

Deploying Oracle FLEXCUBE Application on WebLogic
Oracle FLEXCUBE Universal Banking
Release 12.87.06.0.0
[May] [2020]



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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.

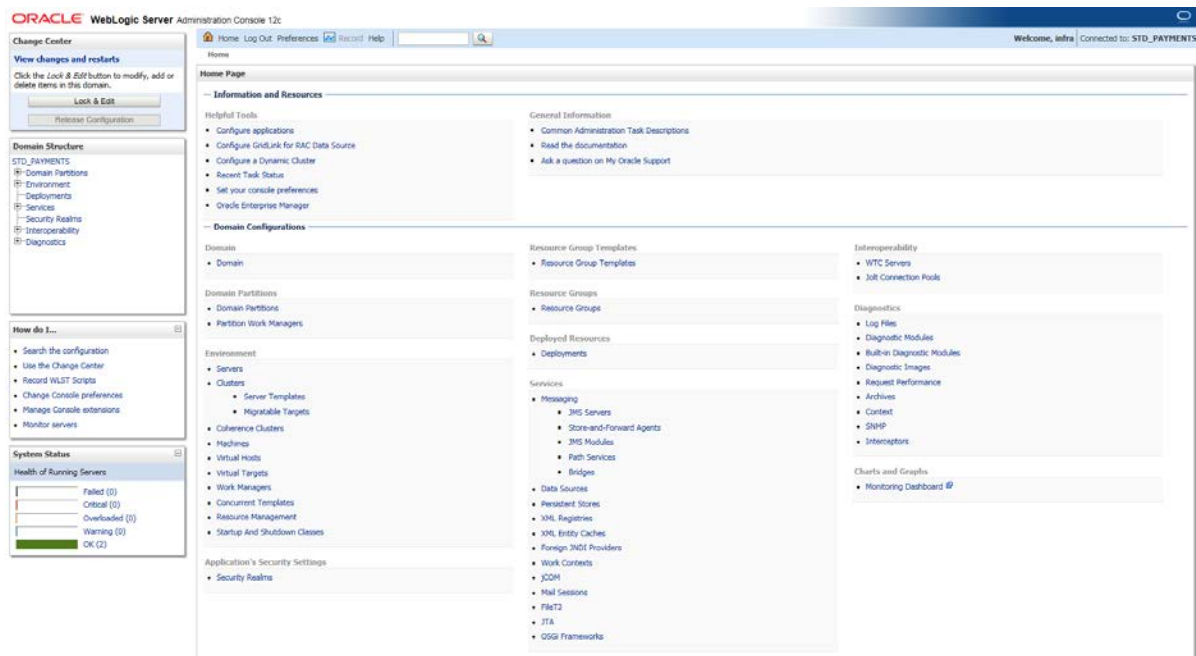
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser.

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

The following screen is displayed:



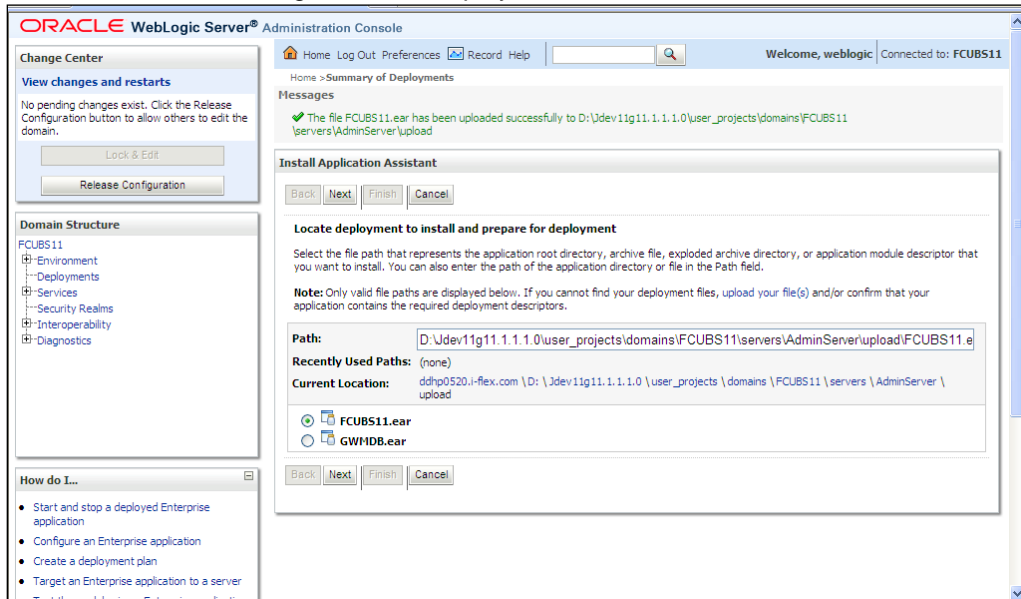
2. Specify the WebLogic administrator user name and password. Click 'Log In'.



3. You need to deploy an Integration adapter EAR. For e.g. 'OBCLExtAdapter.ear or ExtAdapter.ear'. Go to 'Deployment'.

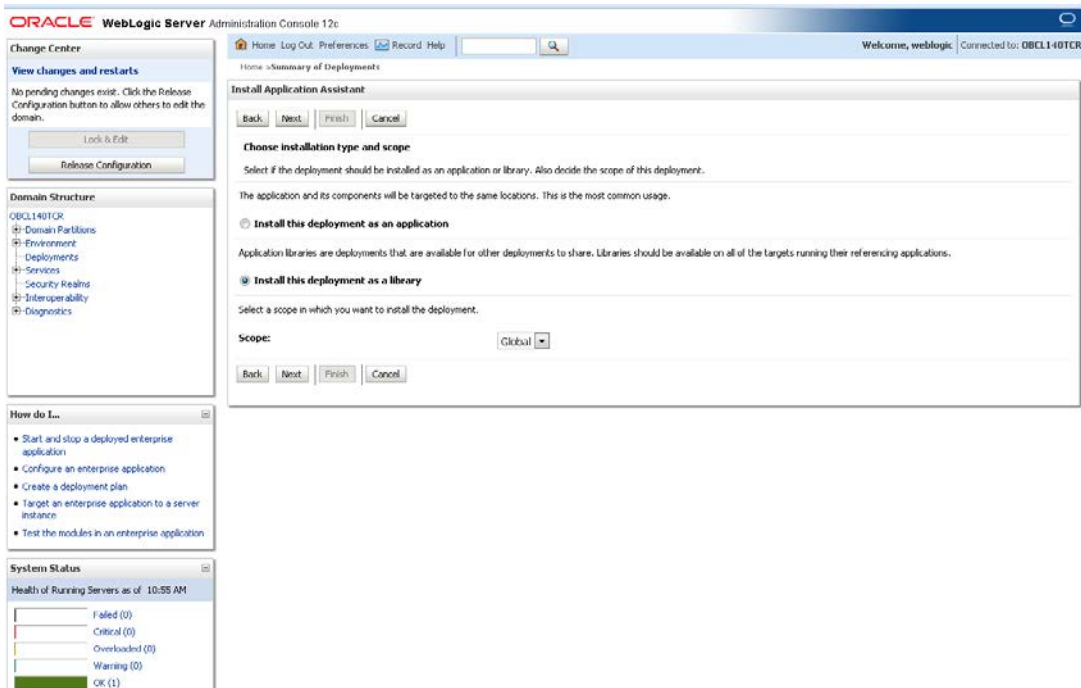
Click 'Lock & Edit' button to enable the buttons. This action enables the buttons.

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



8. Select the application Adapter EAR from the list.

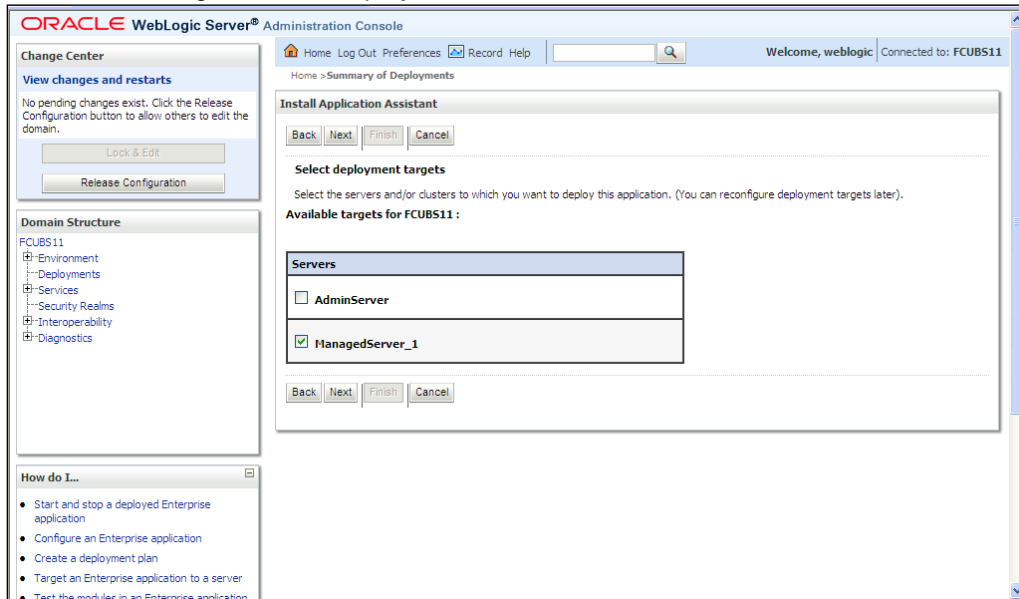
9. Click 'Next'. Following screen is displayed:



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

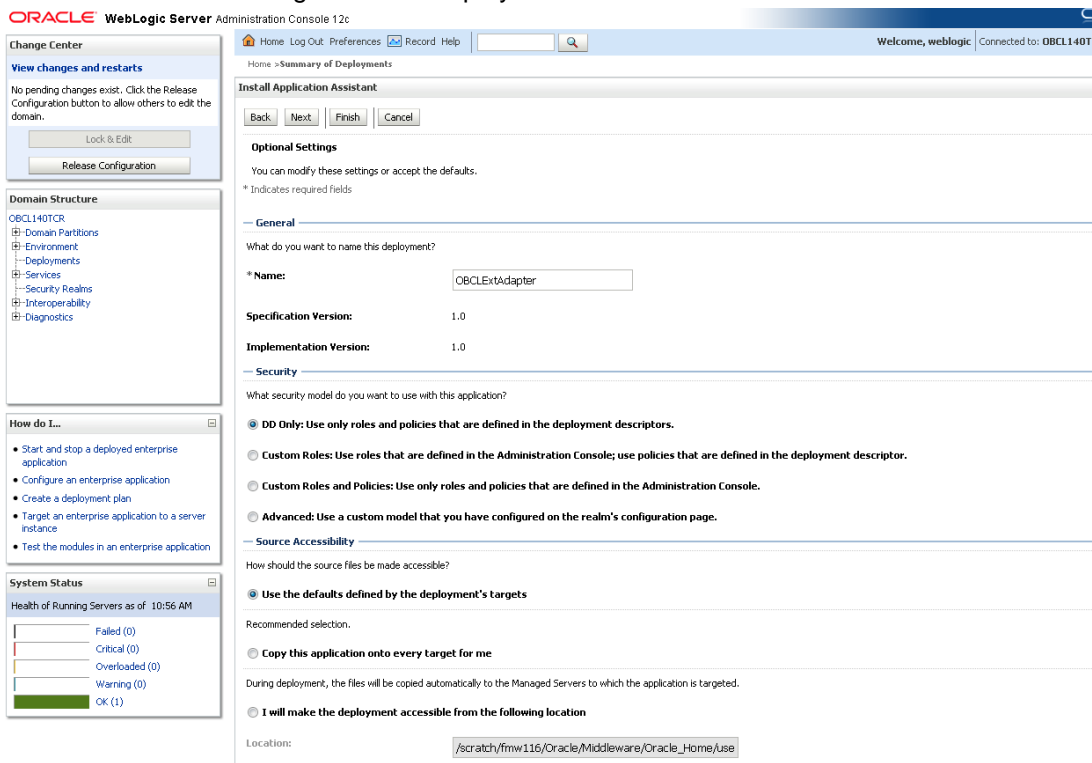
11. Click 'Next'.

