

Deploying Oracle FLEXCUBE Application on WebLogic  
Oracle Banking Enterprise Limits and Collateral Management

Release 14.5.5.0.0

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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.

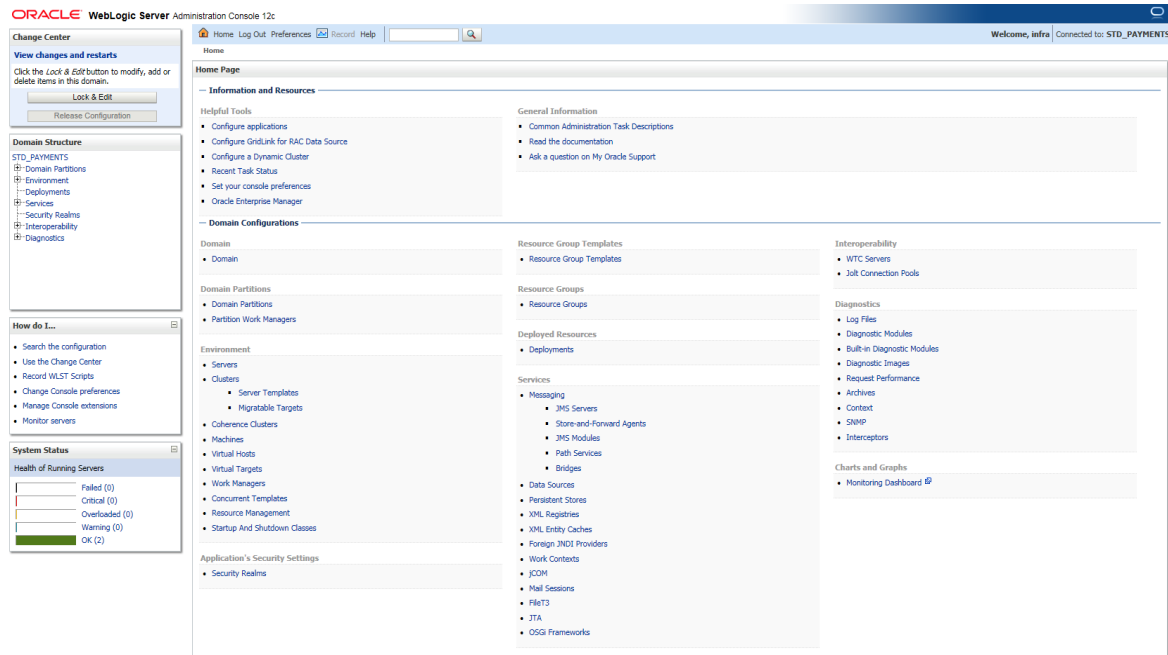
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser.

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

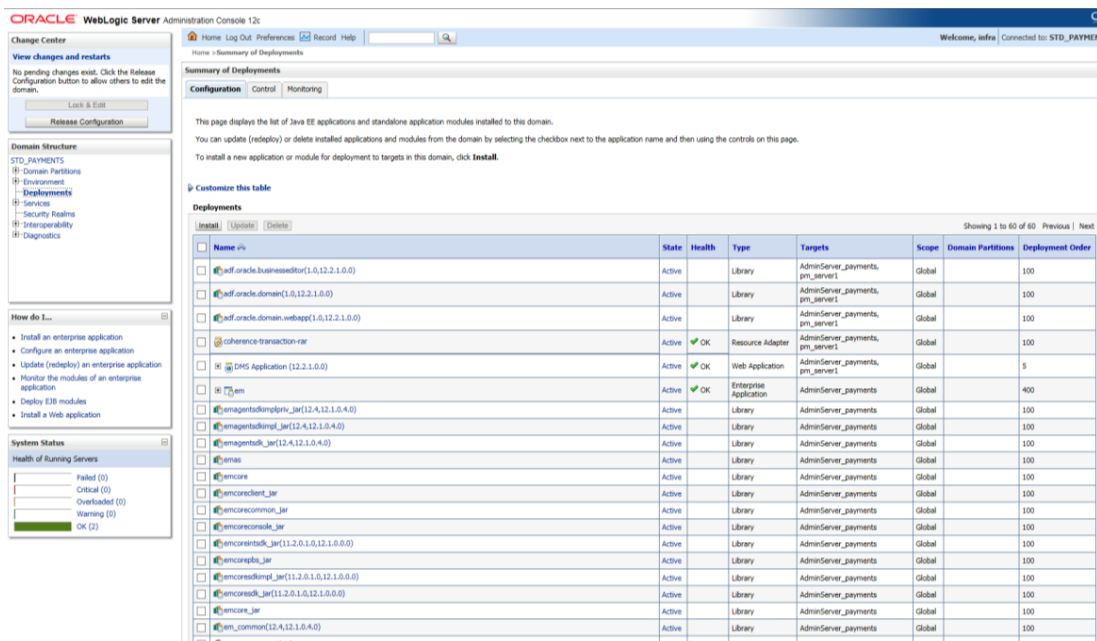
The following screen is displayed:



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

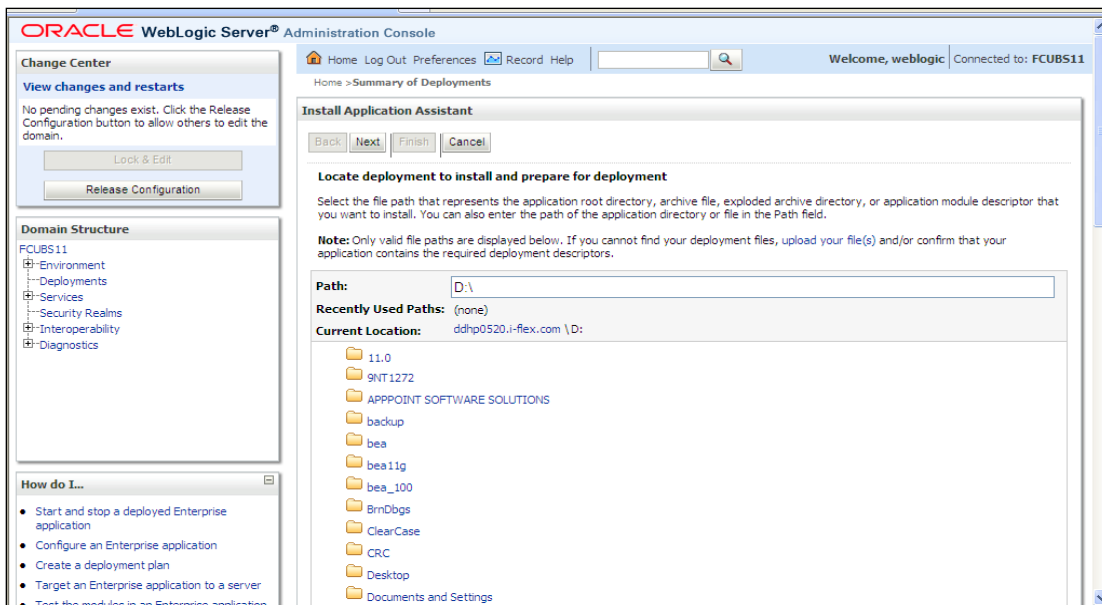


- You need to deploy an Integration adapter EAR. For e.g. 'OBCLExtAdapter.ear or ExtAdapter.ear'. Go to 'Deployment'.
- Click 'Lock & Edit' button to enable the buttons. This action enables the buttons.



5. Click 'Install' button.

The following screen is displayed:

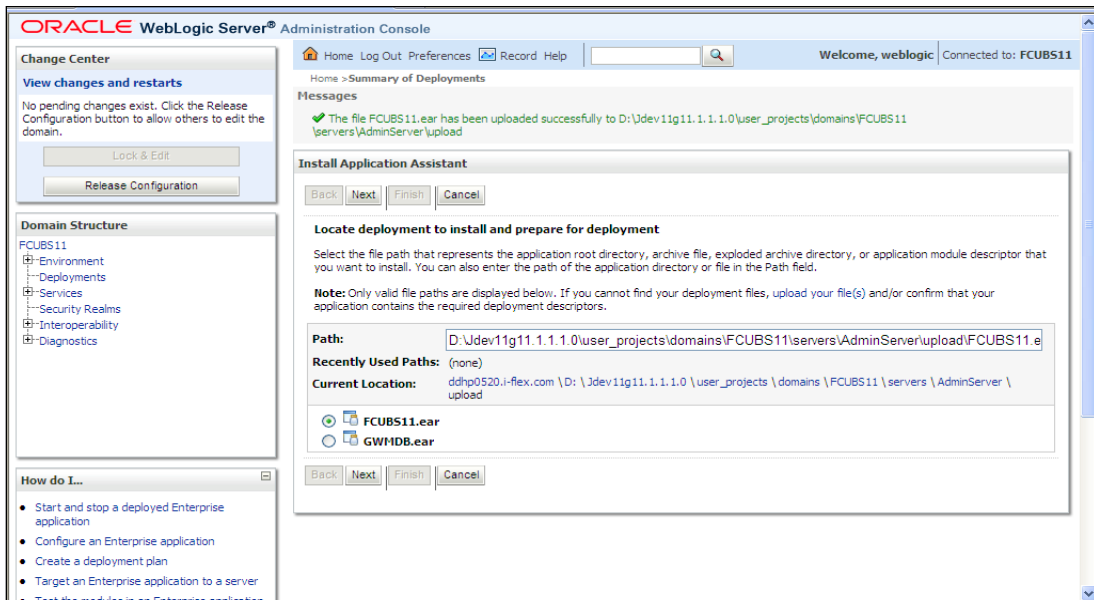


6. In order to specify the path/location of the enterprise archive file, click the link 'upload your file(s)'.

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

8. Click 'Next'.

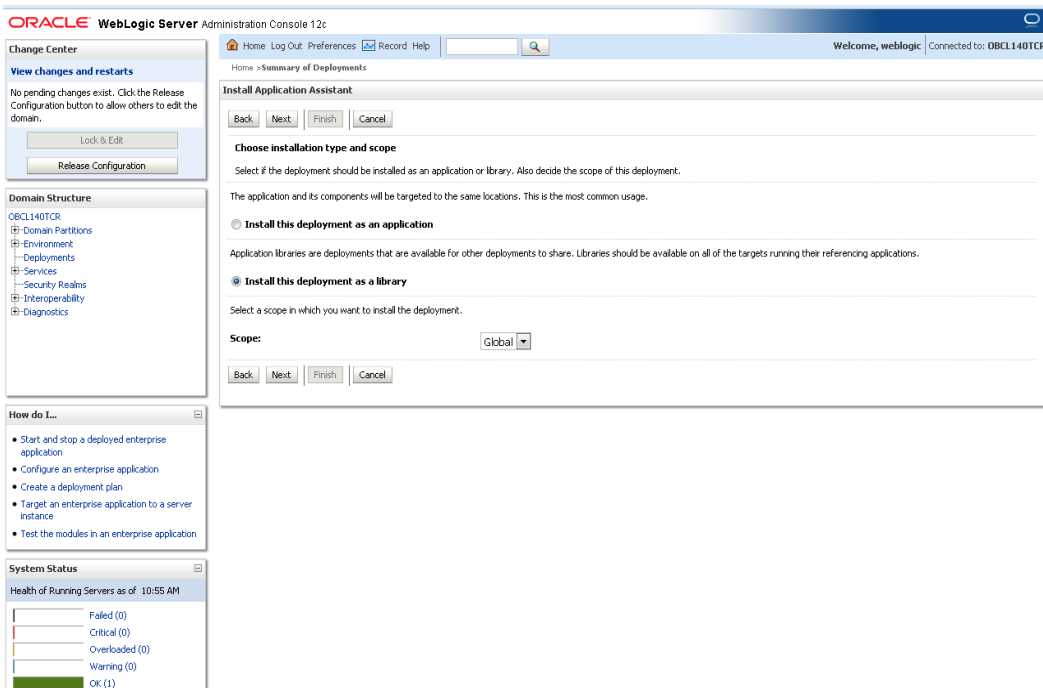
The following screen is displayed.



