

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

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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.

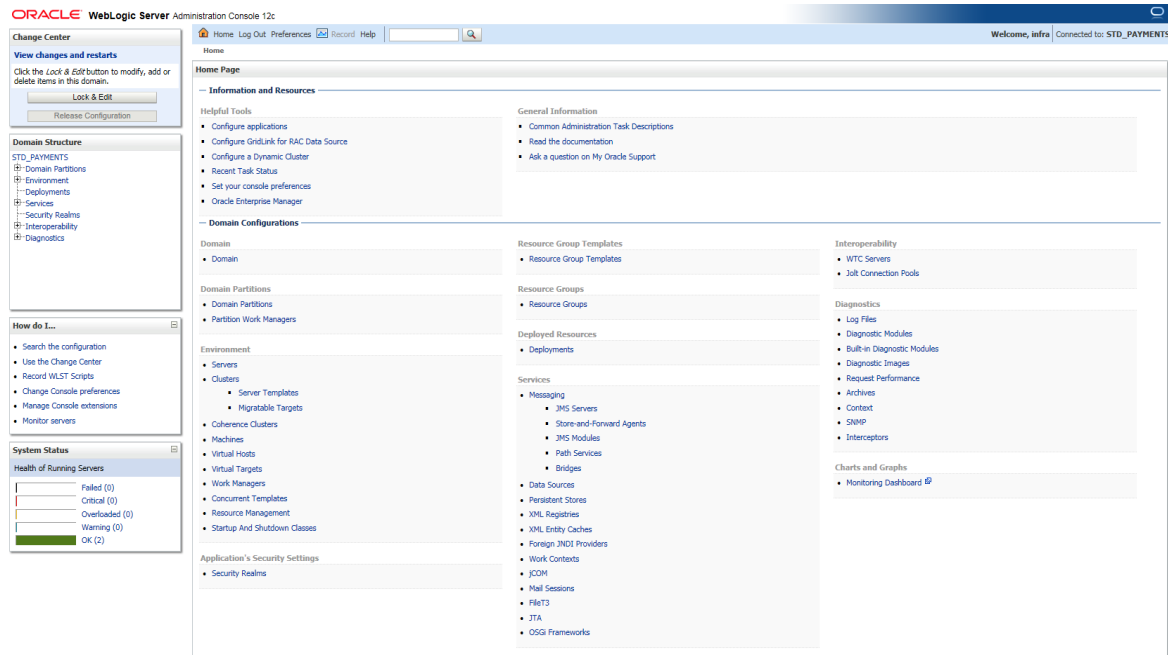
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser.

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

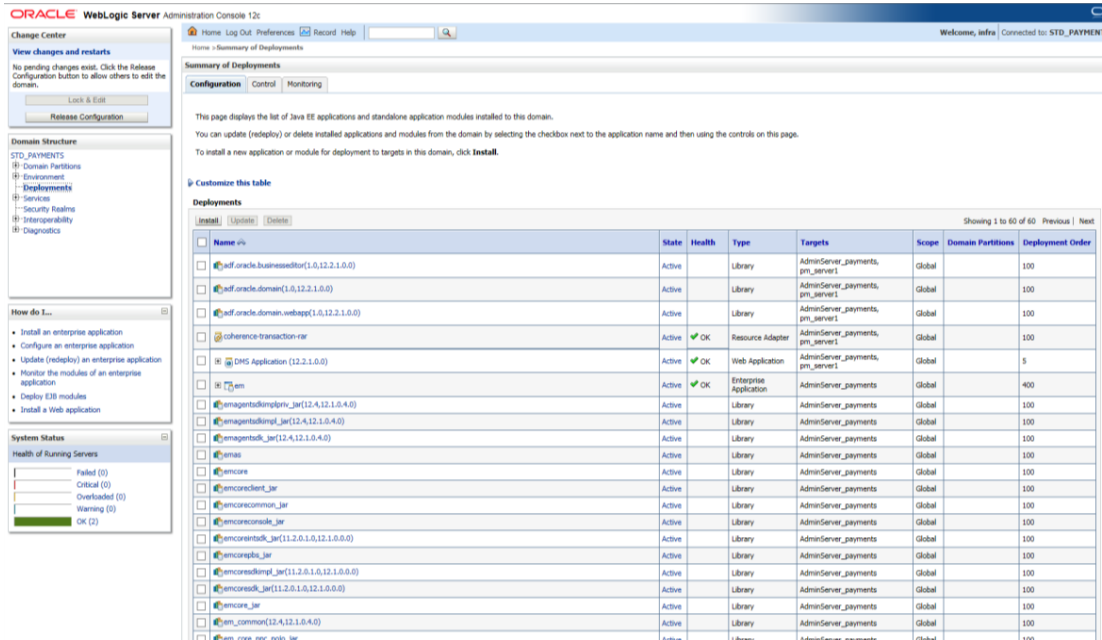
The following screen is displayed:



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

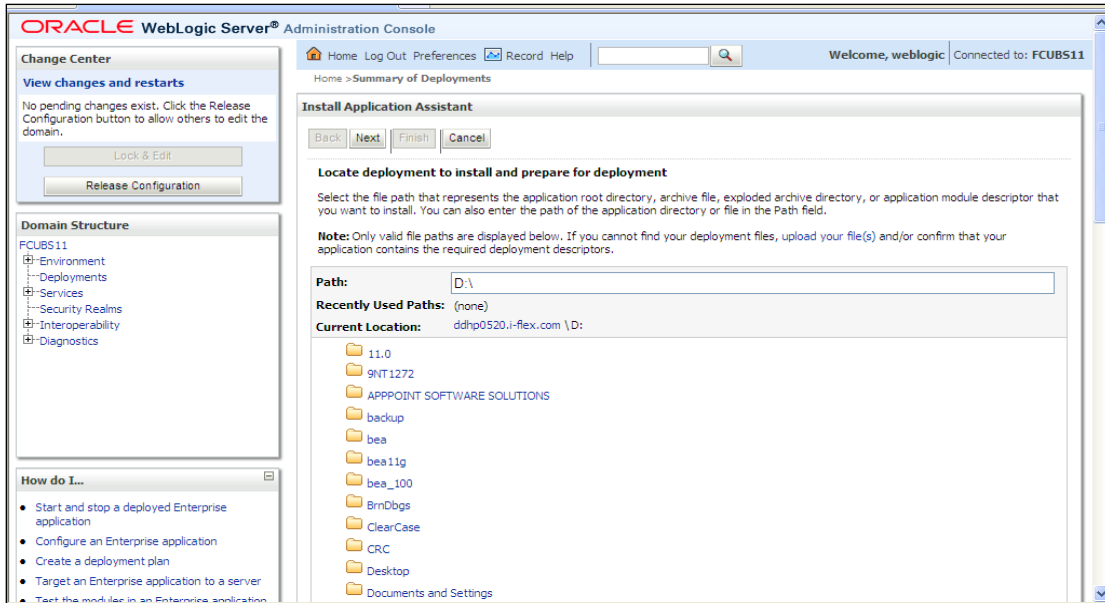


- You need to deploy an Integration adapter EAR. For e.g. 'OBCLExtAdapter.ear or ExtAdapter.ear'. Go to 'Deployment'.
- Click 'Lock & Edit' button to enable the buttons. This action enables the buttons.



5. Click 'Install' button.

The following screen is displayed:

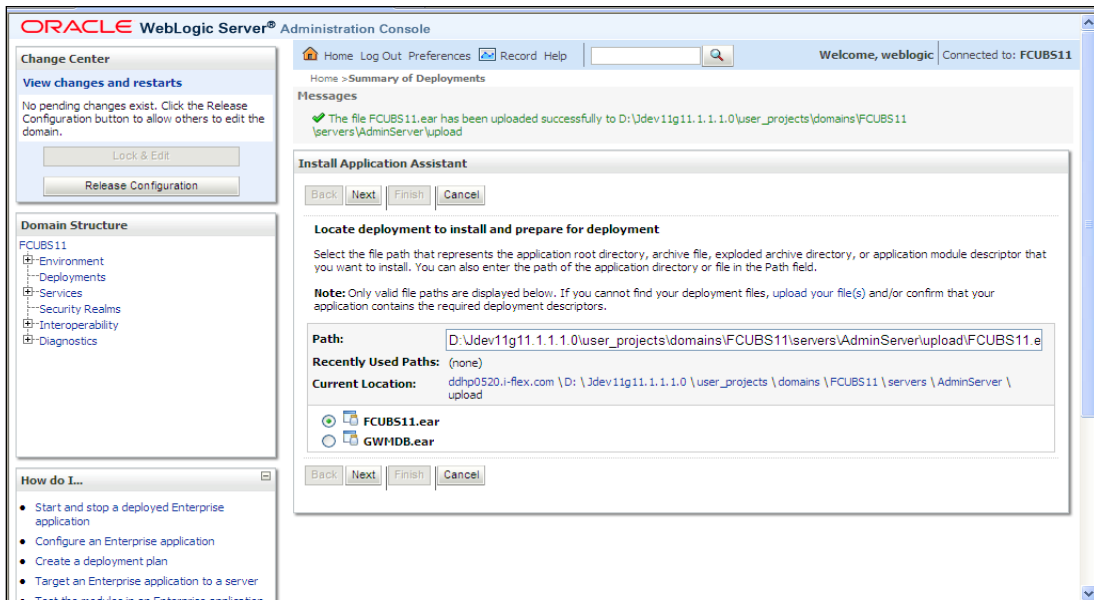


6. In order to specify the path/location of the enterprise archive file, click the link 'upload your file(s)'.

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

8. Click 'Next'.

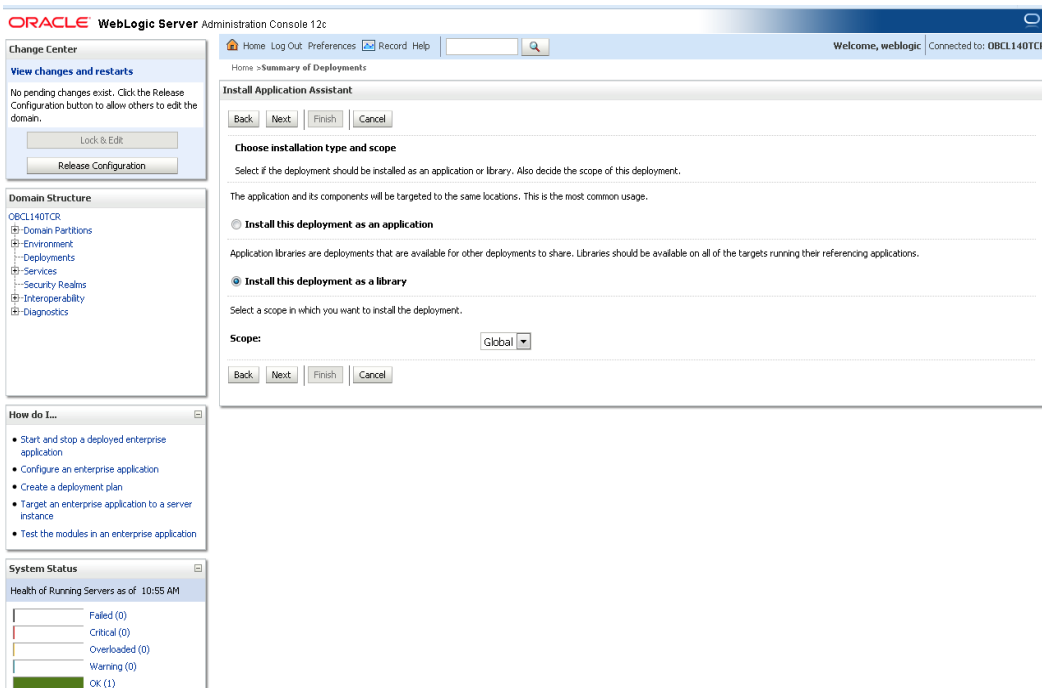
The following screen is displayed.



