

Deploying Oracle FLEXCUBE Application on WebLogic  
Oracle FLEXCUBE Universal Banking  
Release 14.6.0.0.0  
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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.

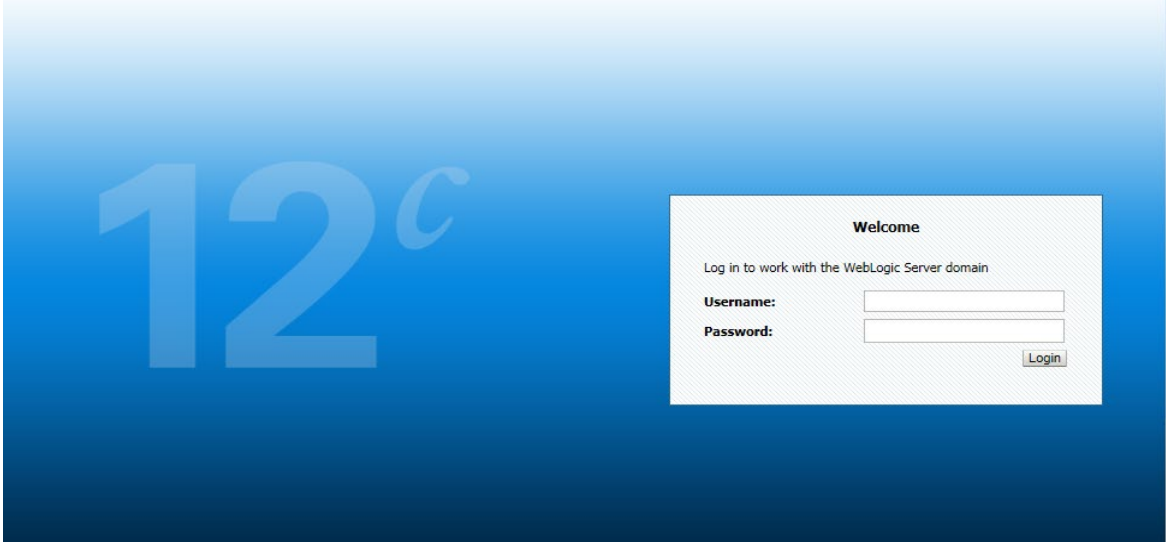
### 1.3.1 Deploying Integration Adapter EAR from WebLogic Administration Console

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

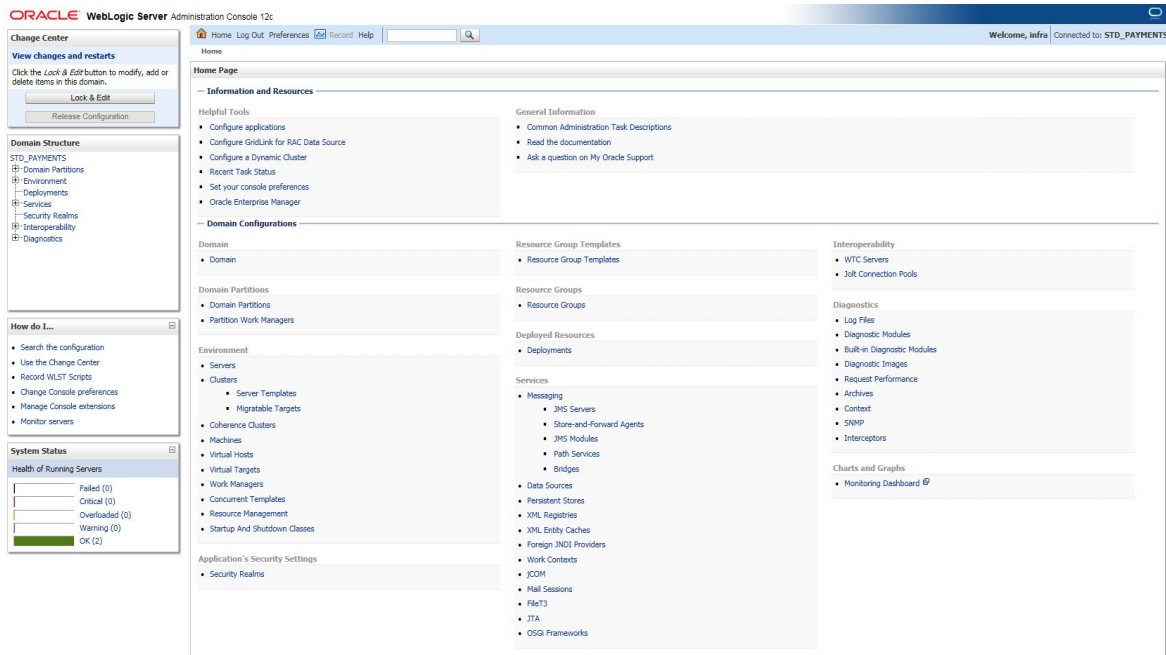
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser.

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

The 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**

Name	State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
adf.oracle.businesseditor(1.0,12.2.1.0.0)	Active		Library	AdminServer_payments, pm_server1	Global		100
adf.oracle.domain(1.0,12.2.1.0.0)	Active		Library	AdminServer_payments, pm_server1	Global		100
adf.oracle.domain.webapp(1.0,12.2.1.0.0)	Active		Library	AdminServer_payments, pm_server1	Global		100
coherence-transaction-rar	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
emagentdmsplm_jar(12.4.12.1.0.4.0)	Active		Library	AdminServer_payments	Global		100
emagentdmspl_jar(12.4.12.1.0.4.0)	Active		Library	AdminServer_payments	Global		100
emagentbak_jar(12.4.12.1.0.4.0)	Active		Library	AdminServer_payments	Global		100
emagent	Active		Library	AdminServer_payments	Global		100
emagent	Active		Library	AdminServer_payments	Global		100
emagentclient_jar	Active		Library	AdminServer_payments	Global		100
emagentcommon_jar	Active		Library	AdminServer_payments	Global		100
emagentconsole_jar	Active		Library	AdminServer_payments	Global		100
emagentcsdk_jar(11.2.0.1.0,12.1.0.0.0)	Active		Library	AdminServer_payments	Global		100
emagentcsbs_jar	Active		Library	AdminServer_payments	Global		100
emagentcsdsking_jar(11.2.0.1.0,12.1.0.0.0)	Active		Library	AdminServer_payments	Global		100
emagentcsdk_jar(11.2.0.1.0,12.1.0.0.0)	Active		Library	AdminServer_payments	Global		100
emagentcore_jar	Active		Library	AdminServer_payments	Global		100
emagentcommon(12.4.12.1.0.4.0)	Active		Library	AdminServer_payments	Global		100
emagentcore.jar	Active		Library	AdminServer_payments	Global		100

5. Click 'Install' button.

The following screen is displayed:

**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:** D:\

**Recently Used Paths:** (none)

**Current Location:** ddhp0520.i-flex.com \D:

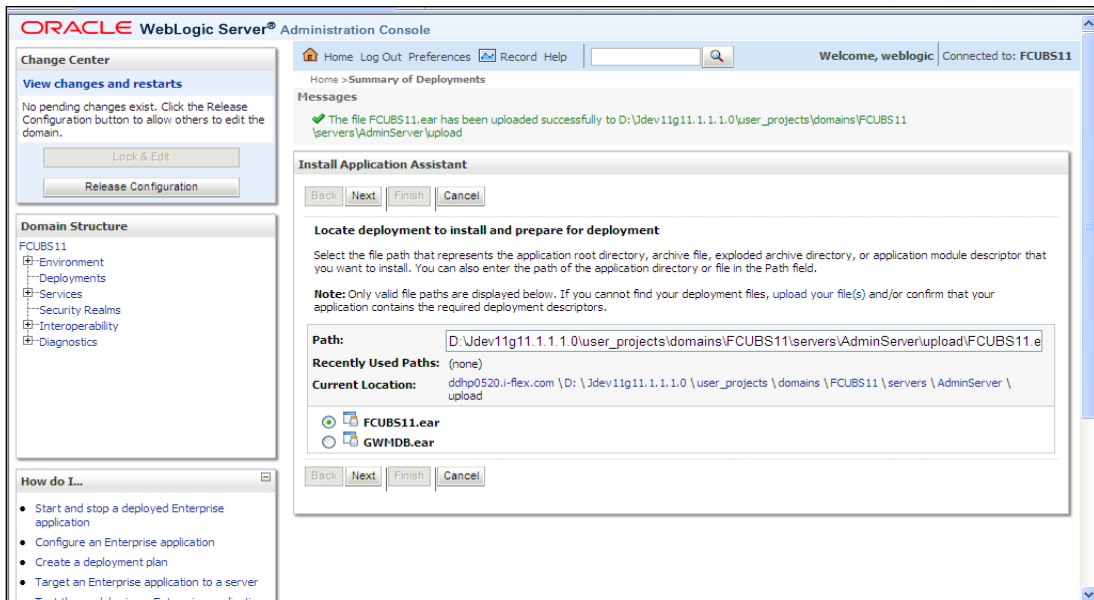
- 11.0
- 9NT1272
- APPOINT SOFTWARE SOLUTIONS
- backup
- bea
- bea11g
- bea\_100
- BrnDbgs
- ClearCase
- CRC
- Desktop
- Documents and Settings

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

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

8. Click 'Next'.

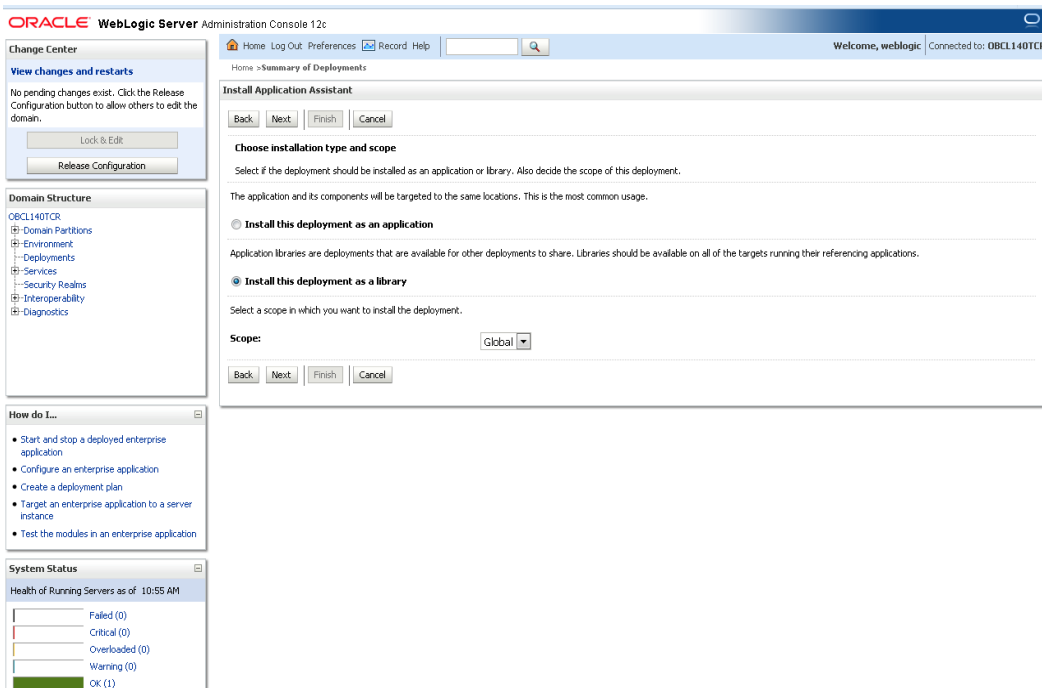
The following screen is displayed.