9. Select the application Adapter EAR from the list.

10. Click 'Next'.

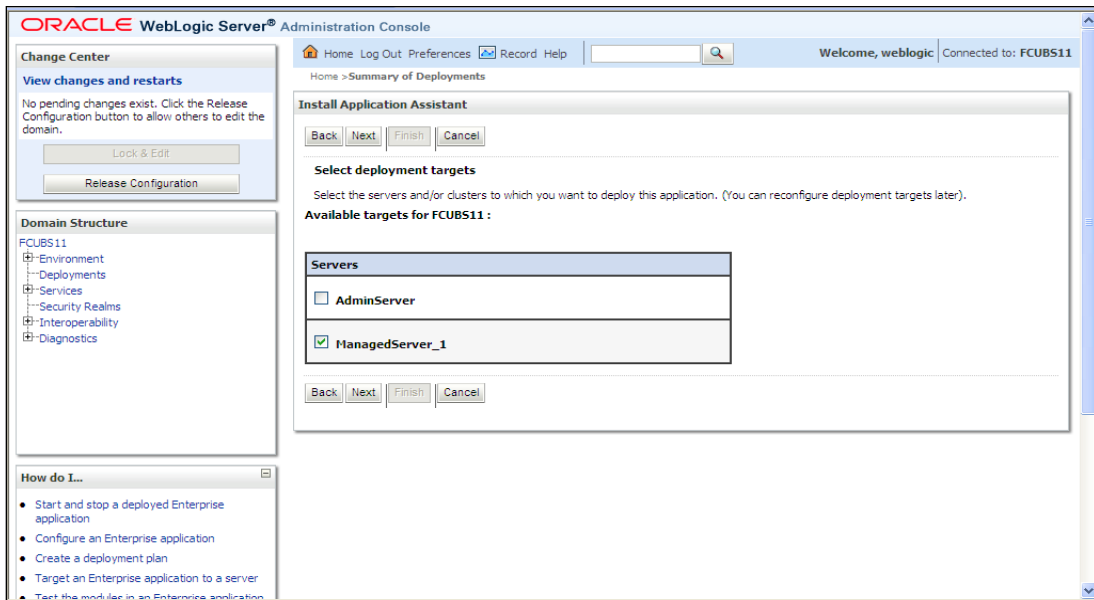
The following screen is displayed.



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

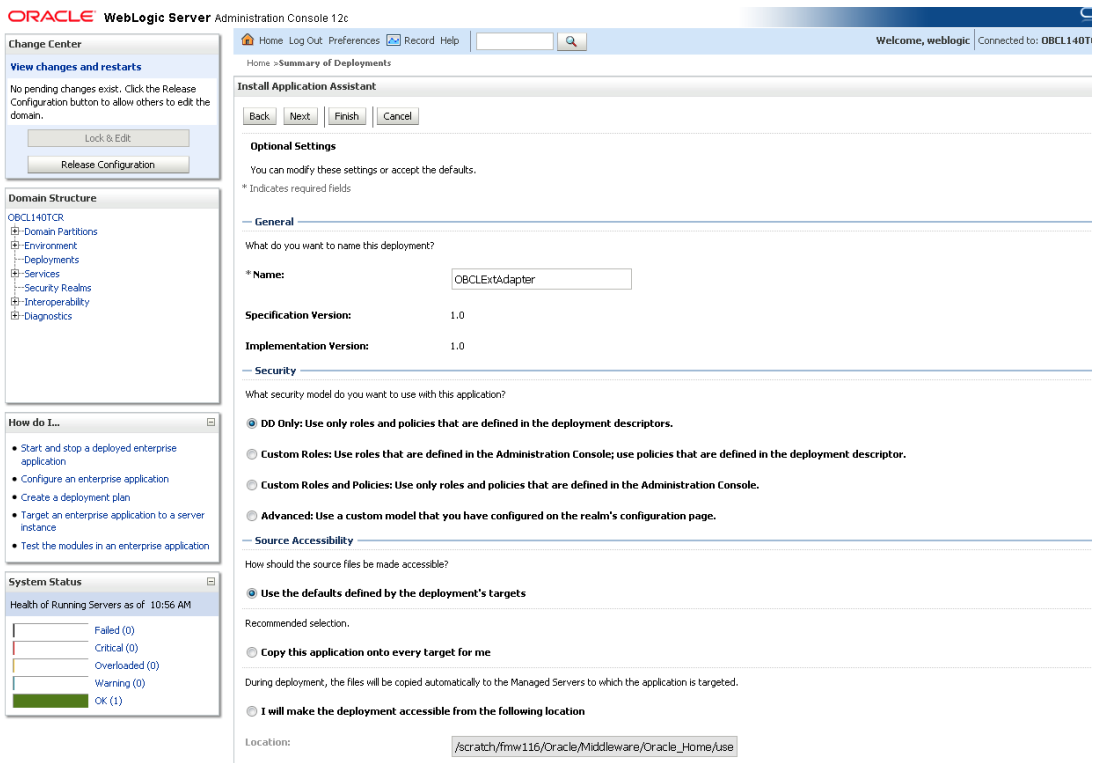
12. Click 'Next'.

The following screen is displayed.



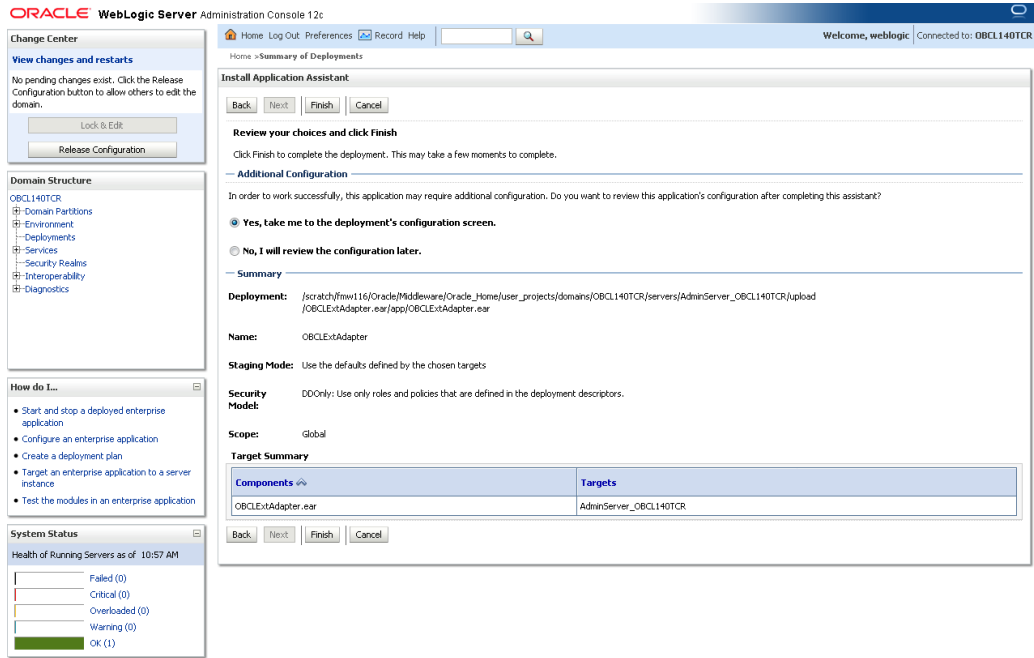
13. Select the target of the application. You can choose the server 'AdminServer' or 'Managed Server(s)'.

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



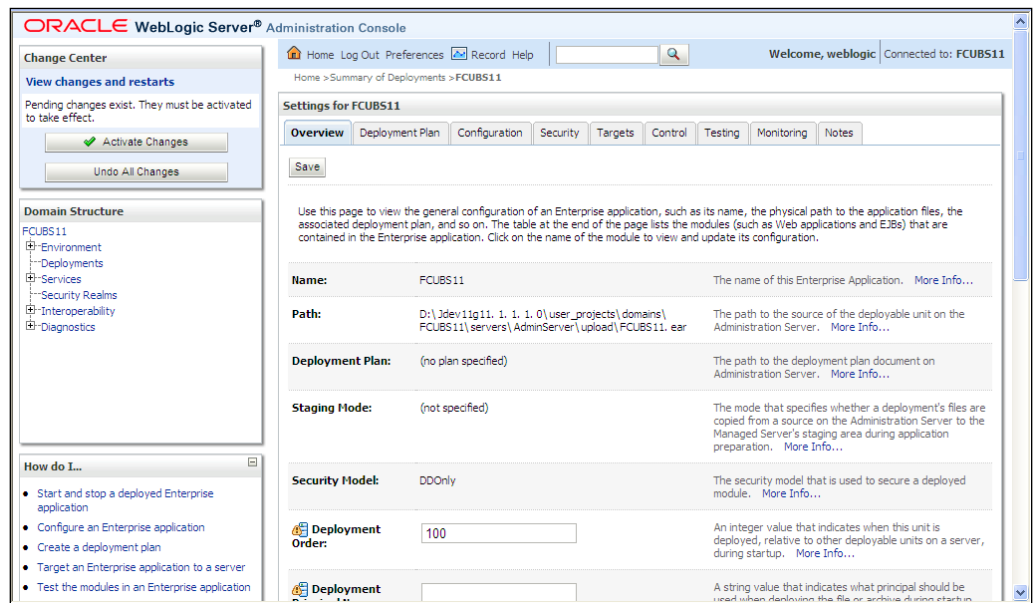
15. Check the deployment name.

The remaining portion of the screen is shown below:



16. Click 'Finish' button.

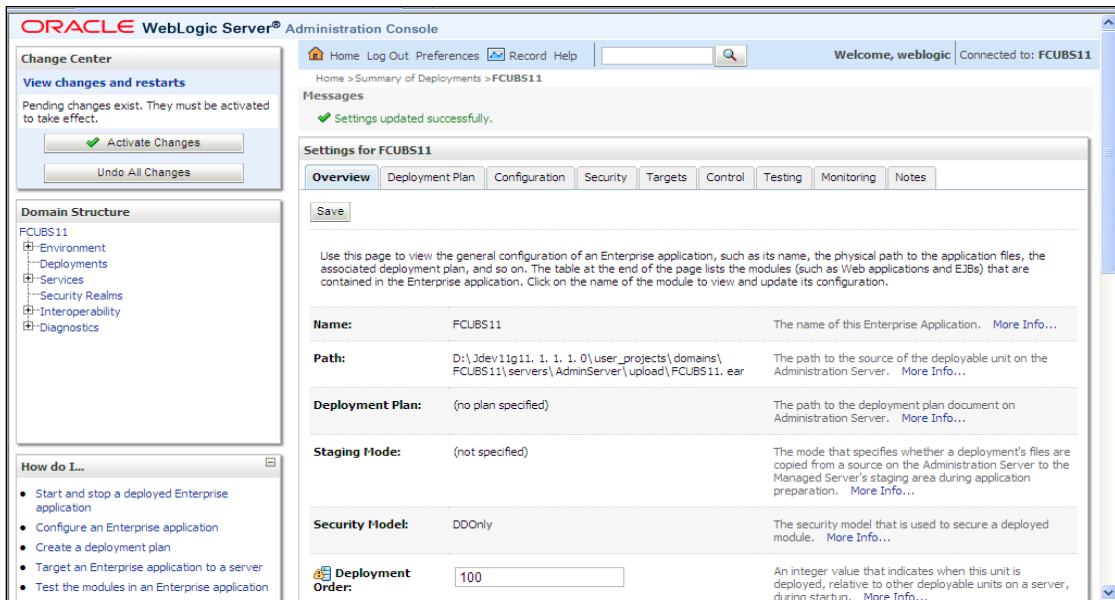
The following screen is displayed.



17. Click 'Save' button.

The message 'Settings updated successfully' is displayed.