9. Select the application Adapter EAR from the list.

10. Click 'Next'.

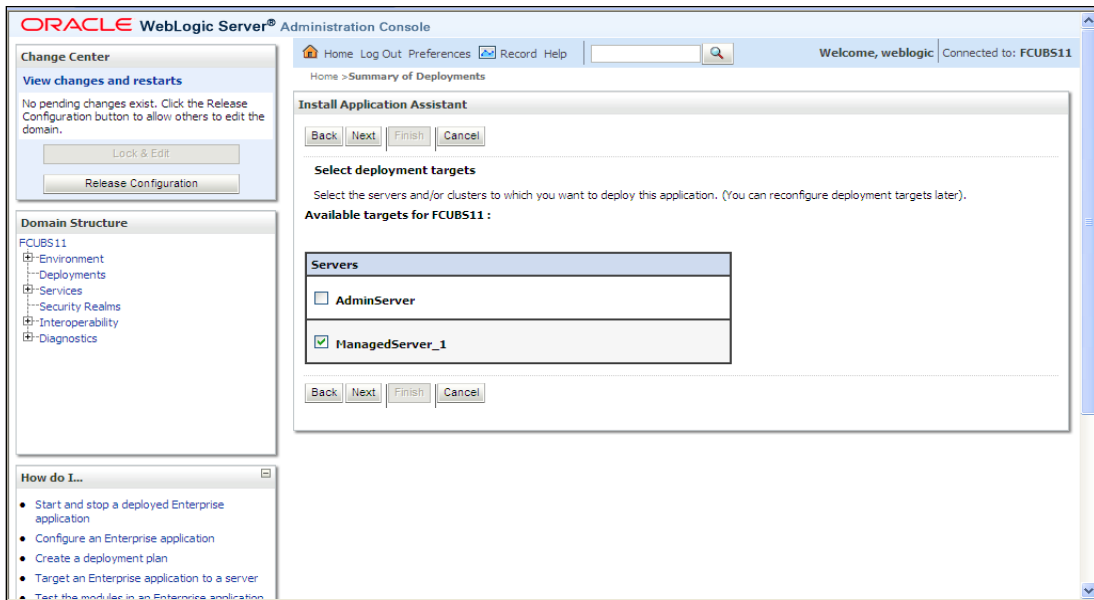
The following screen is displayed.



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

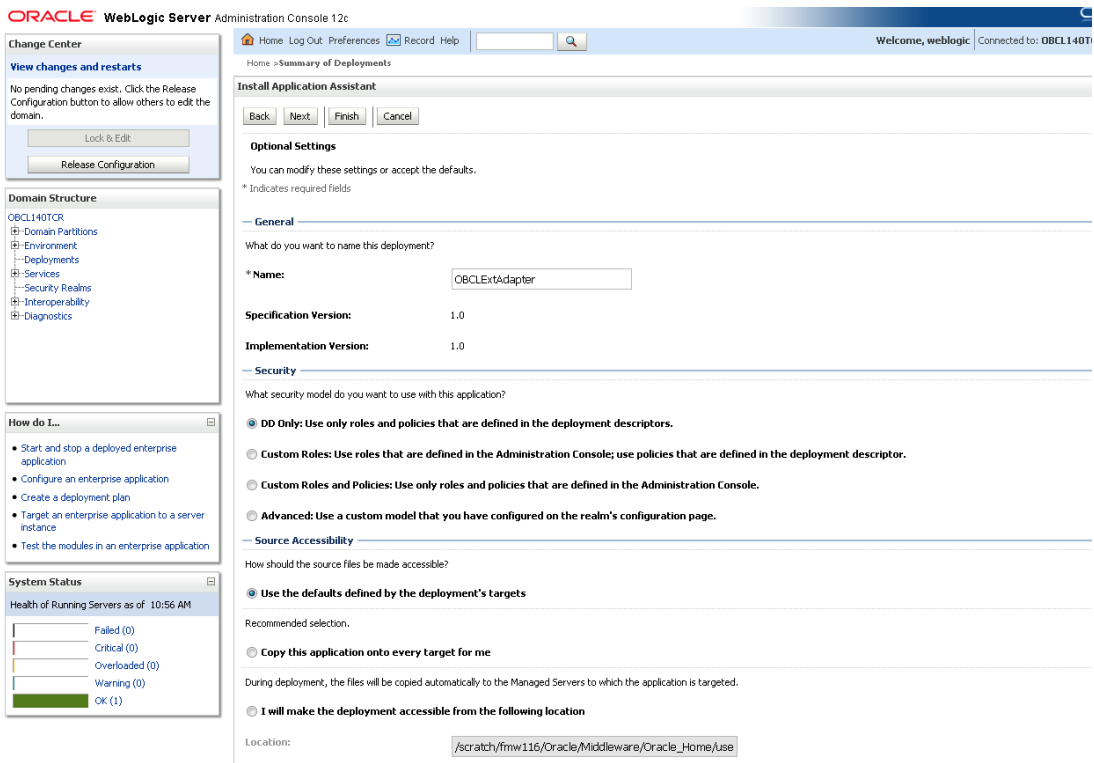
12. Click 'Next'.

The following screen is displayed.



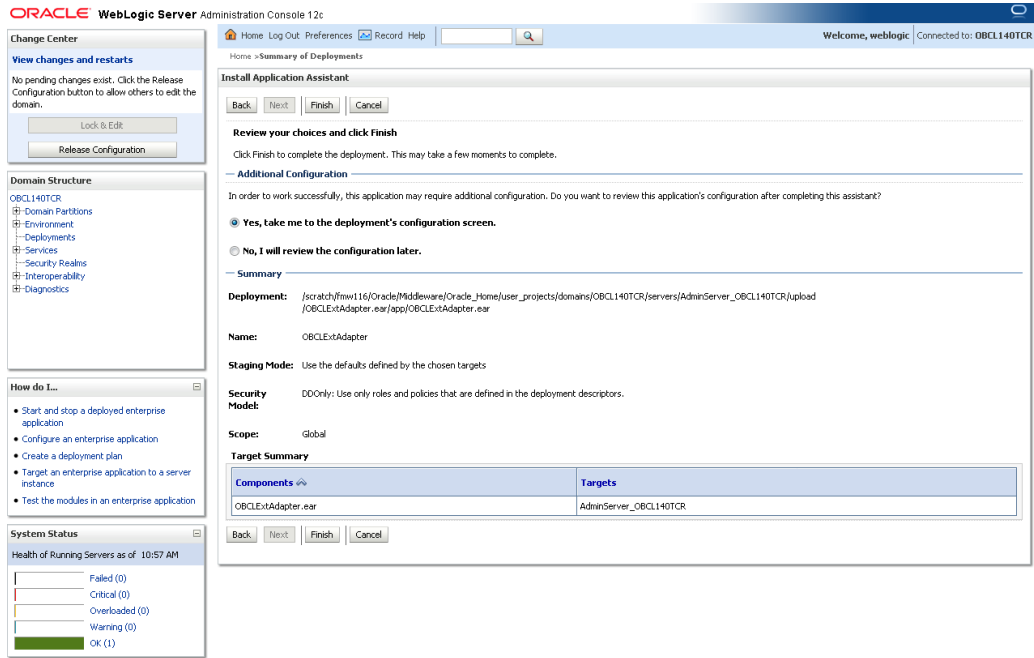
13. Select the target of the application. You can choose the server 'AdminServer' or 'Managed Server(s)'.

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



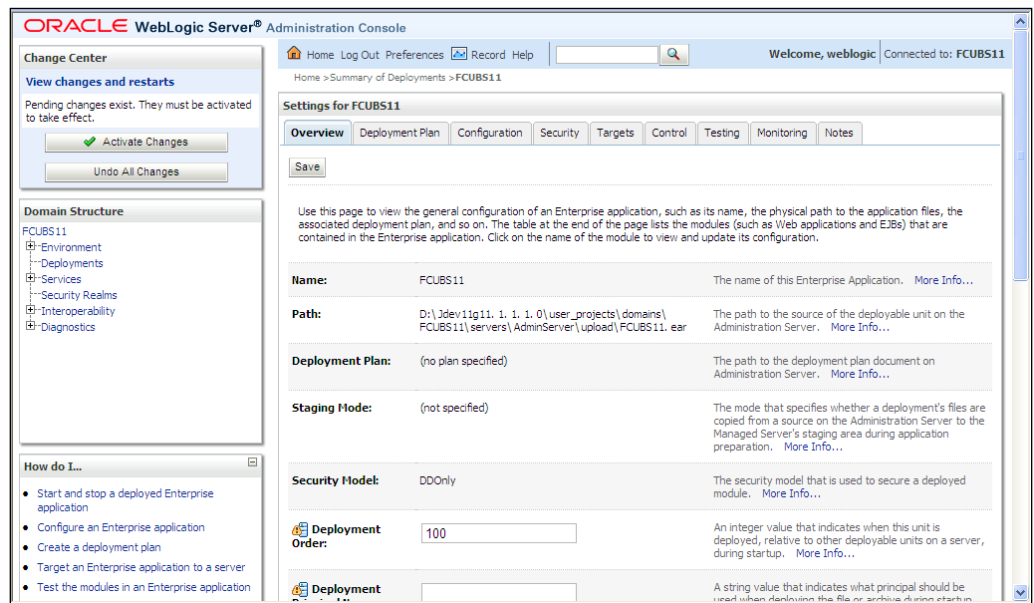
15. Check the deployment name.

