

Deploying Oracle FLEXCUBE Application on WebLogic  
Oracle FLEXCUBE Universal Banking  
Release 14.7.1.0.0  
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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.

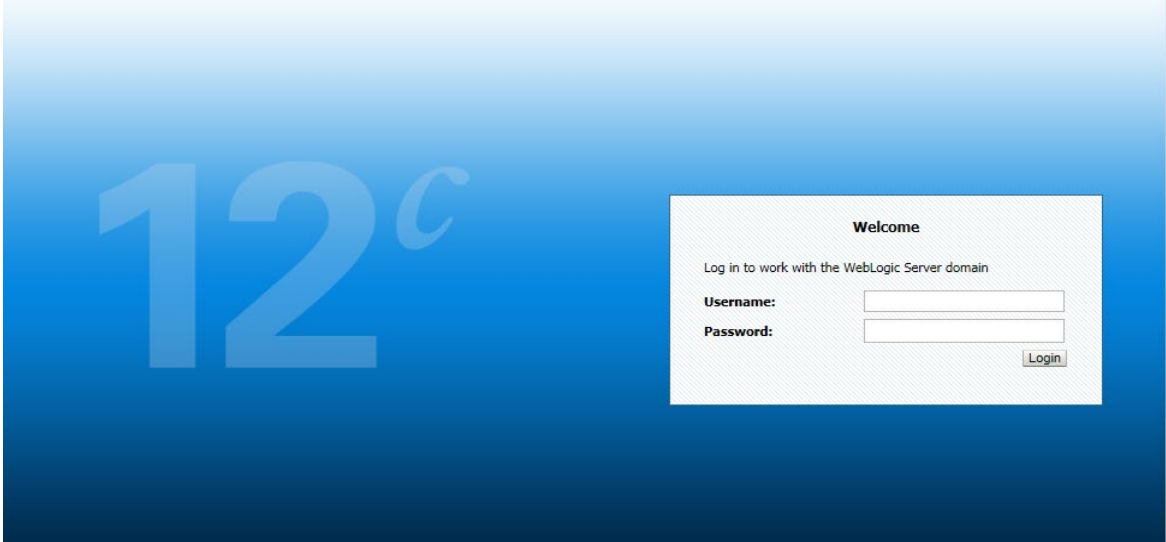
### 1.3.1 Deploying Integration Adapter EAR from WebLogic Administration Console

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

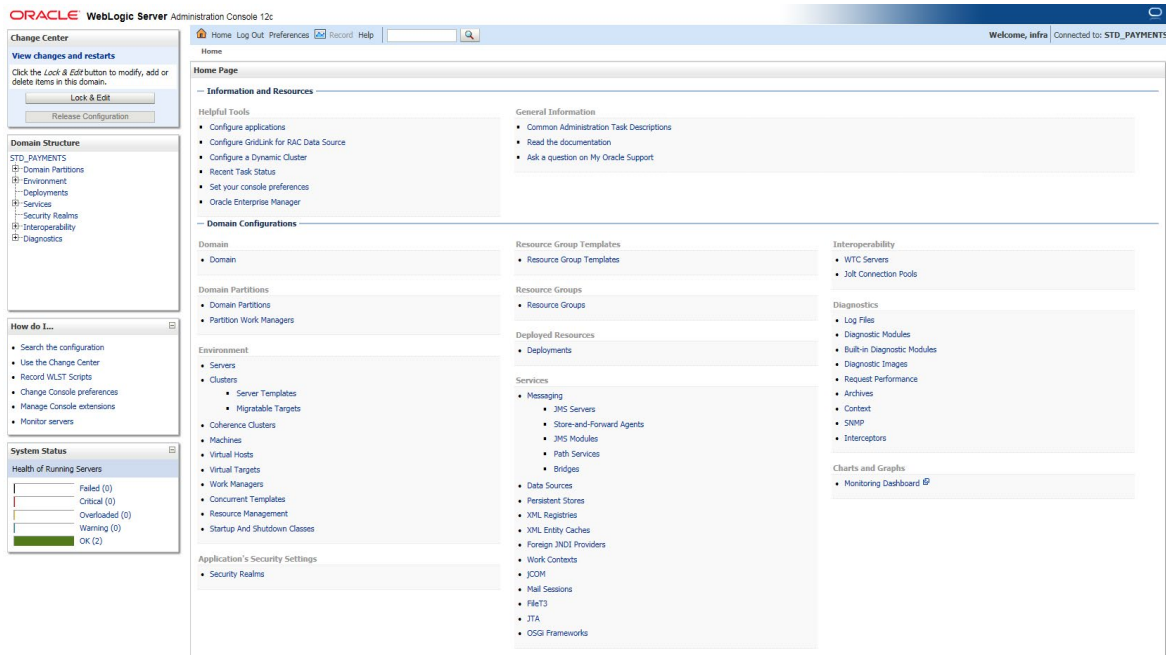
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser.