9. Select the application Adapter EAR from the list.

10. Click 'Next'.

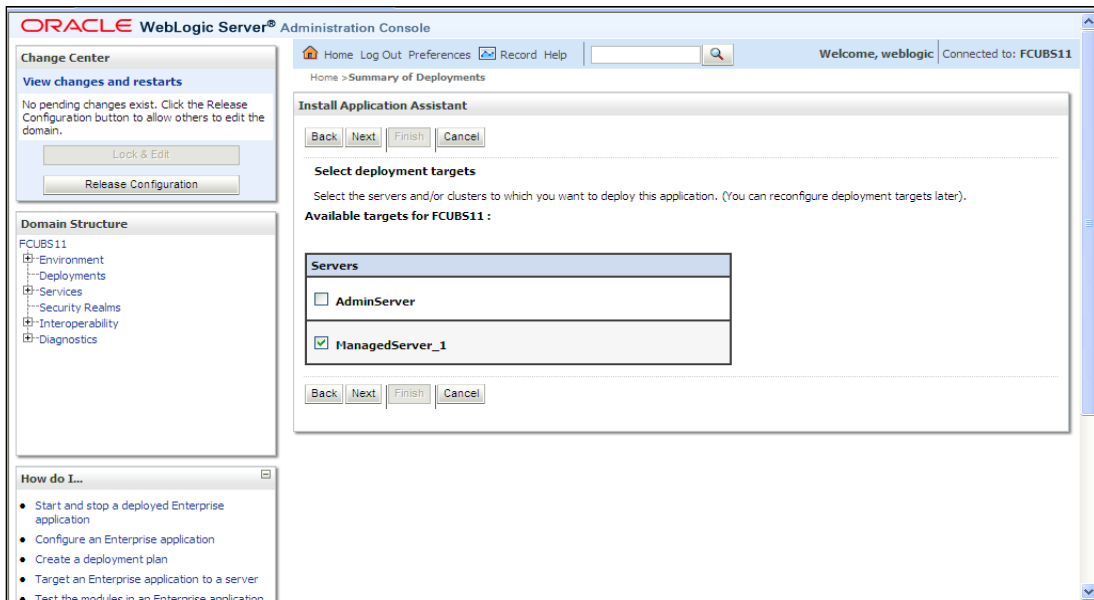
The following screen is displayed.



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

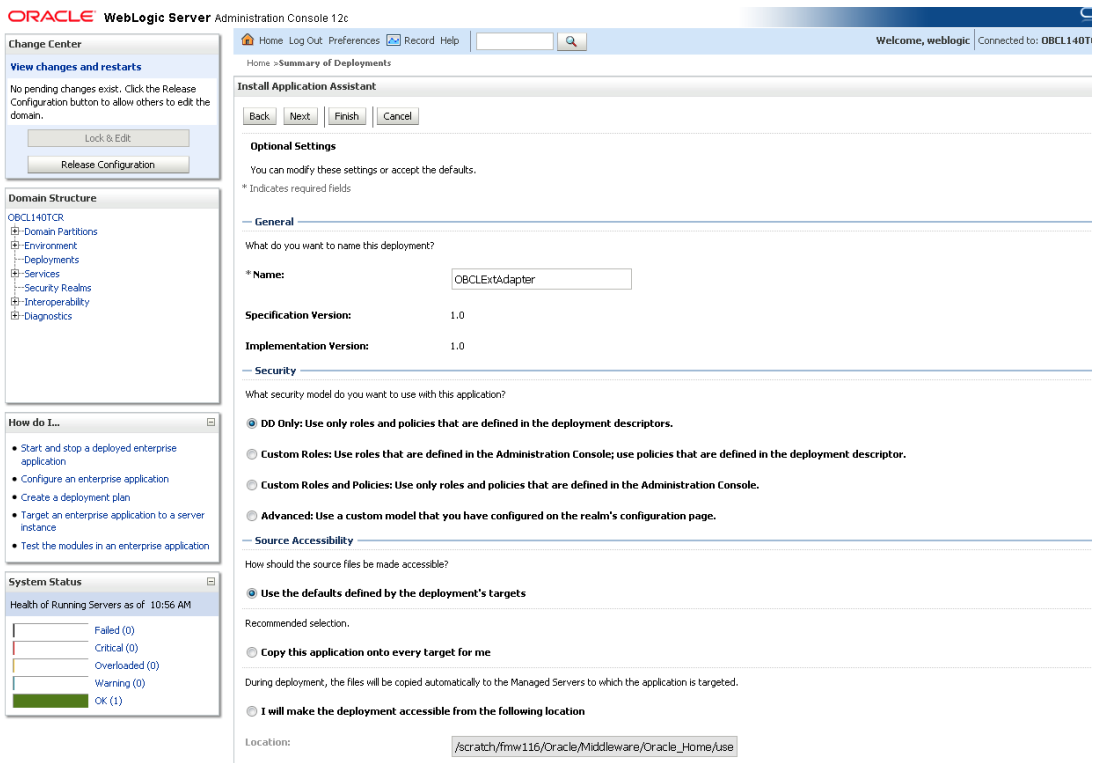
12. Click 'Next'.

The following screen is displayed.



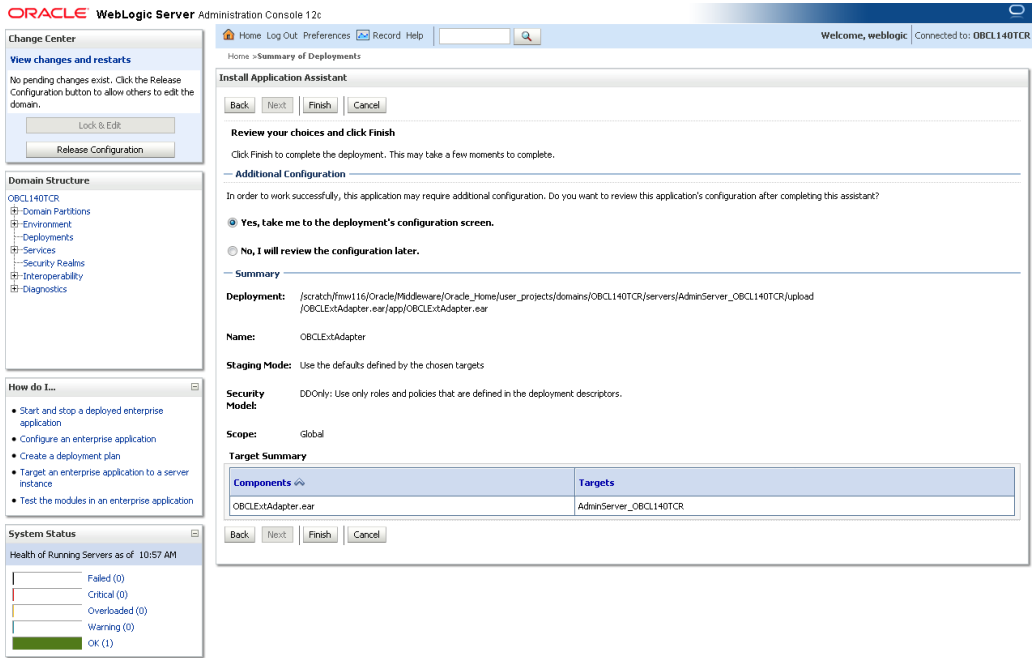
13. Select the target of the application. You can choose the server 'AdminServer' or 'Managed Server(s)'.

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



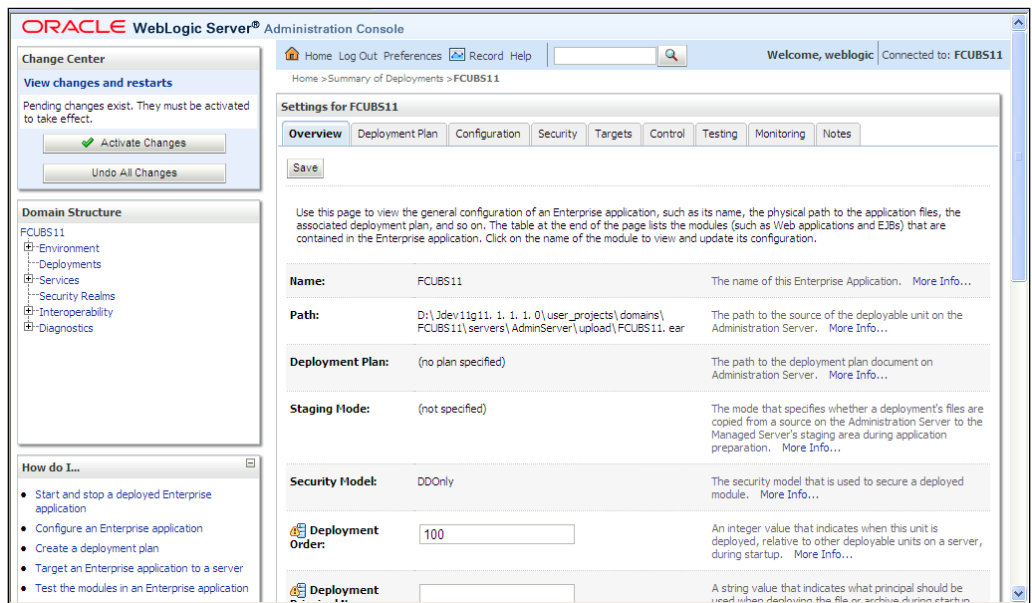
15. Check the deployment name.

The remaining portion of the screen is shown below:



16. Click 'Finish' button.

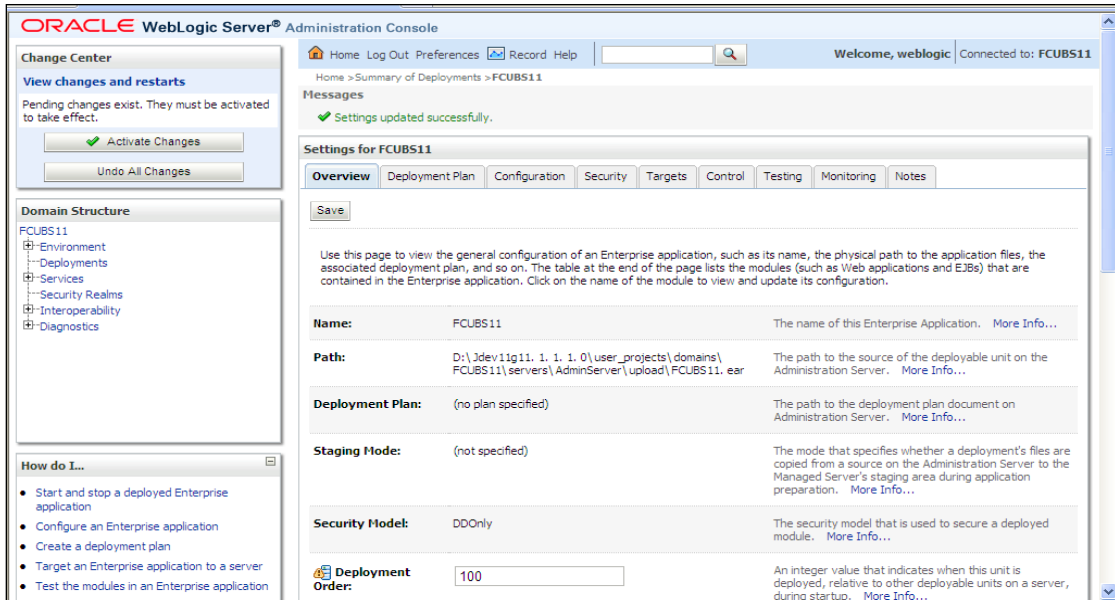
The following screen is displayed.



17. Click 'Save' button.

The message 'Settings updated successfully' is displayed.