The remaining portion of the screen is shown below:



16. Click 'Finish' button.

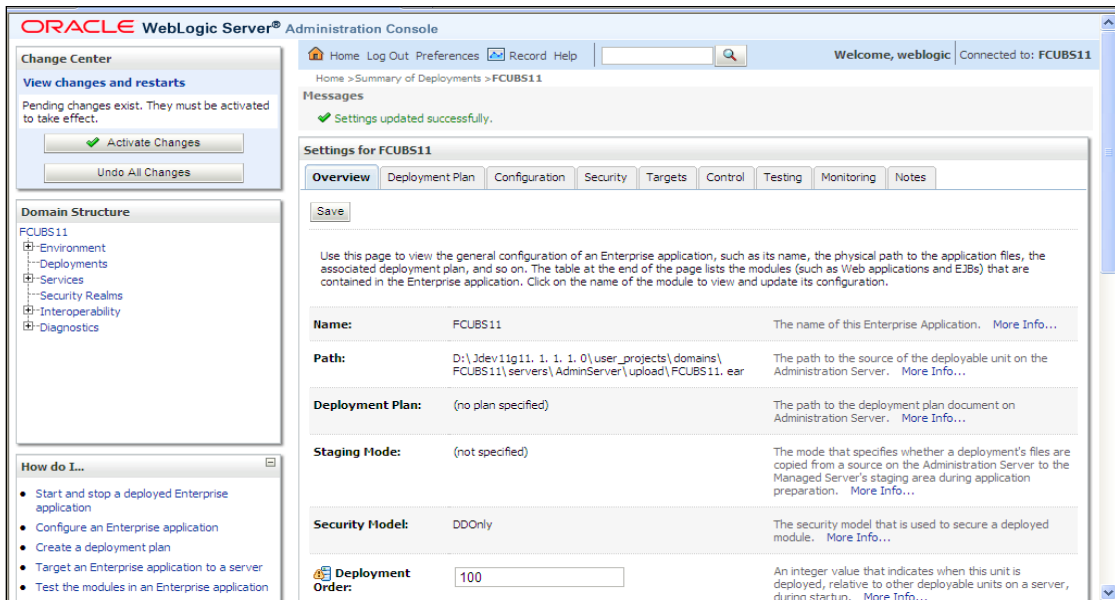
The following screen is displayed.



17. Click 'Save' button.

The message 'Settings updated successfully' is displayed.





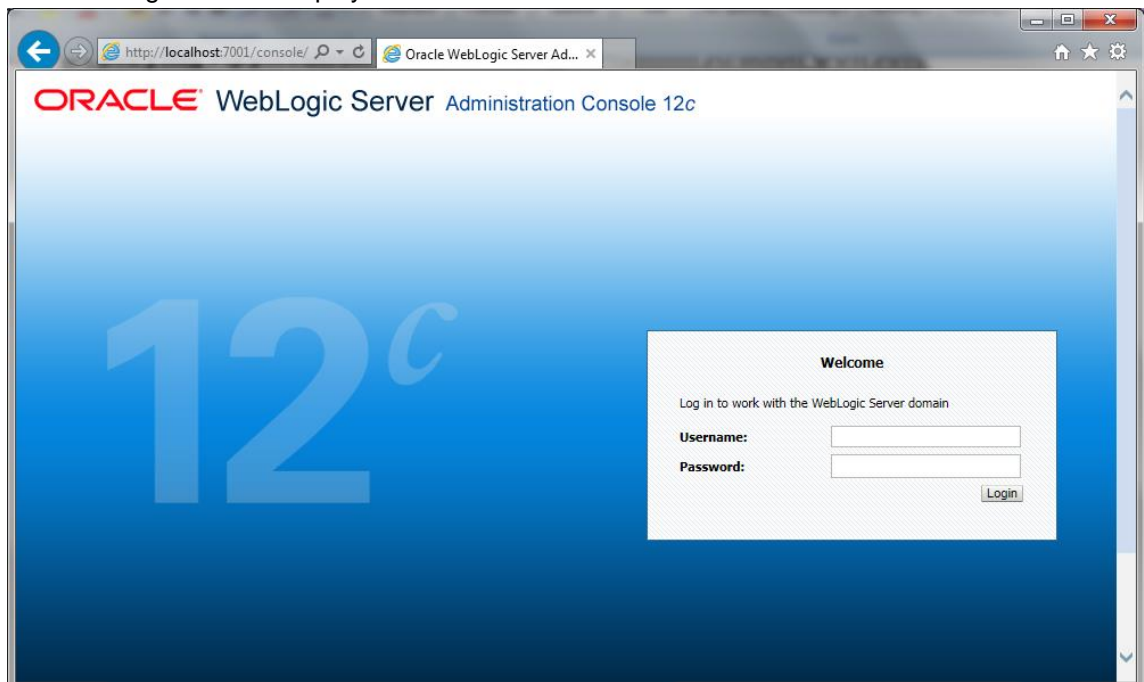
18. Click 'Activate Changes' button on the left pane. The message 'All the changes have been activated. No restarts are necessary' is displayed.

### 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:

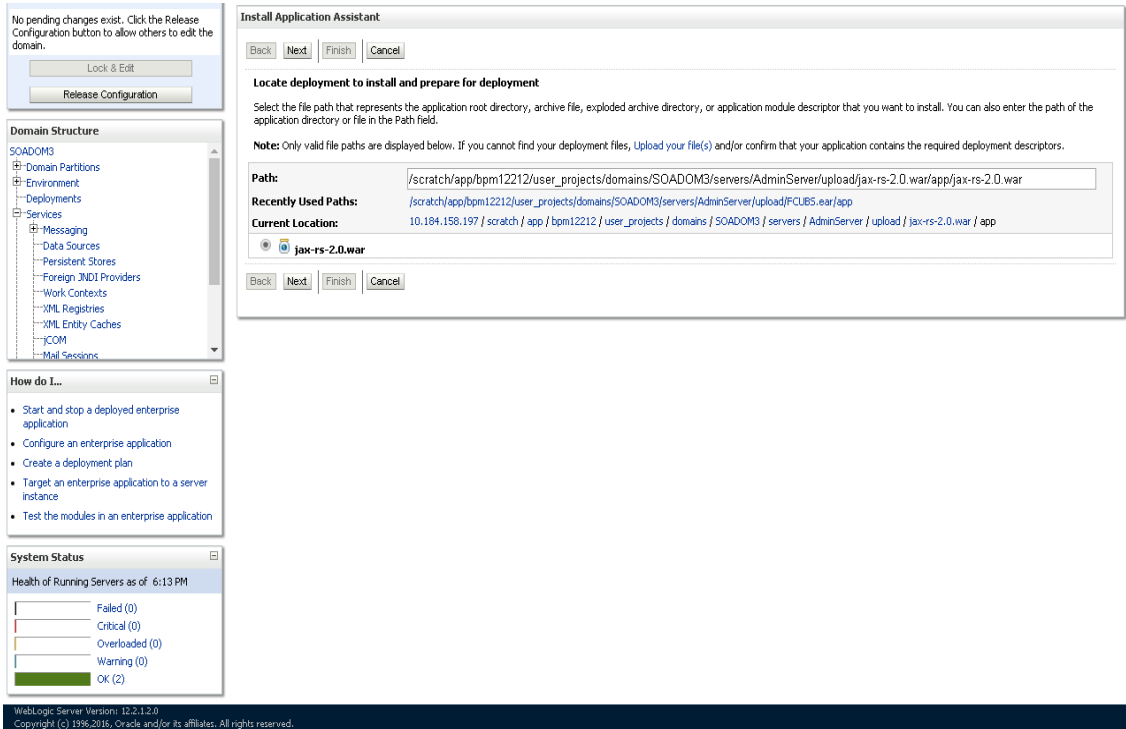


2. Specify the WebLogic administrator user name and password. Click 'Log In'.

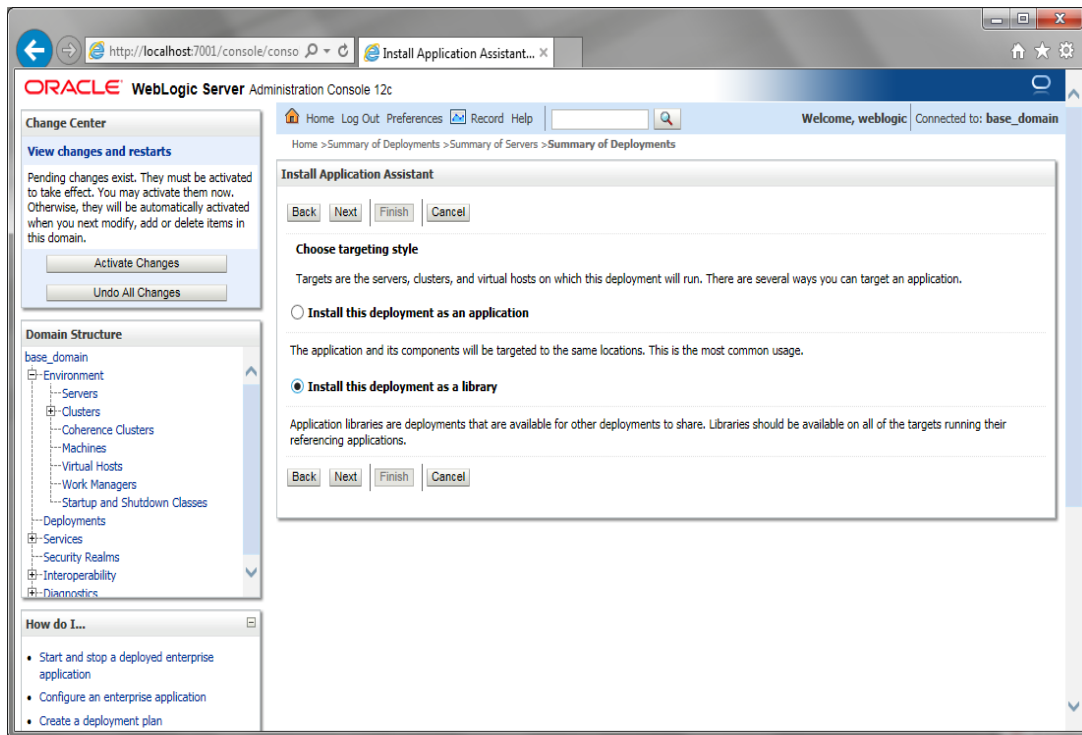
The following screen is displayed:

3. Click Install button.

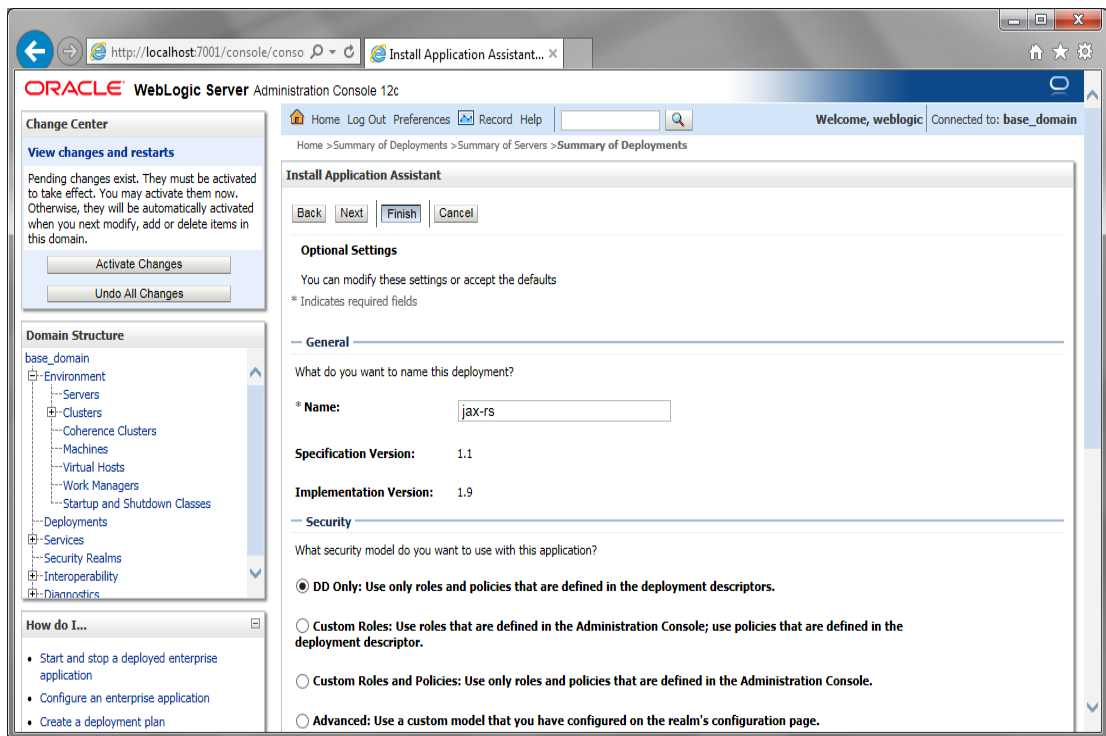
Name	State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
oracle.businessstor(1.0,12.2.1.0.0)	Active		Library	AdminServer_payments, pm_server1	Global		100
oracle.domain(1.0,12.2.1.0.0)	Active		Library	AdminServer_payments, pm_server1	Global		100
oracle.domain.webapp(1.0,12.2.1.0.0)	Active		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
emagentbsimplr_jar(12.4,12.1.0.4.0)	Active		Library	AdminServer_payments	Global		100
emagentbsimpl_jar(12.4,12.1.0.4.0)	Active		Library	AdminServer_payments	Global		100
emagent_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
emcorebsdk_jar(11.2.0.1.0,12.1.0.0.0)	Active		Library	AdminServer_payments	Global		100
emcorepbe_jar	Active		Library	AdminServer_payments	Global		100
emcoresdkimpl_jar(11.2.0.1.0,12.1.0.0.0)	Active		Library	AdminServer_payments	Global		100
emcoresdk_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_common(12.4,12.1.0.4.0)	Active		Library	AdminServer_payments	Global		100
em_core_rpc_pool_jar	Active		Library	AdminServer_payments	Global		100



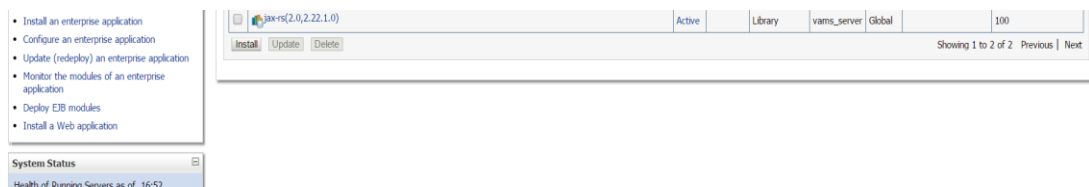
- Navigate and select jersey bundle under the path “w\server\common\deployable-libraries\jax-rs-2.0.war” and click next.



- 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.

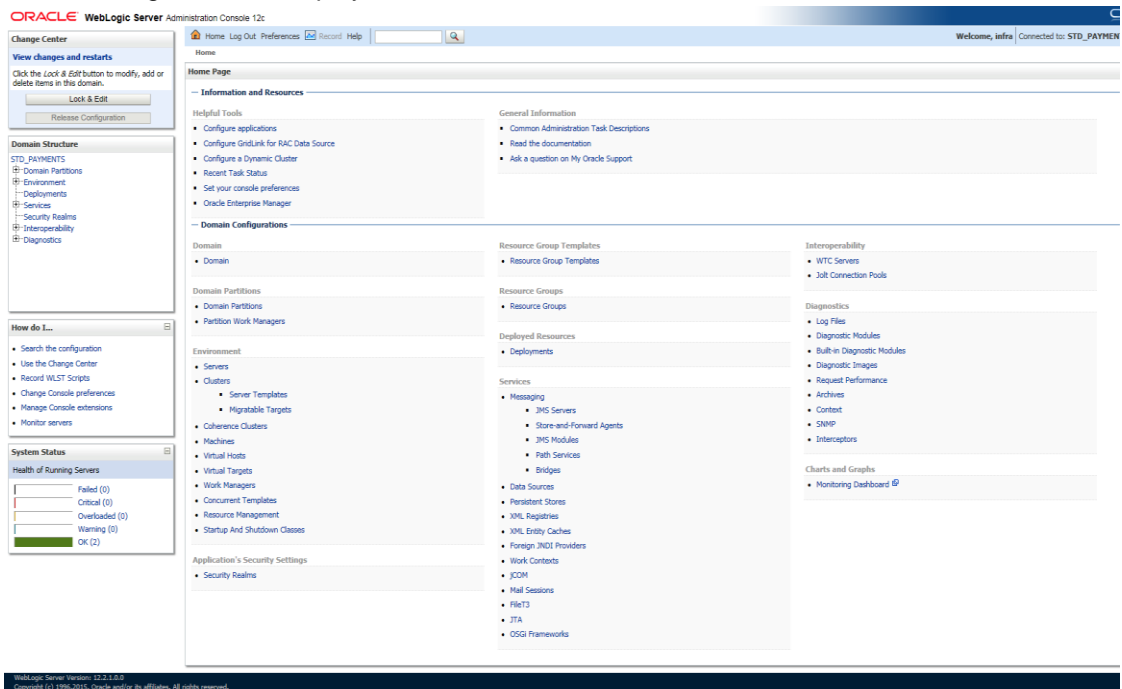
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser. Eg: <http://10.10.10.10:1001/console>

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 shows the application name, its state (Active), health (OK), type (Library, Resource Adapter, Web Application, Enterprise Application), targets, scope (Global), and deployment order.

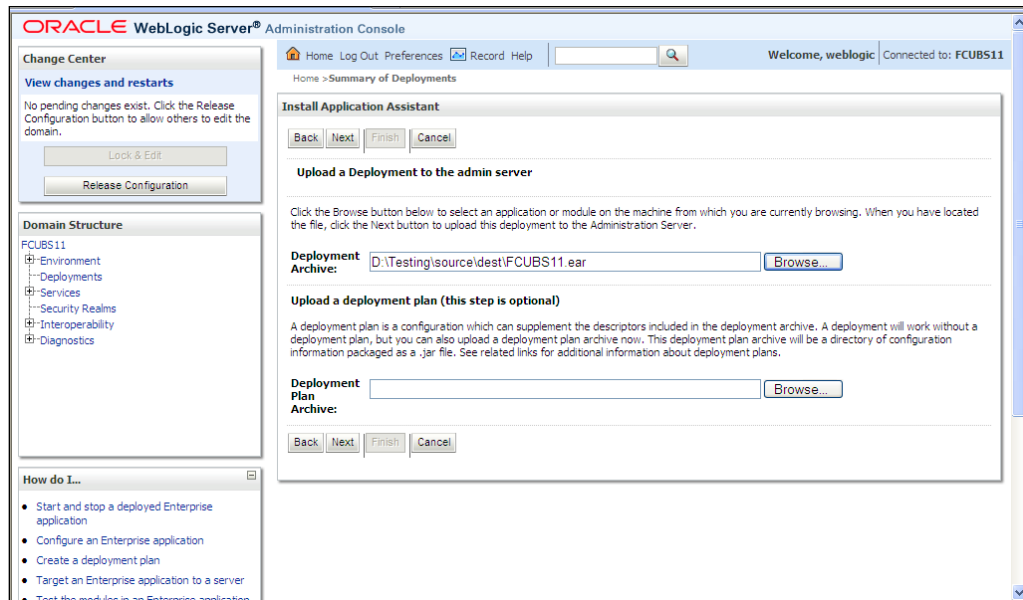
- Click 'Install' button.

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:' field with 'D:\' entered. There is also a 'Recently Used Paths:' field with '(none)' and a 'Current Location:' field with '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', 'BmDbgs', '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'.

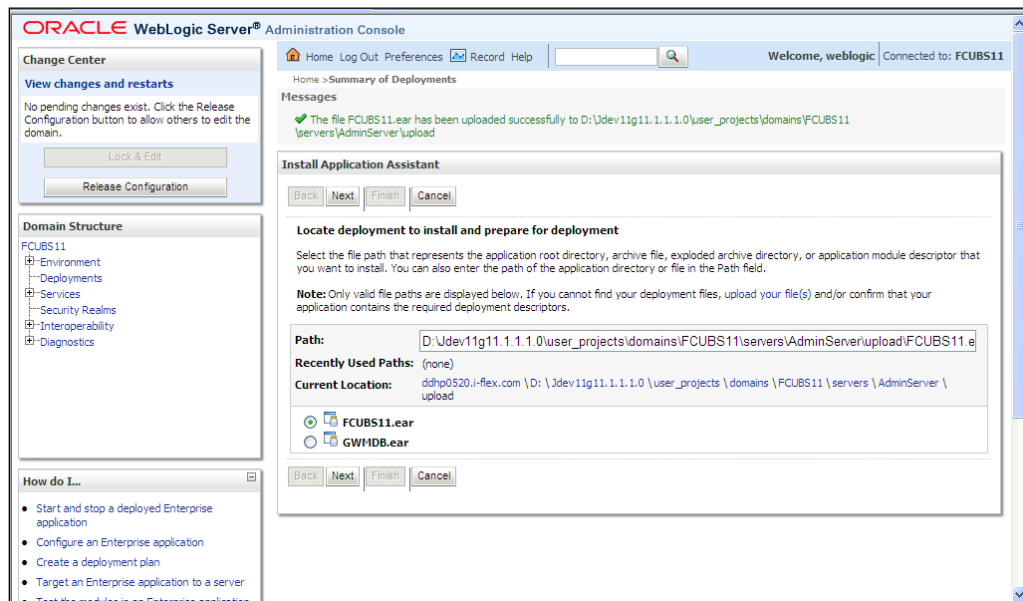
The following screen is displayed:



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

9. Click 'Next'.

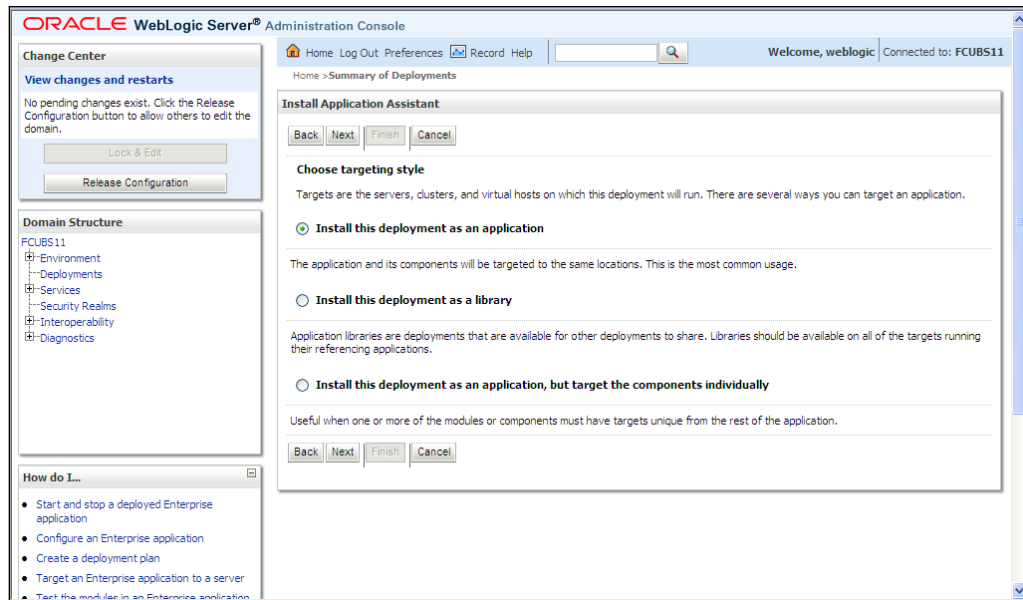
The following screen is displayed.