12. The following screen is displayed



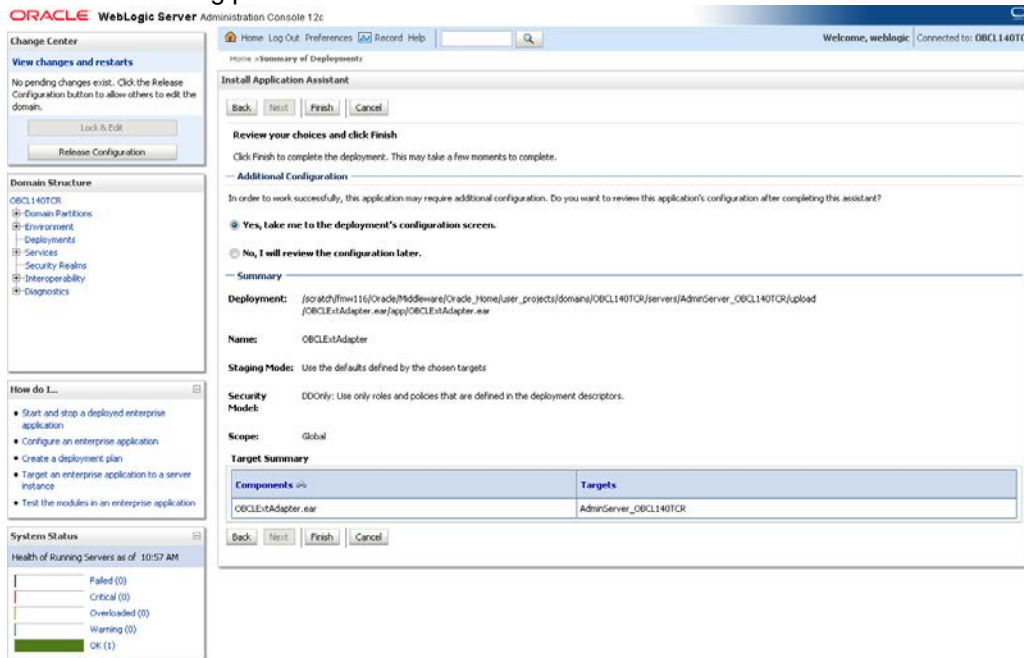
13. Select the target of the application. You can choose the server 'AdminServer' or 'Managed Server(s)'.

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

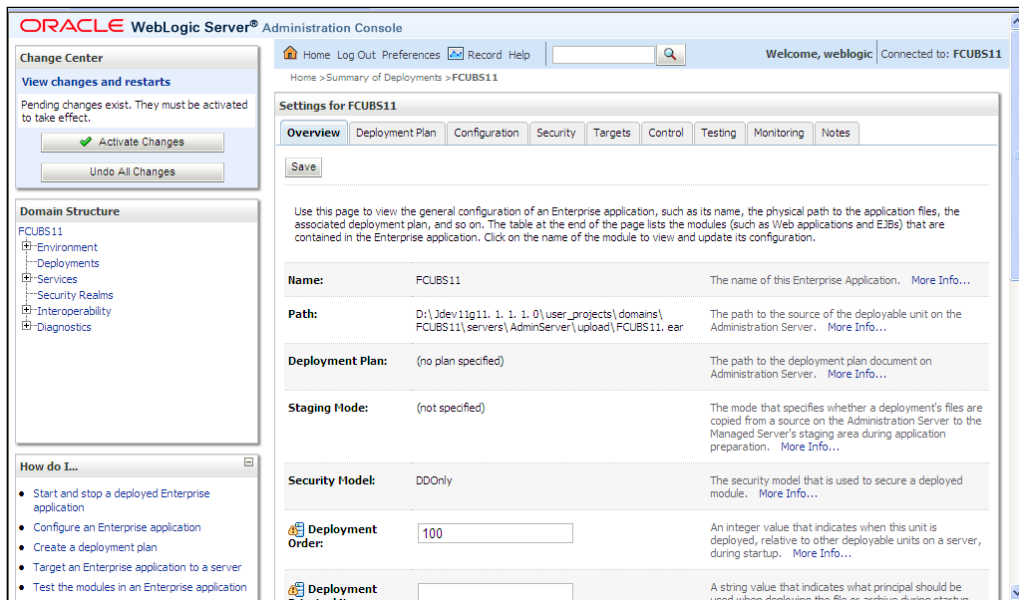


15. Check the deployment name.

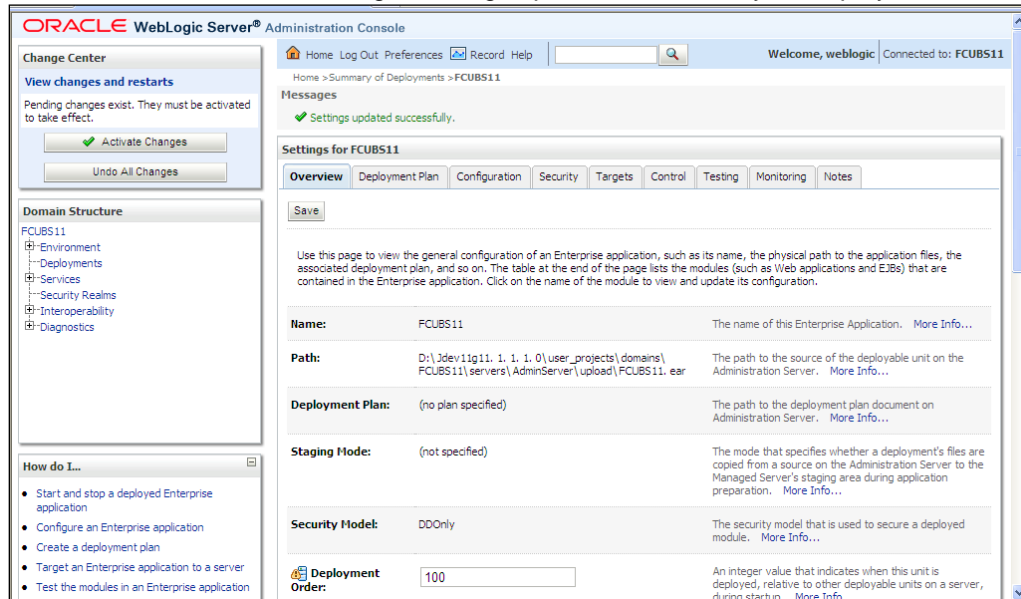
16. The remaining portion of the screen is shown below:



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



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



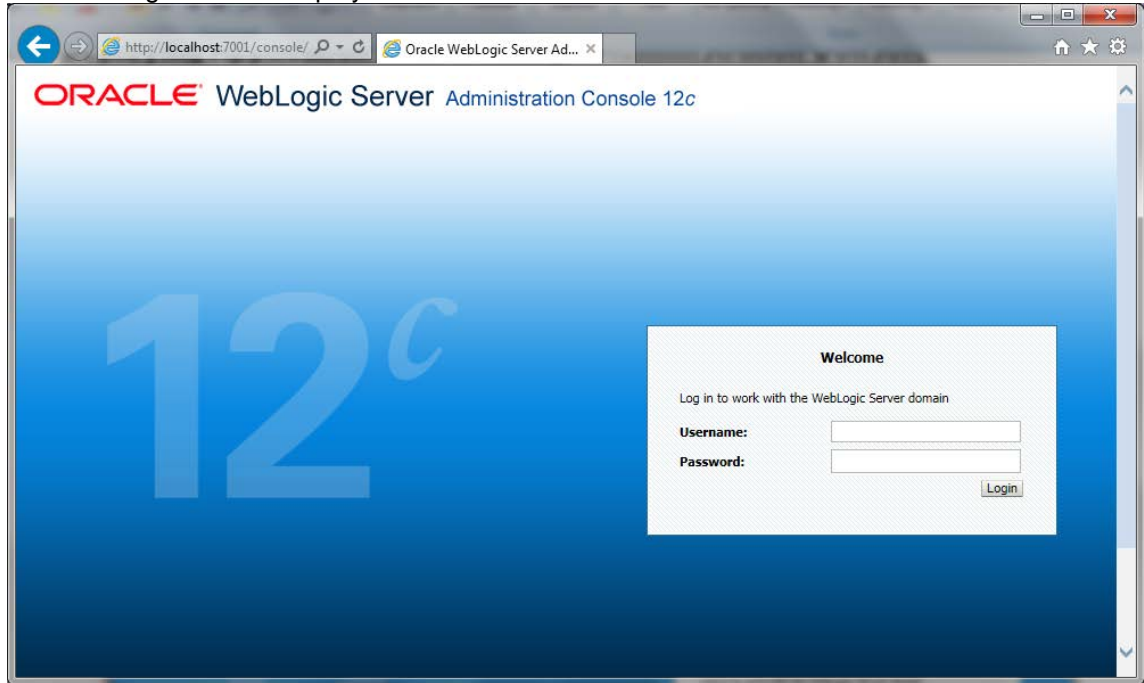
19. Click 'Activate Changes' button on the left pane. The message 'All the changes have been activated. No restarts are necessary' is displayed.

1.3.2 Deploying Dependency Library "Jax-RS"

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

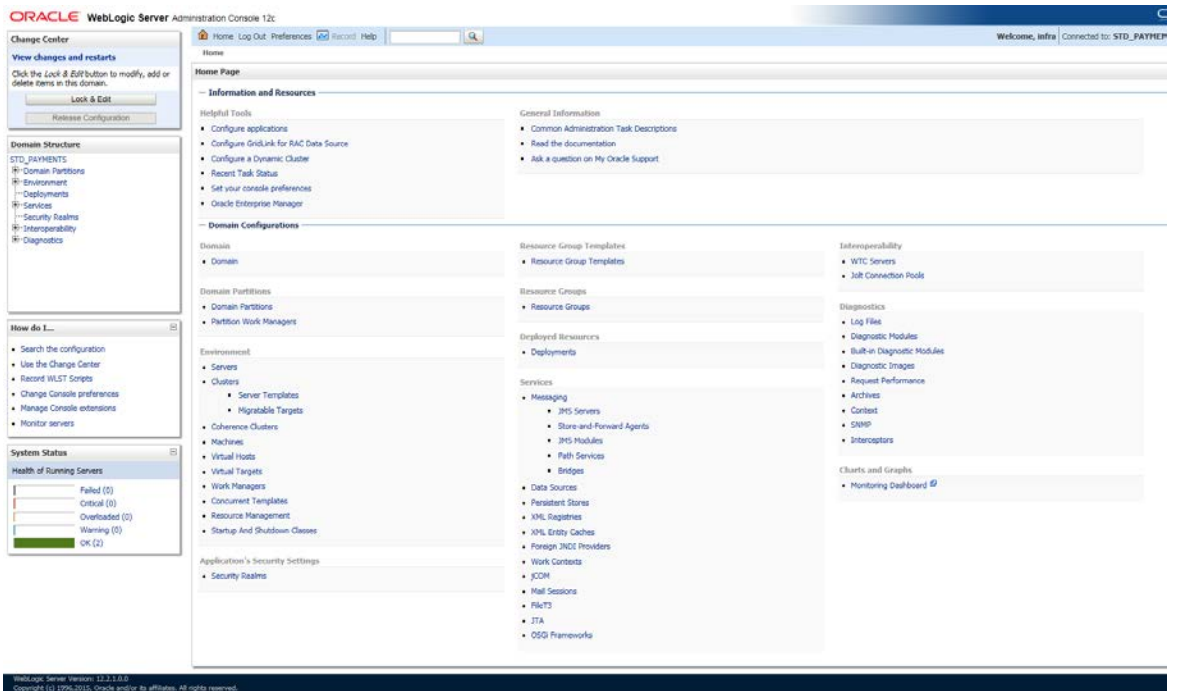
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser.
Eg: <http://10.10.10.10:1001/console>

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

Summary of Deployments

This page displays the list of Java EE applications and standalone application modules installed to this domain. You can update (redeploy) 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**.