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 screenshot shows the Oracle WebLogic Server Administration Console. The main area displays the 'Summary of Deployments' page. A table lists installed applications and modules. The table has columns: Name, State, Health, Type, Targets, Scope, Domain Partitions, and Deployment Order. The table shows various JAR files and a 'DMS Application'.

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:

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'. It contains a text box for 'Path:' with the value 'D:\'. Below this, there is a section for 'Recently Used Paths:' (none) and 'Current Location:' (ddhp0520.i-flex.com \D:). A file tree view shows the following structure:

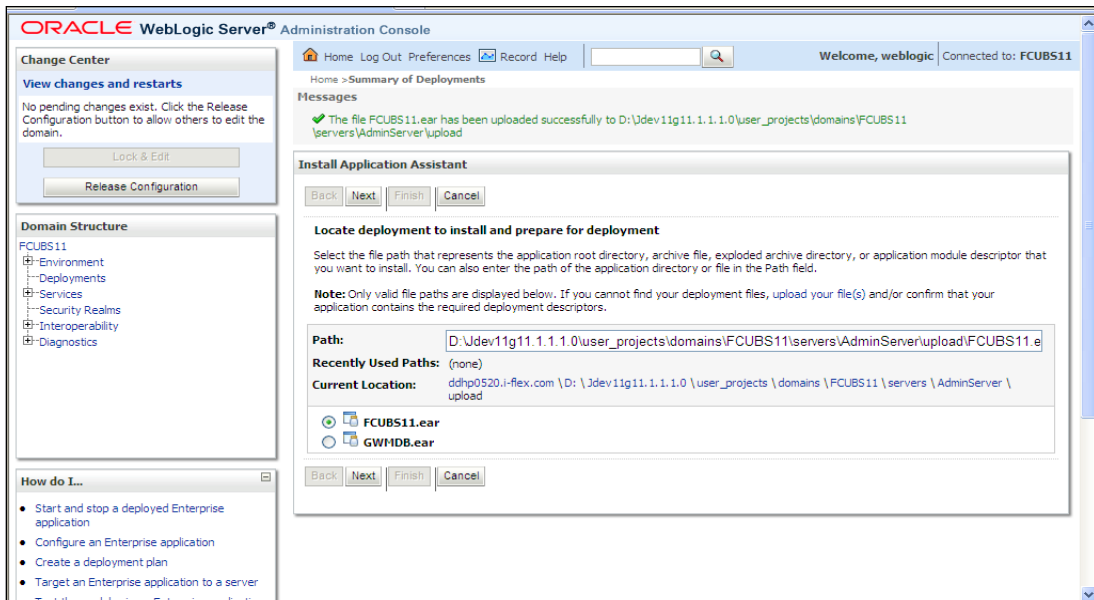
- 11.0
- 9NT1272
- APPOINT SOFTWARE SOLUTIONS
- backup
- bea
- bea11g
- bea\_100
- BrnDbgs
- ClearCase
- CRC
- Desktop
- Documents and Settings

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'.