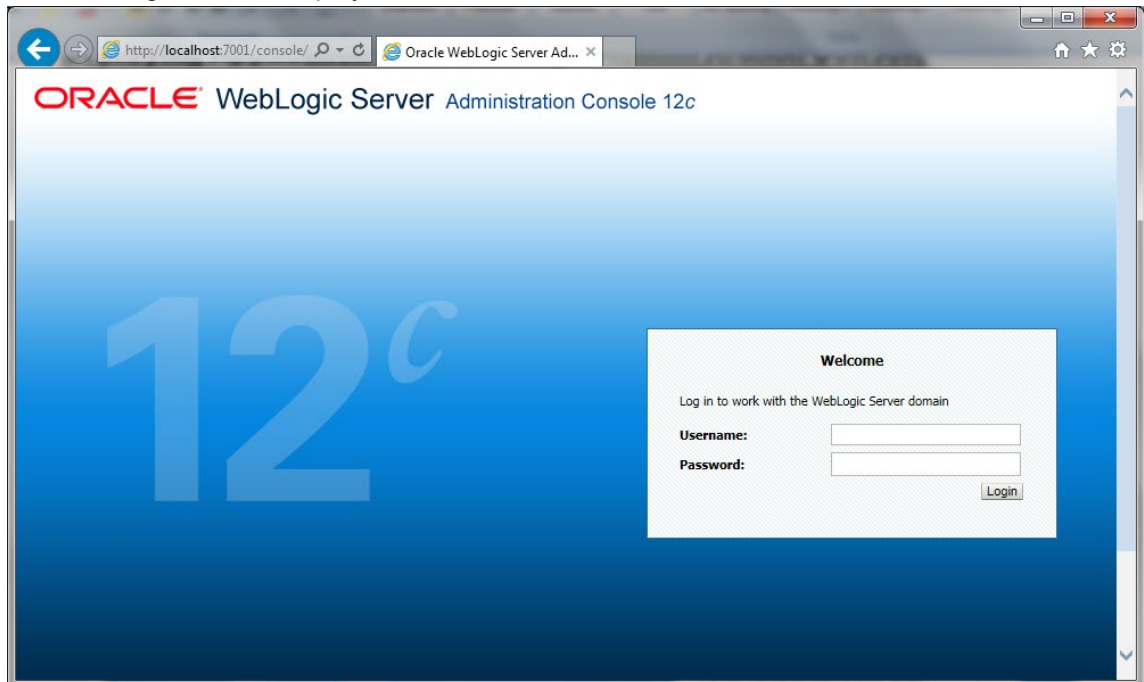
18. Click 'Activate Changes' button on the left pane. The message 'All the changes have been activated. No restarts are necessary' is displayed.

### 1.3.2 Deploying Dependency Library "Jax-RS"

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

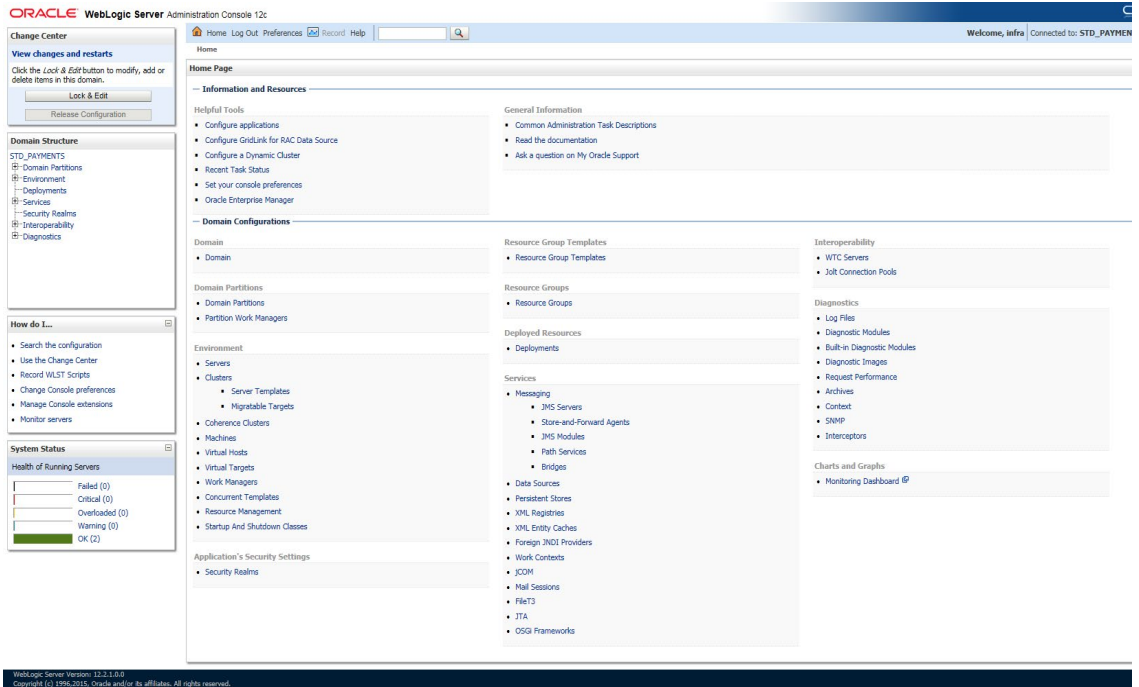
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser. Eg: `http://10.10.10.10:1001/console`

The following screen is displayed:

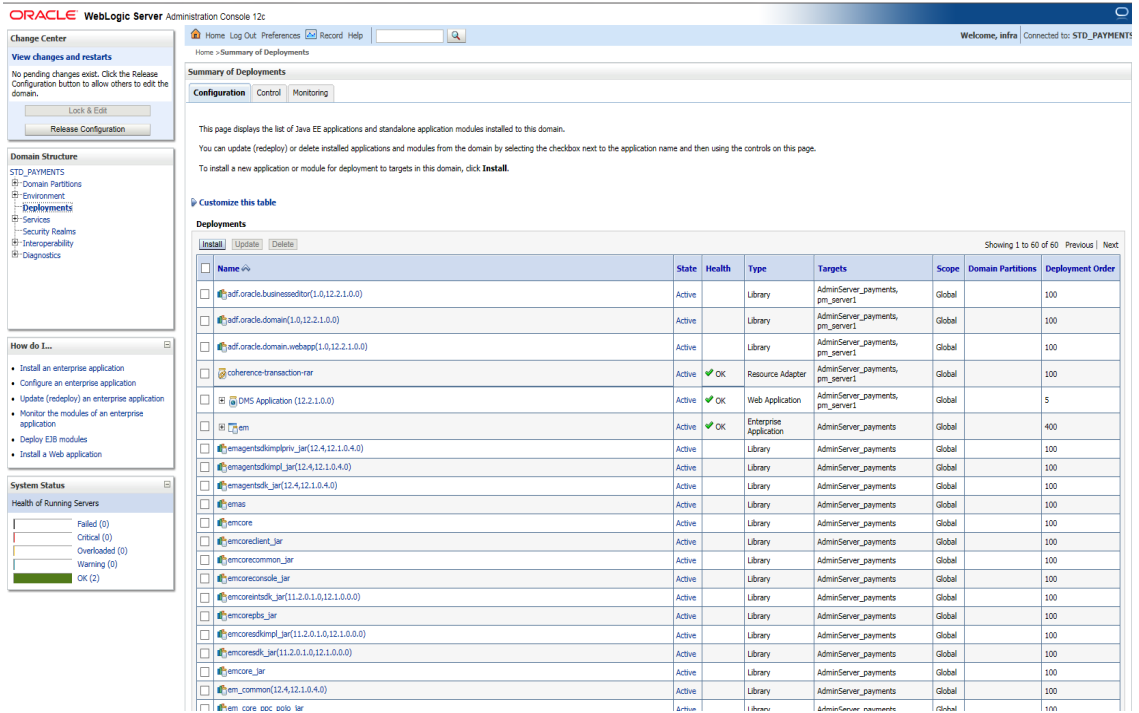


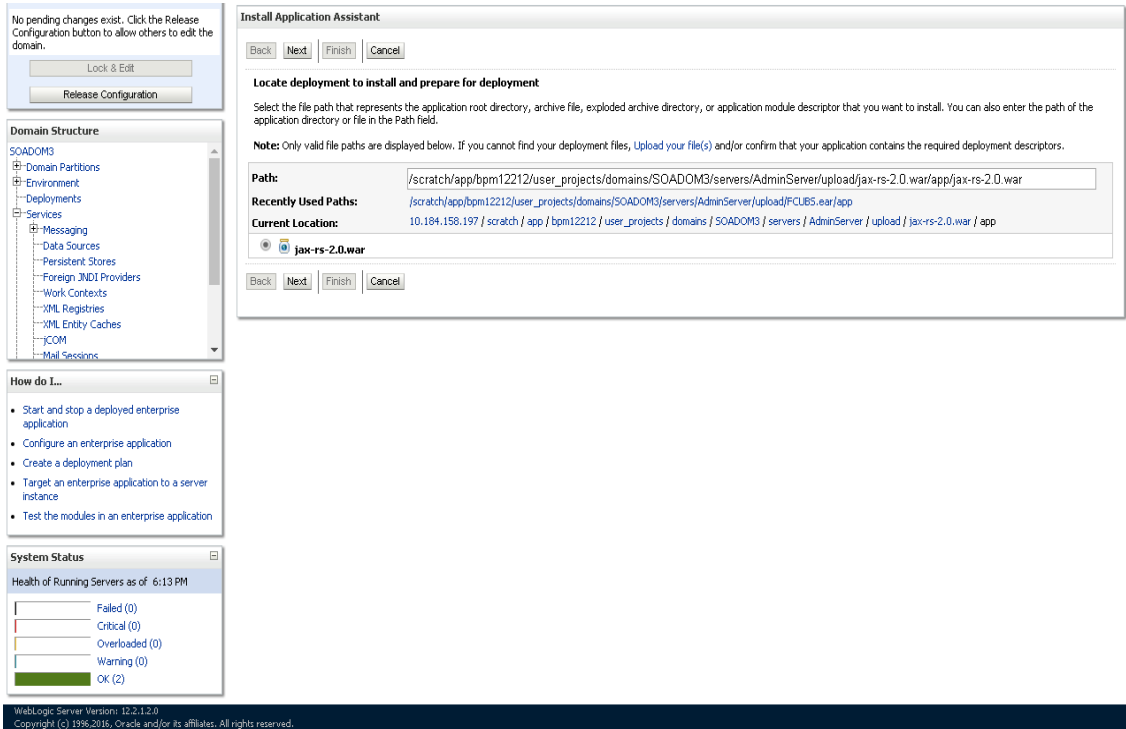
2. Specify the WebLogic administrator user name and password. Click 'Log In'.

The following screen is displayed:

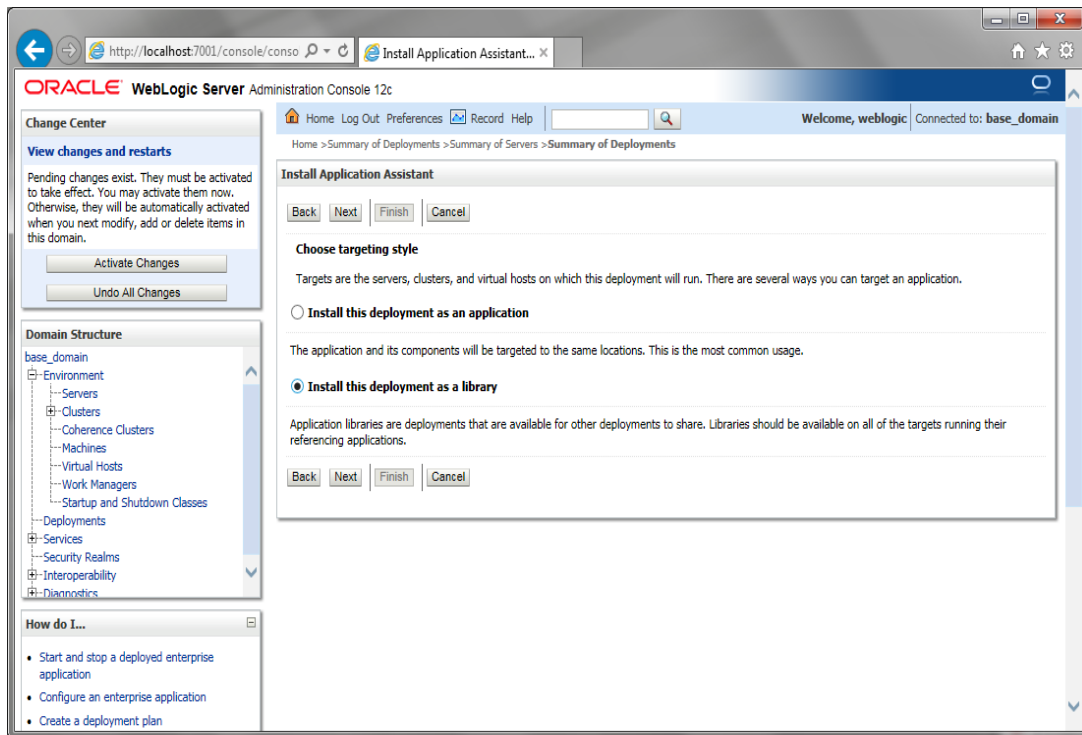


3. Click Install button.

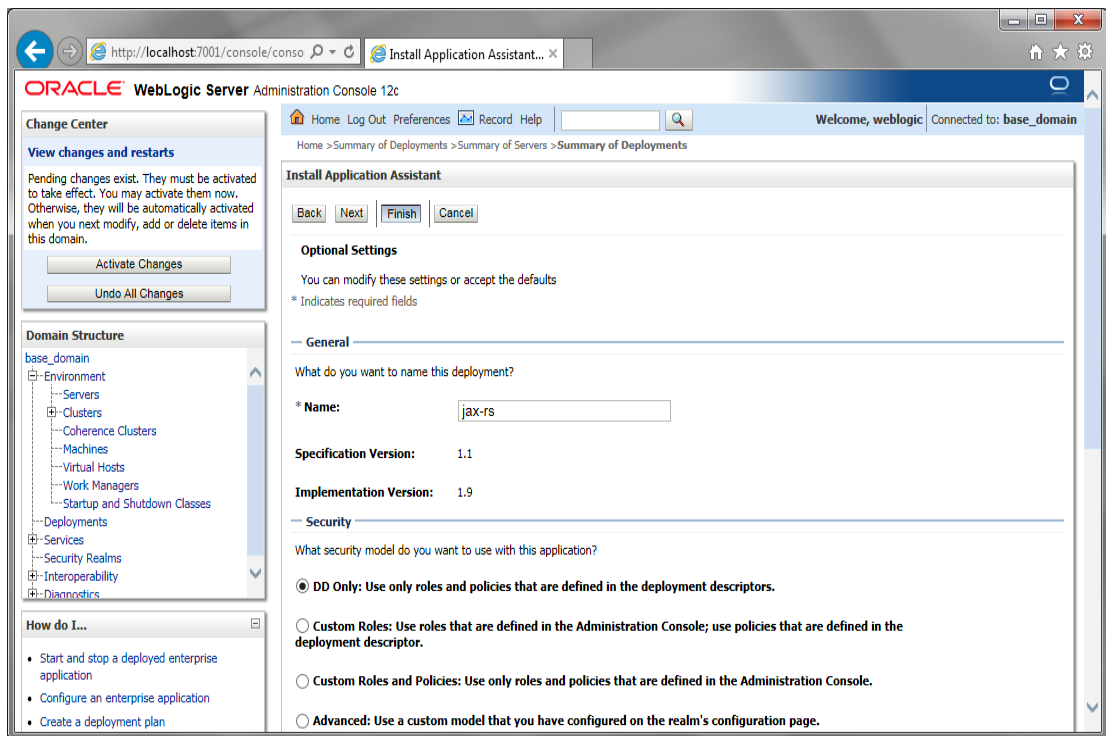




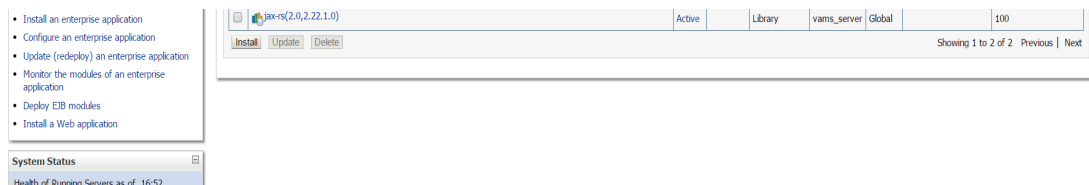
- Navigate and select jersey bundle under the path “*w\server\common\deployable-libraries\jax-rs-2.0.war*” and click next.



- Select “install this deployment as library”, select target server as managed server and click next.



6. 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.

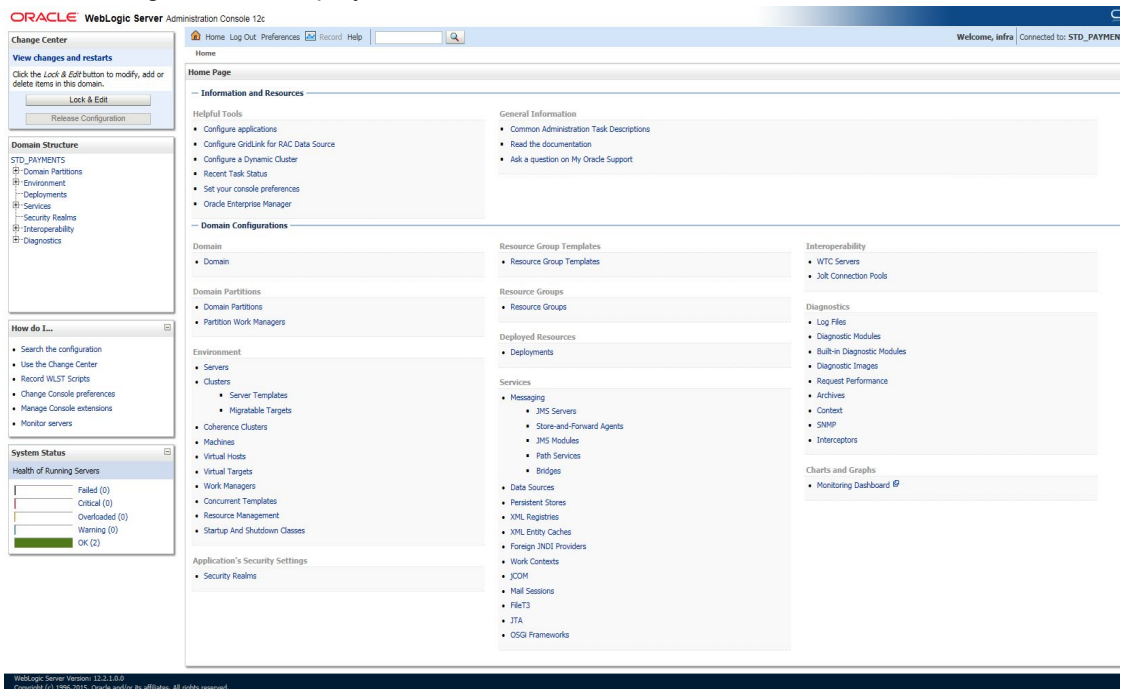
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser. Eg: <http://10.10.10.10:1001/console>

The following screen is displayed:



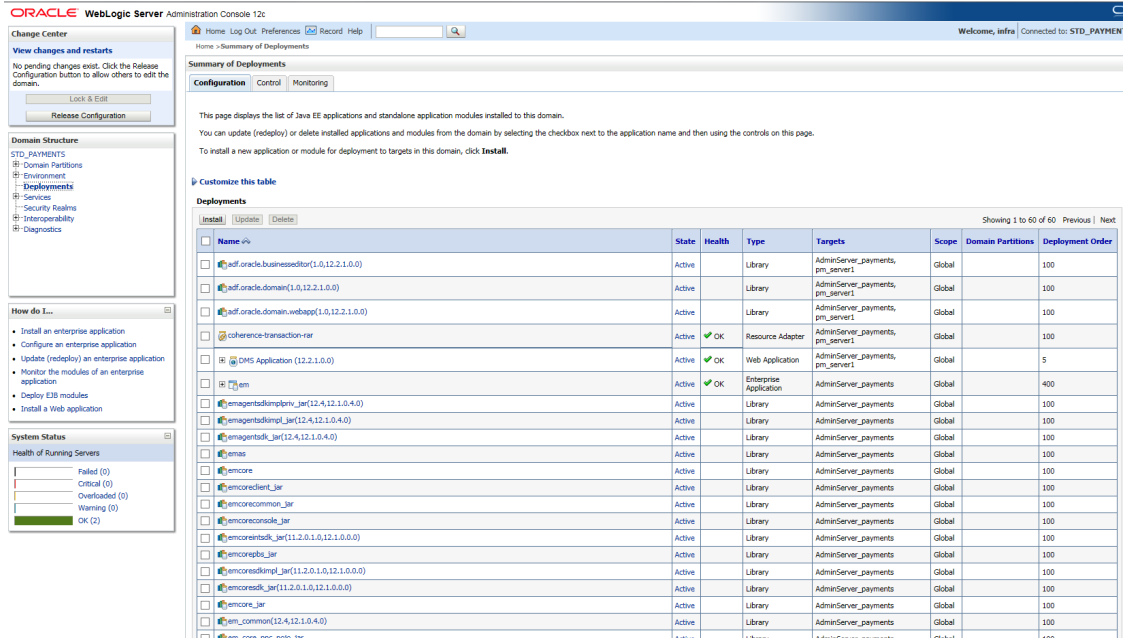
2. Specify the WebLogic administrator user name and password. Click 'Log In'.

The following screen is displayed:



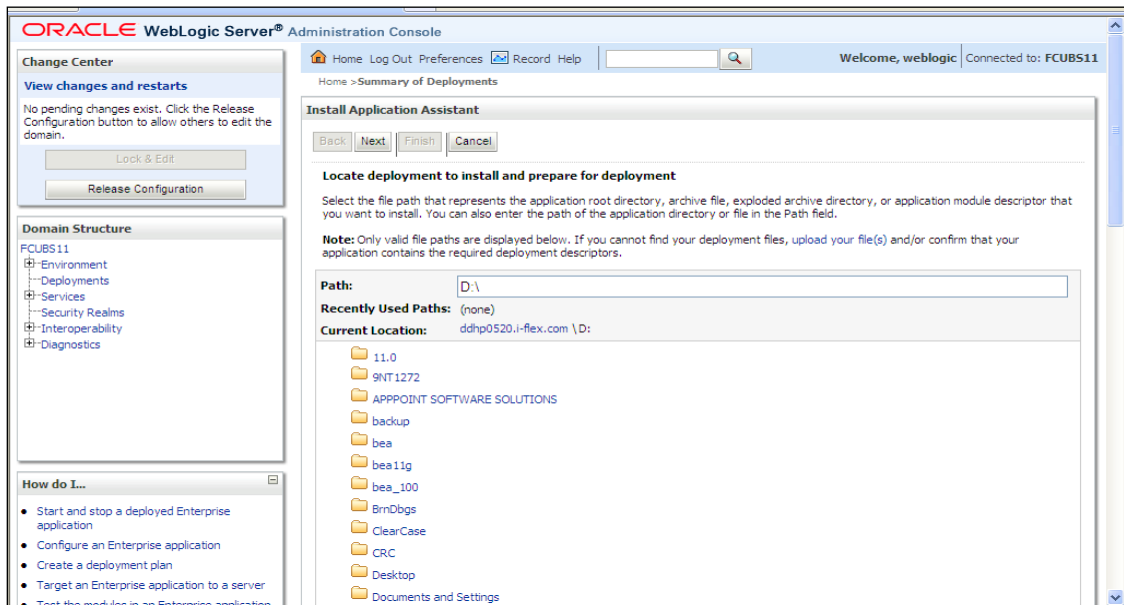
3. You need to deploy an EAR. For e.g. 'FCUBSApp.ear'. Go to 'Deployment'.

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



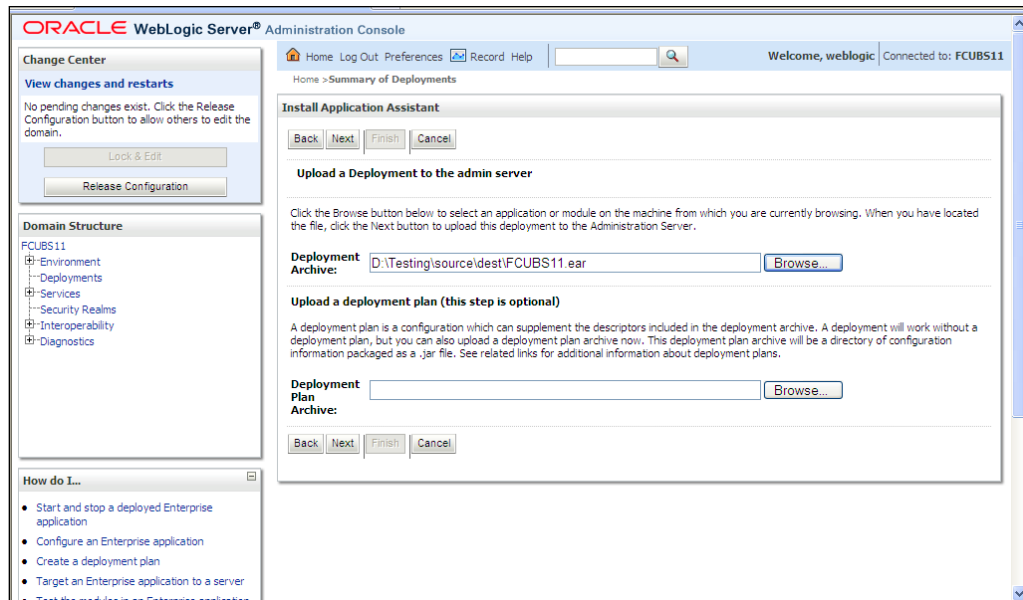
- Click 'Install' button.