Customize this table

Deployments

Name	State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
<input type="checkbox"/> jdf.oracle.businesseditor(1.0.12.2.1.0.0)	Active		Library	AdminServer_payments, pm_server1	Global		100
<input type="checkbox"/> jdf.oracle.domain(1.0.12.2.1.0.0)	Active		Library	AdminServer_payments, pm_server1	Global		100
<input type="checkbox"/> jdf.oracle.domain.webapp(1.0.12.2.1.0.0)	Active		Library	AdminServer_payments, pm_server1	Global		100
<input type="checkbox"/> coherence-transaction-war	Active	OK	Resource Adapter	AdminServer_payments, pm_server1	Global		100
<input type="checkbox"/> @DMS Application (12.2.1.0.0)	Active	OK	Web Application	AdminServer_payments, pm_server1	Global		5
<input type="checkbox"/> jem	Active	OK	Enterprise Application	AdminServer_payments	Global		400
<input type="checkbox"/> jemsagentsdkmp(envr_jar(12.4.12.1.0.4.0))	Active		Library	AdminServer_payments	Global		100
<input type="checkbox"/> jemsagentsdkmp(12.4.12.1.0.4.0)	Active		Library	AdminServer_payments	Global		100
<input type="checkbox"/> jemsagentsdk_jar(12.4.12.1.0.4.0)	Active		Library	AdminServer_payments	Global		100
<input type="checkbox"/> jemas	Active		Library	AdminServer_payments	Global		100
<input type="checkbox"/> jemcore	Active		Library	AdminServer_payments	Global		100
<input type="checkbox"/> jemcoreclient_jar	Active		Library	AdminServer_payments	Global		100
<input type="checkbox"/> jemcorecommon_jar	Active		Library	AdminServer_payments	Global		100
<input type="checkbox"/> jemcoreconsole_jar	Active		Library	AdminServer_payments	Global		100
<input type="checkbox"/> jemcorewebtk_jar(11.2.0.1.0.12.1.0.0.0)	Active		Library	AdminServer_payments	Global		100
<input type="checkbox"/> jemcorewebtk_jar	Active		Library	AdminServer_payments	Global		100
<input type="checkbox"/> jemcorewebtk_jar(11.2.0.1.0.12.1.0.0.0)	Active		Library	AdminServer_payments	Global		100
<input type="checkbox"/> jemcorewebtk_jar(11.2.0.1.0.12.1.0.0.0)	Active		Library	AdminServer_payments	Global		100
<input type="checkbox"/> jemcorewebtk_jar(11.2.0.1.0.12.1.0.0.0)	Active		Library	AdminServer_payments	Global		100
<input type="checkbox"/> jemcore_jar	Active		Library	AdminServer_payments	Global		100
<input type="checkbox"/> jem_common(12.4.12.1.0.4.0)	Active		Library	AdminServer_payments	Global		100
<input type="checkbox"/> jems_core_sdk_sdk_jar	Active		Library	AdminServer_payments	Global		100

Install Application Assistant

Back Next Finish Cancel

Locate deployment to install and prepare for deployment

Select the file path that represents the application root directory, archive file, exploded archive directory, or application module descriptor that you want to install. You can also enter the path of the application directory or file in the Path field.

Note: Only valid file paths are displayed below. If you cannot find your deployment files, Upload your file(s) and/or confirm that your application contains the required deployment descriptors.

Path: /scratch/app/bpm12212/user_projects/domains/SOADM3/servers/AdminServer/upload/jax-rs-2.0.war/app/jax-rs-2.0.war

Recently Used Paths: /scratch/app/bpm12212/user_projects/domains/SOADM3/servers/AdminServer/upload/FCUB5_war/app

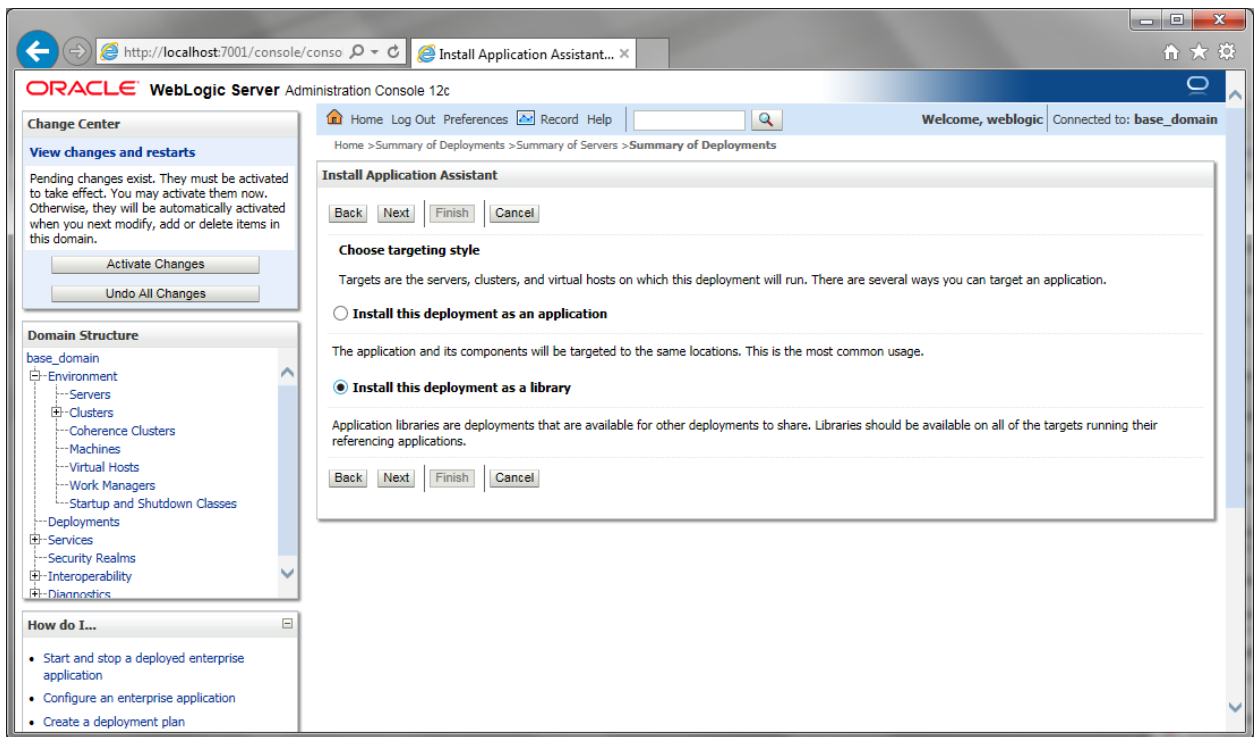
Current Location: 10.184.158.197 / scratch / app / bpm12212 / user_projects / domains / SOADM3 / servers / AdminServer / upload / jax-rs-2.0.war / app

jax-rs-2.0.war

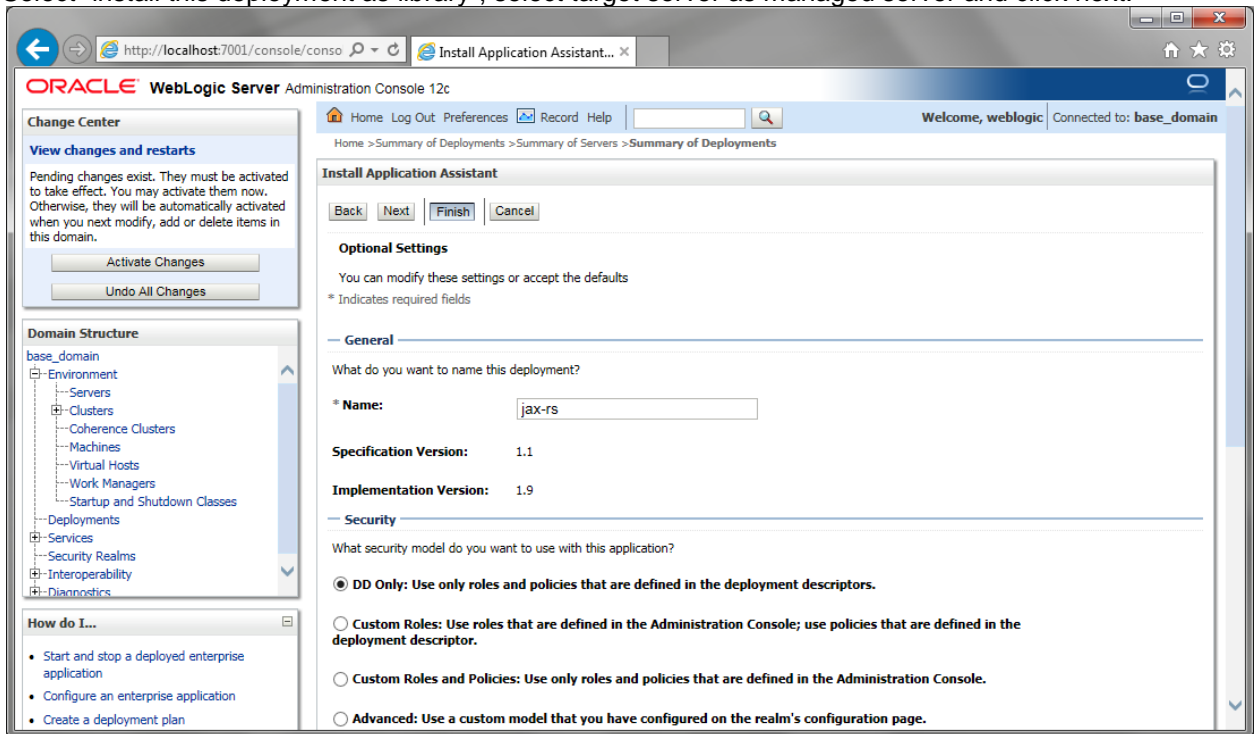
Back Next Finish Cancel

WebLogic Server Version: 12.2.1.2.0
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Navigate and select jersey bundle under the path “w\server\common\deployable-libraries\jax-rs-2.0.war” and click next



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.

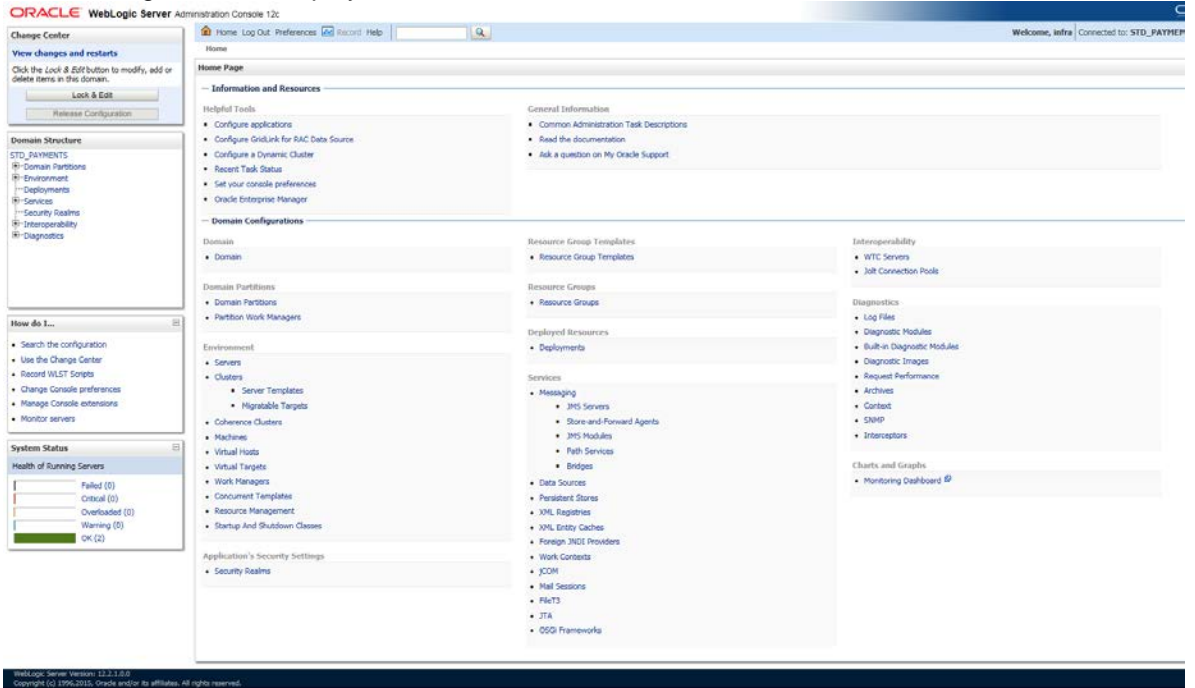
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser.
Eg: <http://10.10.10.10:1001/console>