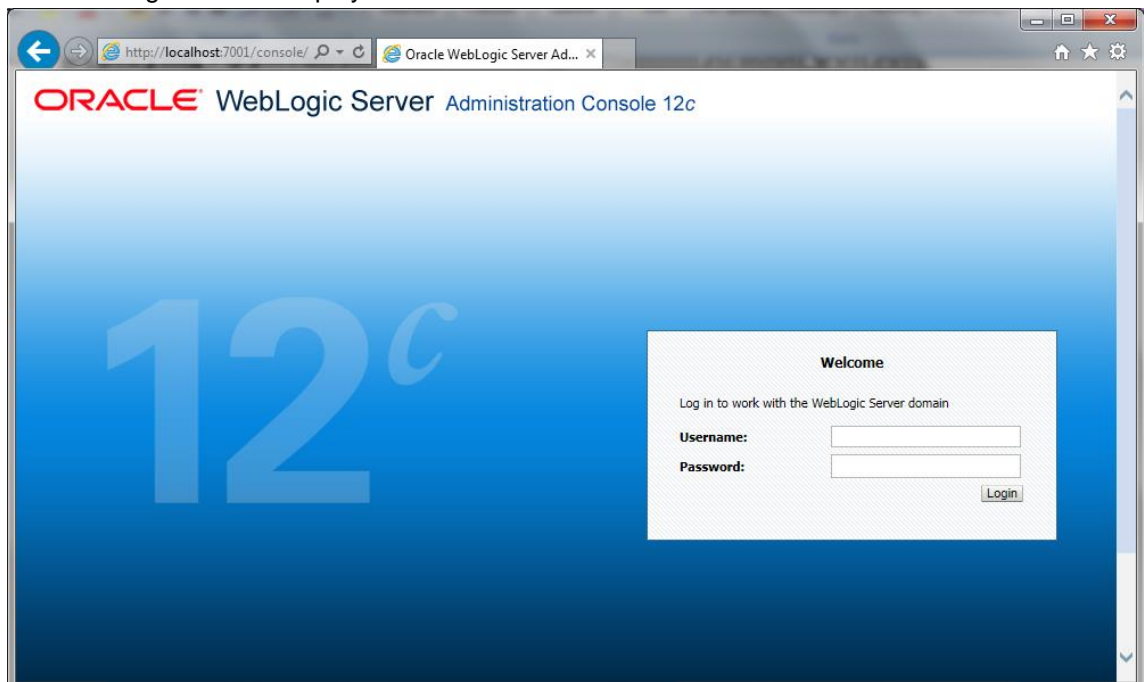
18. Click 'Activate Changes' button on the left pane. The message 'All the changes have been activated. No restarts are necessary' is displayed.

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

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

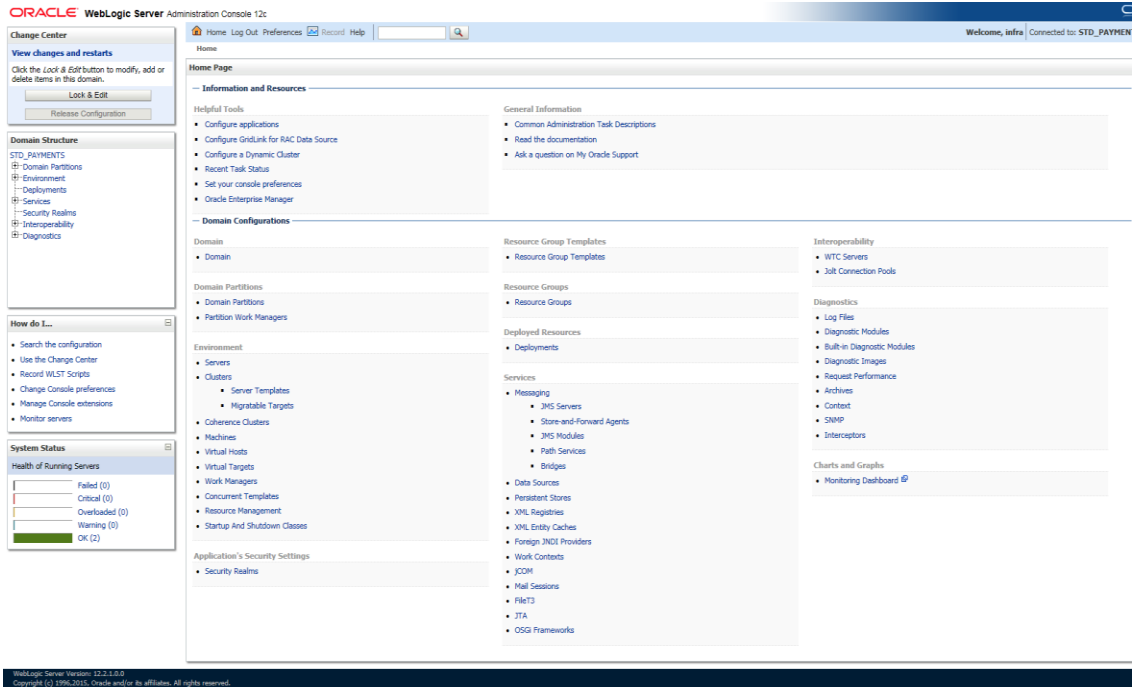
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser. Eg: <http://10.10.10.10:1001/console>

The following screen is displayed:

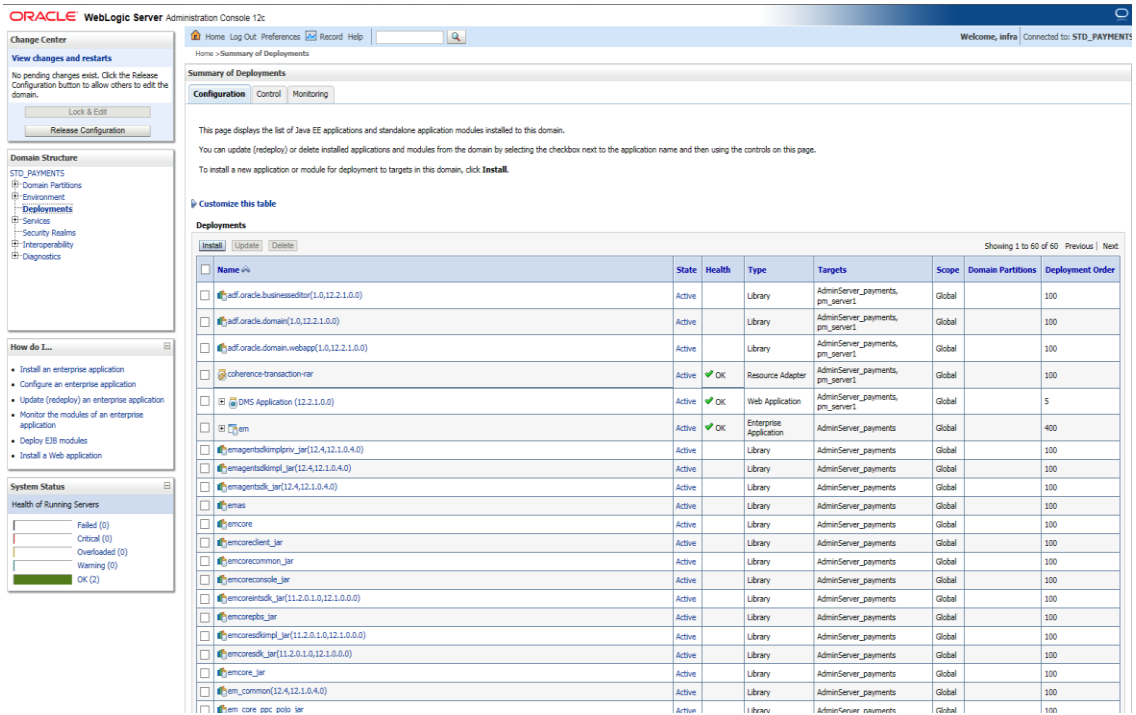


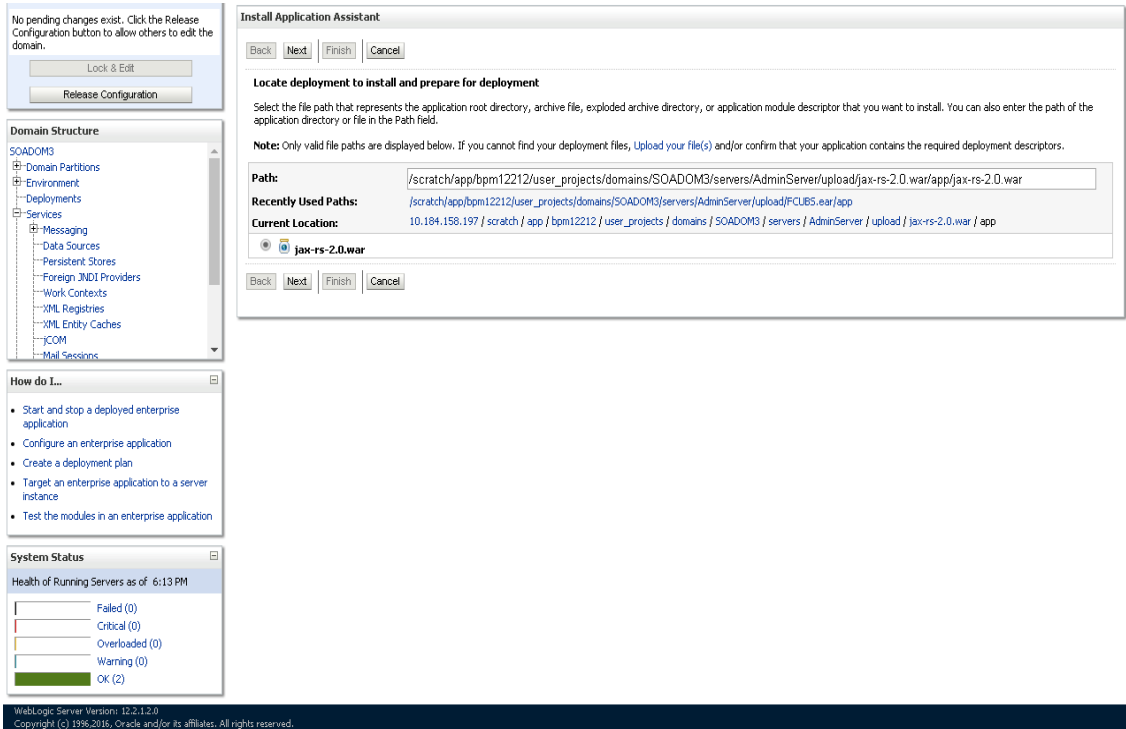
2. Specify the WebLogic administrator user name and password. Click 'Log In'.

The following screen is displayed:

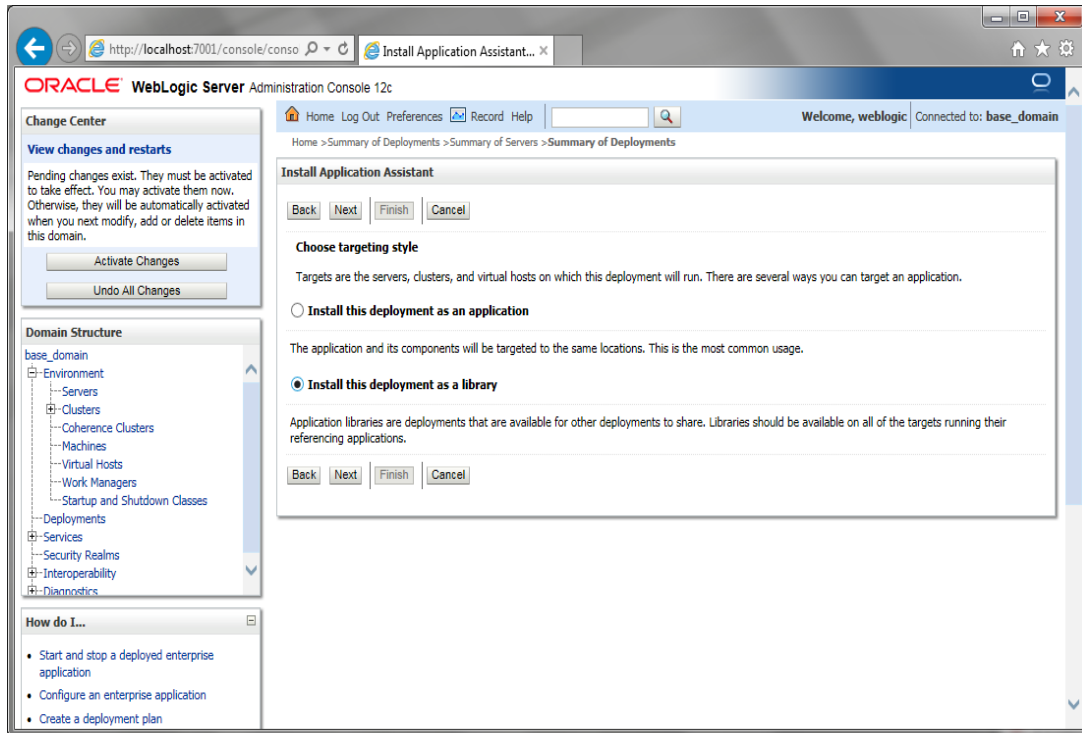


3. Click Install button.

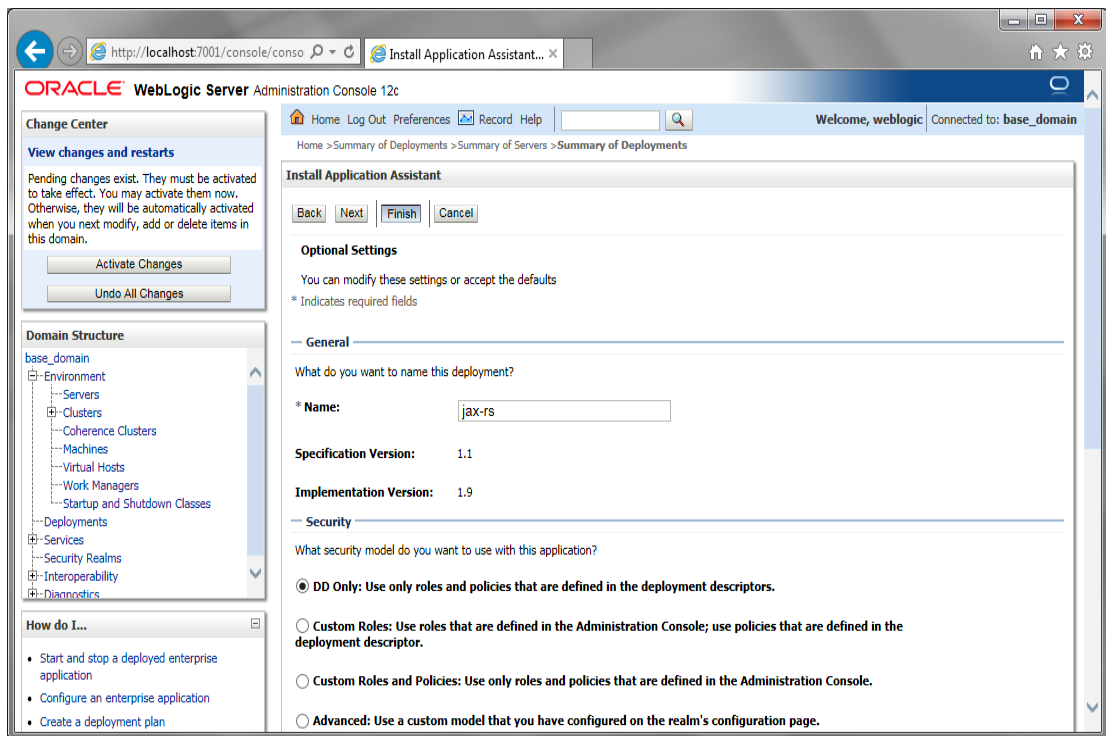




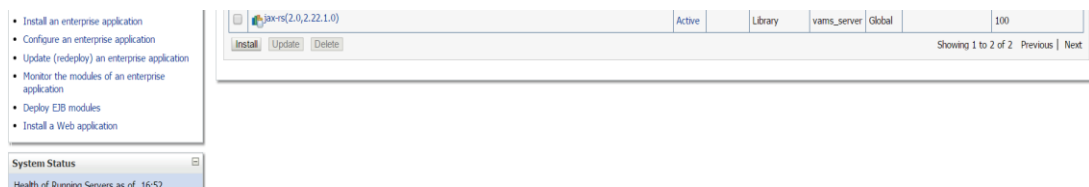
- Navigate and select jersey bundle under the path “w\server\common\deployable-libraries\jax-rs-2.0.war” and click next.



- 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”

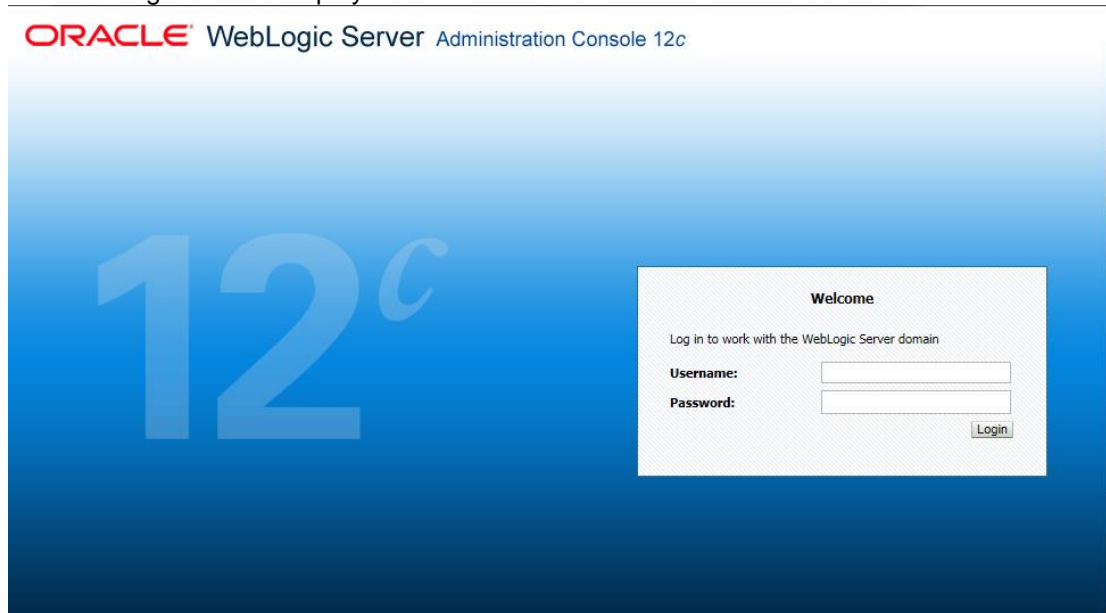
Note : Latest Jax-rs version will be jax-rs(2.0,2.22.1.0).

### 1.3.3 Deploying OBELCM Application from WebLogic Administration Console

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

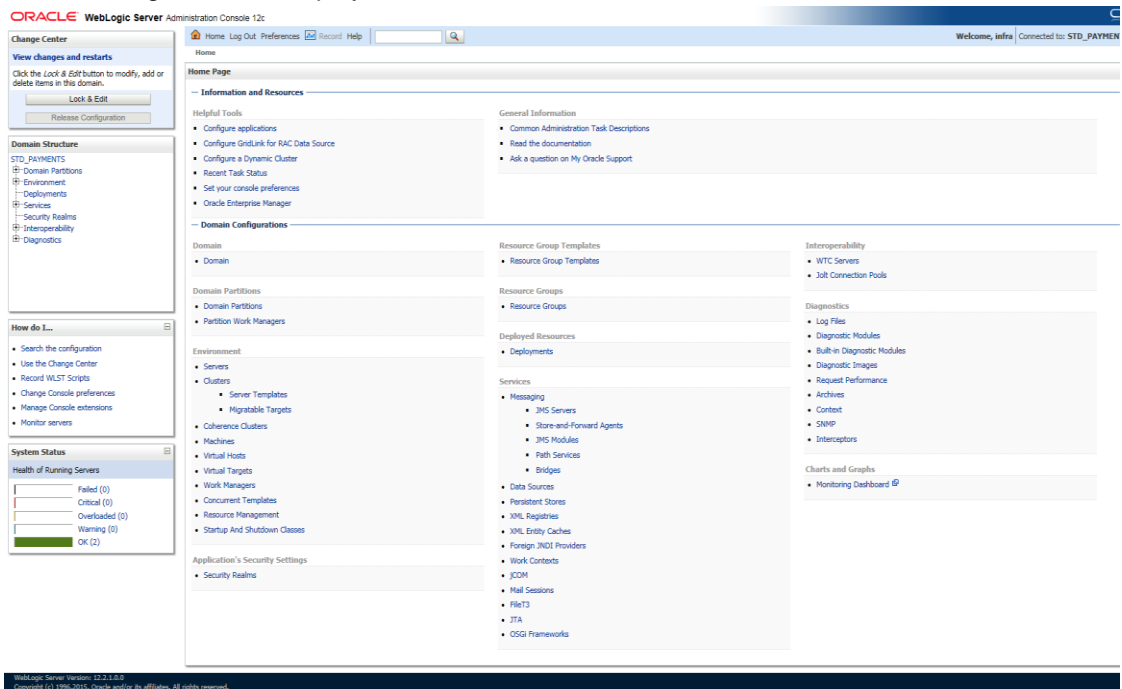
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser. Eg: <http://10.10.10.10:1001/console>

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.

The screenshot shows the Oracle WebLogic Server Administration Console. On the left, the 'Change Center' sidebar has the 'Lock & Edit' button highlighted. The main content area is titled 'Summary of Deployments' and contains a table of installed applications. The table has the following columns: Name, State, Health, Type, Targets, Scope, Domain Partitions, and Deployment Order. The table lists various Java EE applications and modules, such as 'oracle.businesseditor', 'oracle.domain', 'coherence-transaction-war', 'DMS Application', 'em', 'emagentadimpliv\_jar', 'emagentadimpl\_jar', 'emagentadk\_jar', 'emase', 'emcore', 'emcoreadent\_jar', 'emcorecommon\_jar', 'emcoreconsole\_jar', 'emcorentask\_jar', 'emcorepfs\_jar', 'emcoresdkimpl\_jar', 'emcoresdk\_jar', 'emcore\_jar', and 'em\_common'. Each row includes a checkbox for installation, a status icon, and a deployment order number.

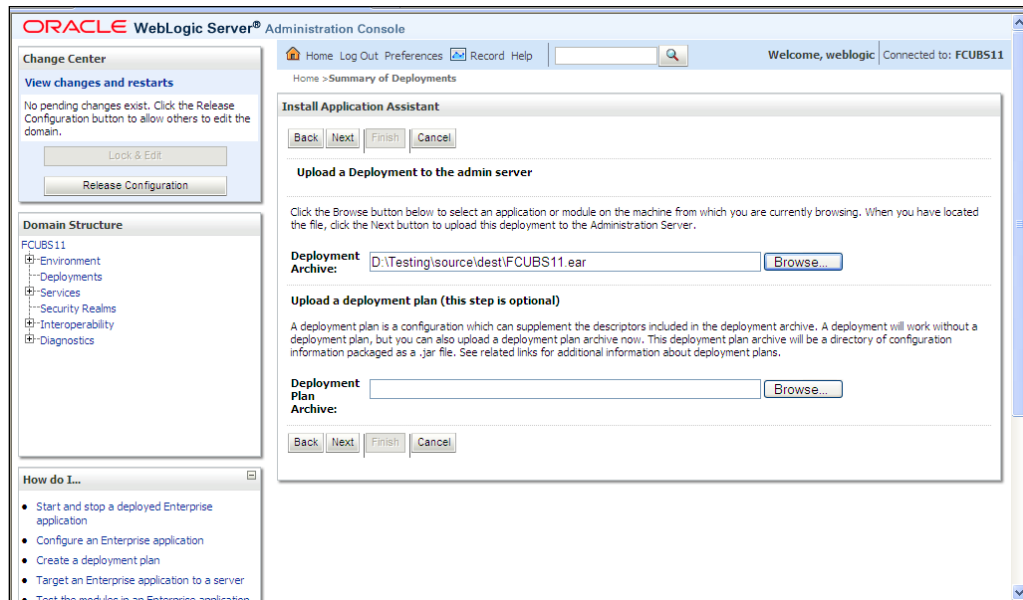
- Click 'Install' button.

The following screen is displayed:

The screenshot shows the 'Install Application Assistant' dialog box in the Oracle WebLogic Server Administration Console. The dialog has a title bar and buttons for 'Back', 'Next', 'Finish', and 'Cancel'. The main content area is titled 'Locate deployment to install and prepare for deployment' and contains the following text: '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.' Below this text is a 'Path:' input field containing 'D:\'. Underneath the input field, there is a list of 'Recently Used Paths' (none) and a 'Current Location' field containing 'ddhp0520.i-flex.com \D:'. A file browser view shows a tree structure of folders and files, including '11.0', '9NT1272', 'APPOINT SOFTWARE SOLUTIONS', 'backup', 'bea', 'bea11g', 'bea\_100', 'BrrDbgs', 'ClearCase', 'CRC', 'Desktop', and 'Documents and Settings'.