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'.

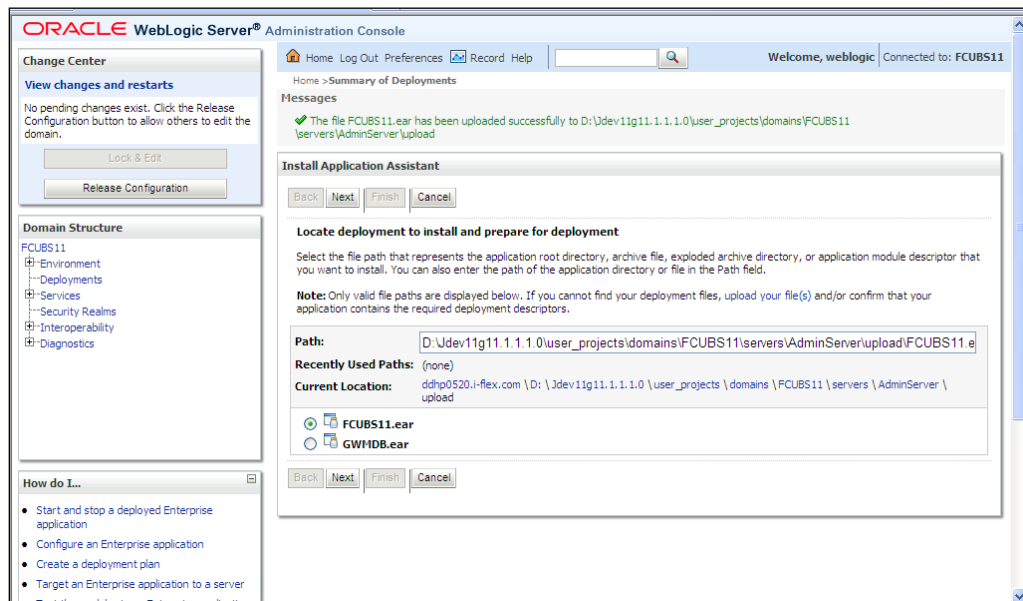
The following screen is displayed:



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

9. Click 'Next'.

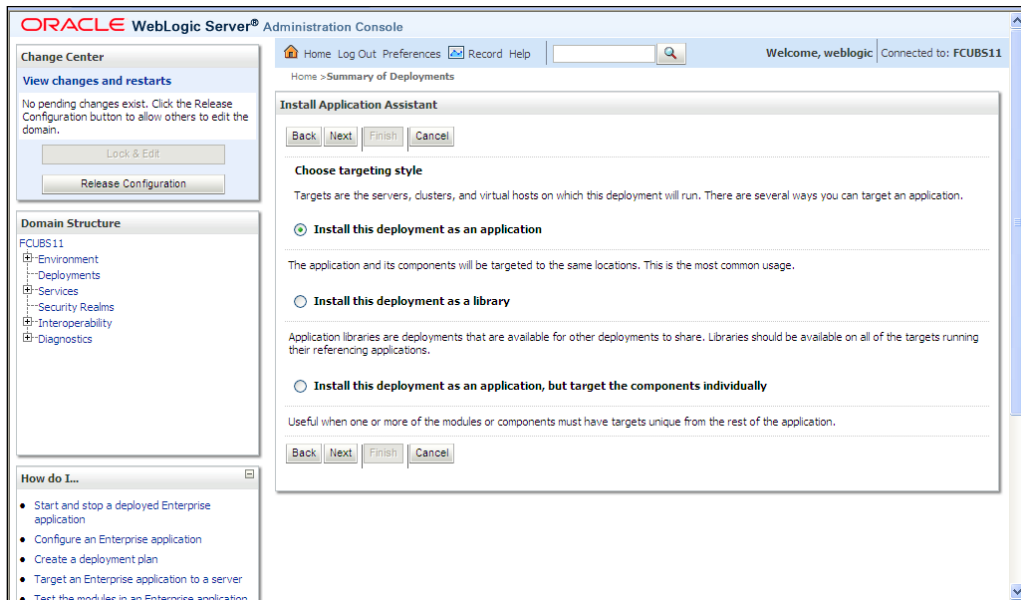
The following screen is displayed.



10. Select the application FCUBS EAR from the list.

11. Click 'Next'.

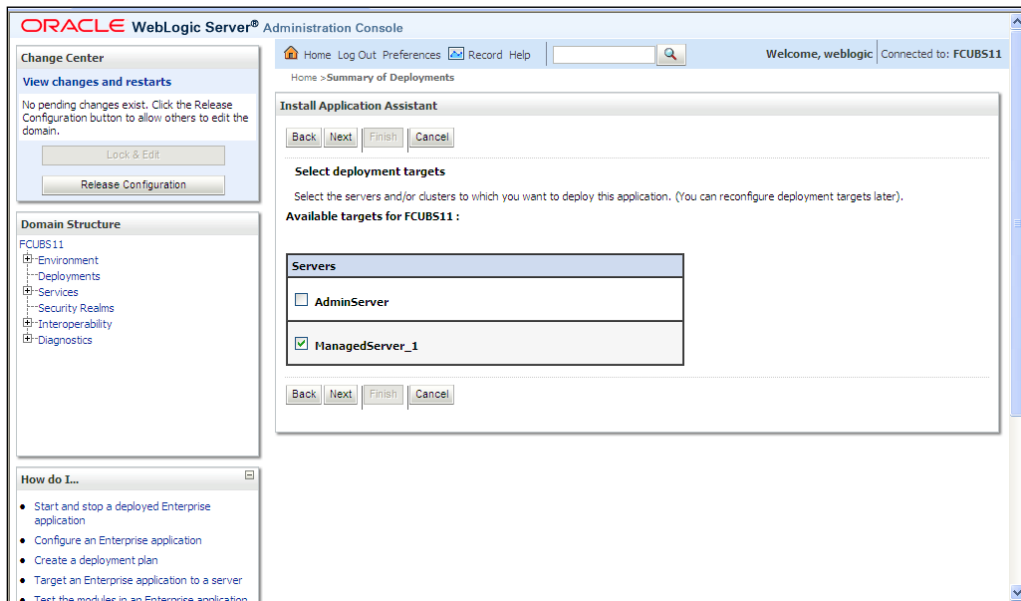
The following screen is displayed:



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

13. Click 'Next'.

The following screen is displayed

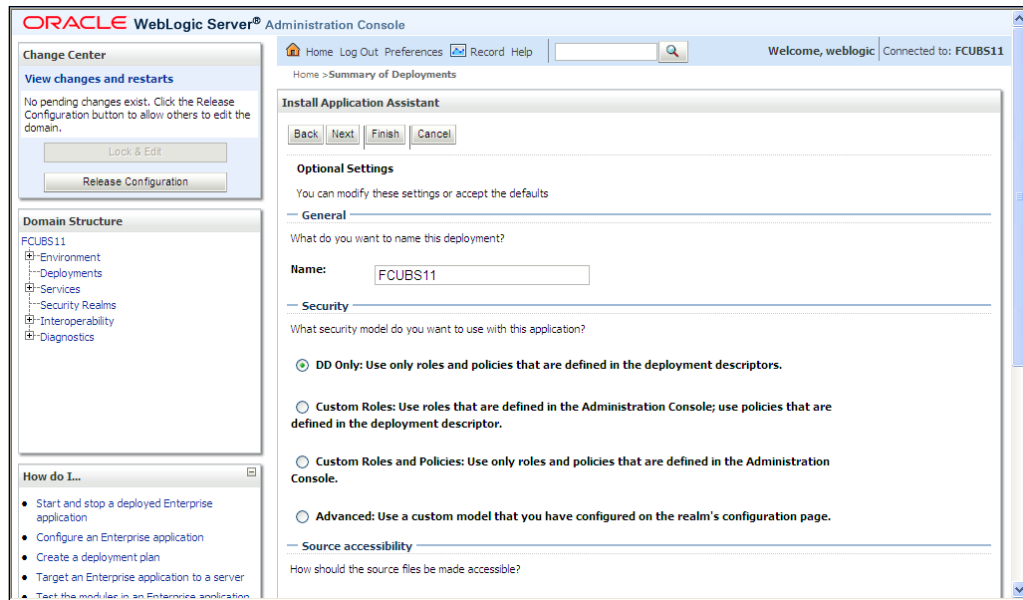


14. Select the target of the application. You can choose the server 'AdminServer' or 'Managed Server(s)'.

15. Click 'Next'.

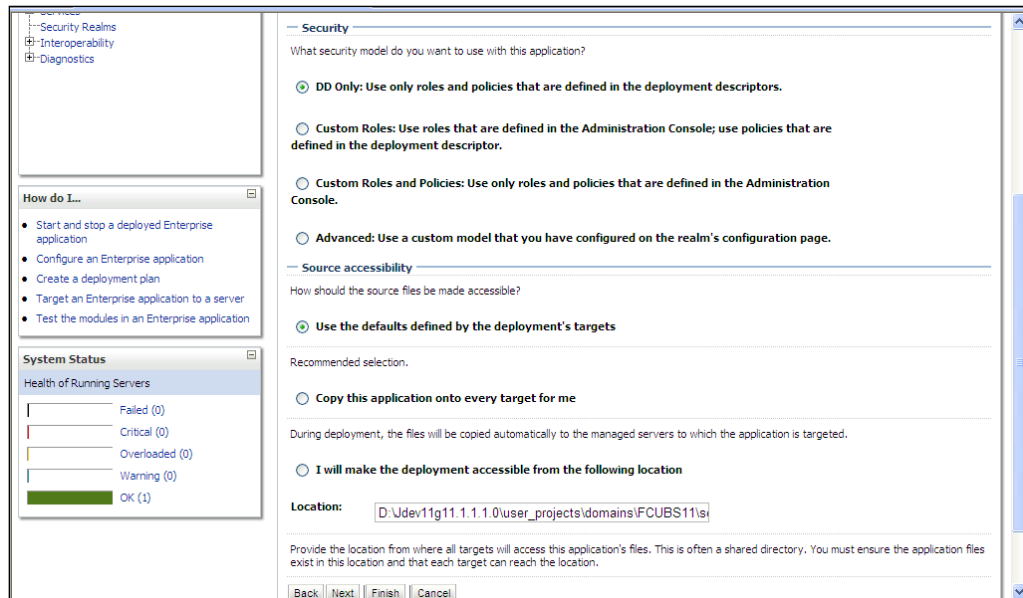
The following screen appears.





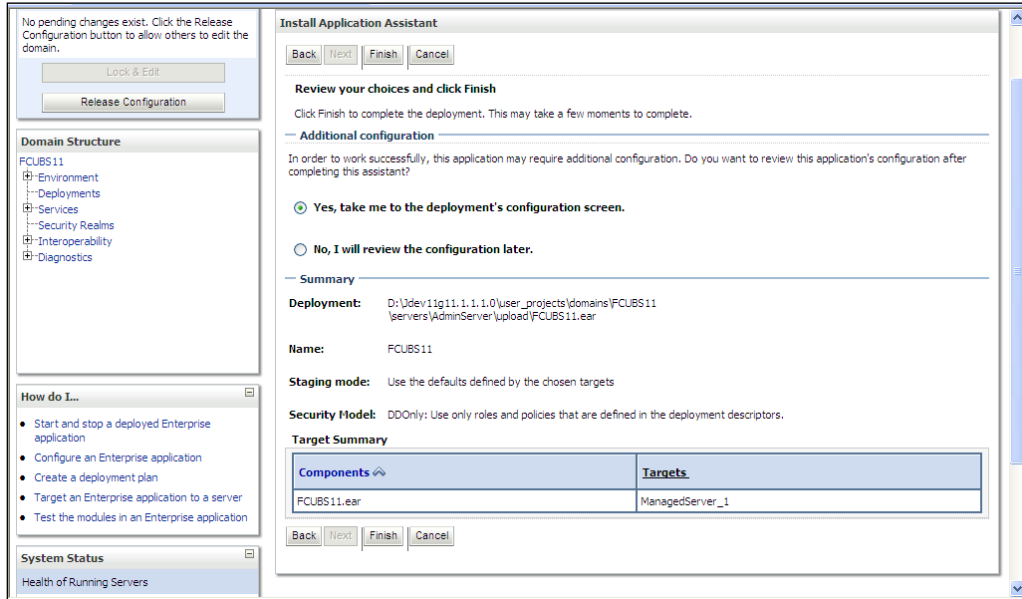
16. Check the deployment name.