The following screen is displayed:



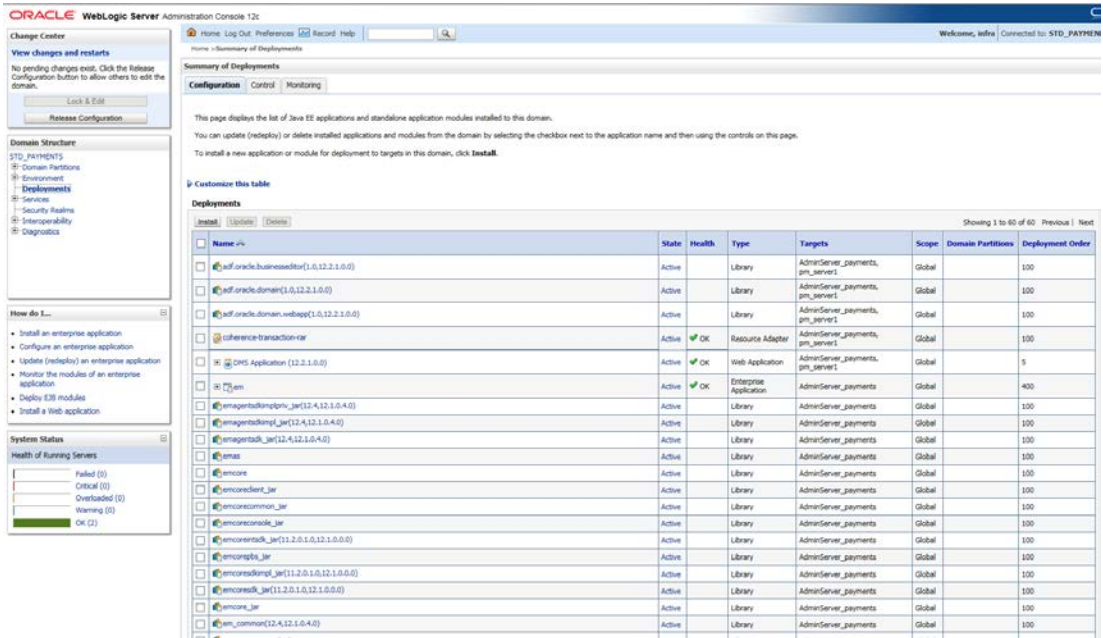
2. Specify the WebLogic administrator user name and password. Click ‘Log In’.

The following screen is displayed:

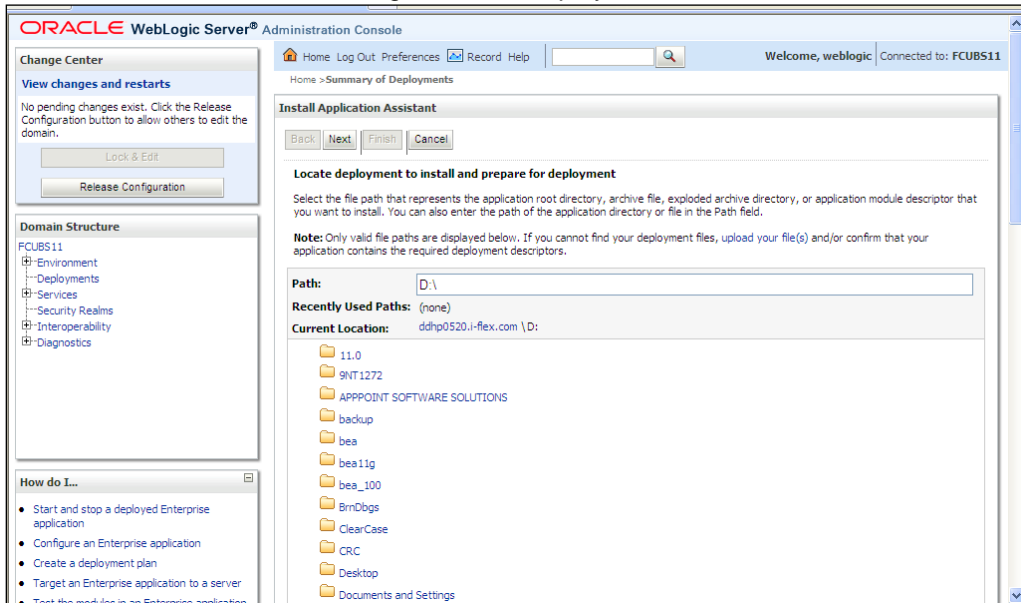


3. You need to deploy an EAR. For e.g. 'FCUBSApp.ear'. Go to 'Deployment'.

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

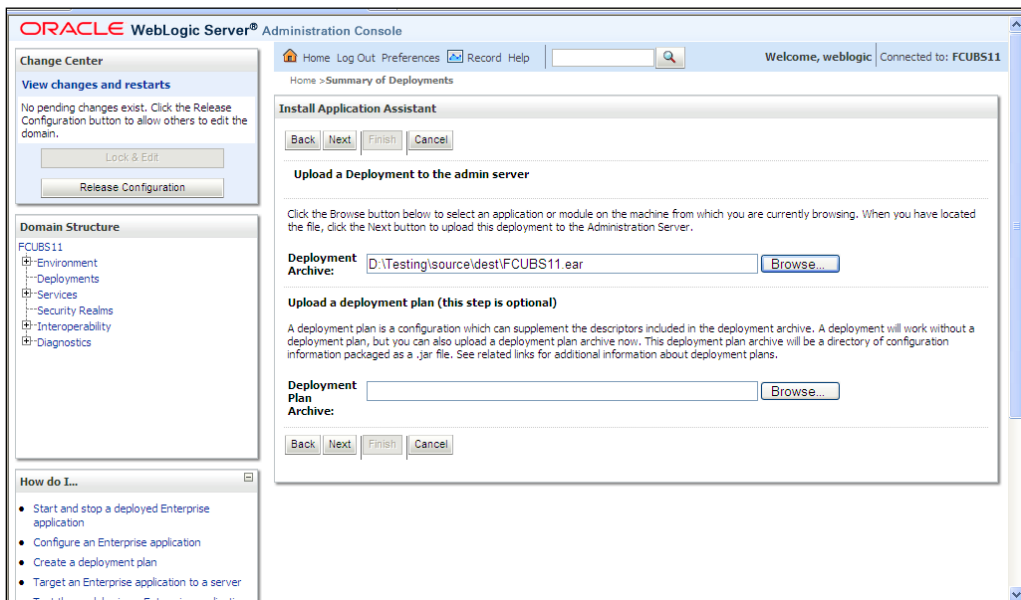


- Click 'Install' button. The following screen is displayed:



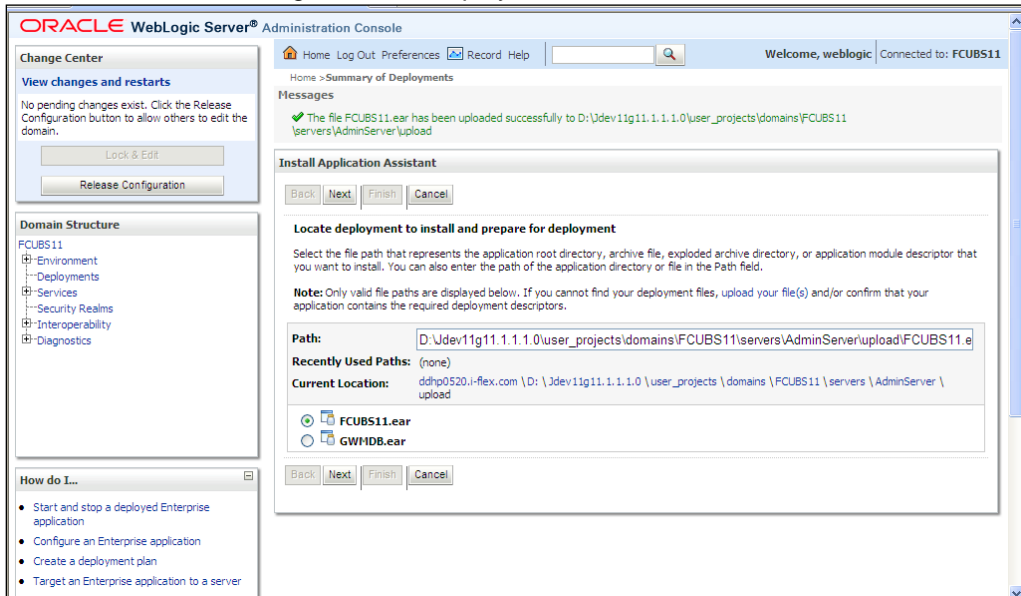
- In order to specify the path/location of the enterprise archive file, click the link 'upload your file(s)'.

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



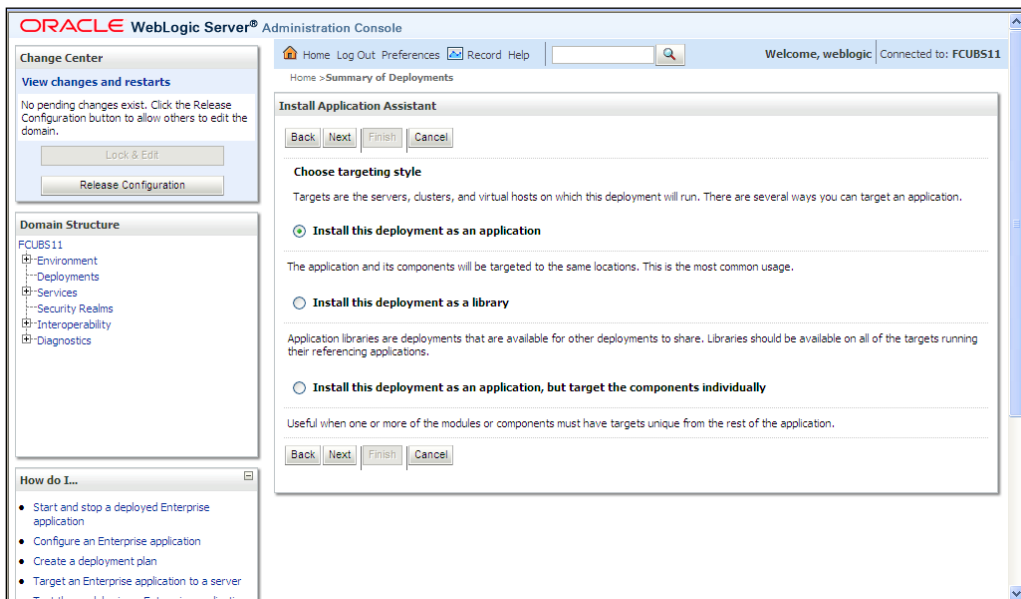
- Specify the EAR file path. You can use the 'Browse' button to locate the file.