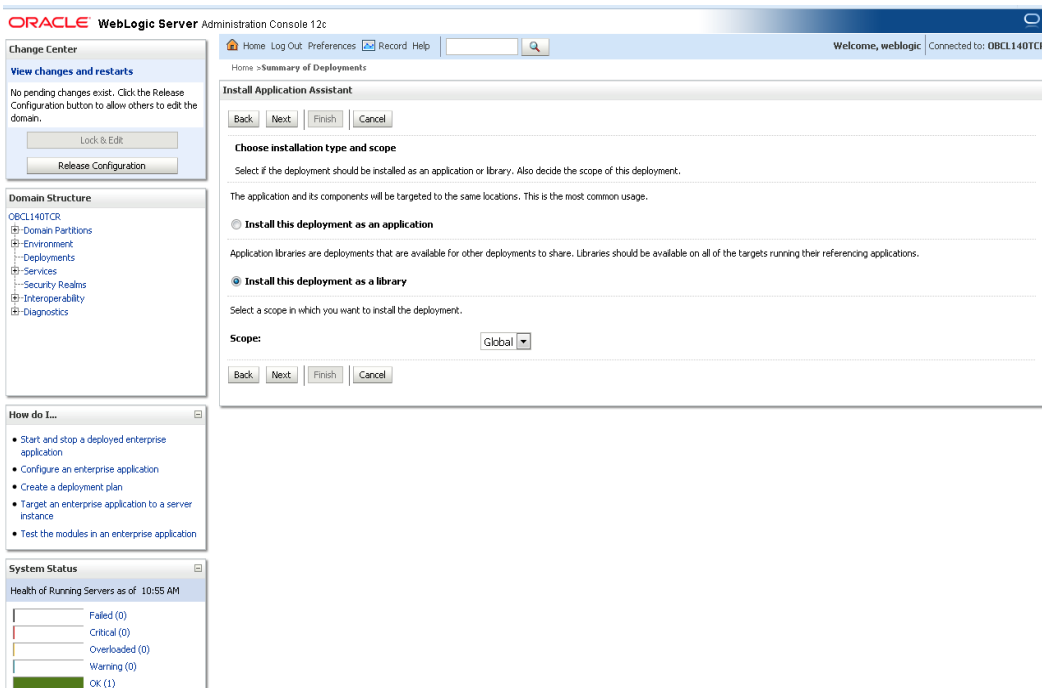
The following screen is displayed.



9. Select the application Adapter EAR from the list.

10. Click 'Next'.

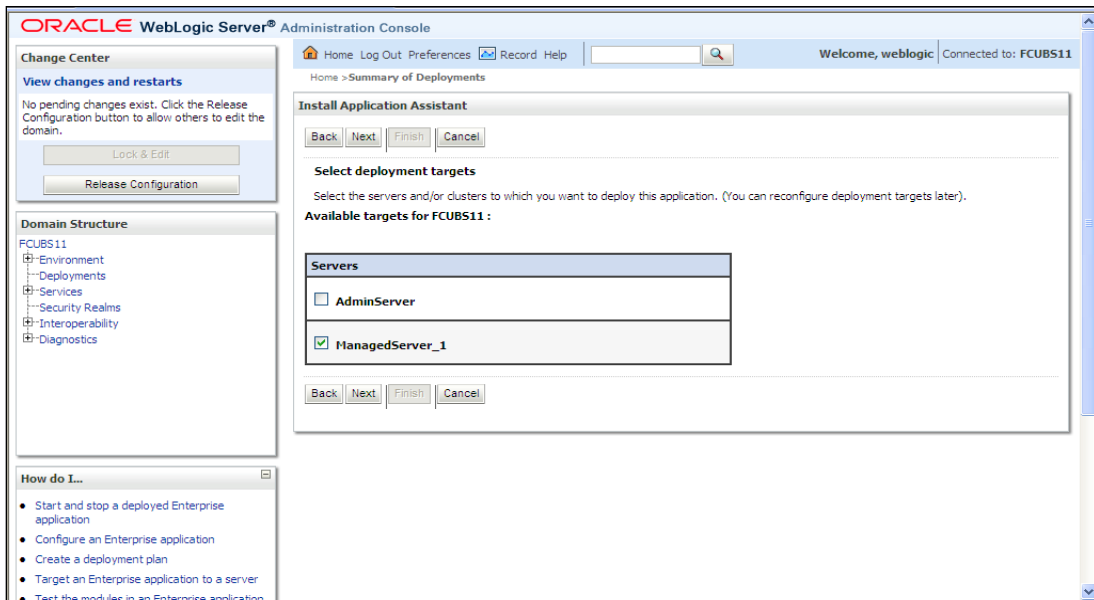
The following screen is displayed.