The remaining portion of the screen is shown below:



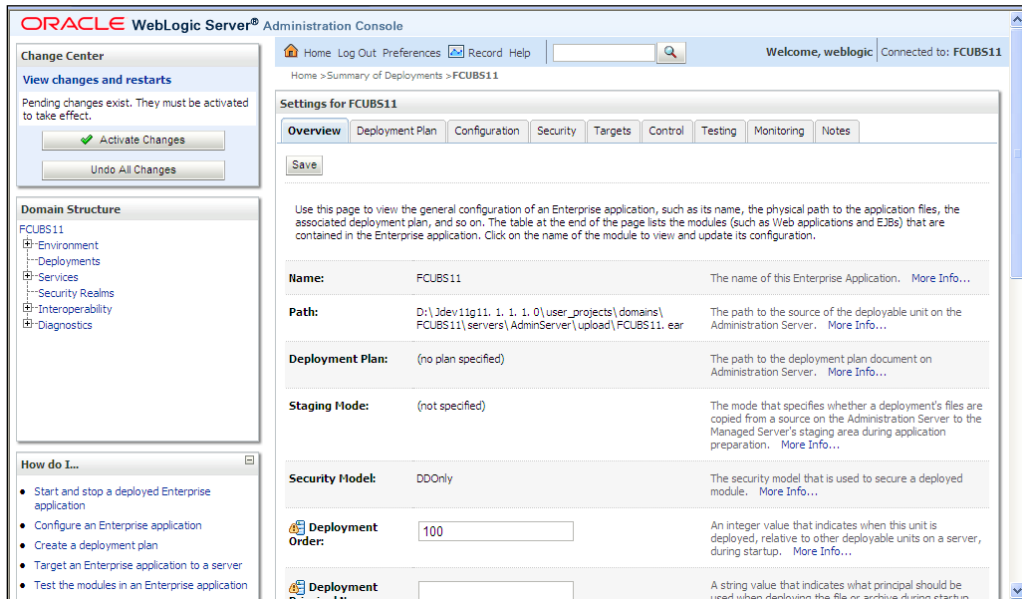
17. Check whether the deployment location is accessible or not.

The following screen is displayed.

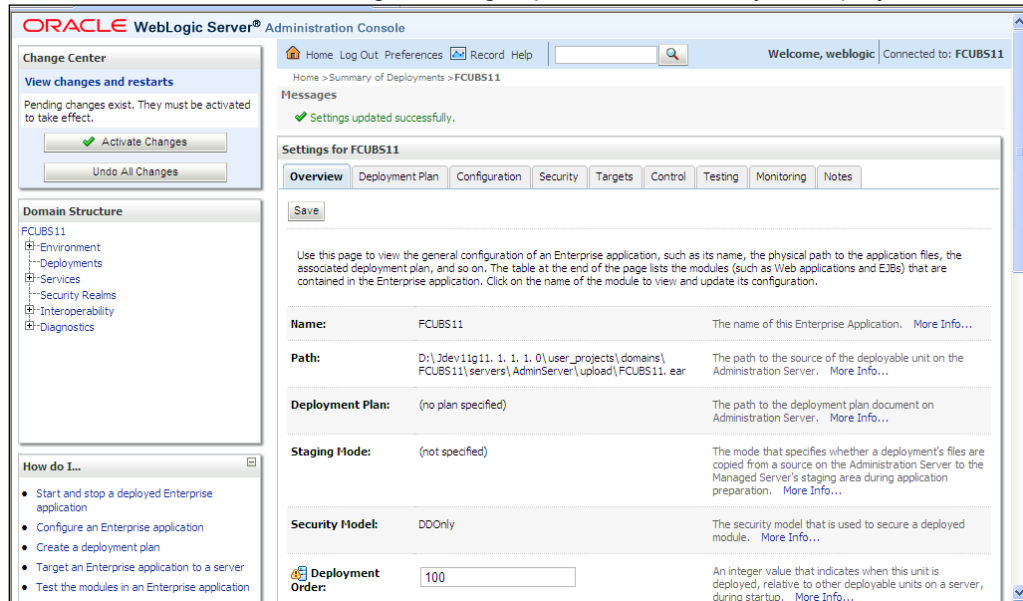


18. Click 'Finish' button. The following screen is displayed.

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

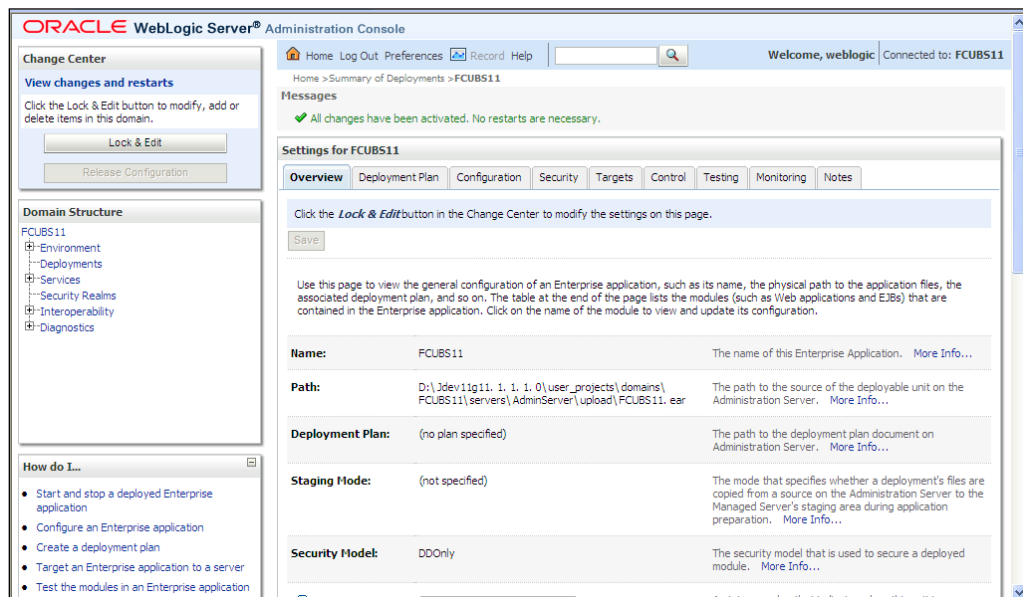


19. Click 'Save' button. The message 'Settings updated successfully' is displayed.

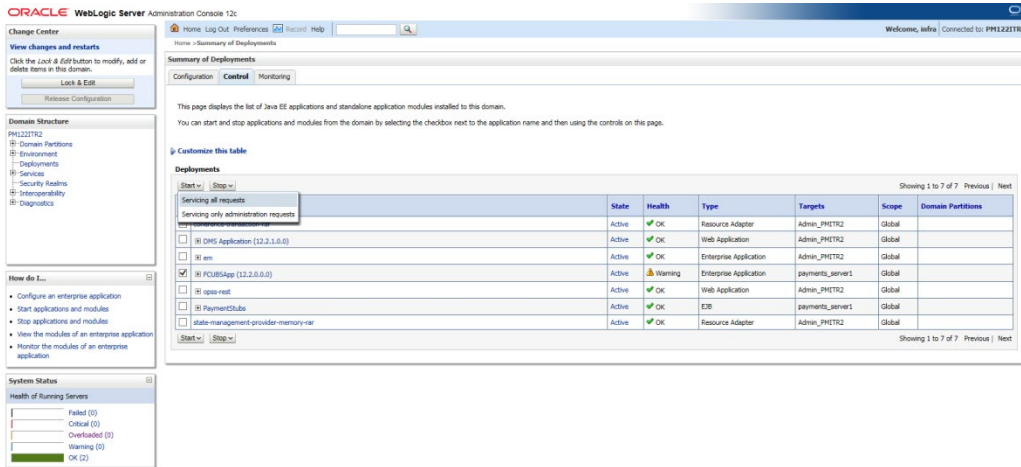


20. Click 'Activate Changes' button on the left pane. The message 'All the changes have been activated. No restarts are necessary' is displayed.

The screen is given below:

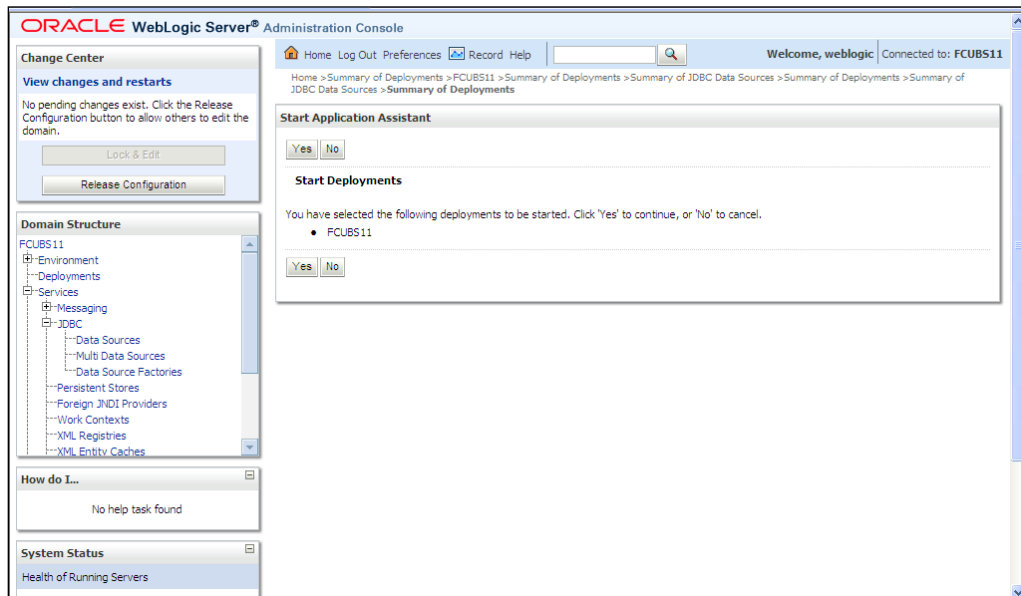


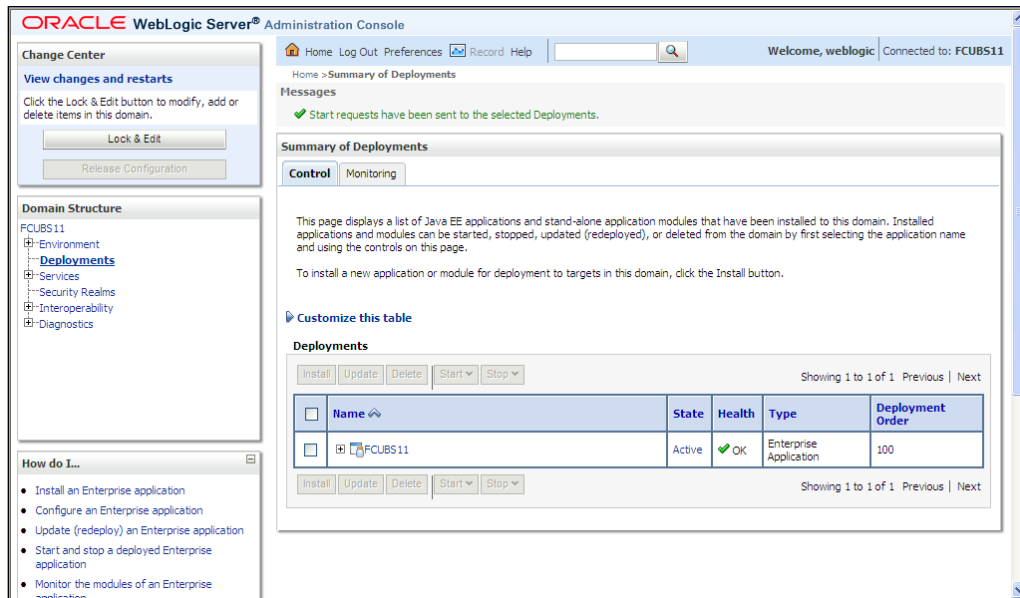
21. Click 'Deployment' on the left pane. Switch to Control tab. The following screen is displayed.