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



9. Select the application FCUBS EAR from the list.

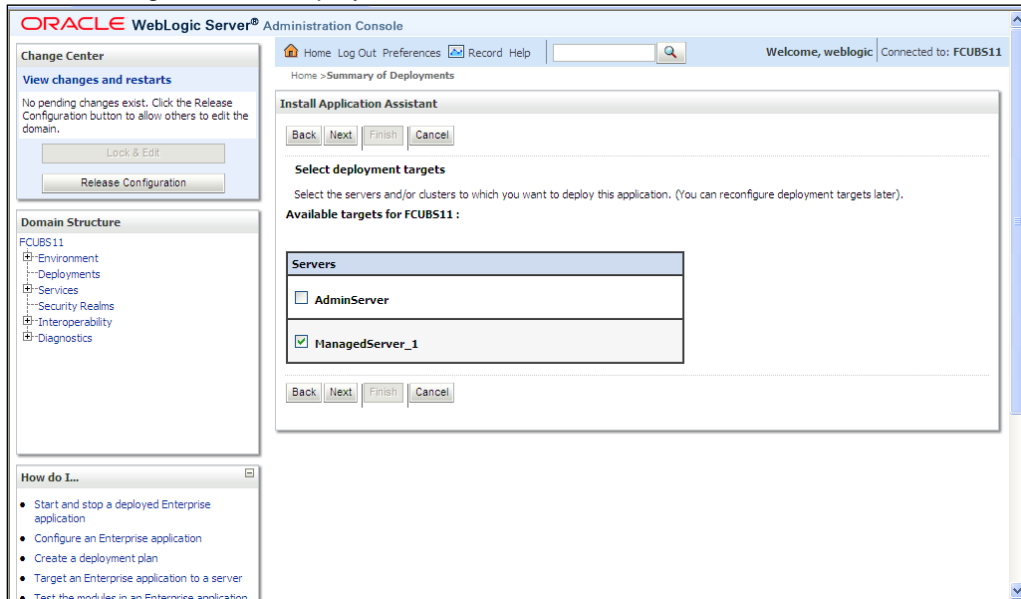
10. Click 'Next'. Following screen is displayed:



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

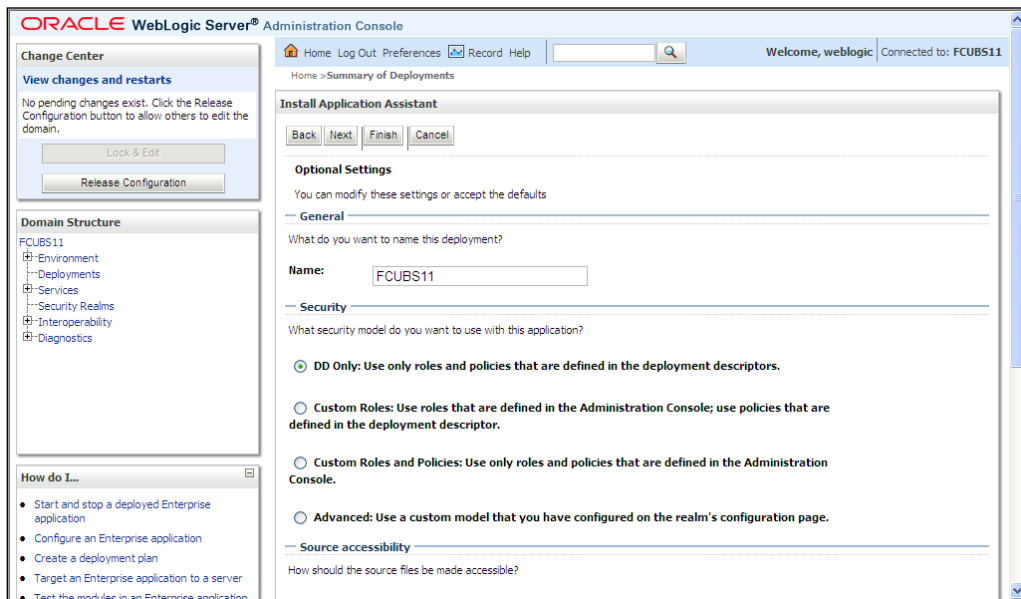
12. Click 'Next'.

The following screen is displayed



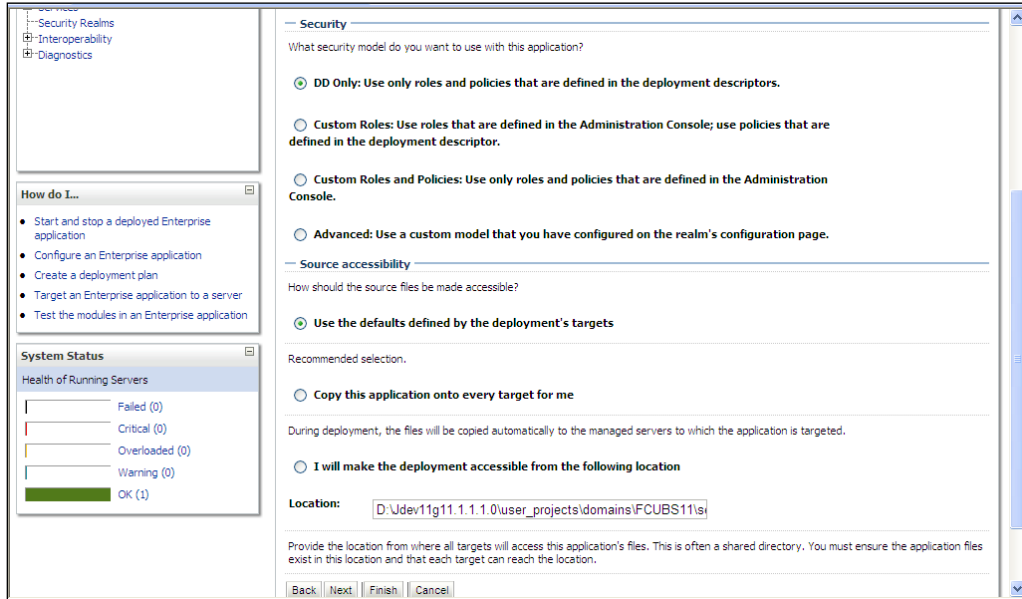
13. Select the target of the application. You can choose the server 'AdminServer' or 'Managed Server(s)'.

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



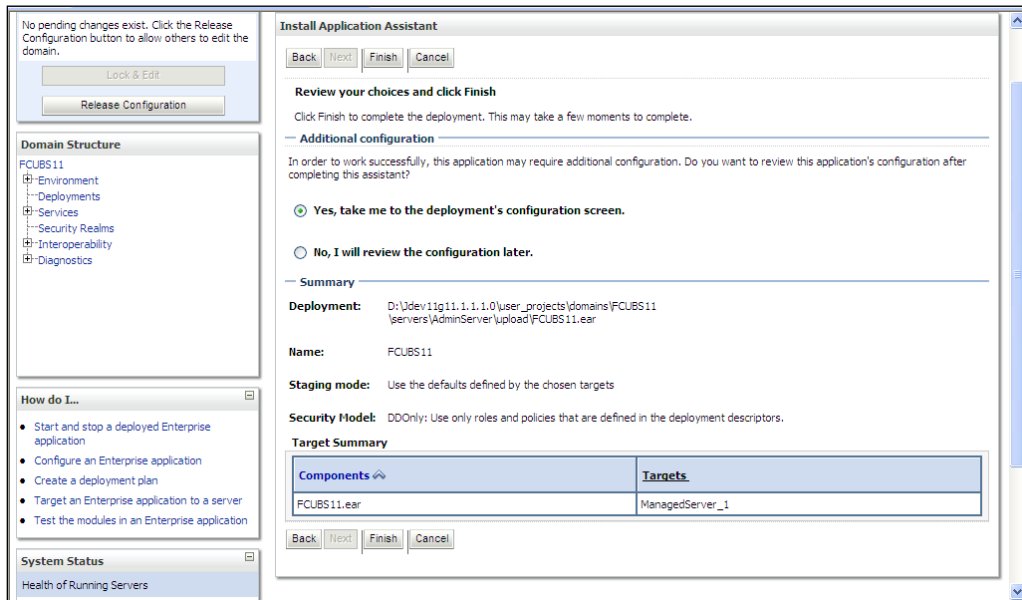
15. Check the deployment name.

The remaining portion of the screen is shown below:



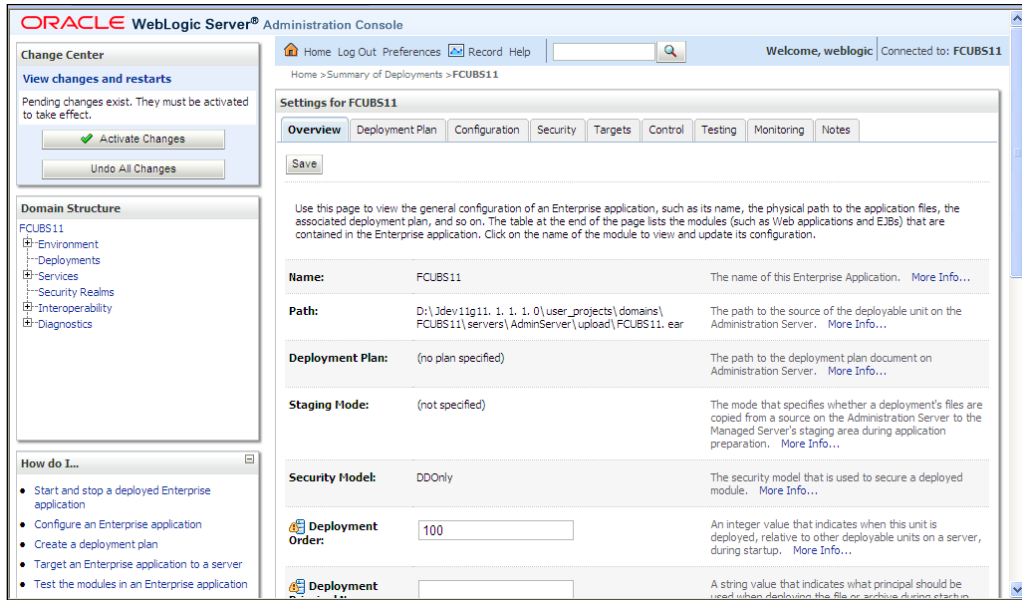
16. Check whether the deployment location is accessible or not.

The following screen is displayed.

