plan source files be made accessible?'. The selected option is 'Use the same accessibility as the application'.

36. Check the deployment name.

The remaining portion of the screen is shown below:

This screenshot provides a closer view of the 'Plan Source Accessibility' section of the 'Install Application Assistant' screen. The 'Location' field is populated with the path '/scratch/app/wl12212/user_projects/domains/FCAPACK125/serv'. Below this, a note states: 'Provide the location from where all targets will access this application's files. This is often a shared directory. You must ensure the application files exist in this location and that each target can reach the location.'

The 'Plan Source Accessibility' section includes the following options:

- Plan Source Accessibility:** A section asking 'How should the plan source files be made accessible?'. The selected option is 'Use the same accessibility as the application'.
- Recommended selection:** A section with the option 'Copy this plan onto every target for me' selected. Below it, a note states: 'During deployment, the plan files will be copied automatically to the Managed Servers to which the application is targeted.'
- Do not copy this plan to targets:** An unselected option with a note: 'You must ensure the plan files exist in the shared location and that each target can reach the location.'

Check whether the deployment location is accessible or not. The following screen is displayed.

The screenshot shows the Oracle WebLogic Server Administration Console interface. The main content area is titled "Install Application Assistant" and displays the following information:

- Deployment:** (/scratch/app/fmw122/Oracle/user_projects/domains/PM122TR2/servers/Admin_PMT2R2/upload/GWE3B.ear/app/GWE3B.ear)
- Name:** GWE3B
- Staging Mode:** Use the defaults defined by the chosen targets
- Plan Staging Mode:** Use the same accessibility as the application
- Security Mode:** DOOnly: Use only roles and policies that are defined in the deployment descriptors.
- Scope:** Global

The **Target Summary** table is as follows:

Components	Targets
GWE3B.ear	payments_server1

37. Click 'Finish' button. The following screen is displayed.

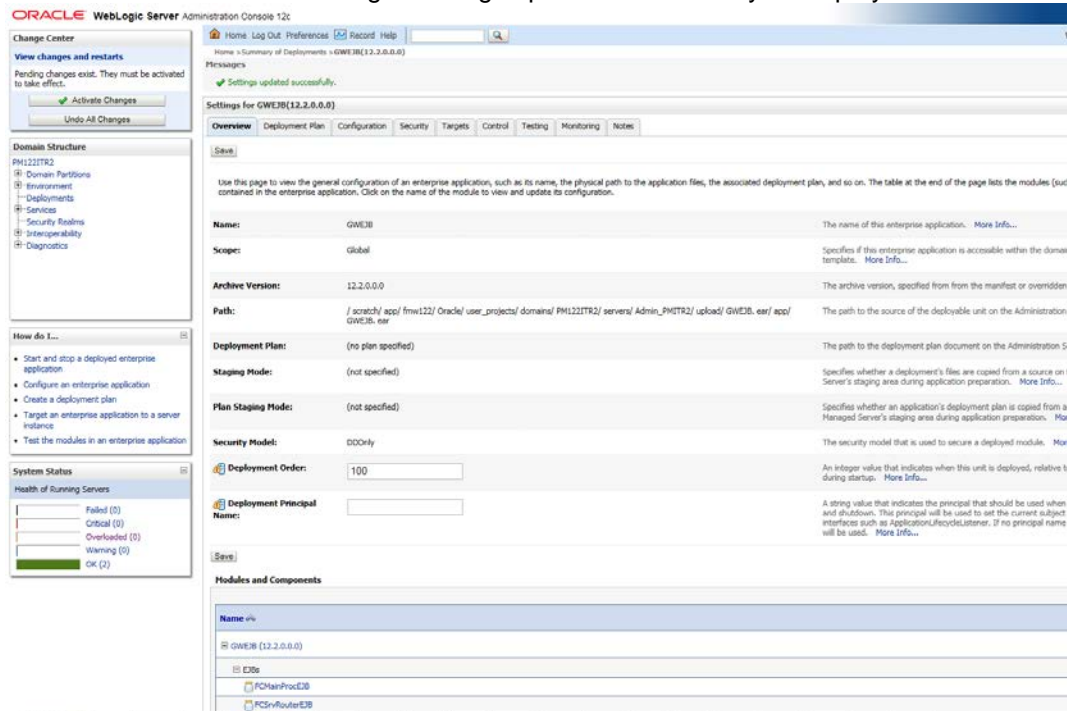
The screenshot shows the Oracle WebLogic Server Administration Console interface for the "Settings for GWE3B(12.2.0.0.0)" screen. The screen displays various configuration options for the application:

- Name:** GWE3B
- Scope:** Global
- Archive Version:** 12.2.0.0.0
- Path:** /scratch/app/fmw122/Oracle/user_projects/domains/PM122TR2/servers/Admin_PMT2R2/upload/GWE3B.ear/app/GWE3B.ear
- Deployment Plan:** (no plan specified)
- Staging Mode:** (not specified)
- Plan Staging Mode:** (not specified)
- Security Mode:** DOOnly
- Deployment Order:** 100
- Deployment Principal Name:** (empty)

The **Modules and Components** section at the bottom shows the following components:

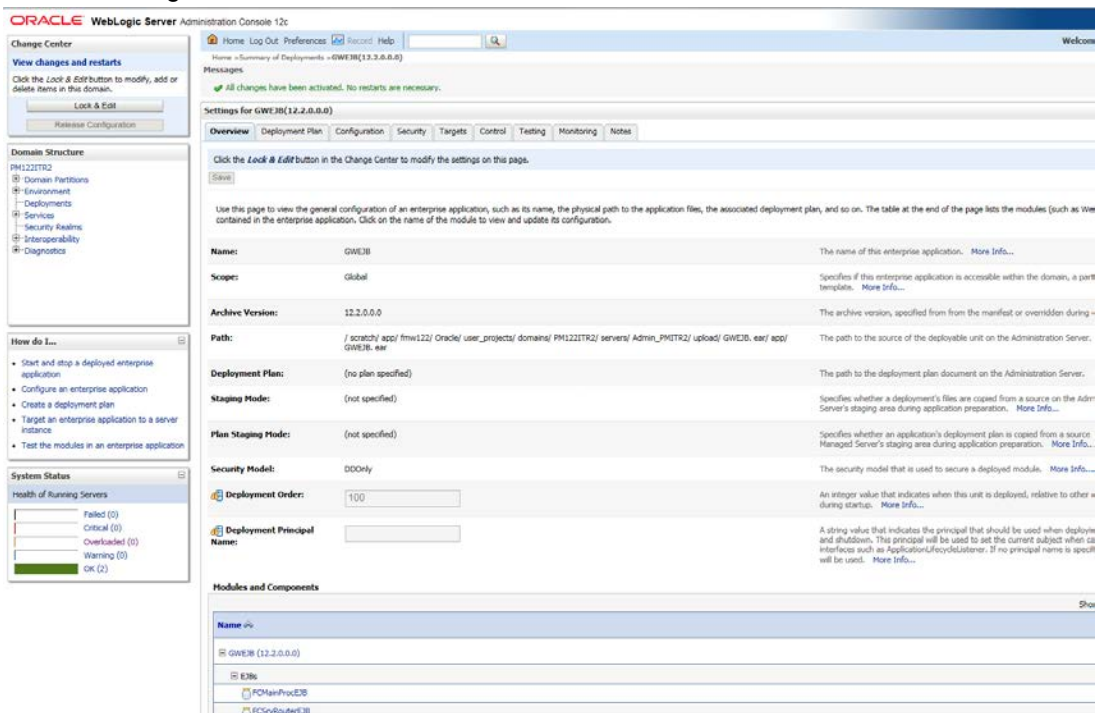
- GWE3B (12.2.0.0.0)
 - ESB
 - PCInProcESB
 - PCInRouteESB
 - GWE3B