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

The following screen is displayed.





23. 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.

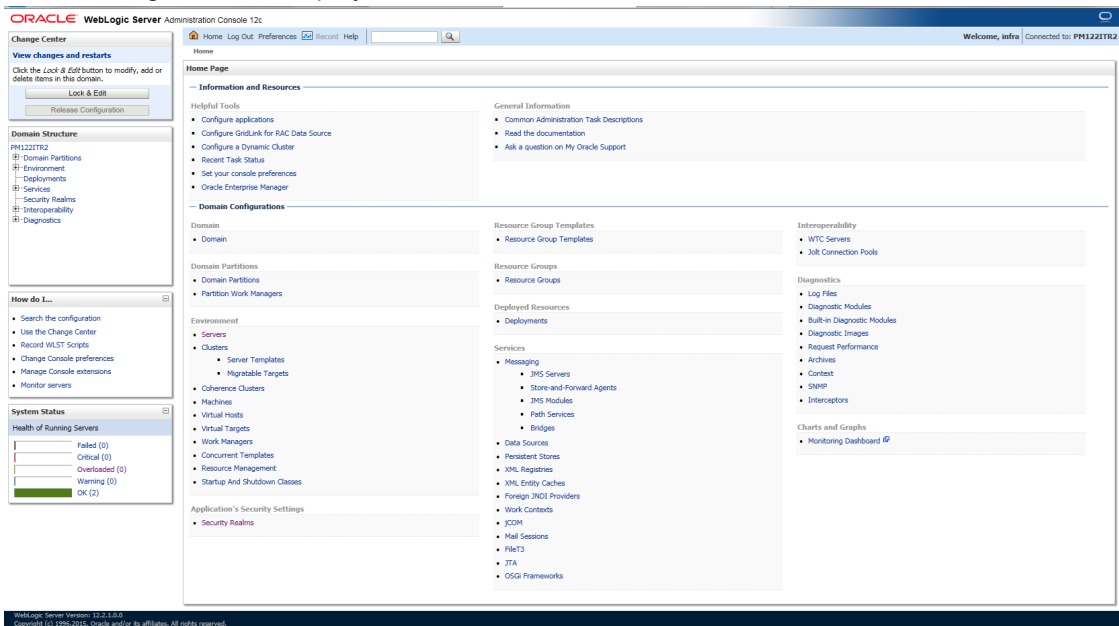
Eg: <http://10.10.10.10:1001/console>

The following screen is displayed:



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

The following screen is displayed:



- 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.

The screenshot shows the Oracle WebLogic Server Administration Console interface. On the left, the 'Change Center' panel has the 'Lock & Edit' button highlighted. The main area displays the 'Summary of Deployments' page, which includes a table of installed applications and modules. The table has columns for Name, State, Health, Type, Targets, Scope, Domain Partitions, and Deployment Order. The table lists various applications such as 'adf.oracle.businesseditor', 'adf.oracle.domain', 'coherence-transaction-rar', 'DMS Application', and several 'em' (Enterprise Manager) components.

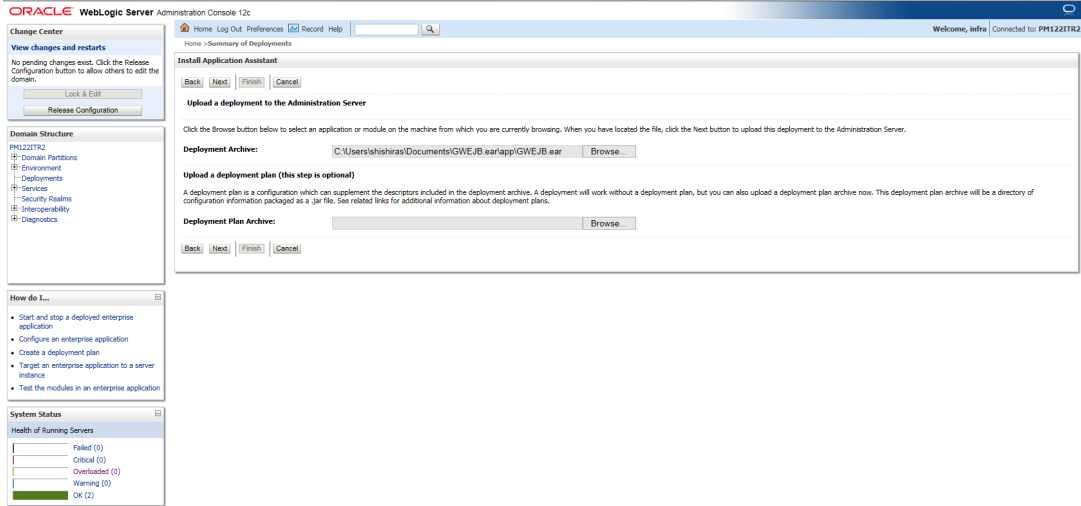
Name	State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
adf.oracle.businesseditor(1.0,12.2.1.0.0)	Active		Library	AdminServer_payments, pm_server1	Global		100
adf.oracle.domain(1.0,12.2.1.0.0)	Active		Library	AdminServer_payments, pm_server1	Global		100
adf.oracle.domain.webapp(1.0,12.2.1.0.0)	Active		Library	AdminServer_payments, pm_server1	Global		100
coherence-transaction-rar	Active	OK	Resource Adaptor	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
emagentbdkimplrvr_jar(12.4,12.1.0.4.0)	Active		Library	AdminServer_payments	Global		100
emagentbdkimpl_jar(12.4,12.1.0.4.0)	Active		Library	AdminServer_payments	Global		100
emagentbdk_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
emcoreclient_jar	Active		Library	AdminServer_payments	Global		100
emcorecommon_jar	Active		Library	AdminServer_payments	Global		100
emcoreconsole_jar	Active		Library	AdminServer_payments	Global		100
emcorestd_jar(11.2.0.1.0,12.1.0.0.0)	Active		Library	AdminServer_payments	Global		100
emcorestd_jar	Active		Library	AdminServer_payments	Global		100
emcorestdimpl_jar(11.2.0.1.0,12.1.0.0.0)	Active		Library	AdminServer_payments	Global		100
emcorestdimpl_jar	Active		Library	AdminServer_payments	Global		100
emcorestd_jar(11.2.0.1.0,12.1.0.0.0)	Active		Library	AdminServer_payments	Global		100
emcore_jar	Active		Library	AdminServer_payments	Global		100
em_core_jar	Active		Library	AdminServer_payments	Global		100
em_core_common(12.4,12.1.0.4.0)	Active		Library	AdminServer_payments	Global		100
em_core_jar	Active		Library	AdminServer_payments	Global		100

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

The screenshot shows the 'Install Application Assistant' dialog in the Oracle WebLogic Server Administration Console. The dialog has a 'Path' field set to 'D:\'. Below the path field, there is a file explorer view showing the contents of the D:\ drive, including folders like '11.0', '9NT 1272', 'APPOINT SOFTWARE SOLUTIONS', 'backup', 'bea', 'bea11g', 'bea\_100', 'BrdDbgs', 'ClearCase', 'CRC', 'Desktop', and 'Documents and Settings'. The 'Current Location' is set to 'ddhp0520.i-flex.com | D:'.

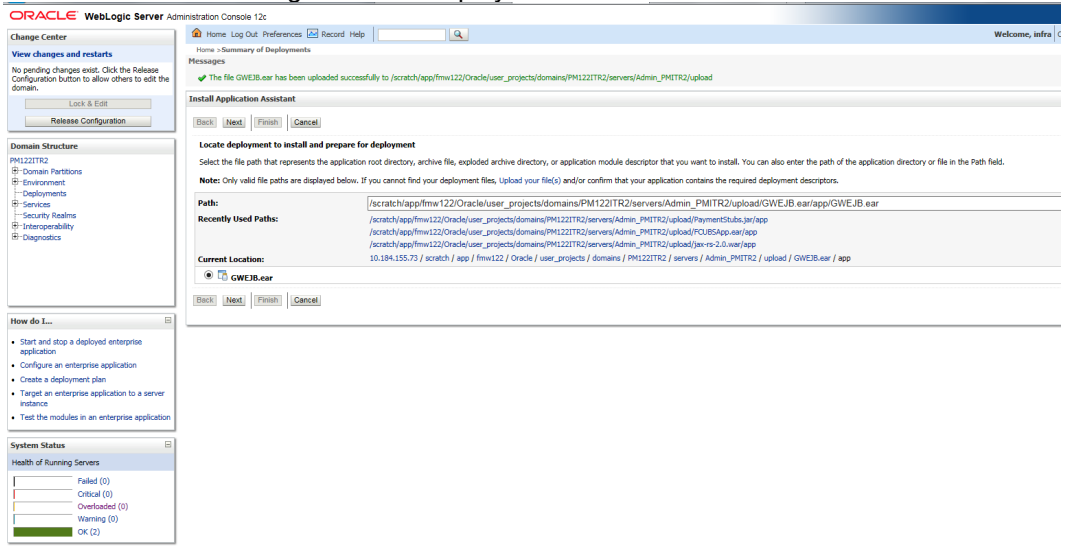
- In order to specify the path/location of the enterprise archive file, click the link 'upload your file(s)'.

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



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

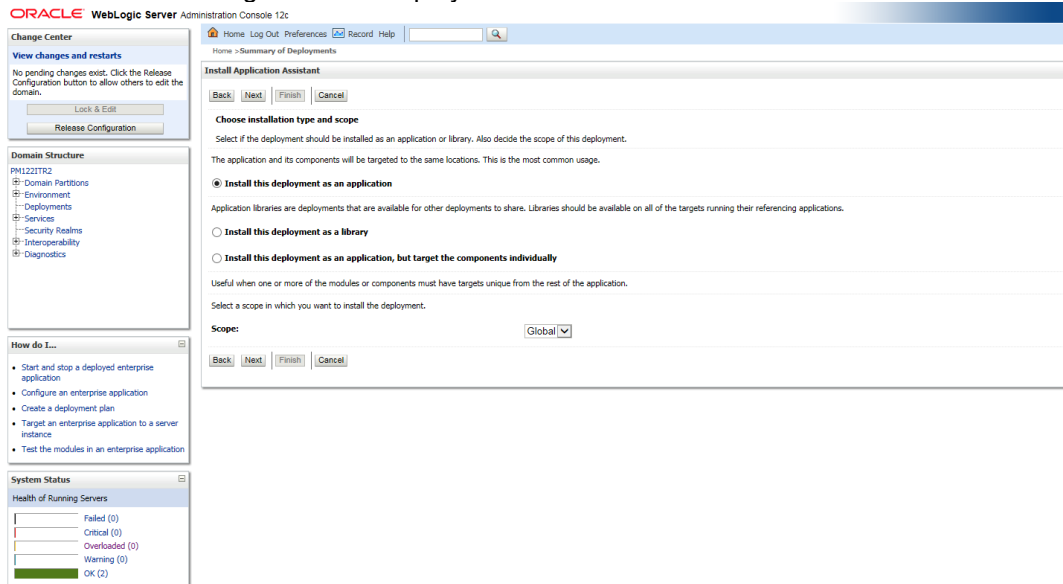
9. Click 'Next'. The following screen is displayed.