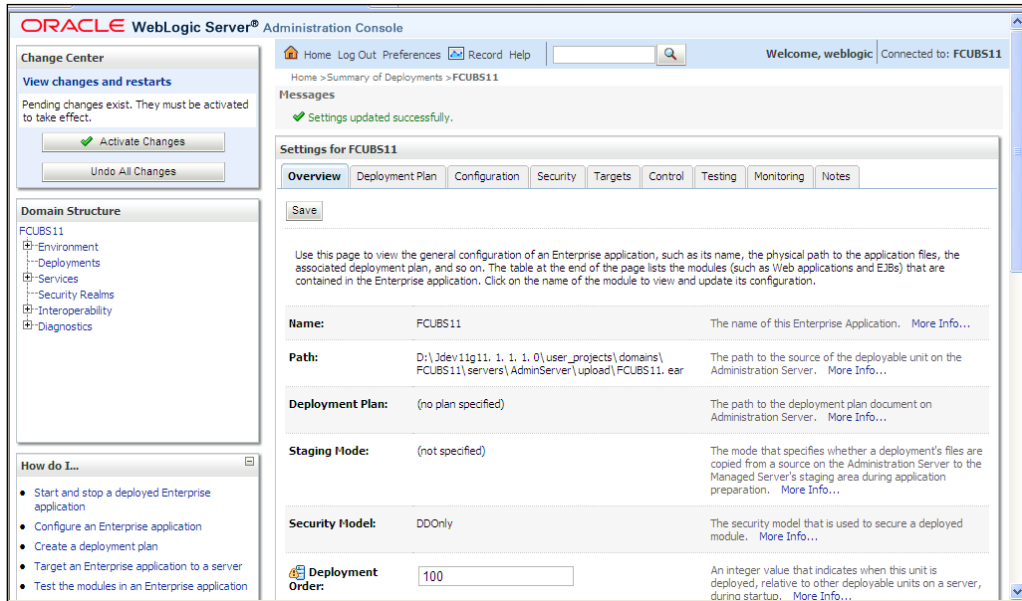


17. Click 'Finish' button. The following screen is displayed.

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

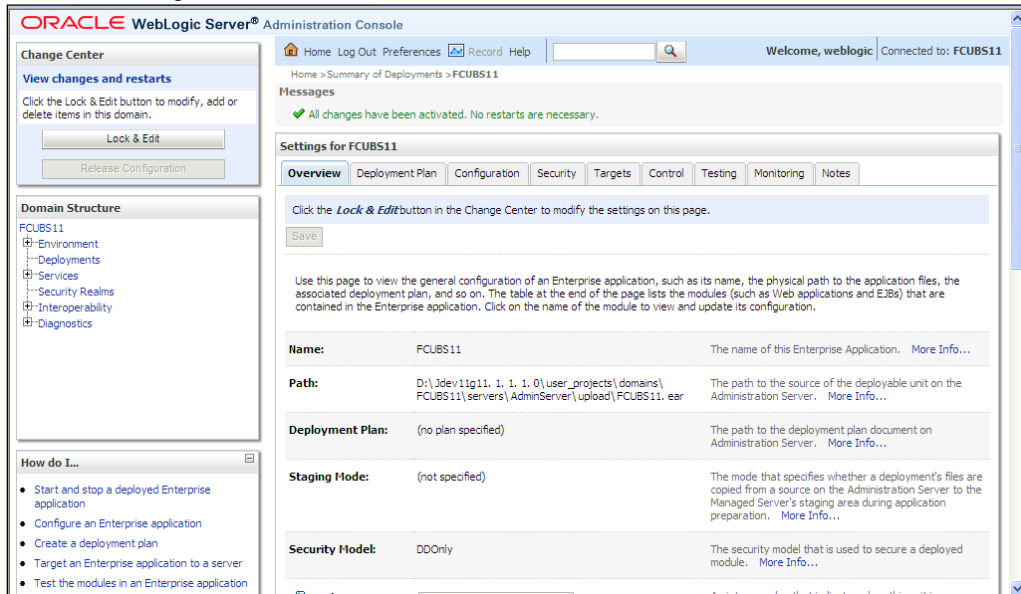


18. Click 'Save' button. The message 'Settings updated successfully' is displayed.

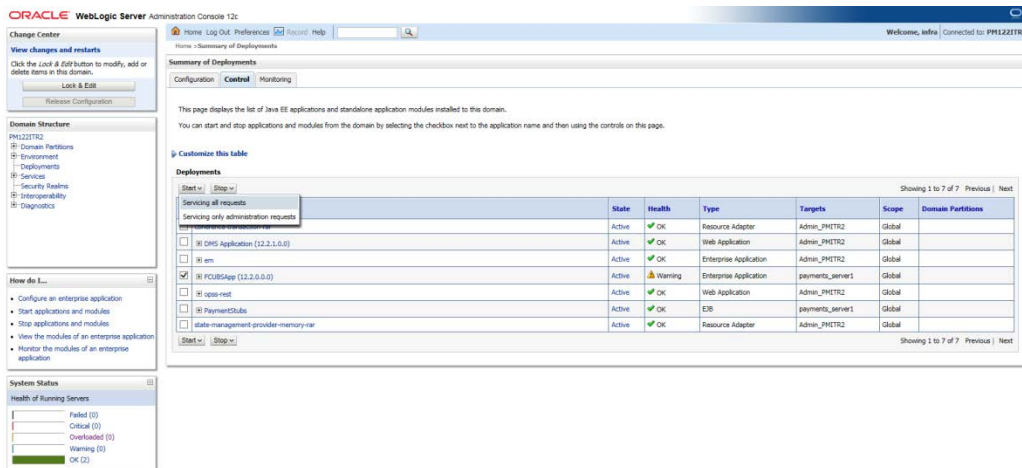


19. Click 'Activate Changes' button on the left pane. The message 'All the changes have been activated. No restarts are necessary' is displayed.

The screen is given below:

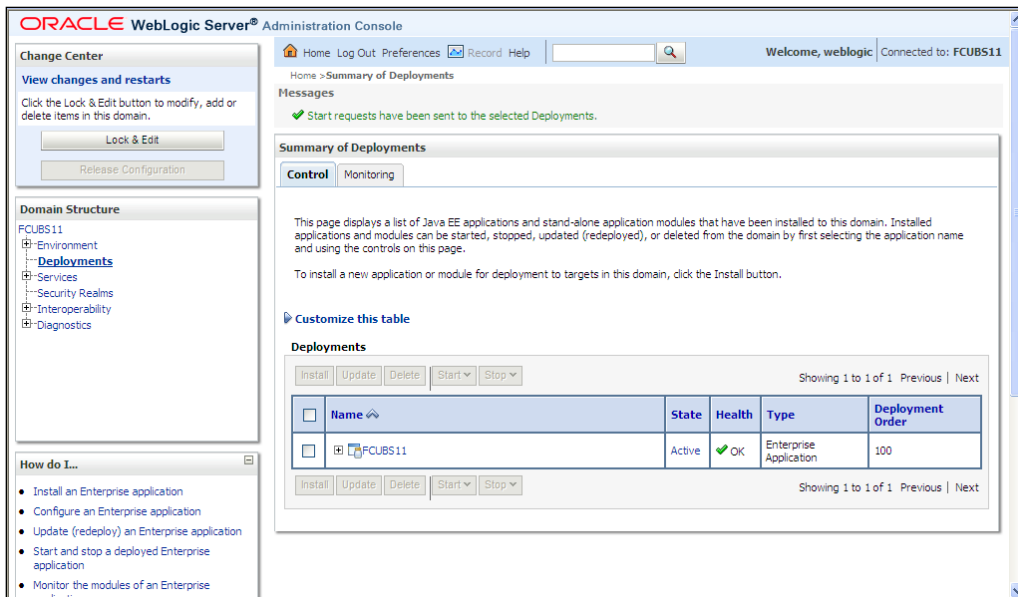
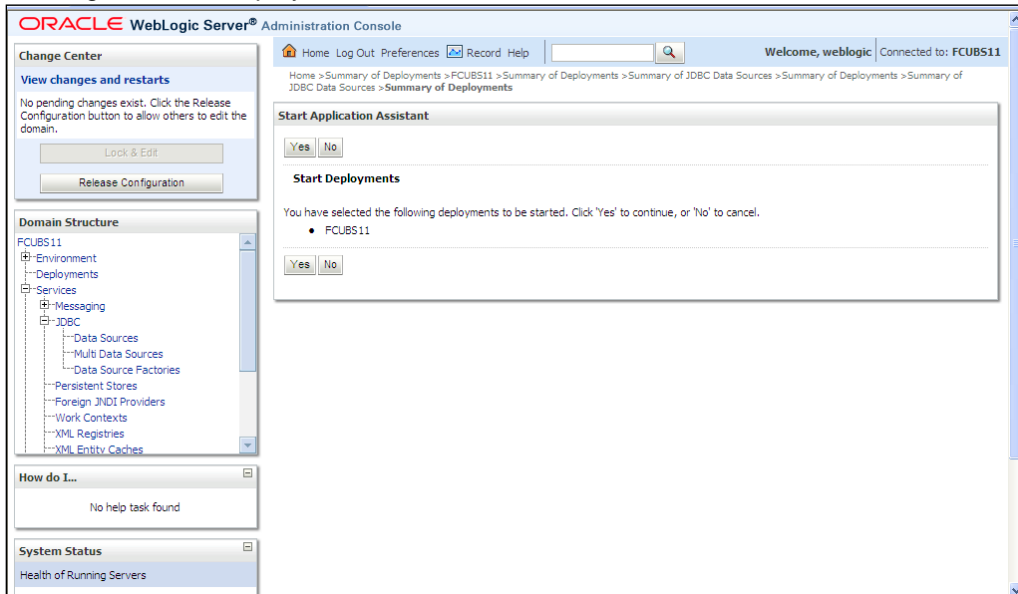


Click 'Deployment' on the left pane. Switch to Control tab .The following screen is displayed.



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

The following screen is displayed.



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

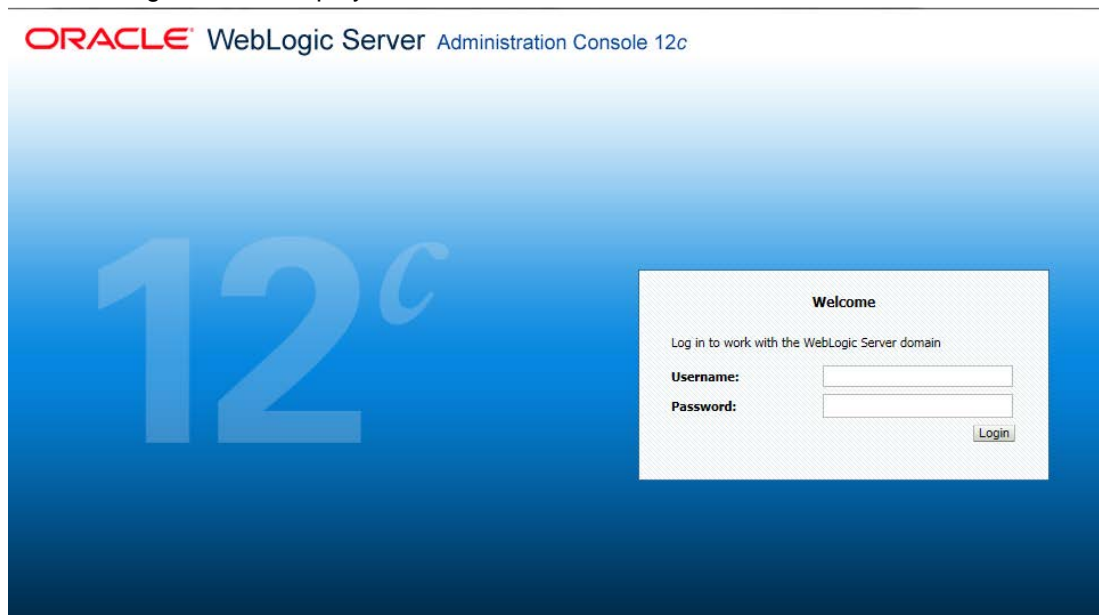
This completes the deployment process.

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.

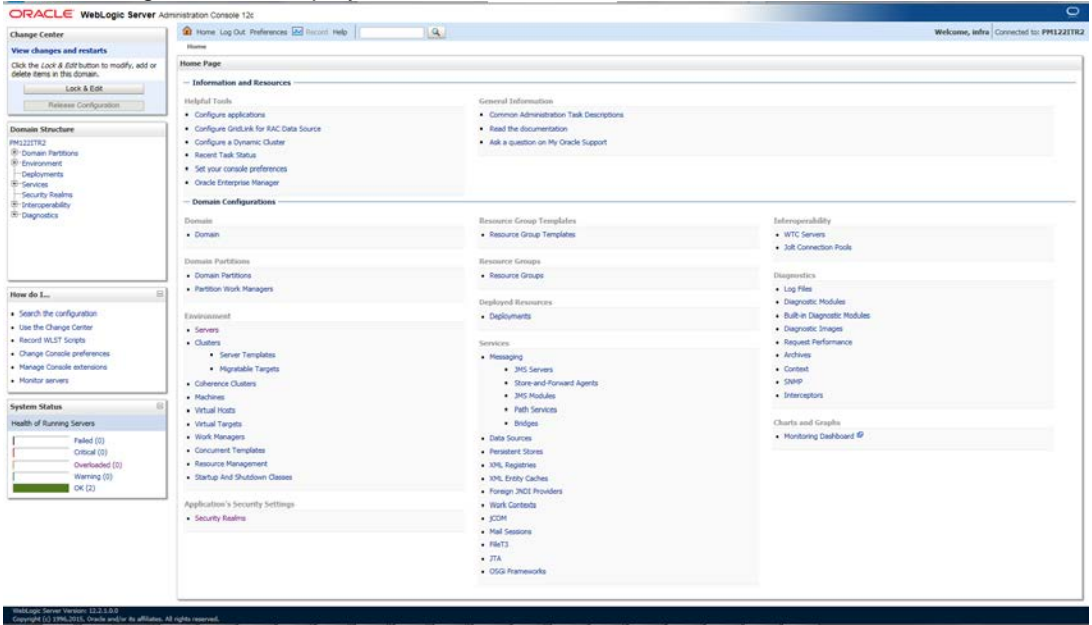
1. Launch Administrative Console of WebLogic application server. You can launch this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser.
Eg: `http://10.10.10.10:1001/console`

22. The following screen is displayed:



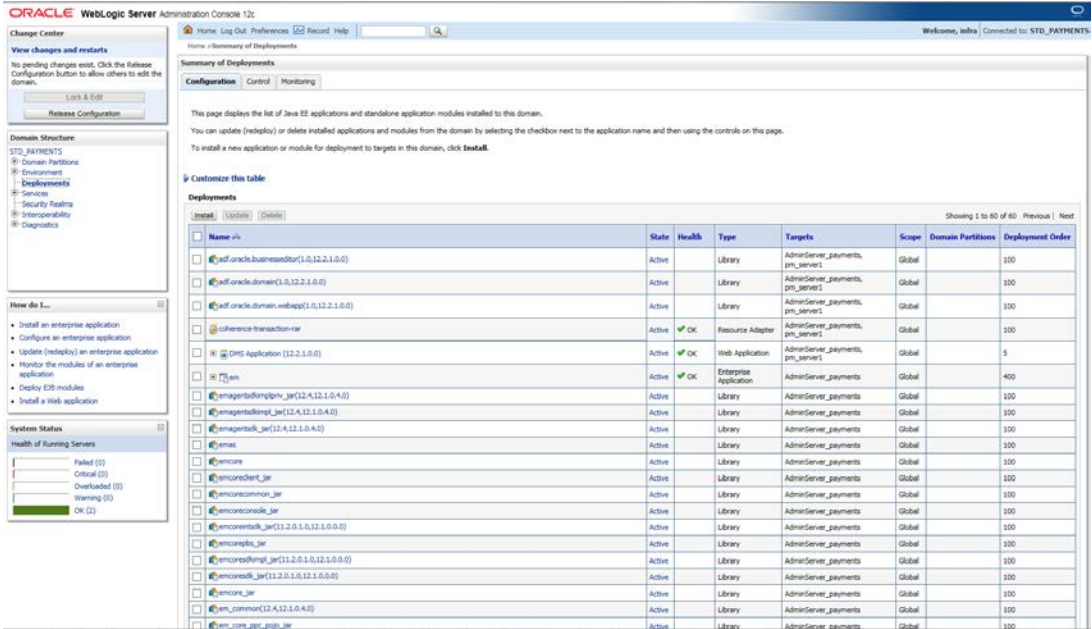
23. Specify the WebLogic administrator user name and password. Click 'Log In'.