10. Select the application OBELCM EAR from the list.

11. Click 'Next'.

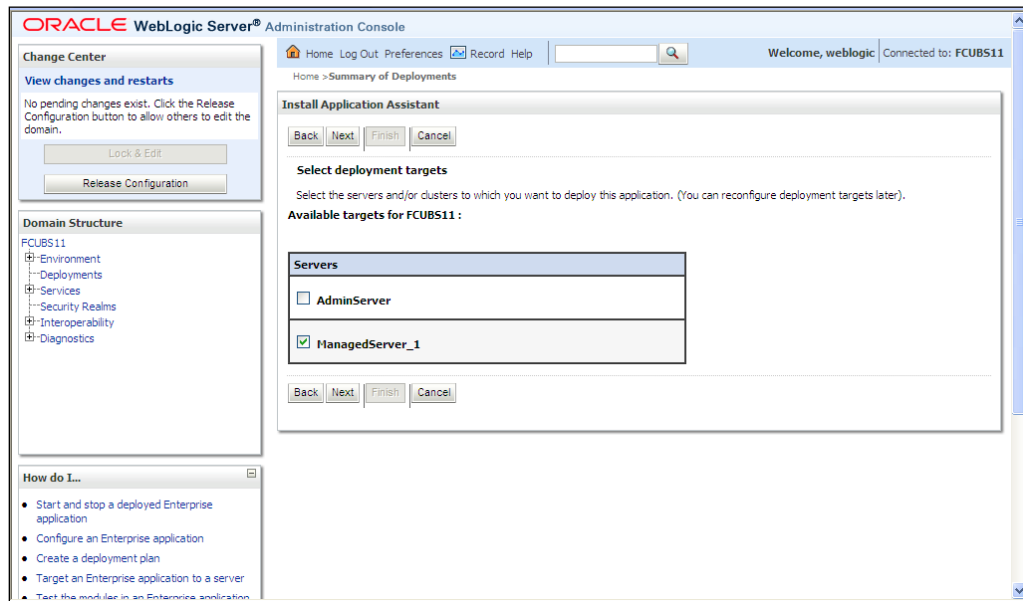
The following screen is displayed:



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

13. Click 'Next'.

The following screen is displayed

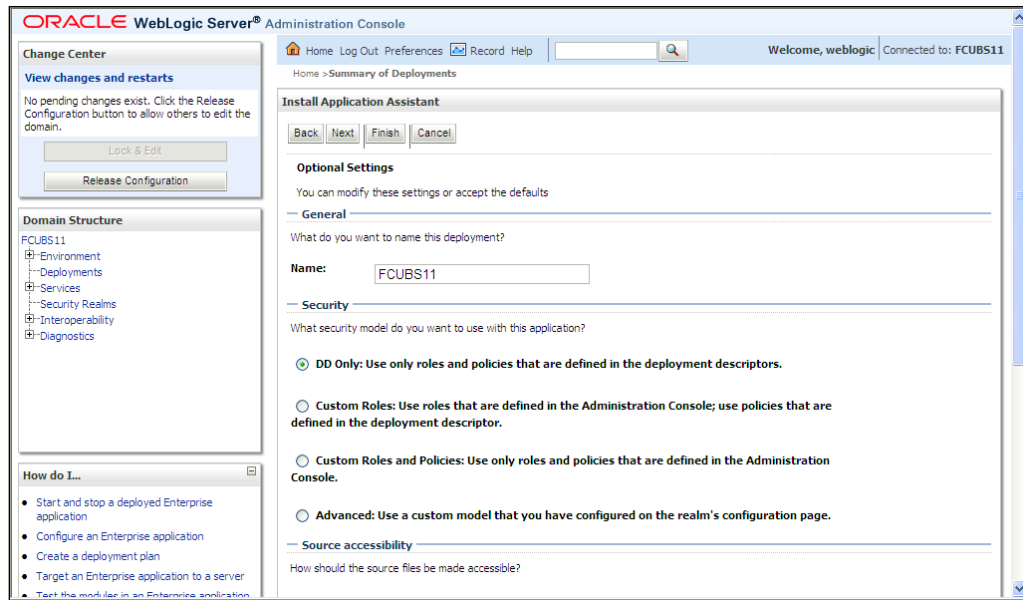


14. Select the target of the application. You can choose the server 'AdminServer' or 'Managed Server(s)'.

15. Click 'Next'.

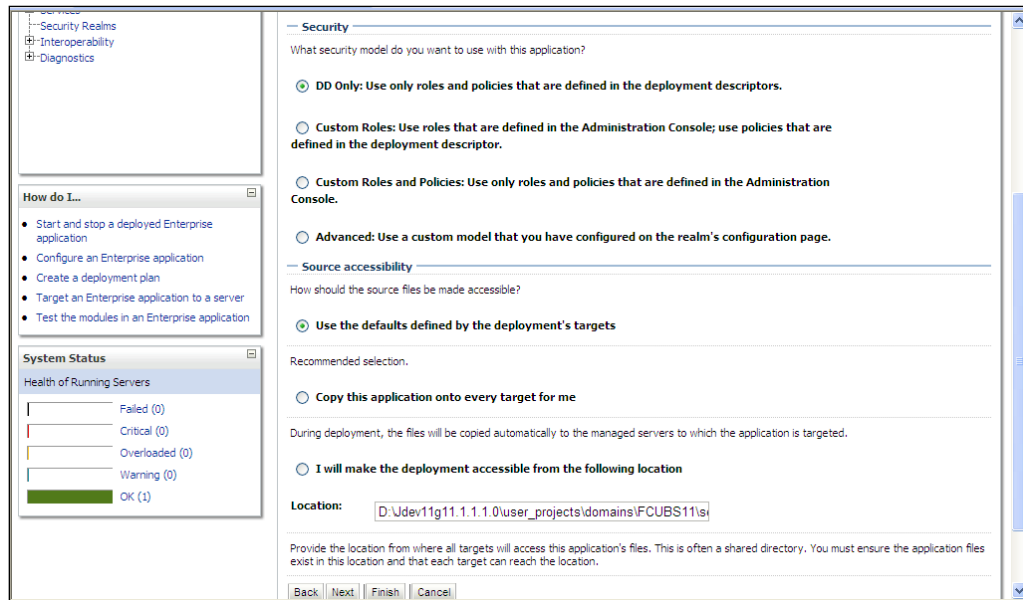
The following screen appears.





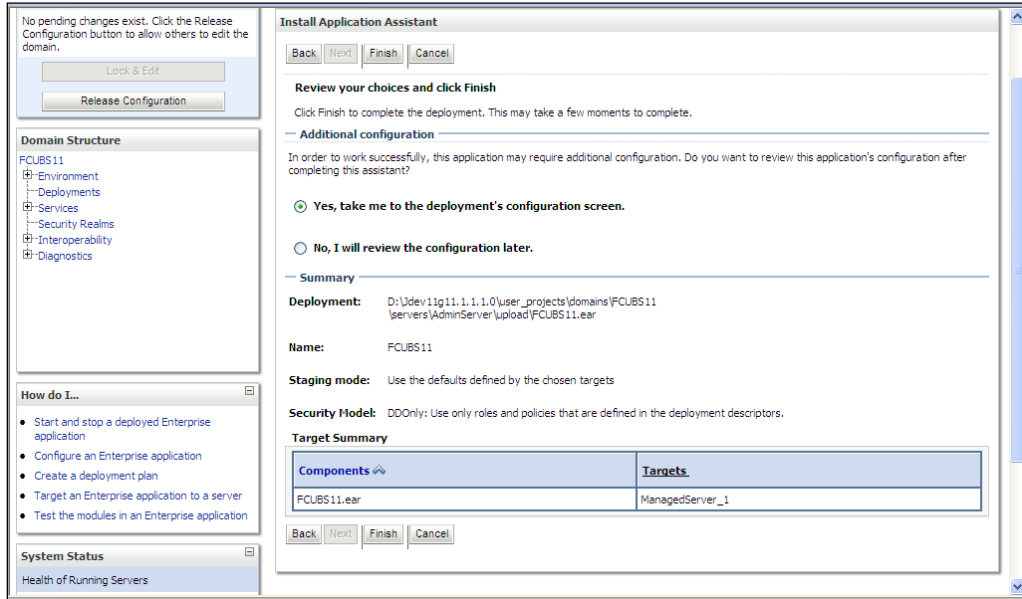
16. Check the deployment name.

The remaining portion of the screen is shown below:



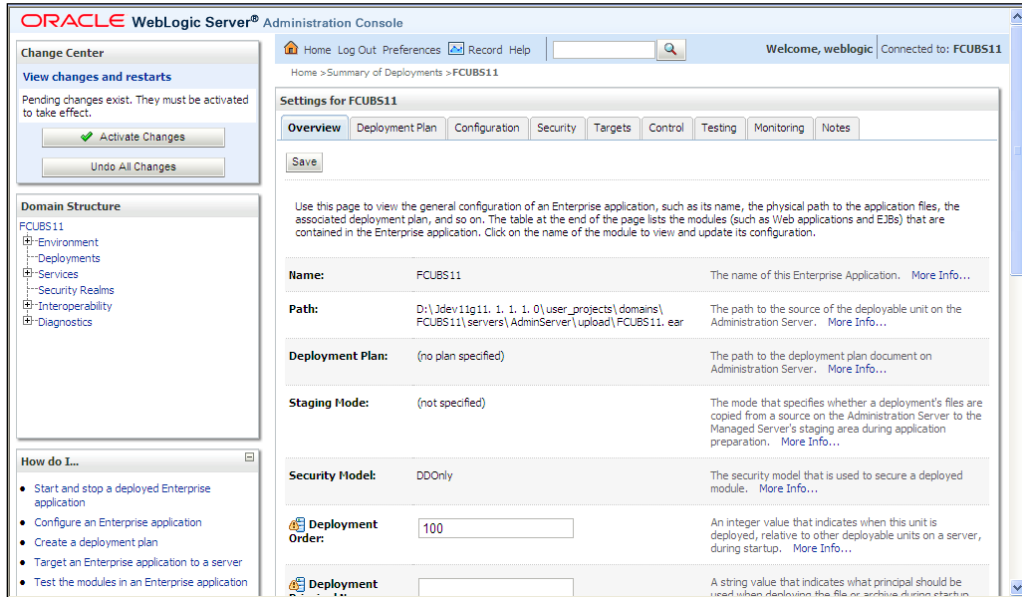
17. Check whether the deployment location is accessible or not.