38. Click 'Save' button. The message 'Settings updated successfully' is displayed.

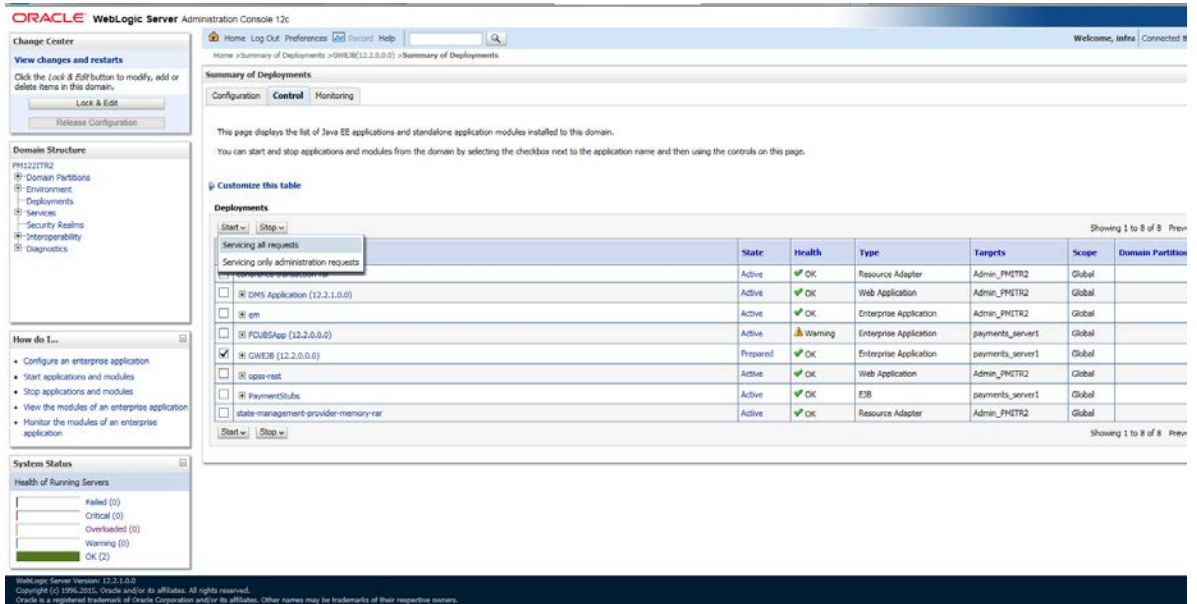


39. Click 'Activate Changes' button on the left pane. The message 'All the changes have been activated. No restarts are necessary' is displayed.

The screen is given below:

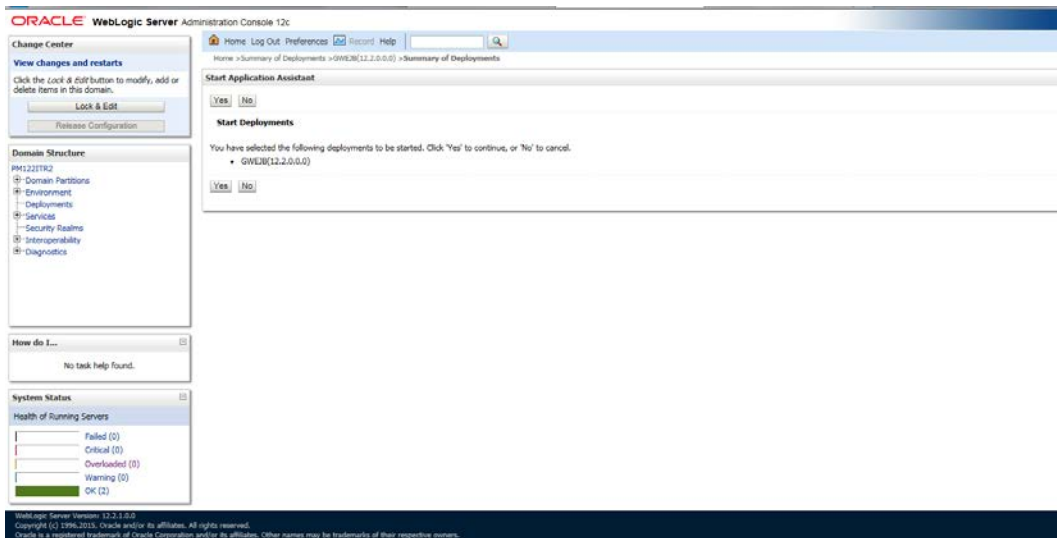


Click 'Deployment' on the left pane. Switch to Control tab. The following screen is displayed.



40. Click 'Start' drop-down button and select 'Servicing all requests'.

41. The following screen is displayed.



42. Click 'Yes'. The following screen is displayed.

Summary of Deployments

This page displays the list of Java EE applications and standalone application modules installed to the domain. You can start and stop applications and modules from the domain by selecting the checkbox next to the application name and then using the controls on this page.

Name	State	Health	Type	Targets	Scope	Domain Partitions
<input type="checkbox"/> coherence-transaction-iar	Active	OK	Resource Adapter	Admin_PMTSR2	Global	
<input type="checkbox"/> GWS Application (12.2.1.0.0)	Active	OK	Web Application	Admin_PMTSR2	Global	
<input type="checkbox"/> em	Active	OK	Enterprise Application	Admin_PMTSR2	Global	
<input type="checkbox"/> JPSWSApp (12.2.0.0.0)	Active	Warning	Enterprise Application	payments_server1	Global	
<input type="checkbox"/> GWSB (12.2.0.0.0)	Active	OK	Enterprise Application	payments_server1	Global	
<input type="checkbox"/> ejp-jms	Active	OK	Web Application	Admin_PMTSR2	Global	
<input type="checkbox"/> PaymentGSub	Active	OK	EJB	payments_server1	Global	
<input type="checkbox"/> state-management-provider-memory-iar	Active	OK	Resource Adapter	Admin_PMTSR2	Global	

This completes the deployment process.

1. Repeat the same steps from 1.3.3 for deploying GWS(gateway webservice), Gateway MDB & Gateway HTTP servlet



Deploying Oracle FLEXCUBE Application on WebLogic
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