The following screen is displayed:

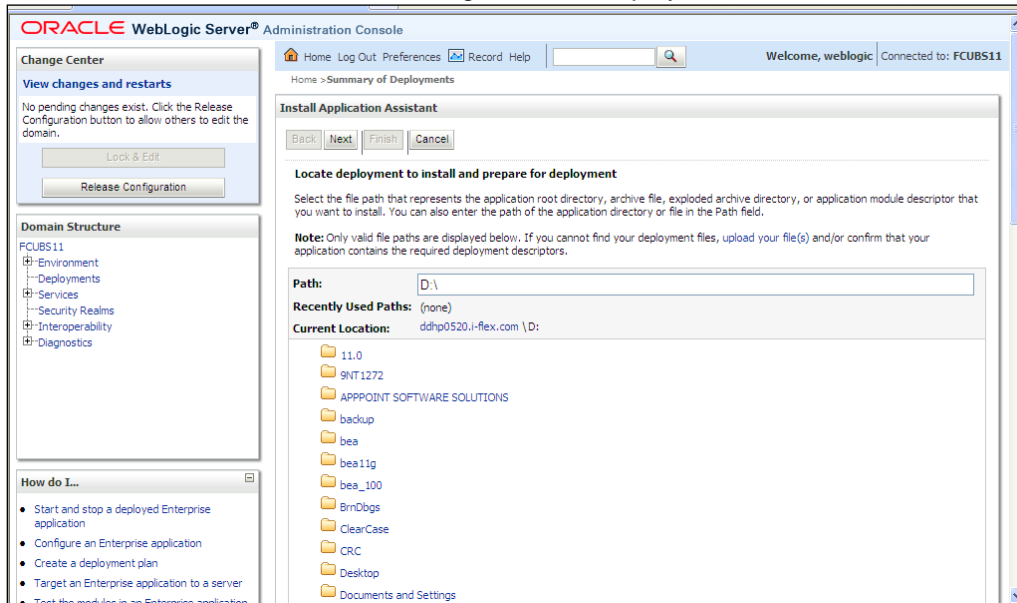


24. You need to deploy an EAR. For e.g. 'GWEJB.ear'. Go to 'Deployment'.

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

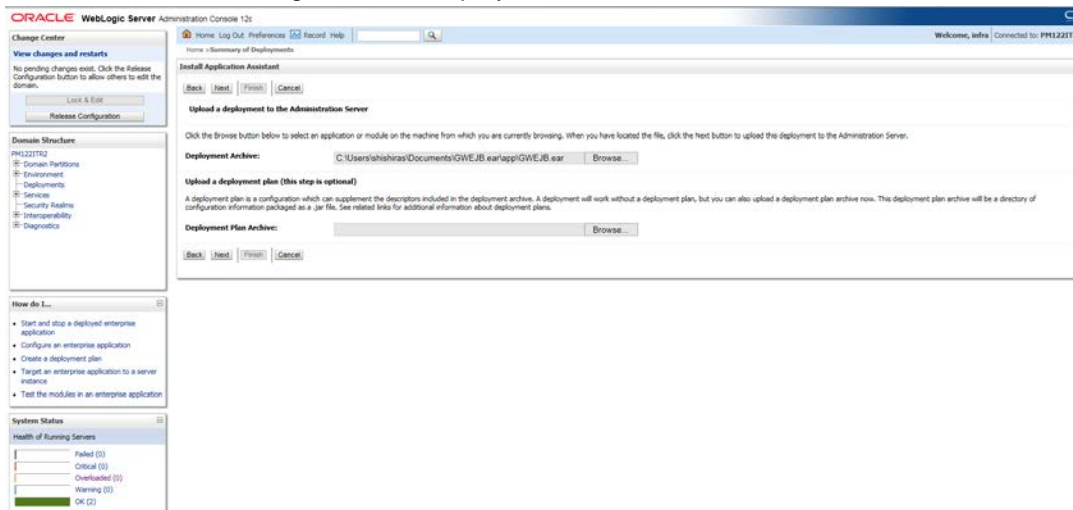


25. Click 'Install' button. The following screen is displayed:



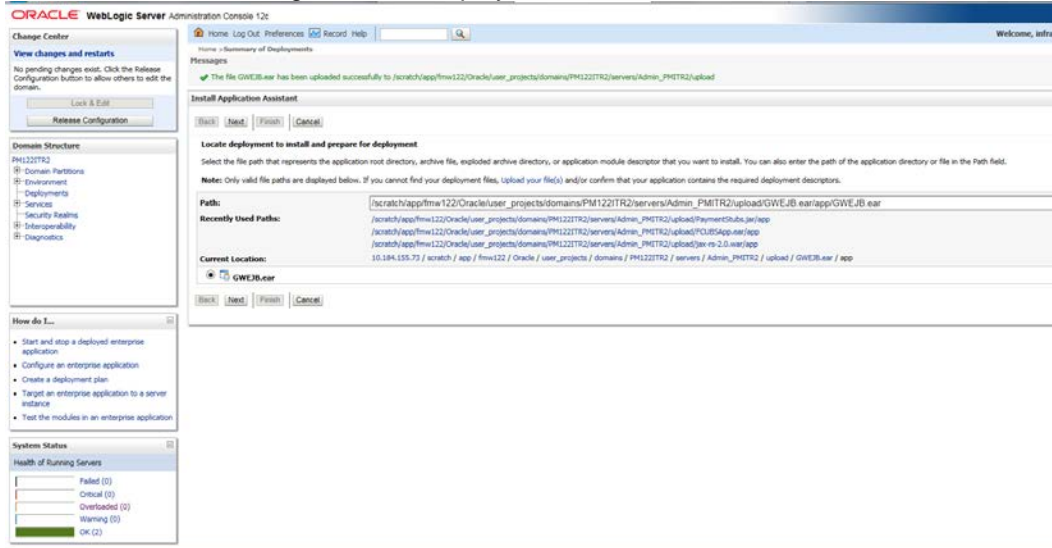
26. In order to specify the path/location of the enterprise archive file, click the link 'upload your file(s)'.

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



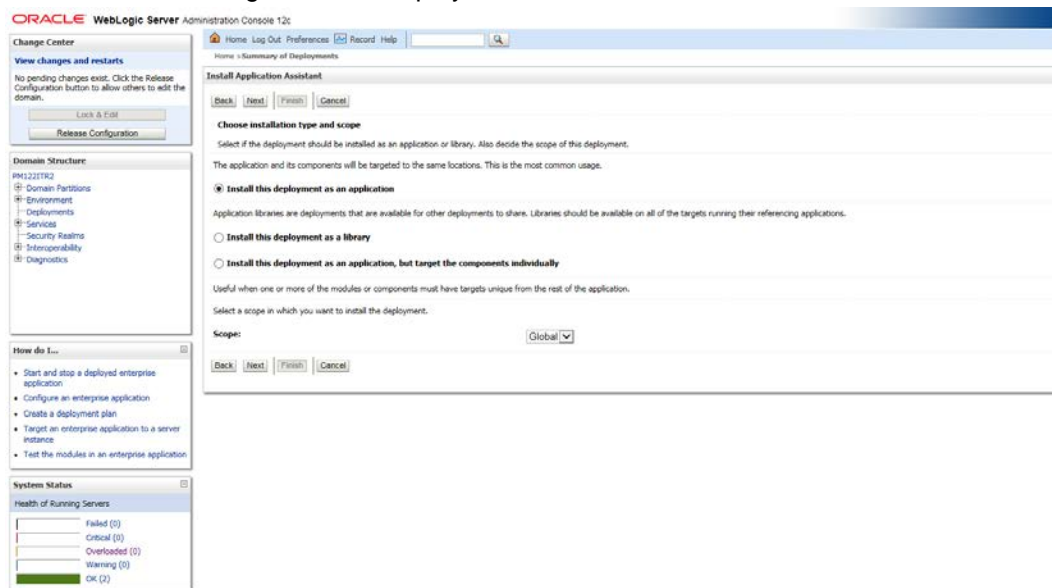
28. Specify the EAR file path. You can use the 'Browse' button to locate the file.

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



30. Select the application from the list.

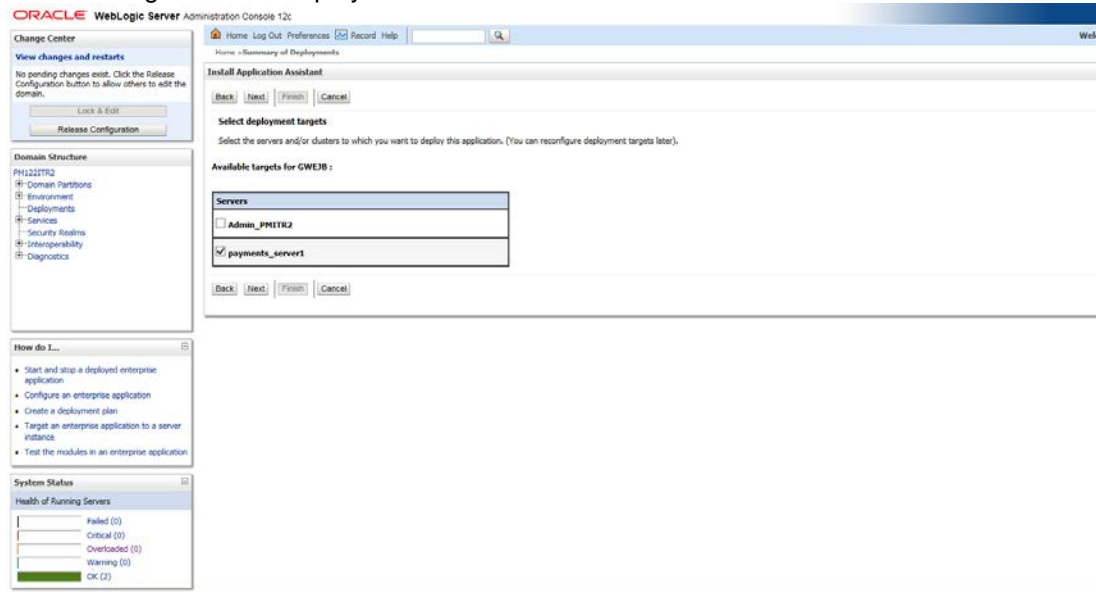
31. Click 'Next'. Following screen is displayed:



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

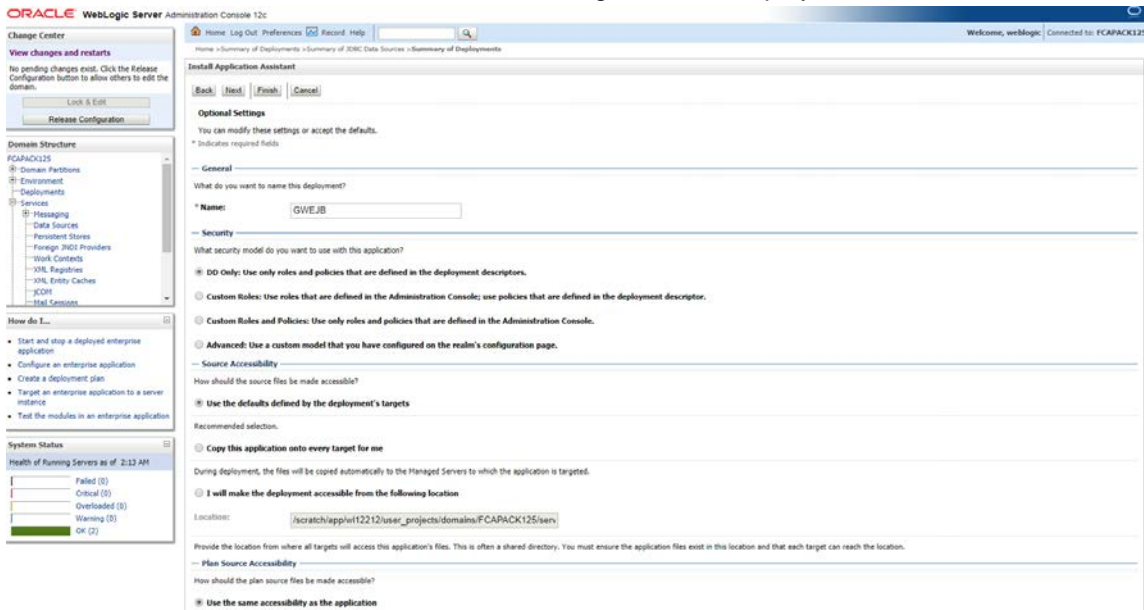
33. Click 'Next'.