The following screen is displayed.

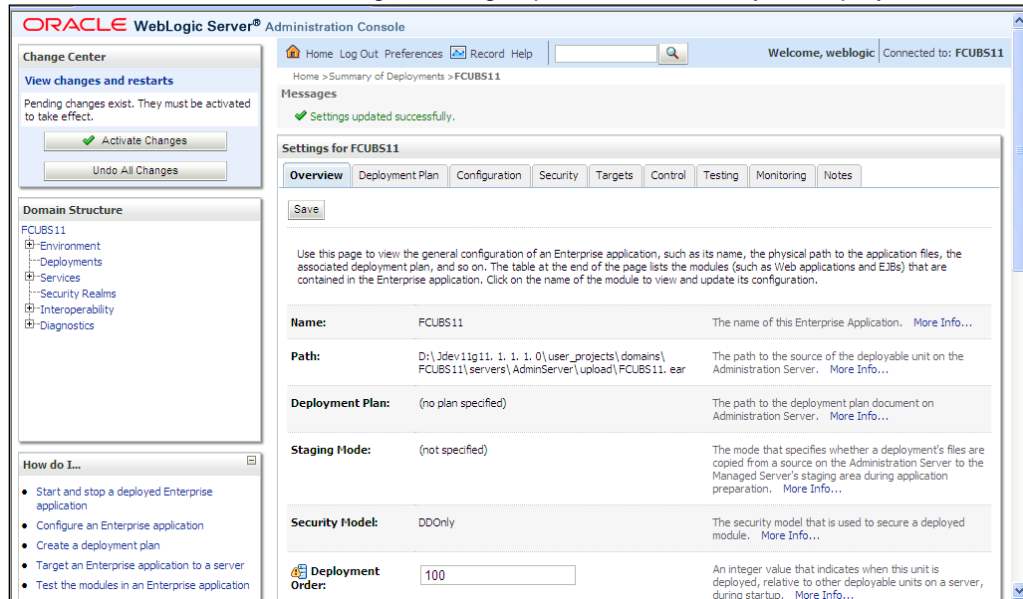


18. Click 'Finish' button. The following screen is displayed.

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

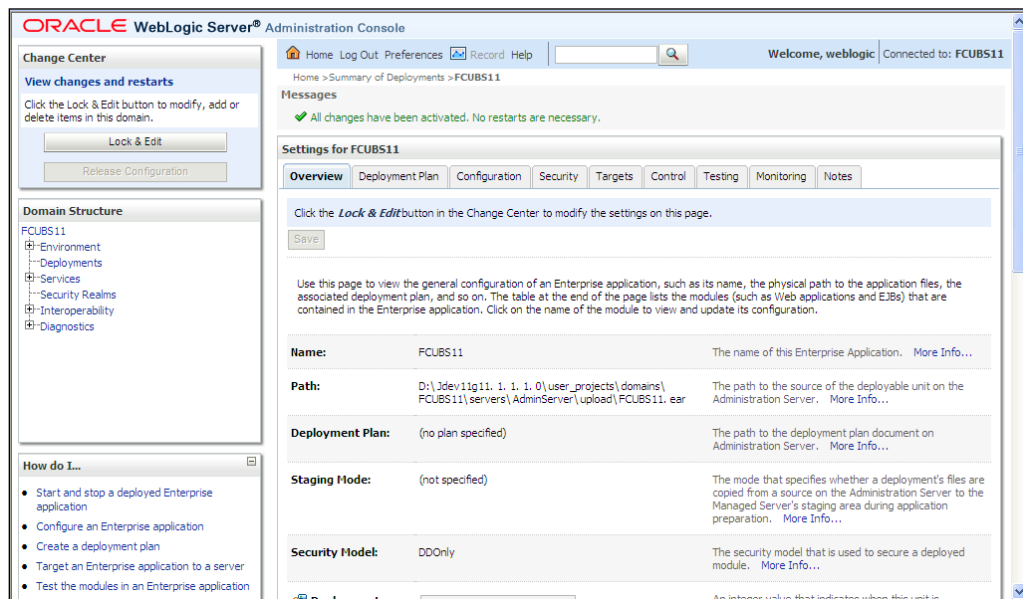


19. Click 'Save' button. The message 'Settings updated successfully' is displayed.

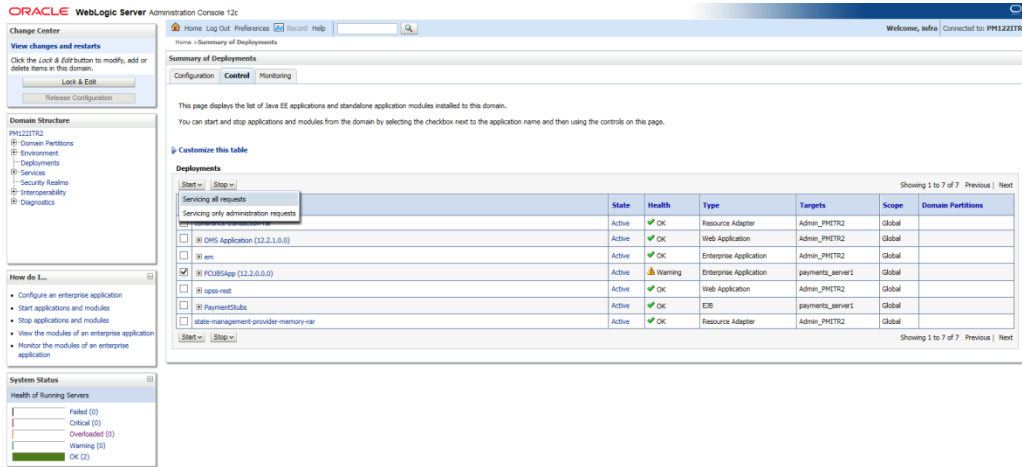


20. Click 'Activate Changes' button on the left pane. The message 'All the changes have been activated. No restarts are necessary' is displayed.

The screen is given below:

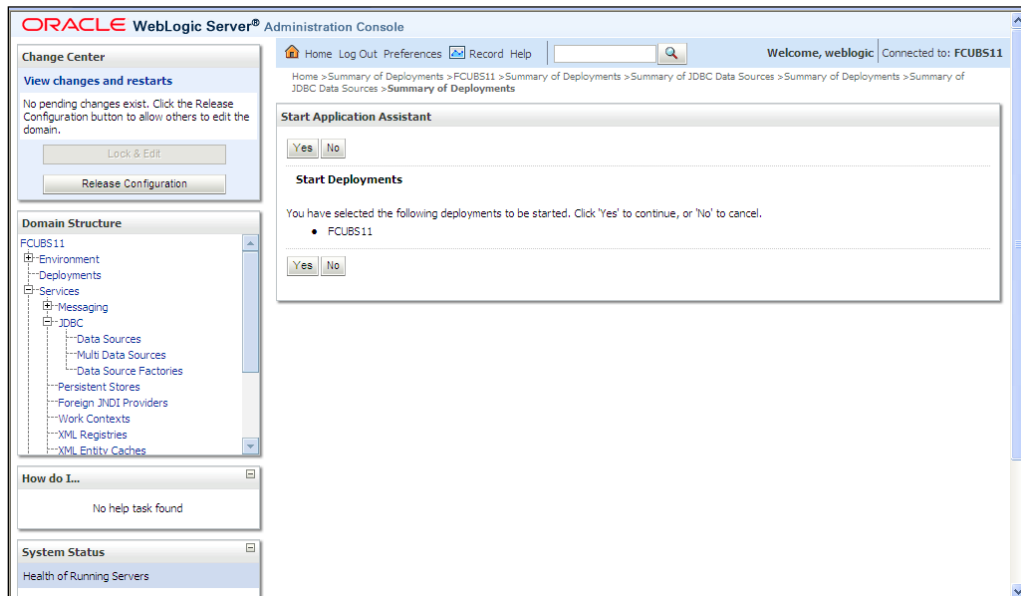


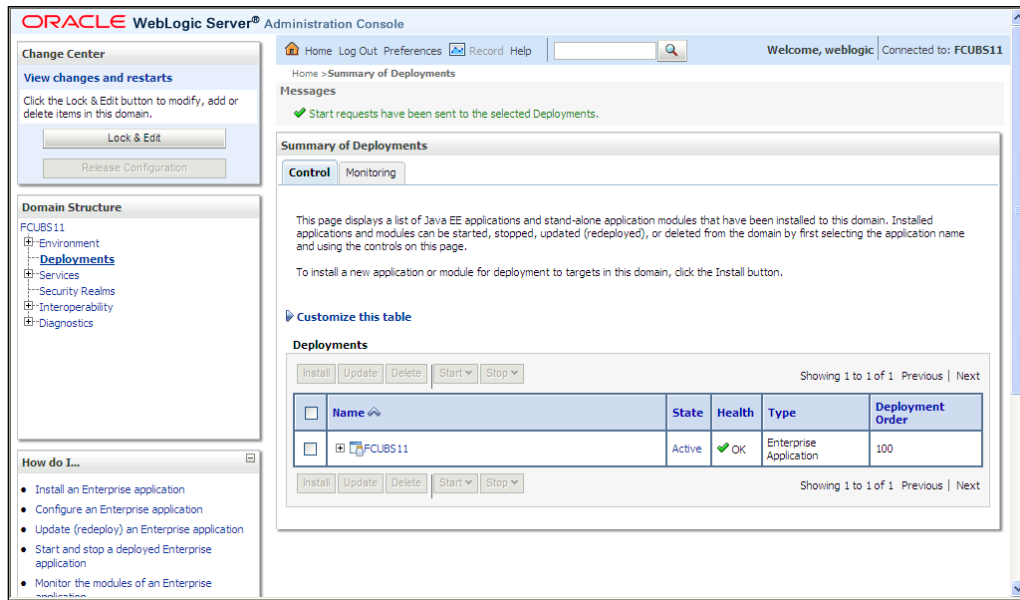
21. Click 'Deployment' on the left pane. Switch to Control tab .The following screen is displayed.



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

The following screen is displayed.