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

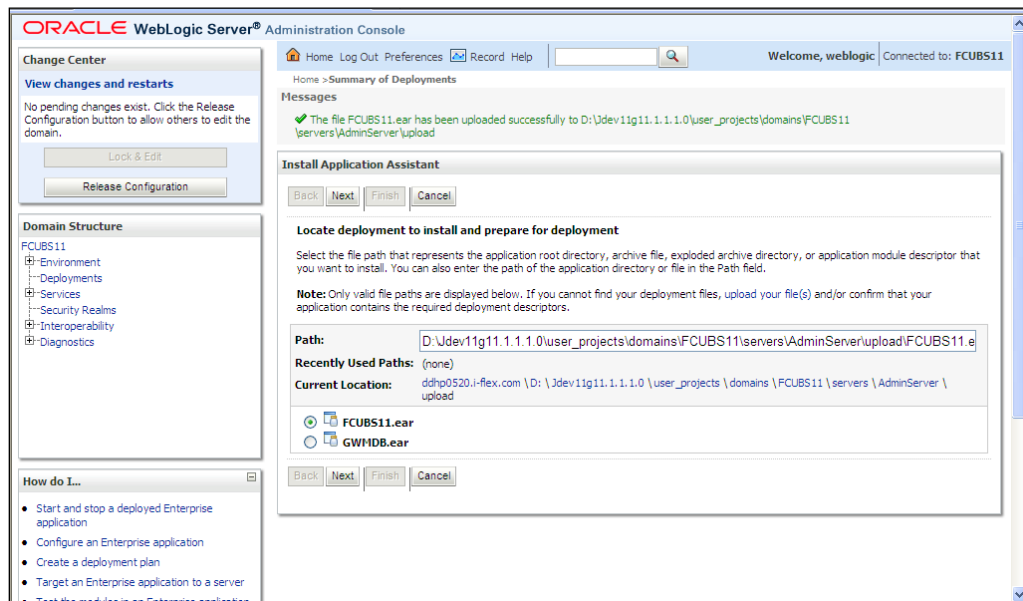
The following screen is displayed:



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

9. Click 'Next'.

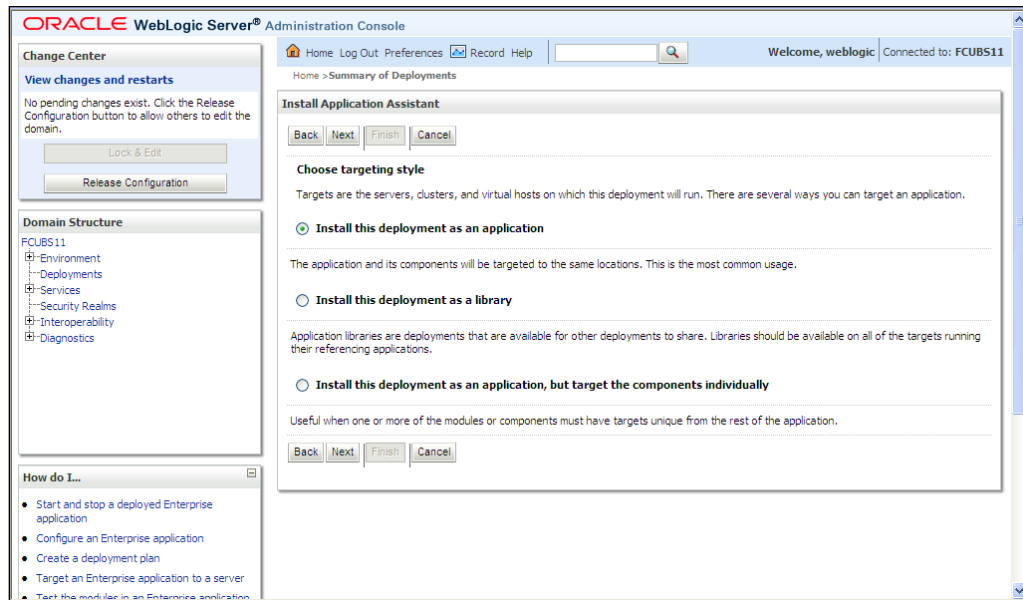
The following screen is displayed.



10. Select the application OBELCM EAR from the list.

11. Click 'Next'.

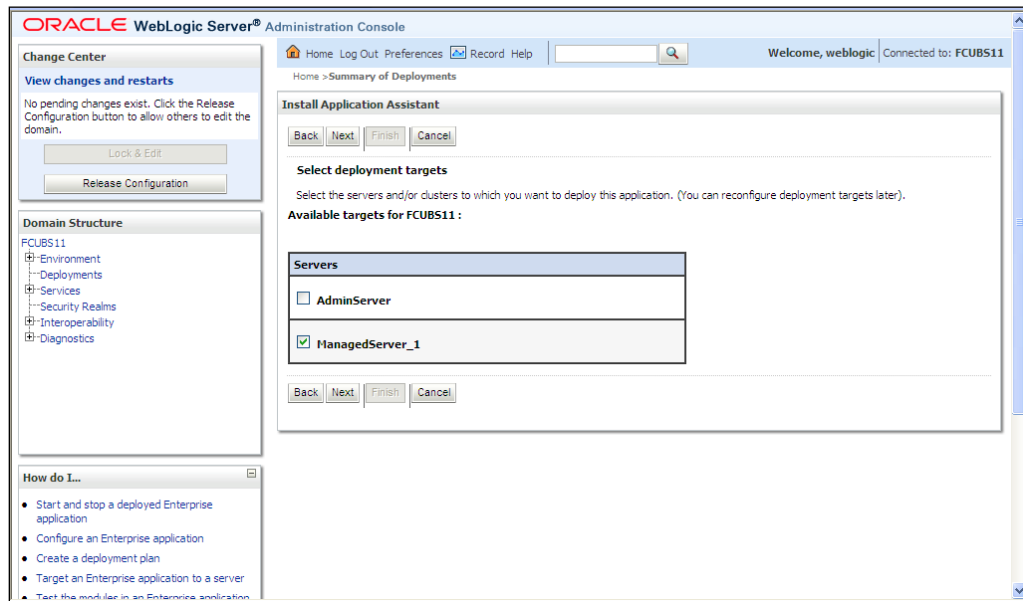
The following screen is displayed:



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

13. Click 'Next'.

The following screen is displayed

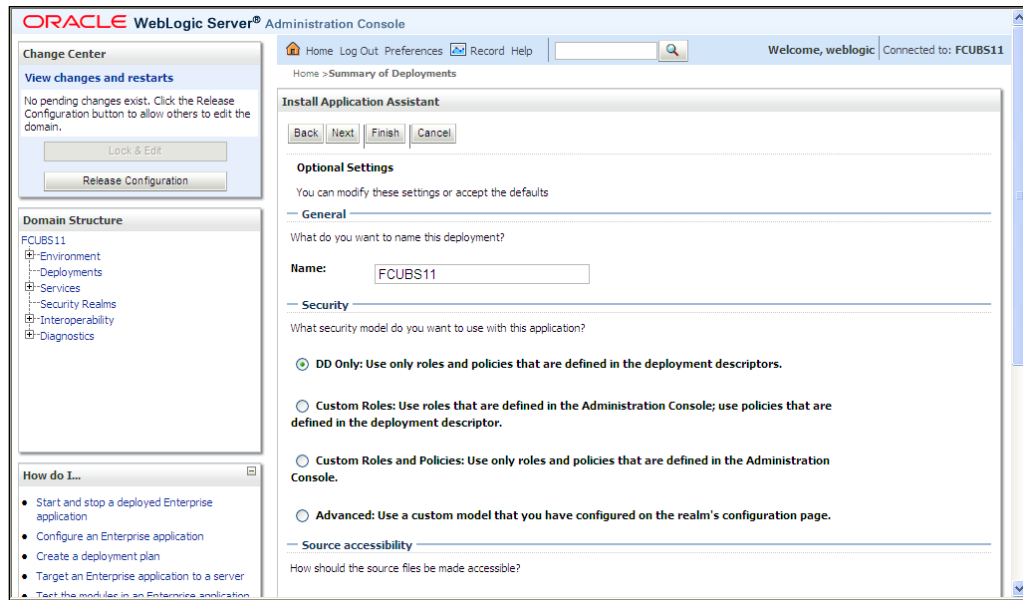


14. Select the target of the application. You can choose the server 'AdminServer' or 'Managed Server(s)'.

15. Click 'Next'.

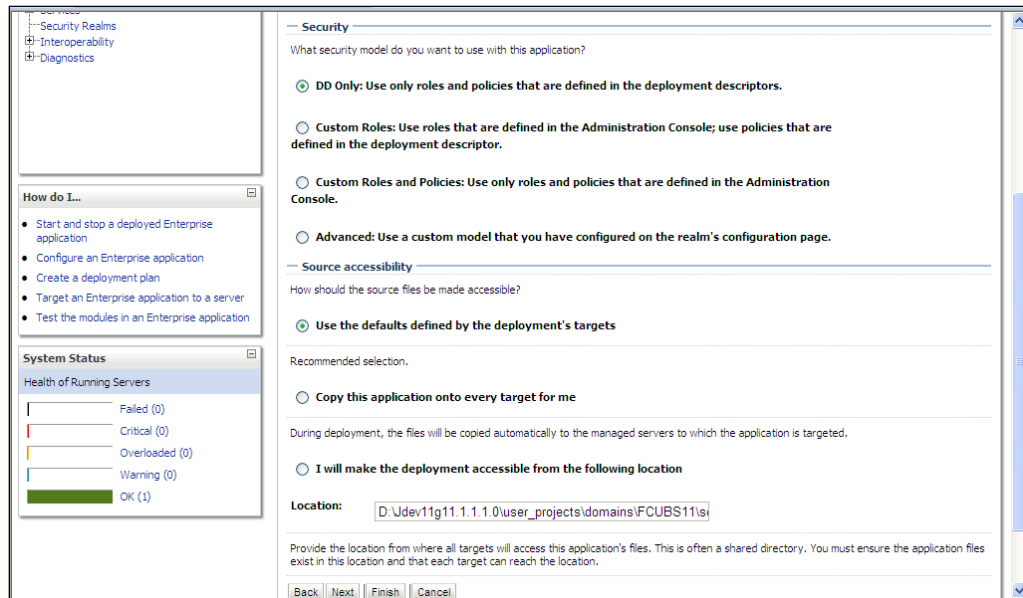
The following screen appears.





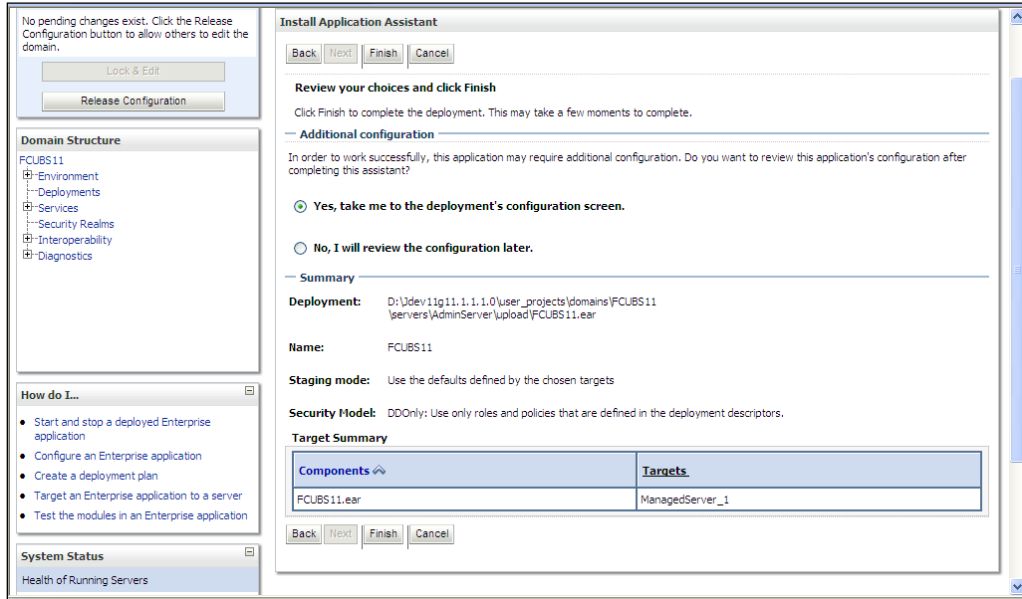
16. Check the deployment name.