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

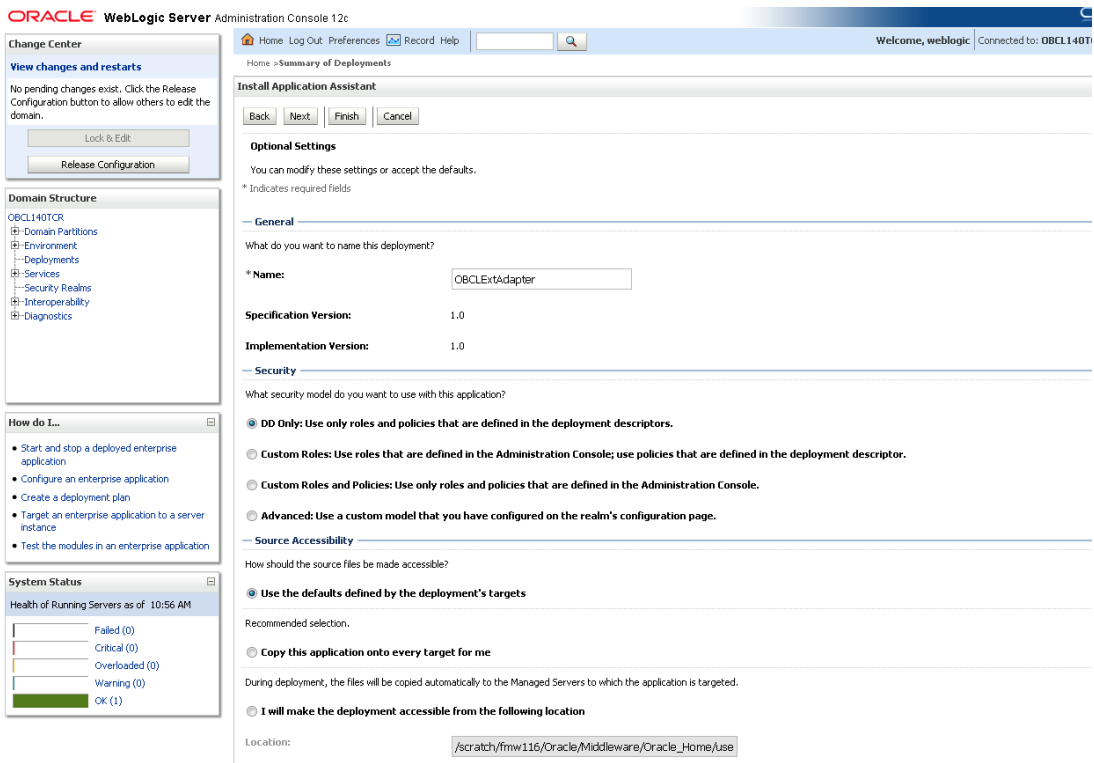
12. Click 'Next'.

The following screen is displayed.



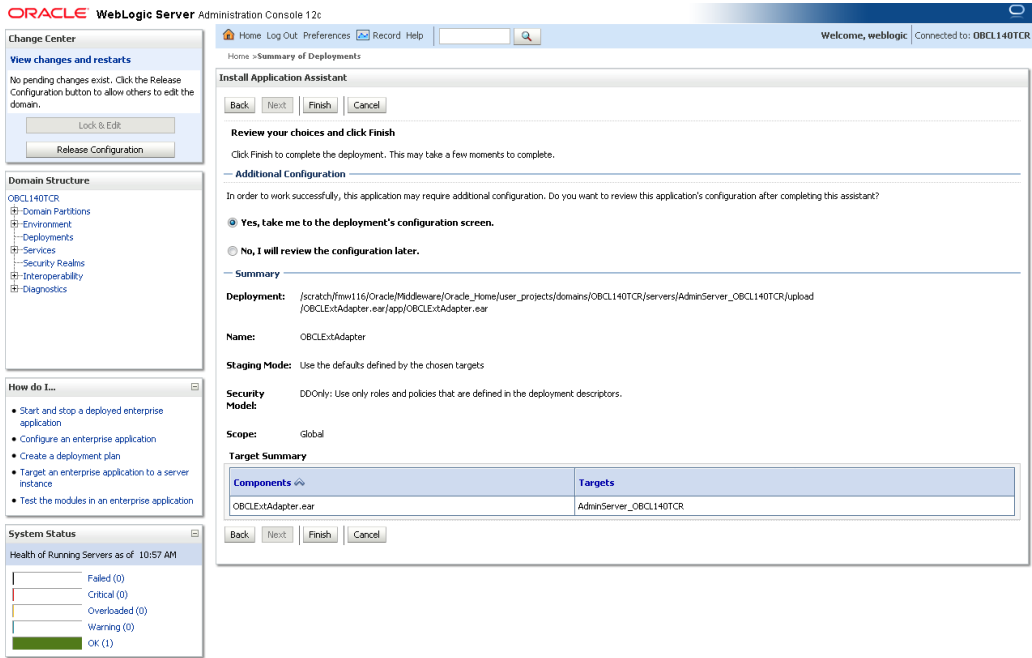
13. Select the target of the application. You can choose the server 'AdminServer' or 'Managed Server(s)'.