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

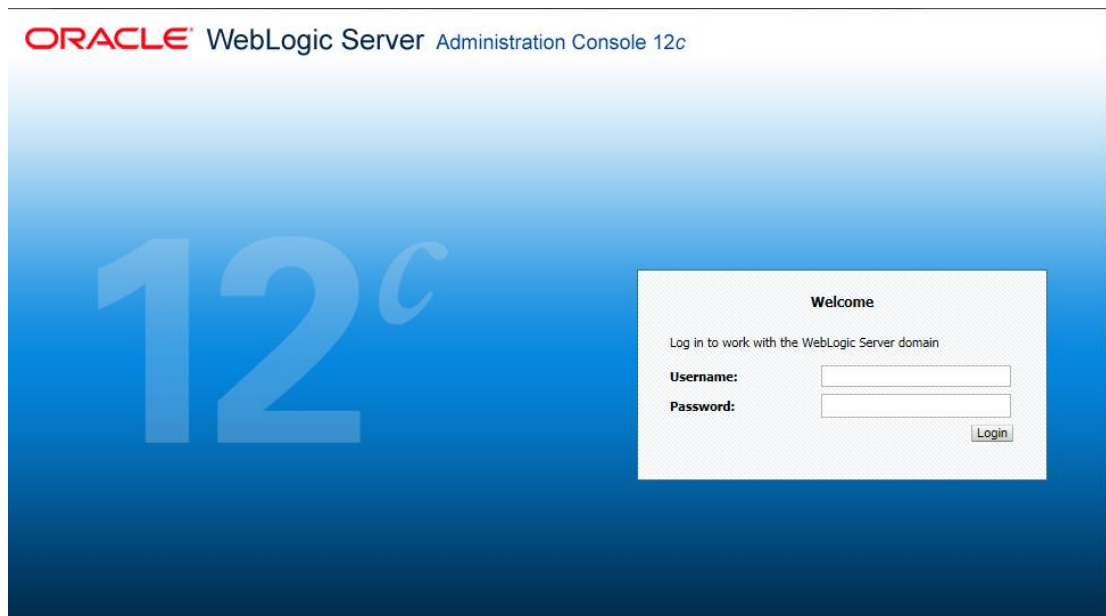
This completes the deployment process.

### 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.

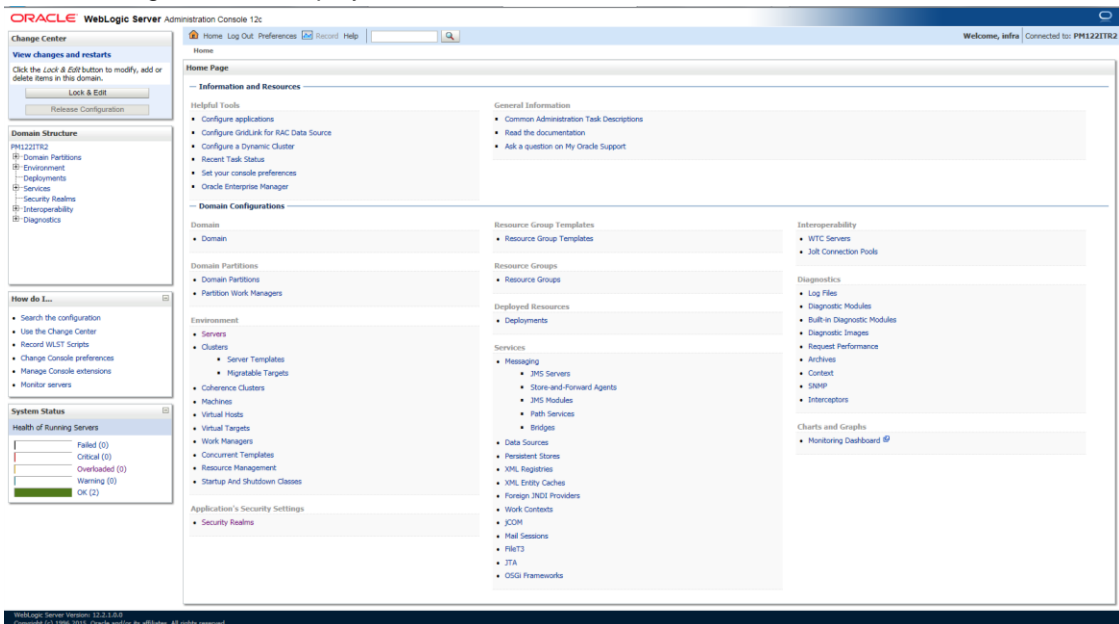
1. Launch Administrative Console of WebLogic application server. You can launch this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser. Eg: <http://10.10.10.10:1001/console>

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.

The screenshot shows the Oracle WebLogic Server Administration Console. On the left, the 'Change Center' panel has the 'Lock & Edit' button highlighted. The main content area is titled 'Summary of Deployments' and contains a table of installed applications and modules.

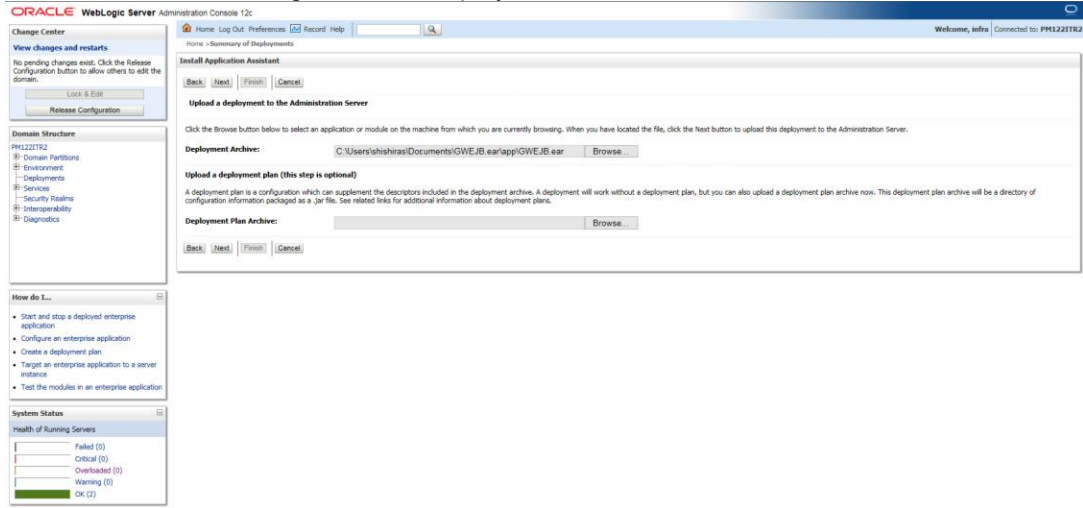
Name	State	Health	Type	Targets	Scope	Domain Partitions	Previous	Deployment Order
adf.oracle.businesseditor(1.0,12.2.1.0.0)	Active		Library	AdminServer_payments, pm_server1	Global		100	
adf.oracle.domain(1.0,12.2.1.0.0)	Active		Library	AdminServer_payments, pm_server1	Global		100	
adf.oracle.domain.webapp(1.0,12.2.1.0.0)	Active		Library	AdminServer_payments, pm_server1	Global		100	
coherence-transaction-iar	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	
emagentdkmpjrv_jar(12.4,12.1.0.4.0)	Active		Library	AdminServer_payments	Global		100	
emagentdkmpj_jar(12.4,12.1.0.4.0)	Active		Library	AdminServer_payments	Global		100	
emagentdb_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	
emcoretask_jar(11.2.0.1.0,12.1.0.0.0)	Active		Library	AdminServer_payments	Global		100	
emcorepb_jar	Active		Library	AdminServer_payments	Global		100	
emcoresdkmpj_jar(11.2.0.1.0,12.1.0.0.0)	Active		Library	AdminServer_payments	Global		100	
emcoresd_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_common(12.4,12.1.0.4.0)	Active		Library	AdminServer_payments	Global		100	
em_core_jsp_jar	Active		Library	AdminServer_payments	Global		100	

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

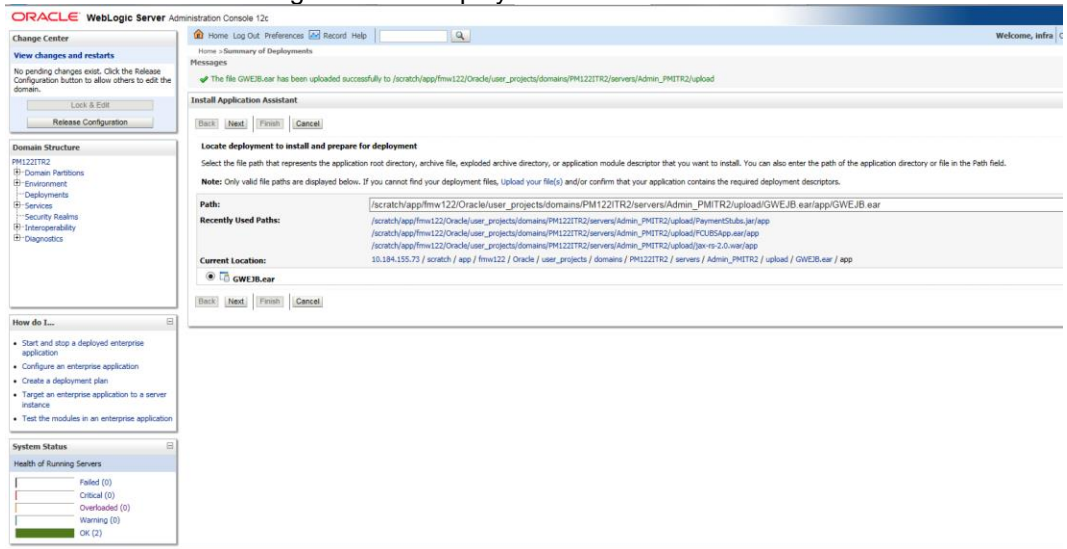
The screenshot shows the 'Install Application Assistant' dialog box in the Oracle WebLogic Server Administration Console. The 'Path' field is set to 'D:\'. Below the path field, a file explorer view shows the contents of the D: drive, including folders like '11.0', '9NT 1272', 'APPOINT SOFTWARE SOLUTIONS', 'backup', 'bea', 'bea11g', 'bea\_100', 'BrndBgs', '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)'.

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



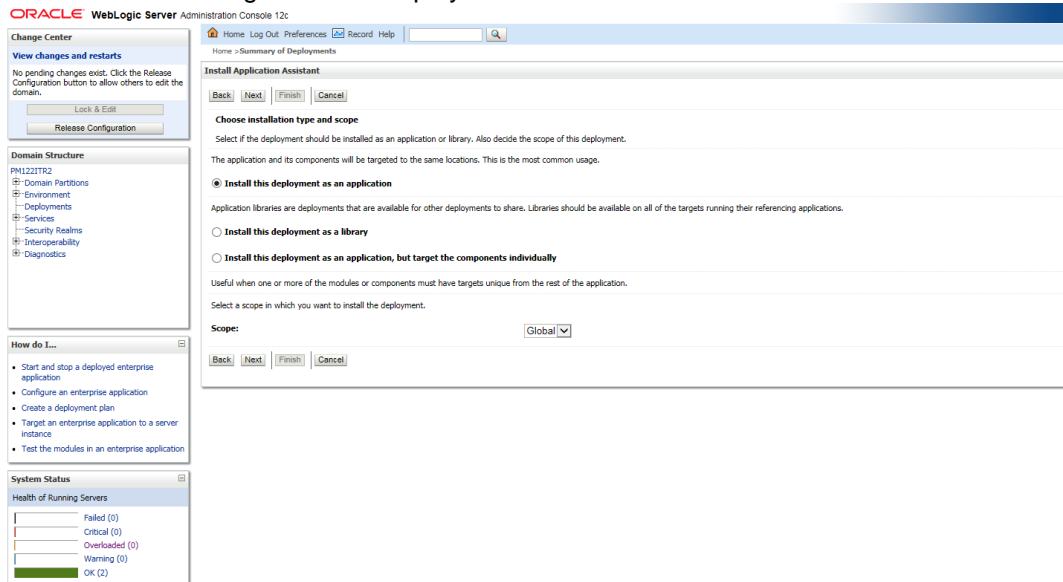
8. Specify the EAR file path. You can use the 'Browse' button to locate the file.  
9. Click 'Next'. The following screen is displayed.