The remaining portion of the screen is shown below:



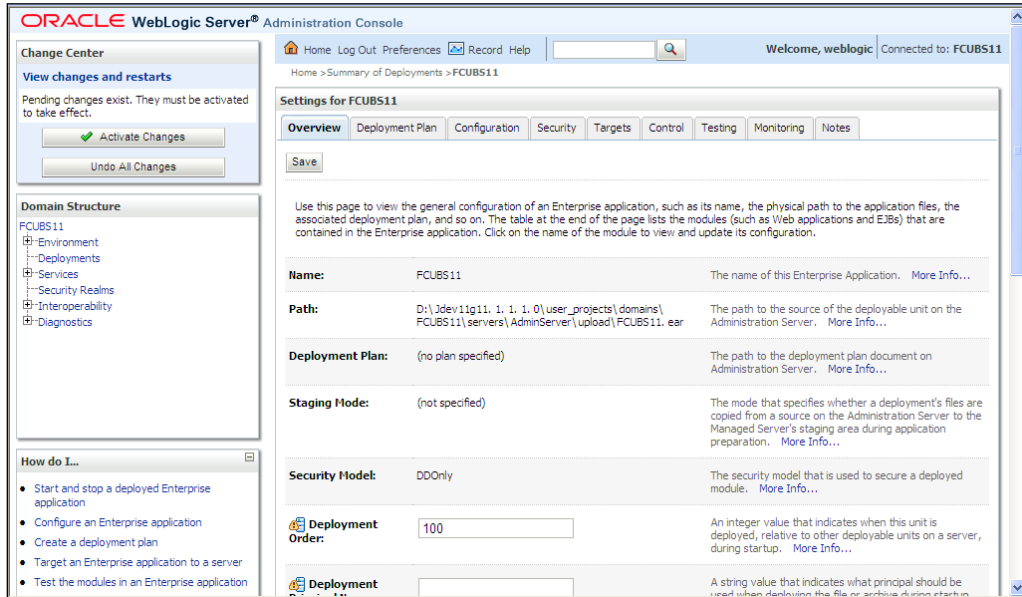
17. Check whether the deployment location is accessible or not.

The following screen is displayed.

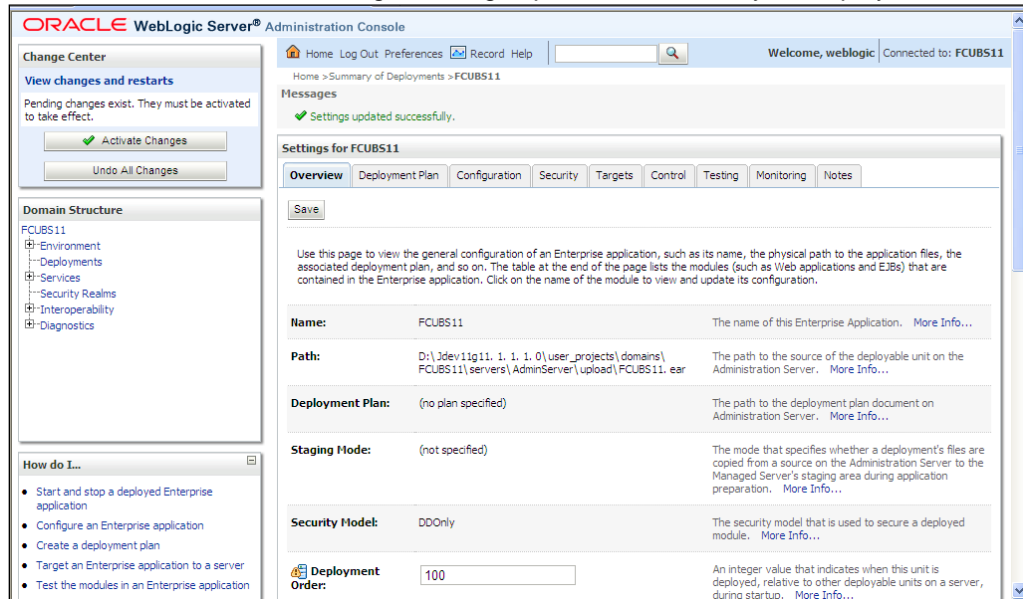


18. Click 'Finish' button. The following screen is displayed.

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

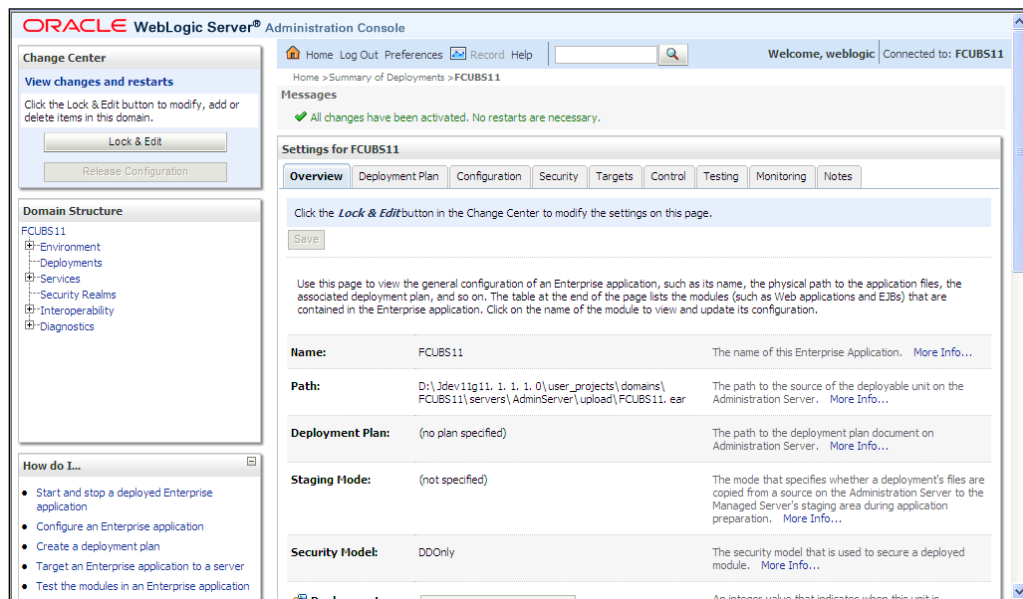


19. Click 'Save' button. The message 'Settings updated successfully' is displayed.

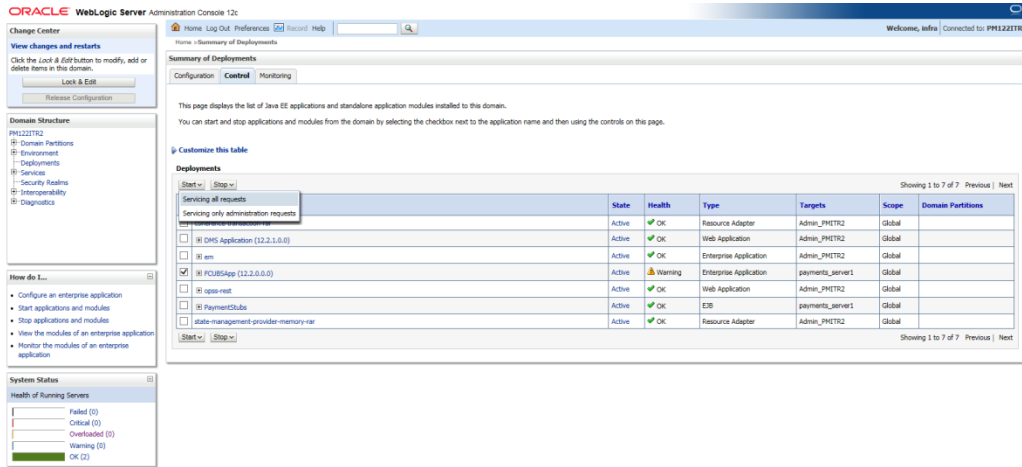


20. Click 'Activate Changes' button on the left pane. The message 'All the changes have been activated. No restarts are necessary' is displayed.

The screen is given below:

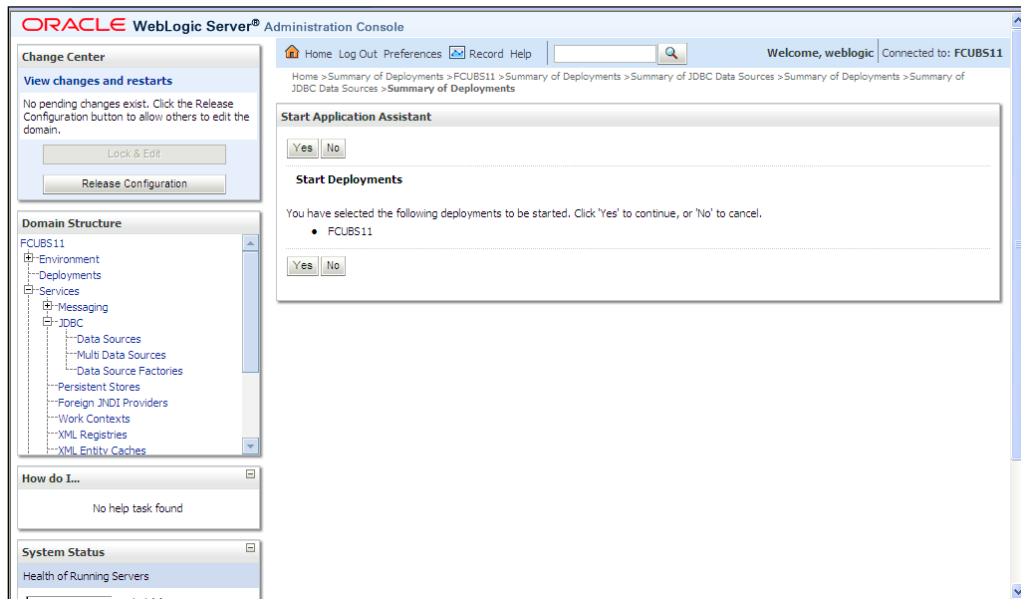


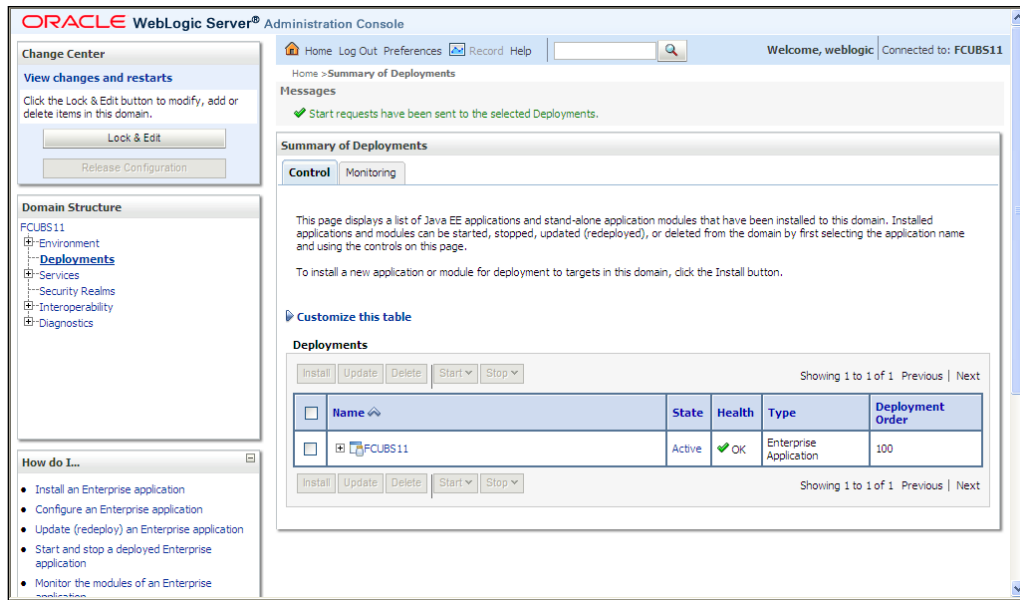
21. Click 'Deployment' on the left pane. Switch to Control tab .The following screen is displayed.