10. Select the application from the list.



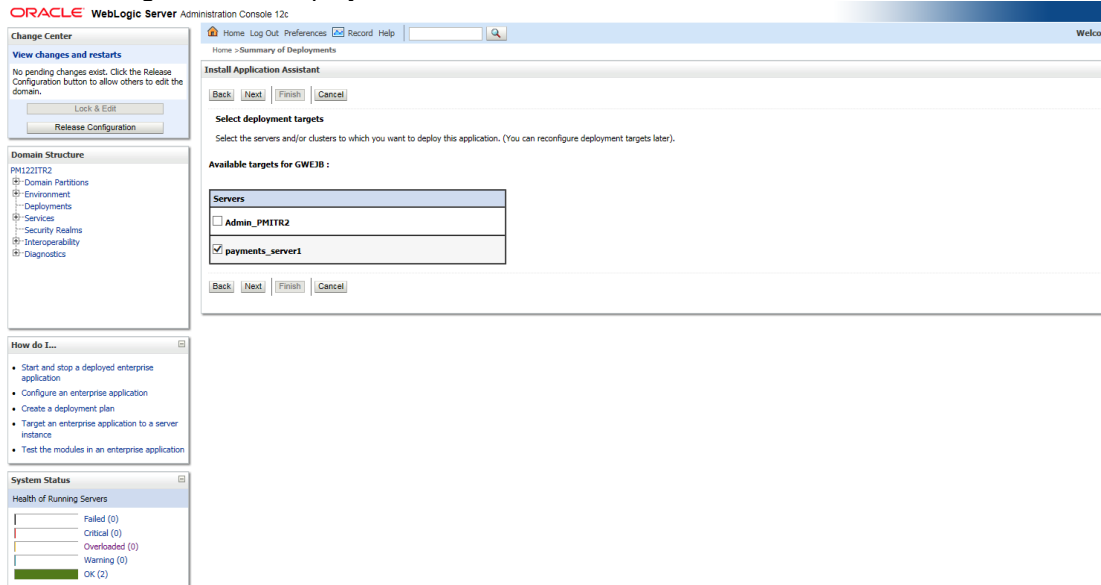
11. Click 'Next'. Following screen is displayed:



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

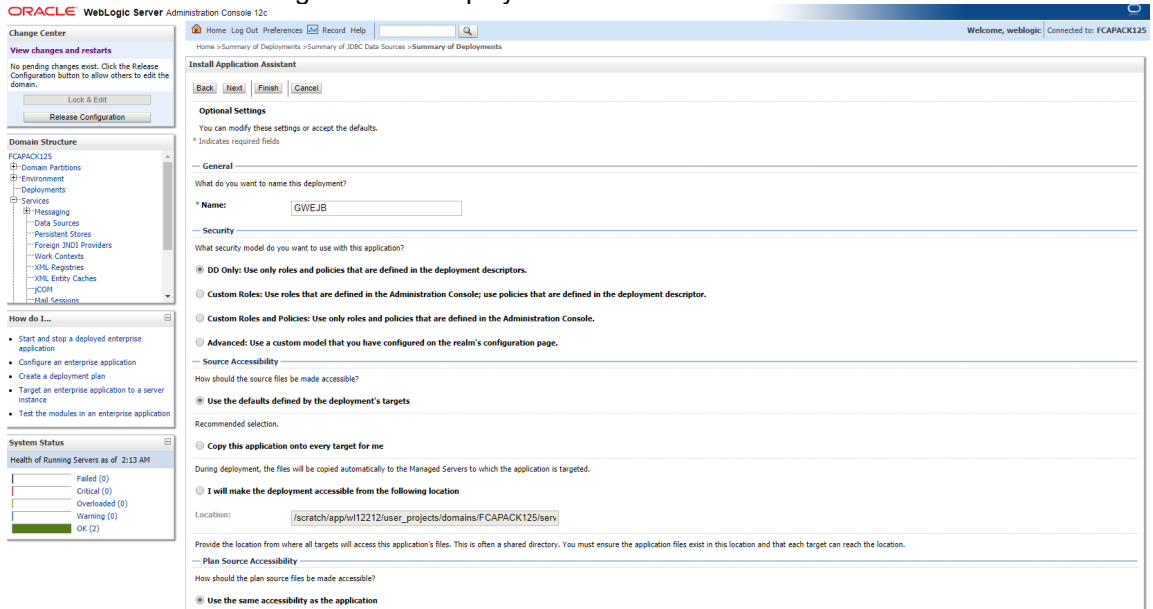
13. Click 'Next'.

The following screen is displayed



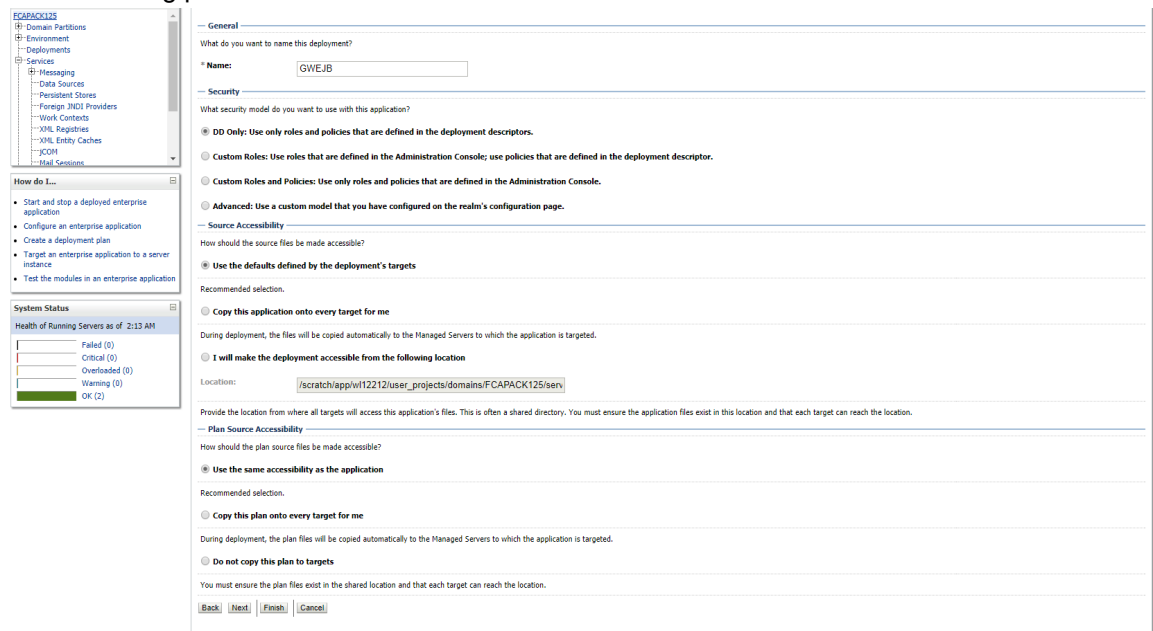
14. Select the target of the application. You can choose the server 'AdminServer' or 'Managed Server(s)'.

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



16. Check the deployment name.

The remaining portion of the screen is shown below:



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

The screenshot shows the Oracle WebLogic Server Administration Console. The main area is titled "Review your choices and click Finish". It contains the following information:

- Additional Configuration:** A radio button is selected for "Yes, take me to the deployment's configuration screen." The other option is "No, I will review the configuration later."
- Summary:**
  - Deployment:** /scratch/app/fmw122/Oracle/user\_projects/domains/PM1221TR2/servers/Admin\_PM12R2/upload/GWEJB.ear/app/GWEJB.ear
  - Name:** GWEJB
  - Staging Mode:** Use the defaults defined by the chosen targets
  - Plan Staging Mode:** Use the same accessibility as the application
  - Security Model:** DDOOnly: Use only roles and policies that are defined in the deployment descriptors.
  - Scope:** Global
- Targets Summary:** A table with two columns: Components and Targets.
 

Components	Targets
GWEJB.ear	payments_server1

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

The screenshot shows the Oracle WebLogic Server Administration Console with the "Settings for GWEJB(12.2.0.0.0)" page. The page includes a navigation menu and a main content area with the following configuration details:

- Name:** GWEJB
- Scope:** Global
- Archive Version:** 12.2.0.0.0
- Path:** /scratch/app/fmw122/Oracle/user\_projects/domains/PM1221TR2/servers/Admin\_PM12R2/upload/GWEJB.ear/app/GWEJB.ear
- Deployment Plan:** (no plan specified)
- Staging Mode:** (not specified)
- Plan Staging Mode:** (not specified)
- Security Model:** DDOOnly
- Deployment Order:** 100
- Deployment Principal Name:** (empty field)

At the bottom, the "Modules and Components" section is visible, showing a list of components including EJBs, PCMainProcEJB, PCSrvRouterEJB, and GWEJB.

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

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area displays the 'Settings for GWEJB(12.2.0.0.0)' page. A message at the top states 'Settings updated successfully'. The left-hand navigation pane is open to the 'Change Center' section, where the 'Activate Changes' button is highlighted. Below this, the 'Domain Structure' and 'System Status' sections are visible. The 'System Status' section shows the 'Health of Running Servers' with a green bar indicating 'OK (2)'. The main settings table includes fields for Name, Scope, Archive Version, Path, Deployment Plan, Staging Mode, Plan Staging Mode, Security Model, Deployment Order, and Deployment Principal Name.

20. 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. The main content area displays the 'Settings for GWEJB(12.2.0.0.0)' page. A message at the top states 'All changes have been activated. No restarts are necessary'. The left-hand navigation pane is open to the 'Change Center' section, where the 'Lock & Edit' button is highlighted. Below this, the 'Domain Structure' and 'System Status' sections are visible. The 'System Status' section shows the 'Health of Running Servers' with a green bar indicating 'OK (2)'. The main settings table includes fields for Name, Scope, Archive Version, Path, Deployment Plan, Staging Mode, Plan Staging Mode, Security Model, Deployment Order, and Deployment Principal Name.

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

**Summary of Deployments**

This page displays the list of Java EE applications and standalone application modules installed to this 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.

**Customize this table**

**Deployments**

Start	Stop	State	Health	Type	Targets	Scope	Domain Partition
[Start] [Stop]		Active	OK	Resource Adapter	Admin_PMTTR2	Global	
[Start] [Stop]		Active	OK	Web Application	Admin_PMTTR2	Global	
<input type="checkbox"/>		Active	OK	Enterprise Application	Admin_PMTTR2	Global	
<input type="checkbox"/>		Active	Warning	Enterprise Application	payments_server1	Global	
<input checked="" type="checkbox"/>		Prepared	OK	Enterprise Application	payments_server1	Global	
<input type="checkbox"/>		Active	OK	Web Application	Admin_PMTTR2	Global	
<input type="checkbox"/>		Active	OK	EJB	payments_server1	Global	
<input type="checkbox"/>		Active	OK	Resource Adapter	Admin_PMTTR2	Global	

Showing 1 to 8 of 8 Prev

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

The following screen is displayed.

**Start Application Assistant**

Yes No

**Start Deployments**

You have selected the following deployments to be started. Click 'Yes' to continue, or 'No' to cancel.

- GWEJB(12.2.0.0.0)

Yes No

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

ORACLE WebLogic Server Administration Console 12c

Home > Summary of Deployments > GWESB(12.2.0.0.0) > Summary of Deployments

Messages  
 Start requests have been sent to the selected deployments.

Summary of Deployments  
 Configuration Control Monitoring

This page displays the list of Java EE applications and standalone application modules installed to this 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.

Customize this table

Deployments  
 Start Stop Showing 1 to 8 of 8 Previous Next

Name	State	Health	Type	Targets	Scope	Domain Partitions
<input type="checkbox"/> coherence-transaction-rar	Active	OK	Resource Adapter	Admin_PMTB2	Global	
<input type="checkbox"/> DMS Application (12.2.1.0.0)	Active	OK	Web Application	Admin_PMTB2	Global	
<input type="checkbox"/> em	Active	OK	Enterprise Application	Admin_PMTB2	Global	
<input type="checkbox"/> FCLBApp (12.2.0.0.0)	Active	Warning	Enterprise Application	payments_server1	Global	
<input type="checkbox"/> GWESB (12.2.0.0.0)	Active	OK	Enterprise Application	payments_server1	Global	
<input type="checkbox"/> app-vst	Active	OK	Web Application	Admin_PMTB2	Global	
<input type="checkbox"/> PaymentClub	Active	OK	EJB	payments_server1	Global	
<input type="checkbox"/> state-management-provider-memory-rar	Active	OK	Resource Adapter	Admin_PMTB2	Global	

Start Stop Showing 1 to 8 of 8 Previous Next

WebLogic Server Version: 12.2.1.0.0  
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This completes the deployment process.

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



Deploying Oracle FLEXCUBE Application on WebLogic  
[May] [2022]  
Version 14.6.0.0.0

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