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



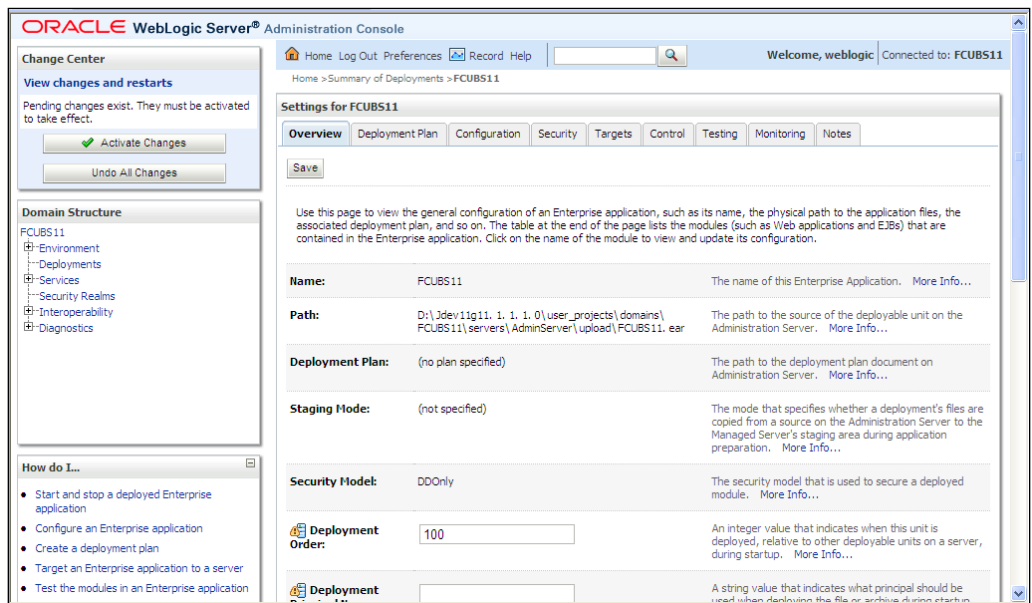
15. Check the deployment name.

The remaining portion of the screen is shown below:



16. Click 'Finish' button.

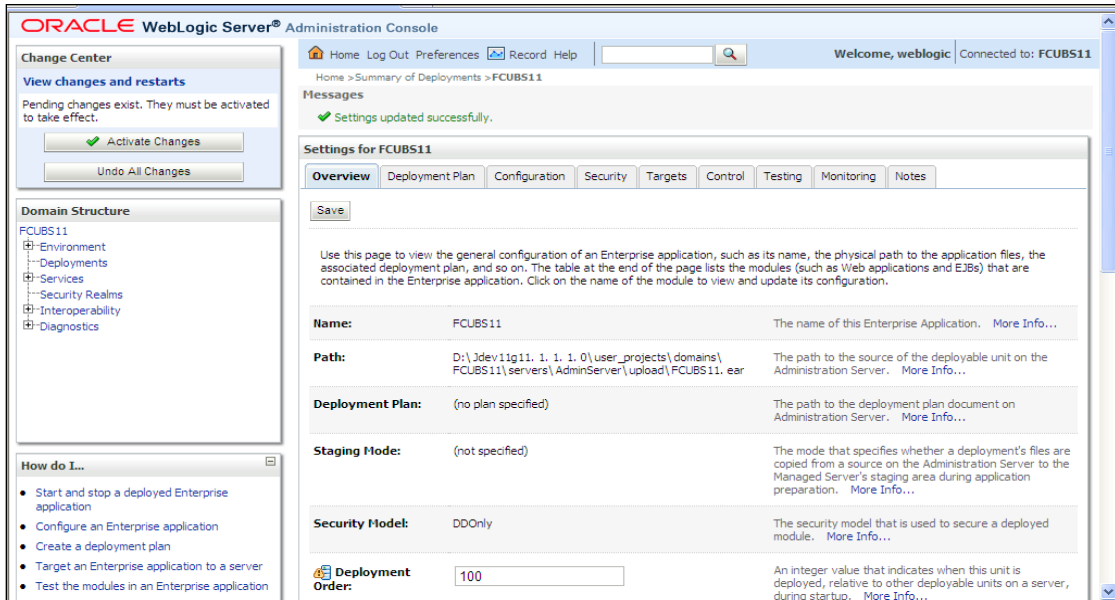
The following screen is displayed.



17. Click 'Save' button.

The message 'Settings updated successfully' is displayed.





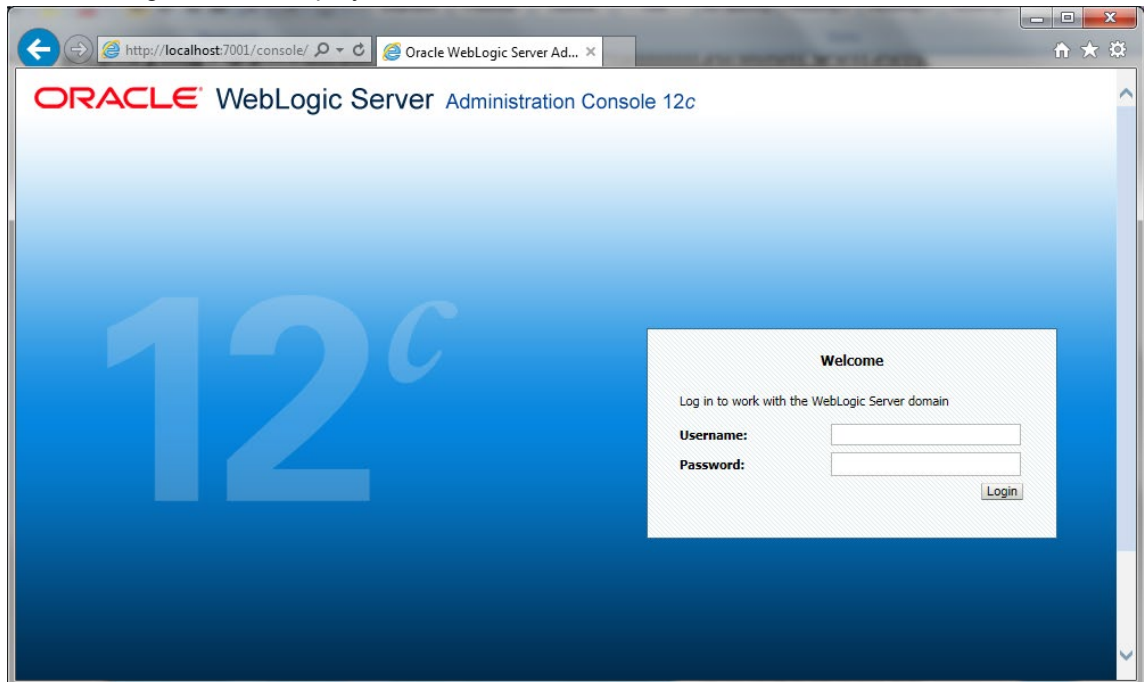
18. Click 'Activate Changes' button on the left pane. The message 'All the changes have been activated. No restarts are necessary' is displayed.