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

The following screen is displayed.





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

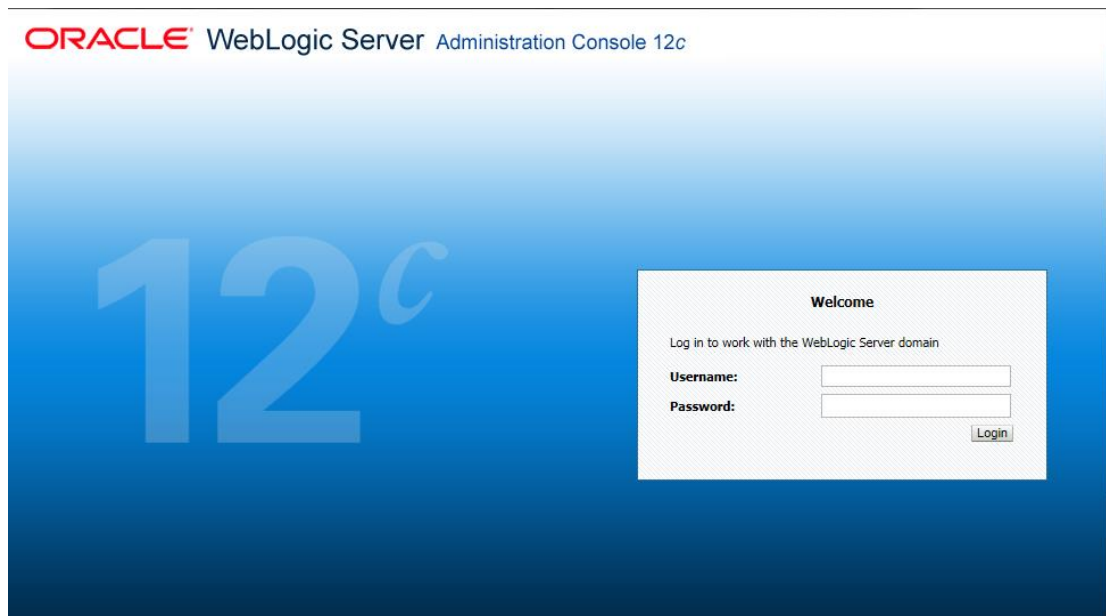
This completes the deployment process.

### 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.

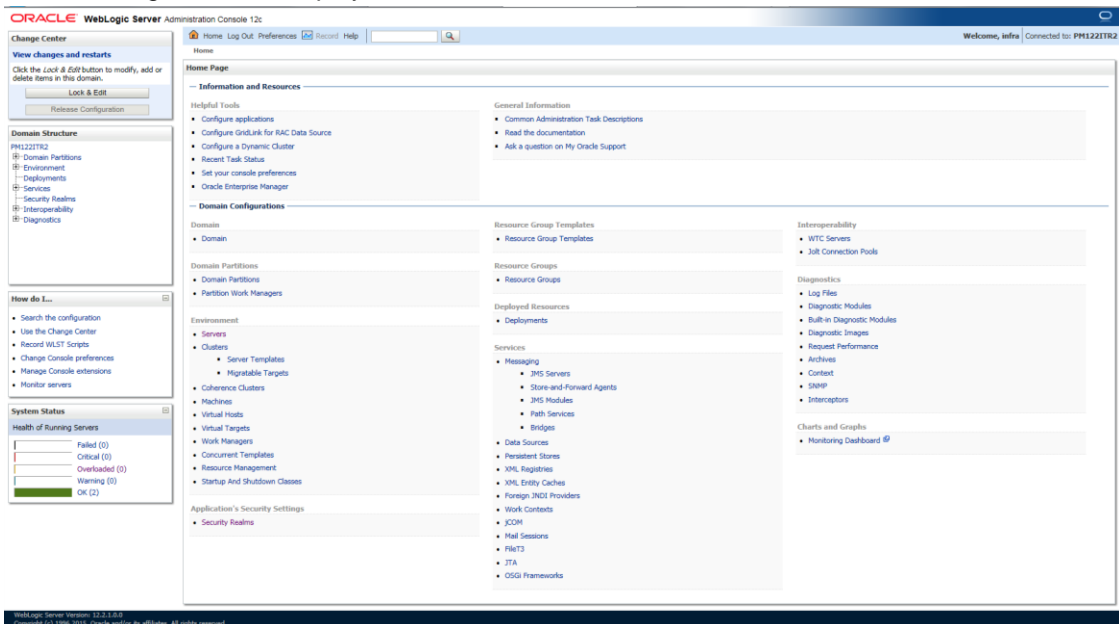
1. Launch Administrative Console of WebLogic application server. You can launch this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser. Eg: <http://10.10.10.10:1001/console>

The following screen is displayed:



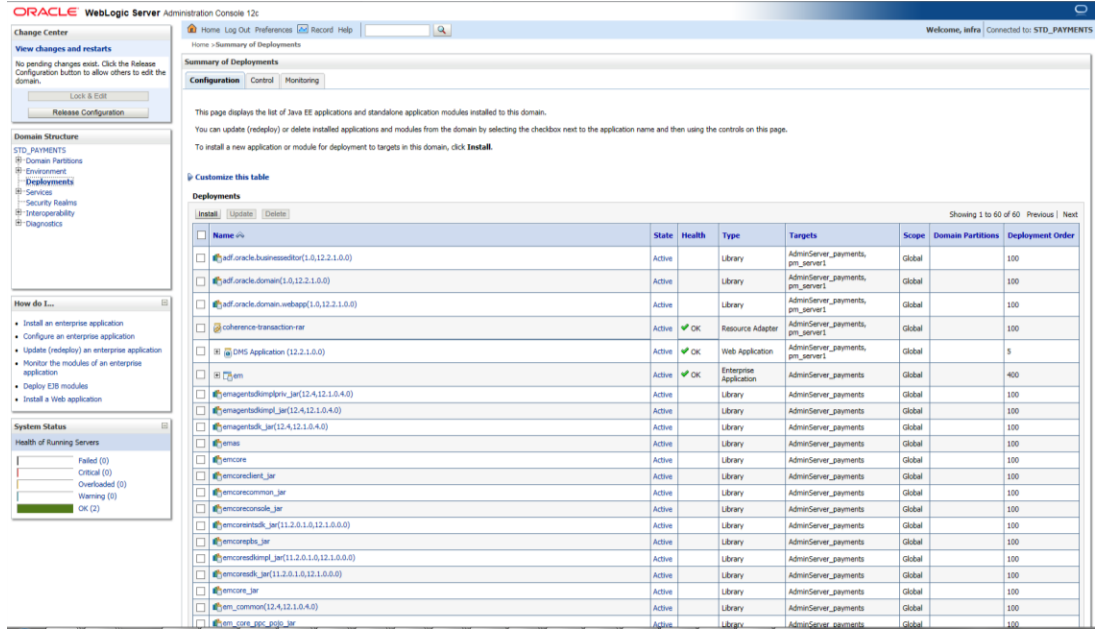
2. Specify the WebLogic administrator user name and password. Click 'Log In'.

The following screen is displayed:

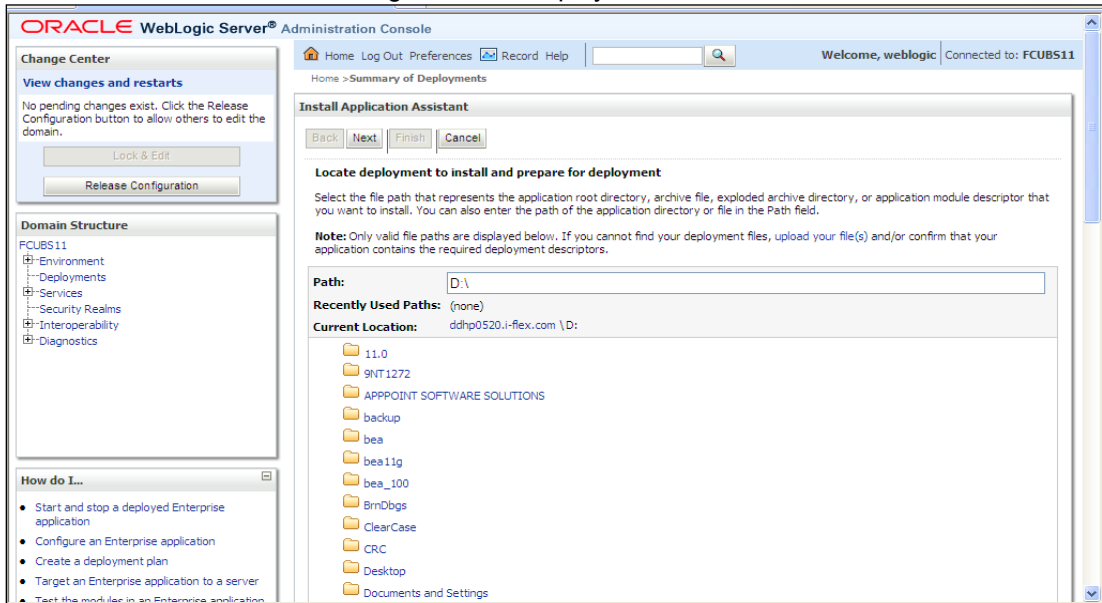


3. You need to deploy an EAR. For e.g. 'GWEJB.ear'. Go to 'Deployment'.

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

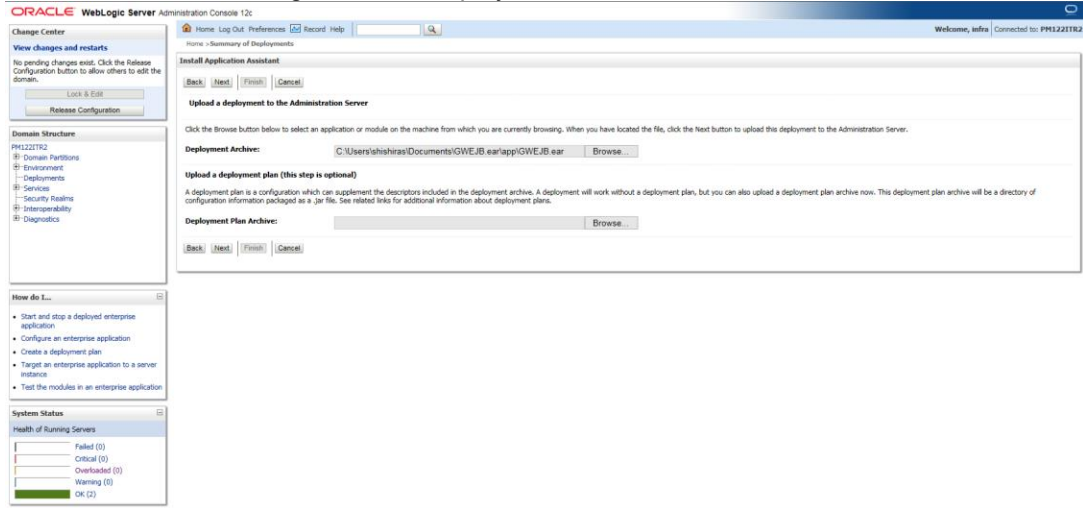


- Click 'Install' button. The following screen is displayed:



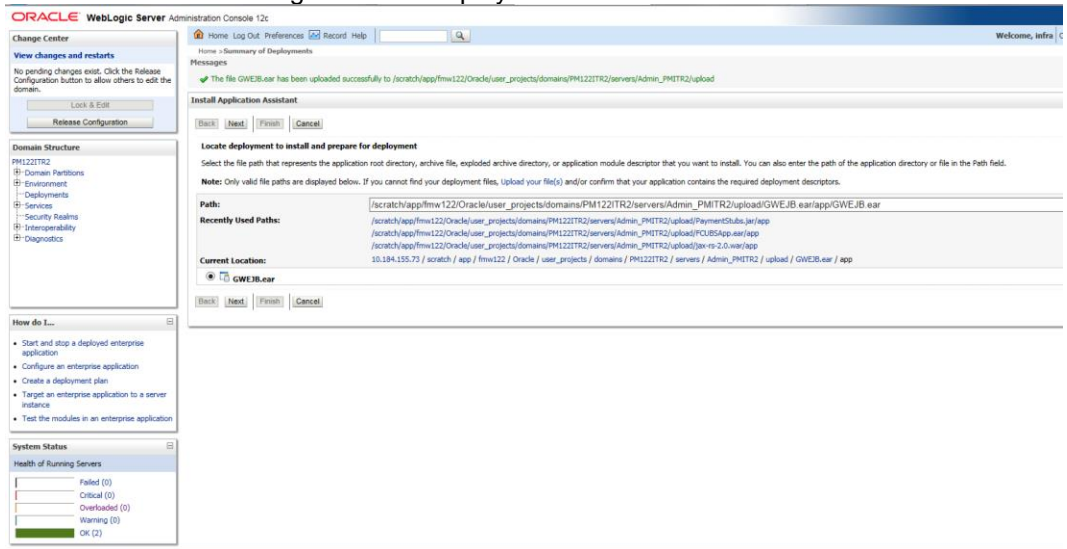
- In order to specify the path/location of the enterprise archive file, click the link 'upload your file(s)'.