10. Select the application from the list.



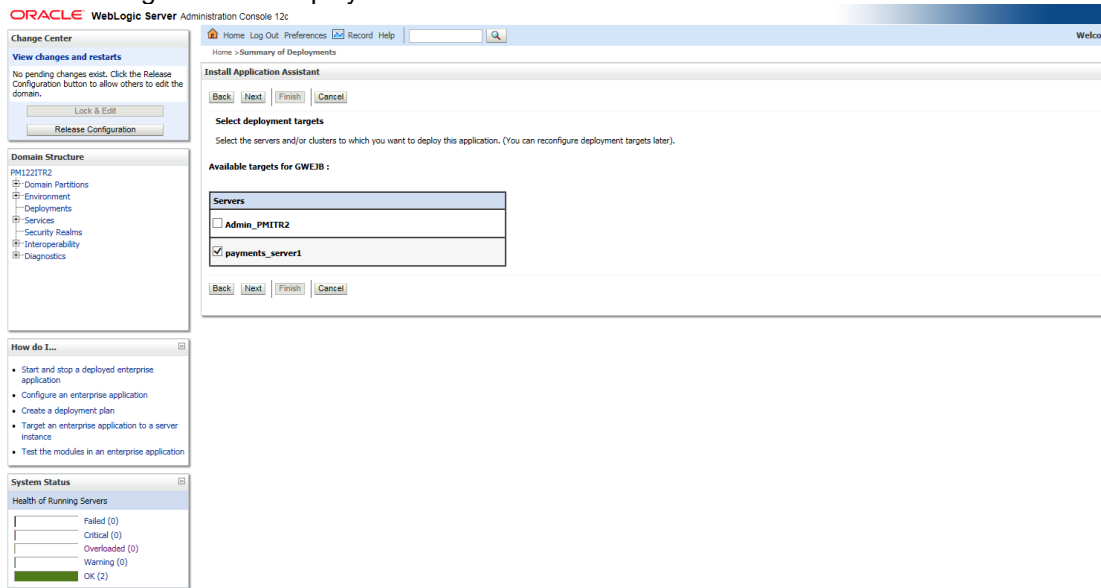
11. Click 'Next'. Following screen is displayed:



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

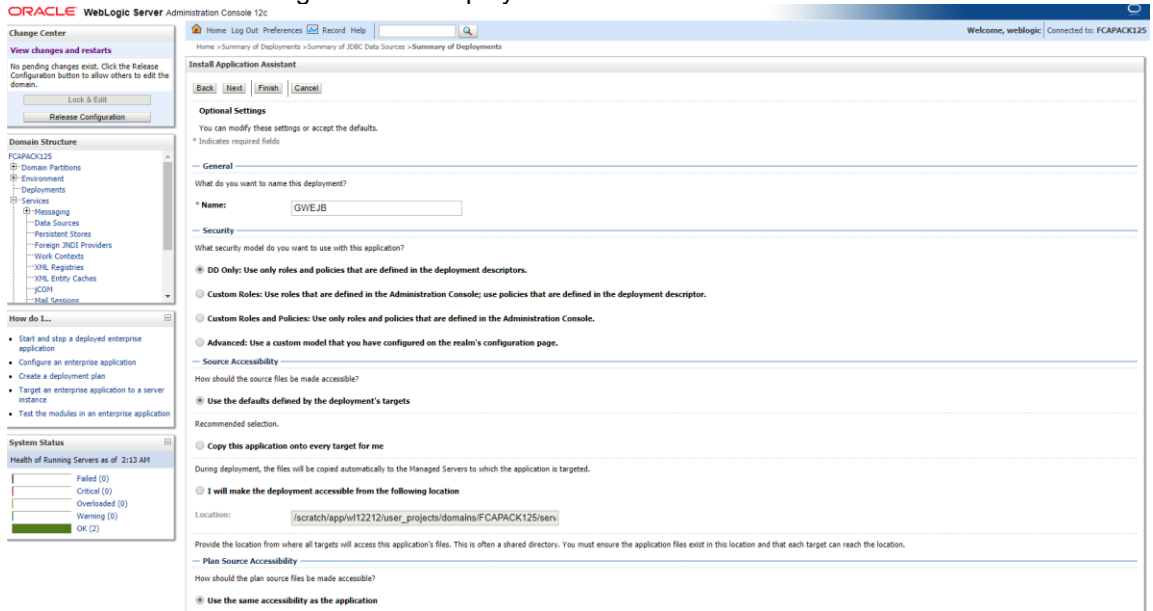
13. Click 'Next'.

The following screen is displayed



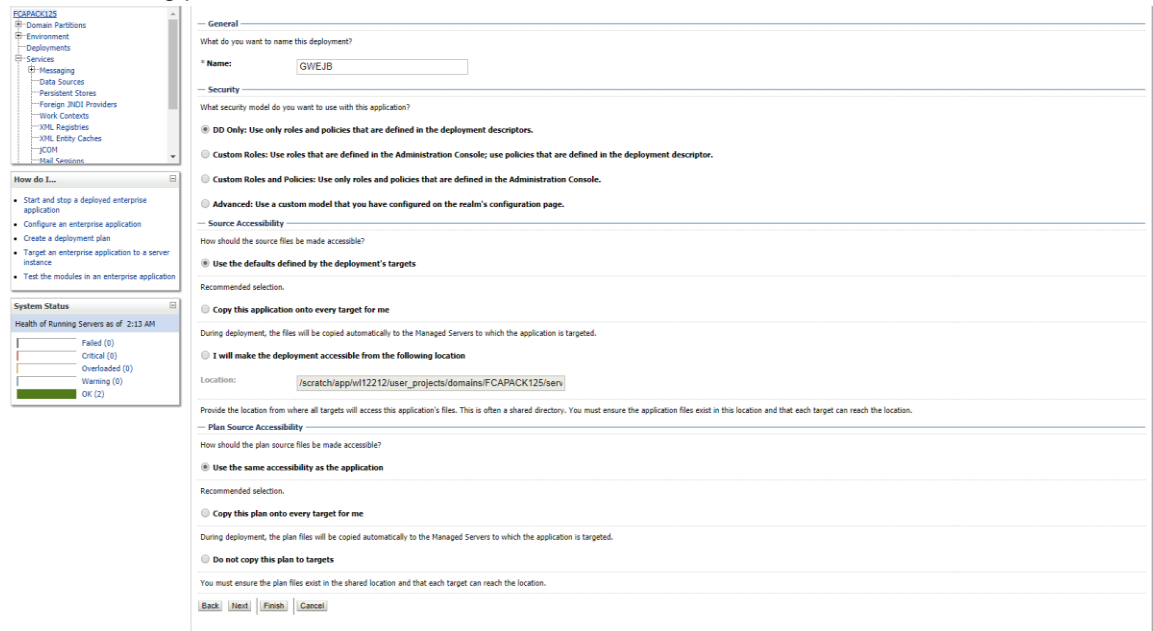
14. Select the target of the application. You can choose the server 'AdminServer' or 'Managed Server(s)'.

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 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 main content area displays a detailed configuration overview with various parameters and their descriptions. At the bottom, there is a "Modules and Components" section showing a list of modules.

Name	Value	Description
Name	GWEJB	The name of this enterprise application.
Scope	Global	Specifies if the enterprise application is accessible within the domain, a partition, or a resource template.
Archive Version	12.2.0.0.0	The archive version, specified from the manifest or overridden during deployment.
Path	/scratch/app/fmw122/Oracle/user_projects/domains/PH122TR2/servers/Admin_PMTIR2/upload/GWEJB.ear/app/GWEJB.ear	The path to the source of the deployable unit on the Administration Server.
Deployment Plan	(no plan specified)	The path to the deployment plan document on the Administration Server.
Staging Mode	(not specified)	Specifies whether a deployment's files are copied from a source on the Administration Server's staging area during application preparation.
Plan Staging Mode	(not specified)	Specifies whether an application's deployment plan is copied from a source on the Administration Server's staging area during application preparation.
Security Model	DDOnly	The security model that is used to secure a deployed module.
Deployment Order	100	An integer value that indicates when this unit is deployed, relative to other deployable units during startup.
Deployment Principal Name		A string value that indicates the principal that should be used when deploying the file or arc and shutdown. This principal will be used to set the current subject when calling out into interfaces such as ApplicationLifecycleListener. If no principal name is specified, then the arc will be used.

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

The screenshot shows the Oracle WebLogic Server Administration Console. The left-hand navigation pane is open to the 'Change Center' section, where the 'Activate Changes' button is highlighted. The main content area displays the 'Settings for GWEJB(12.2.0.0.0)' page. At the top, a message indicates 'Settings updated successfully.' Below this, there are tabs for 'Overview', 'Deployment Plan', 'Configuration', 'Security', 'Targets', 'Control', 'Testing', 'Monitoring', and 'Notes'. The 'Overview' tab is selected, showing a list of configuration parameters for the GWEJB application, such as Name, Scope, Archive Version, Path, Deployment Plan, Staging Mode, Plan Staging Mode, Security Model, and Deployment Order. A 'Save' button is visible at the top of the configuration area.

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 shows the Oracle WebLogic Server Administration Console after the 'Activate Changes' button has been clicked. The 'Messages' section now displays 'All changes have been activated. No restarts are necessary.' In the left-hand navigation pane, the 'Release Configuration' button is highlighted. The main content area remains on the 'Settings for GWEJB(12.2.0.0.0)' page, showing the same configuration parameters as in the previous screenshot. The 'Save' button is still visible at the top of the configuration area.

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

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, infra Connected to

Home > Summary of Deployments > GWEJB(12.2.0.0.0) > 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

State	Health	Type	Targets	Scope	Domain Partition
Active	OK	Resource Adapter	Admin_PM1TR2	Global	
Active	OK	Web Application	Admin_PM1TR2	Global	
Active	Warning	Enterprise Application	payments_server1	Global	
Prepared	OK	Enterprise Application	payments_server1	Global	
Active	OK	Web Application	Admin_PM1TR2	Global	
Active	OK	EJB	payments_server1	Global	
Active	OK	Resource Adapter	Admin_PM1TR2	Global	

Showing 1 to 8 of 8 Prev

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 Log Out Preferences Record Help

Welcome, infra Connected to

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

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

WebLogic Server Version: 12.2.1.0.0  
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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"/> FCMApp (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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