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.



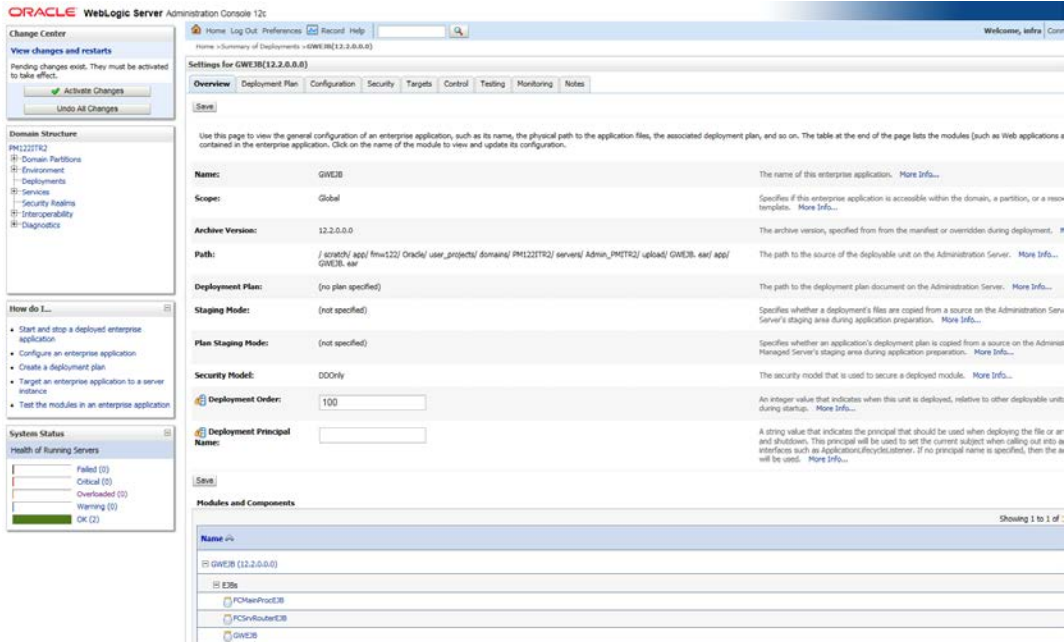
36. Check the deployment name.

The remaining portion of the screen is shown below:

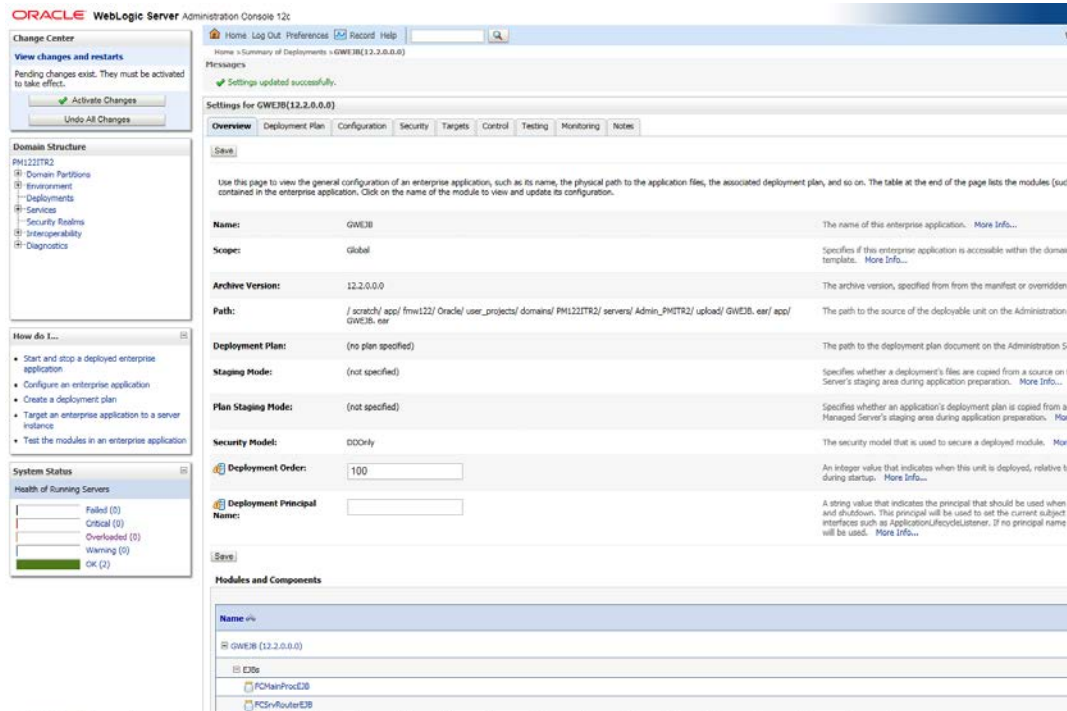
Check whether the deployment location is accessible or not. The following screen is displayed.

Components	Targets
GWEJB.ear	paymenta_server1

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



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:

The screenshot shows the Oracle WebLogic Server Administration Console 12c interface. The main content area displays the 'Settings for GWEJB(12.2.0.0.0)' page. The 'Overview' tab is selected, showing a list of configuration parameters with their values and descriptions. For example, the 'Name' is 'GWEJB', 'Scopes' is 'Global', and 'Archive Version' is '12.2.0.0.0'. The 'Deployment Order' is set to '100'. Below the settings, there is a 'Modules and Components' section showing a tree view of installed modules, including 'GWEJB (12.2.0.0.0)', 'EJBs', 'FCMainProcEJB', and 'FCSrvRouterEJB'.

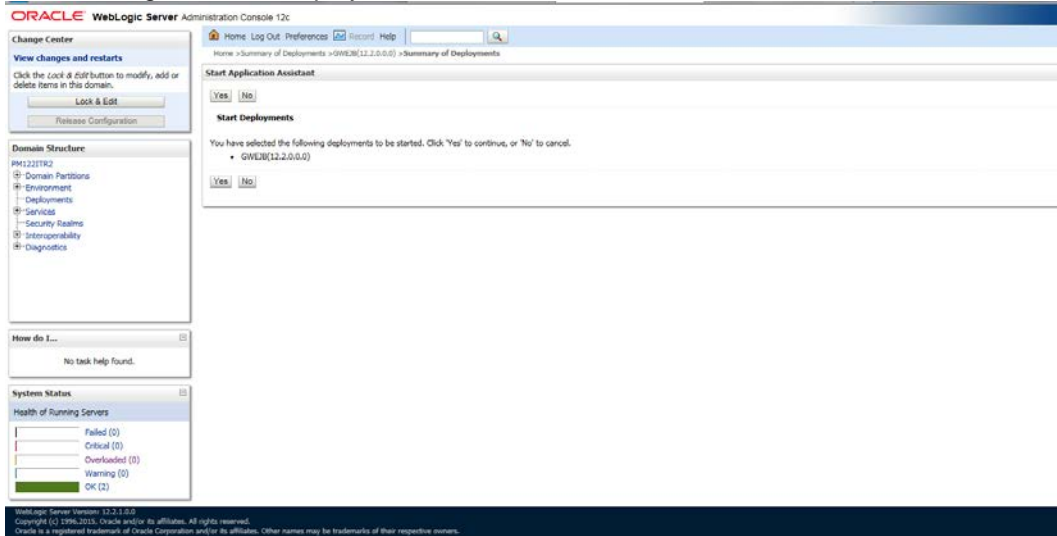
Click 'Deployment' on the left pane. Switch to Control tab. The following screen is displayed.

The screenshot shows the 'Summary of Deployments' page in the Oracle WebLogic Server Administration Console 12c. The 'Control' tab is active, displaying a table of installed applications and modules. The table has columns for Name, State, Health, Type, Targets, Scope, and Domain Partition. The 'GWEJB (12.2.0.0.0)' application is selected, and its 'Start' drop-down menu is open, showing options like 'Servicing all requests' and 'Servicing only administration requests'. Other applications listed include 'DMS Application (12.2.1.0.0)', 'em', 'FCUBSApp (12.2.0.0.0)', 'opss-rest', 'PaymentStub', and 'state-management-provider-memory-war'.

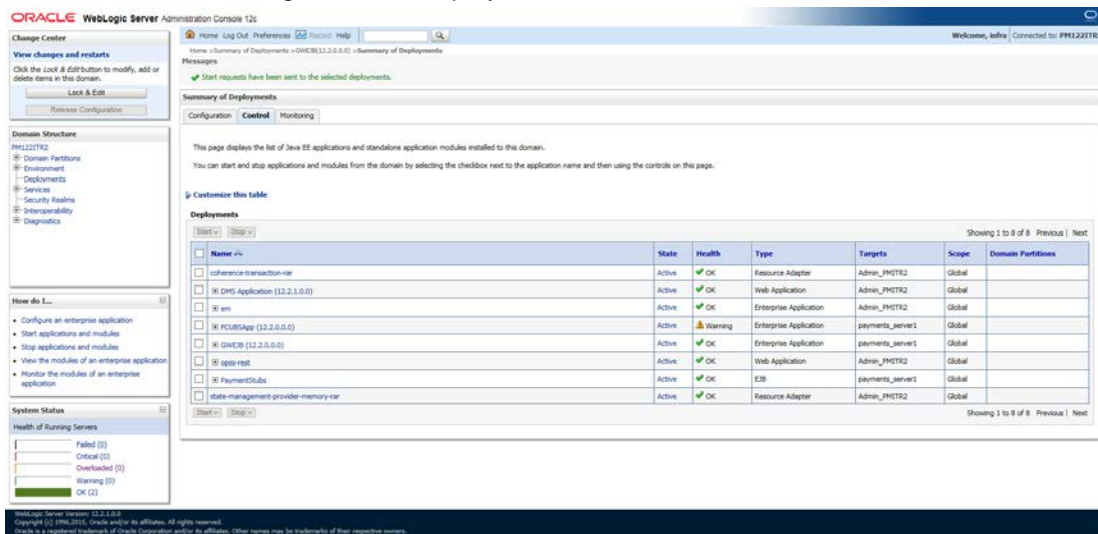
Name	State	Health	Type	Targets	Scope	Domain Partition
☐ Servicing all requests						
☐ Servicing only administration requests						
☐ DMS Application (12.2.1.0.0)	Active	OK	Web Application	Admin_PMTIR2	Global	
☐ em	Active	OK	Enterprise Application	Admin_PMTIR2	Global	
☐ FCUBSApp (12.2.0.0.0)	Active	Warning	Enterprise Application	payments_server1	Global	
☑ GWEJB (12.2.0.0.0)	Prepared	OK	Enterprise Application	payments_server1	Global	
☐ opss-rest	Active	OK	Web Application	Admin_PMTIR2	Global	
☐ PaymentStub	Active	OK	EJB	payments_server1	Global	
☐ state-management-provider-memory-war	Active	OK	Resource Adapter	Admin_PMTIR2	Global	

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.



This completes the deployment process.

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



Deploying Oracle FLEXCUBE on WebLogic
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<https://www.oracle.com/industries/financial-services/index.html>

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