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



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

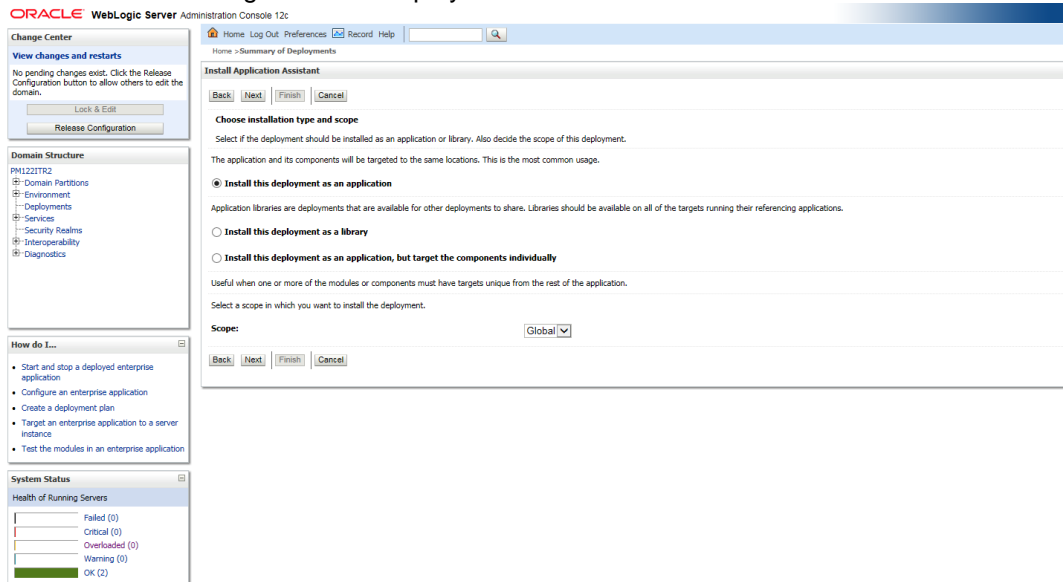
9. Click 'Next'. The following screen is displayed.



10. Select the application from the list.



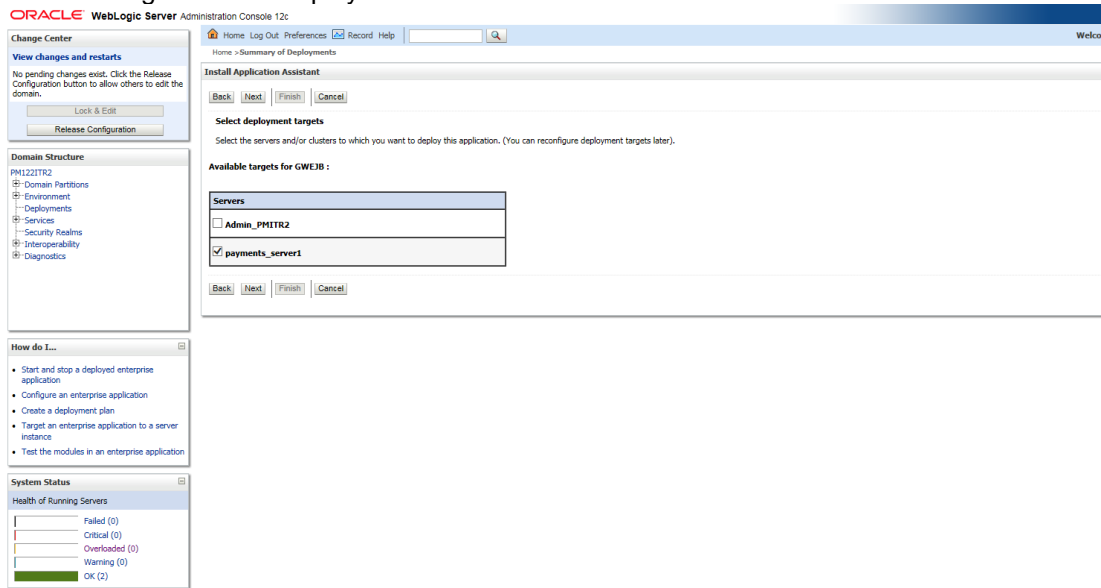
11. Click 'Next'. Following screen is displayed:



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.

The screenshot shows the 'Install Application Assistant' window in the Oracle WebLogic Server Administration Console. The left-hand pane displays the 'Domain Structure' for 'FCAPACK125', with a tree view showing 'Environment' > 'Deployments' > 'Services' > 'Messaging'. Below this is a 'How do I...' section with a list of tasks. The main pane is titled 'Install Application Assistant' and includes a 'Back | Next | Finish | Cancel' navigation bar. The 'Optional Settings' section states: 'You can modify these settings or accept the defaults. \* Indicates required fields'. The 'General' section asks 'What do you want to name this deployment?' with a text box containing 'GWEJB'. The 'Security' section asks 'What security model do you want to use with this application?' with three radio button options: 'DD Only: Use only roles and policies that are defined in the deployment descriptors.' (selected), 'Custom Roles: Use roles that are defined in the Administration Console; use policies that are defined in the deployment descriptor.', and 'Custom Roles and Policies: Use only roles and policies that are defined in the Administration Console.'. The 'Source Accessibility' section asks 'How should the source files be made accessible?' with two radio button options: 'Use the defaults defined by the deployment's targets' (selected) and 'Use the same accessibility as the application'. The 'Plan Source Accessibility' section asks 'How should the plan source files be made accessible?' with two radio button options: 'Use the same accessibility as the application' (selected) and 'Copy this plan onto every target for me'. The 'Location' field is populated with '/scratch/app/wl12212/user\_projects/domains/FCAPACK125/serv'. At the bottom, there are 'Back | Next | Finish | Cancel' buttons.

16. Check the deployment name.

The remaining portion of the screen is shown below:

This screenshot shows the lower portion of the 'Install Application Assistant' window. The 'Plan Source Accessibility' section is visible, with the question 'How should the plan source files be made accessible?' and the selected radio button 'Use the same accessibility as the application'. Below this is the 'Recommended selection' section with the selected radio button 'Copy this plan onto every target for me'. The 'During deployment' section has the selected radio button 'Do not copy this plan to targets'. The 'You must ensure' section contains the text: 'You must ensure the plan files exist in the shared location and that each target can reach the location.' At the bottom, there are 'Back | Next | Finish | Cancel' buttons.

17. 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 includes a "Review your choices and click Finish" section. Below this, there is an "Additional Configuration" section with a radio button selected for "Yes, take me to the deployment's configuration screen." A "Summary" section follows, listing various configuration parameters for the application GWEJB. At the bottom, a "Target Summary" table is displayed.

Components	Targets
GWEJB.ear	payments_server1

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

The screenshot shows the Oracle WebLogic Server Administration Console interface for the "Settings for GWEJB(12.2.0.0.0)" application. The "Overview" tab is selected, displaying a list of configuration parameters and their descriptions. The parameters include Name, Scope, Archive Version, Path, Deployment Plan, Staging Mode, Plan Staging Mode, Security Model, Deployment Order, and Deployment Principal Name. Below the list, there is a "Modules and Components" section showing a table of modules.

Name
GWEJB (12.2.0.0.0)
PC3nPrxvEJB
PC3nRouterEJB
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. At the top, a message states 'Settings updated successfully'. Below this, there are tabs for 'Overview', 'Deployment Plan', 'Configuration', 'Security', 'Targets', 'Control', 'Testing', 'Monitoring', and 'Notes'. The 'Overview' tab is active, showing a list of configuration parameters such as Name, Scope, Archive Version, Path, Deployment Plan, Staging Mode, Plan Staging Mode, Security Model, Deployment Order, and Deployment Principal. A 'Save' button is visible at the bottom of the configuration table. On the left side, the 'Change Center' pane is open, showing 'View changes and restarts' with a green checkmark and the 'Activate Changes' button highlighted.

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:

This screenshot is similar to the previous one, showing the 'Settings for GWEJB(12.2.0.0.0)' page. However, the message at the top now reads 'All changes have been activated. No restarts are necessary.' In the left pane, the 'Change Center' shows 'View changes and restarts' with a green checkmark and the 'Release Configuration' button highlighted. The configuration table and other UI elements remain the same as in the previous screenshot.

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

ORACLE WebLogic Server Administration Console 12c

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

Welcome, infra | Connected to

**Change Center**  
View changes and restarts  
Click the Lock & Edit button to modify, add or delete items in this domain.  
Lock & Edit  
Release Configuration

**Domain Structure**  
PH1221TR2  
- Domain Partitions  
- Environment  
- Deployments  
- Services  
- Security Realms  
- Interoperability  
- Diagnostics

**How do I...**  
Configure an enterprise application  
Start applications and modules  
Stop applications and modules  
View the modules of an enterprise application  
Monitor the modules of an enterprise application

**System Status**  
Health of Running Servers  
Failed (0)  
Critical (0)  
Overloaded (0)  
Warning (0)  
OK (2)

**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 | Prev

Start	Stop	State	Health	Type	Targets	Scope	Domain Partition
Servicing all requests		Active	OK	Resource Adapter	Admin_PM1TR2	Global	
Servicing only administration requests		Active	OK	Resource Adapter	Admin_PM1TR2	Global	
<input type="checkbox"/>	<input type="checkbox"/>	Active	OK	Web Application	Admin_PM1TR2	Global	
<input type="checkbox"/>	<input type="checkbox"/>	Active	Warning	Enterprise Application	payments_server1	Global	
<input type="checkbox"/>	<input type="checkbox"/>	Active	Warning	Enterprise Application	payments_server1	Global	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Prepared	OK	Enterprise Application	payments_server1	Global	
<input type="checkbox"/>	<input type="checkbox"/>	Active	OK	Web Application	Admin_PM1TR2	Global	
<input type="checkbox"/>	<input type="checkbox"/>	Active	OK	EJB	payments_server1	Global	
<input type="checkbox"/>	<input type="checkbox"/>	Active	OK	Resource Adapter	Admin_PM1TR2	Global	

Start | Stop | Showing 1 to 8 of 8 | Prev

WebLogic Server Version: 12.2.1.0.0  
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22. Click 'Start' drop-down button and select 'Servicing all requests'.

The following screen is displayed.

ORACLE WebLogic Server Administration Console 12c

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

Welcome, infra | Connected to

**Change Center**  
View changes and restarts  
Click the Lock & Edit button to modify, add or delete items in this domain.  
Lock & Edit  
Release Configuration

**Domain Structure**  
PH1221TR2  
- Domain Partitions  
- Environment  
- Deployments  
- Services  
- Security Realms  
- Interoperability  
- Diagnostics

**How do I...**  
No task help found.

**System Status**  
Health of Running Servers  
Failed (0)  
Critical (0)  
Overloaded (0)  
Warning (0)  
OK (2)

**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

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23. 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 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.

**Deployments**

Name	State	Health	Type	Targets	Scope	Domain Partitions
<input type="checkbox"/> coherence-transaction-war	Active	OK	Resource Adapter	Admin_PMTB2	Global	
<input type="checkbox"/> GMS 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"/> FOCWSApp (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"/> opss-wst	Active	OK	Web Application	Admin_PMTB2	Global	
<input type="checkbox"/> PaymentHub	Active	OK	EJB	payments_server1	Global	
<input type="checkbox"/> state-management-provider-memory-war	Active	OK	Resource Adapter	Admin_PMTB2	Global	

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  
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