### 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:

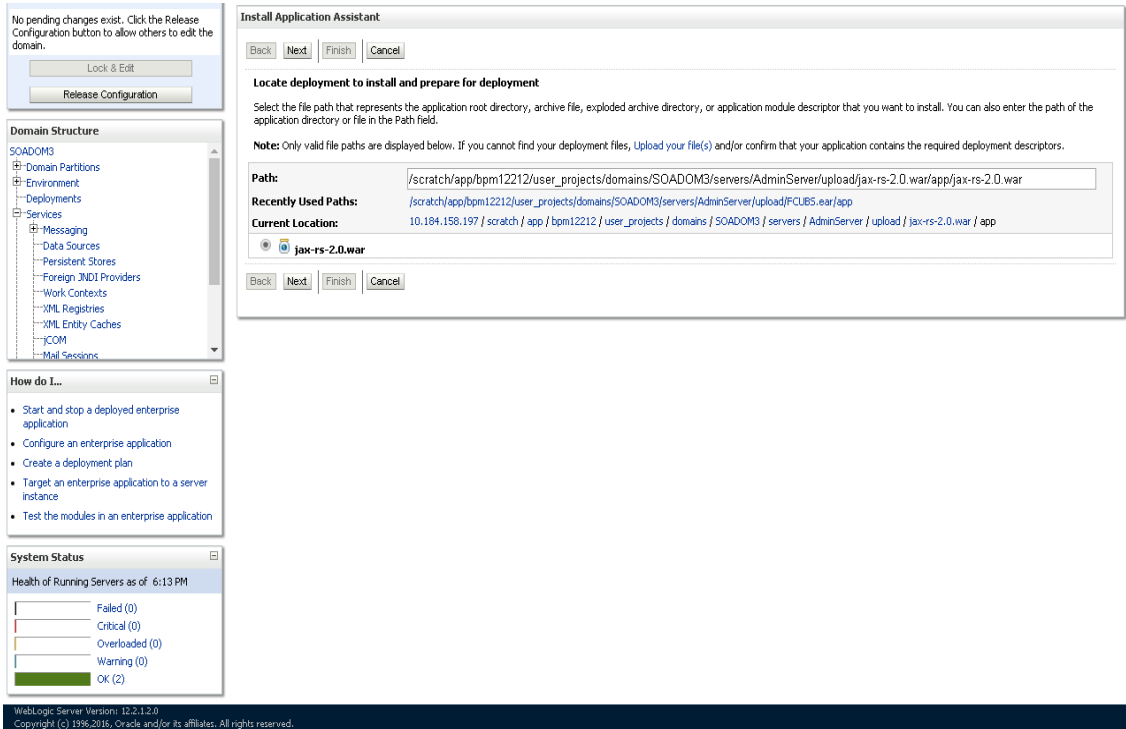


2. Specify the WebLogic administrator user name and password. Click 'Log In'.

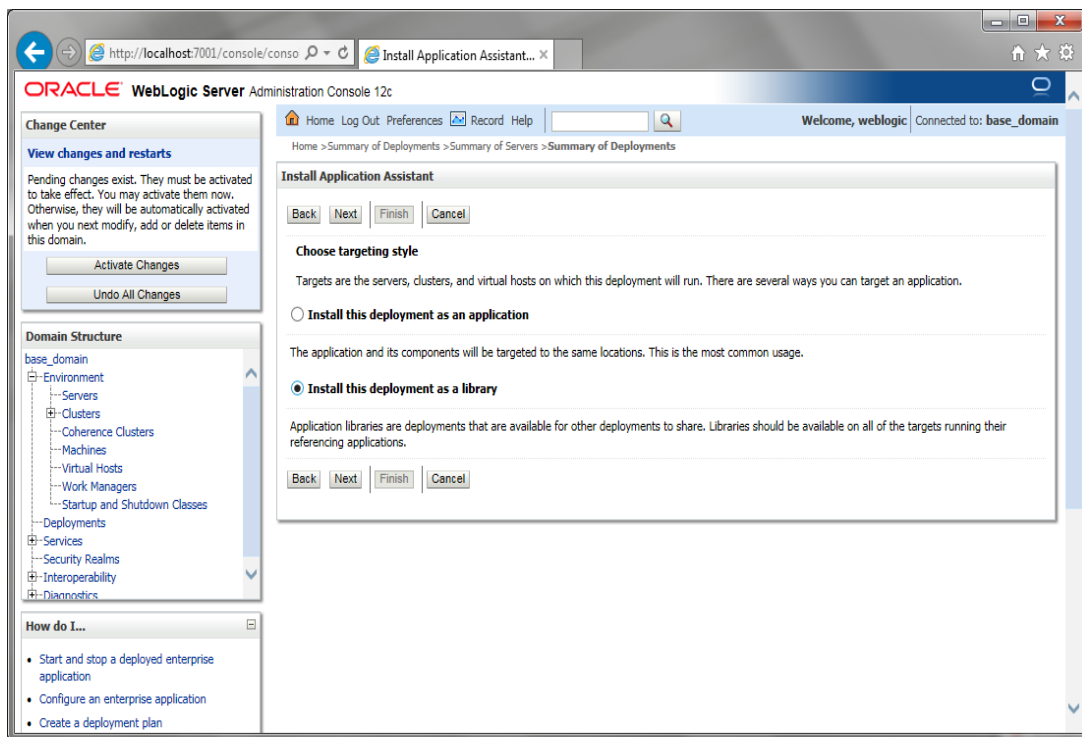
The following screen is displayed:

3. Click Install button.

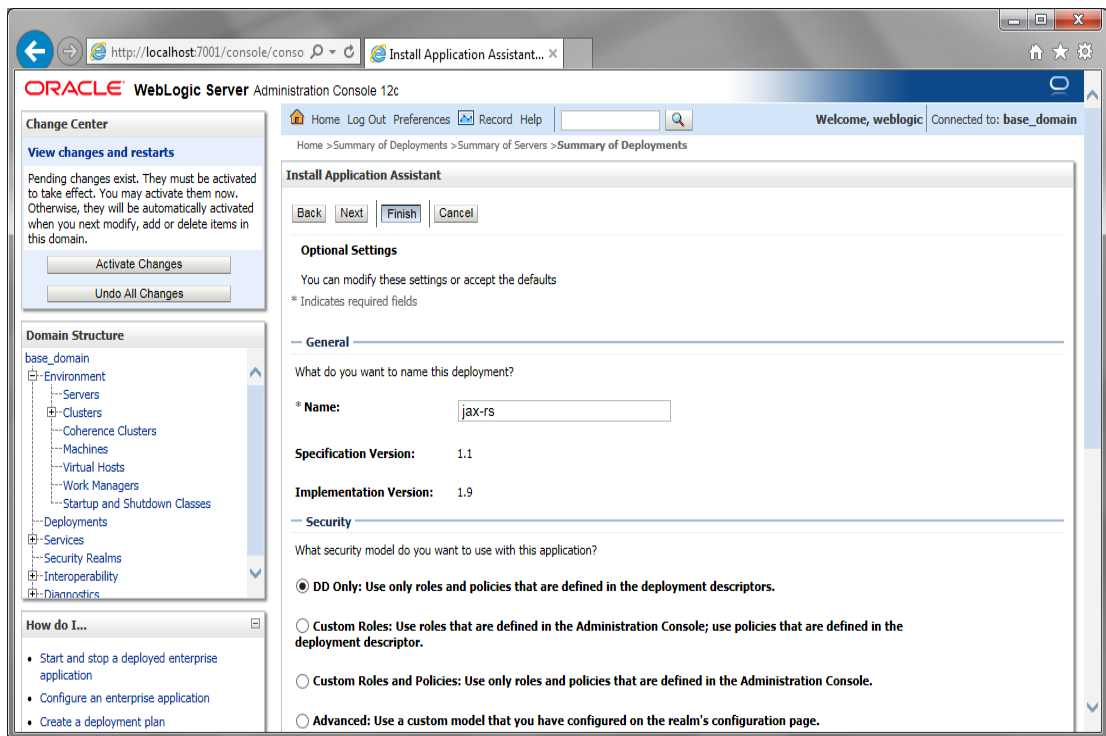
Name	State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
adf.oracle.businesseditor(1.0,12.2.1.0.0)	Active		Library	AdminServer_payments, pm_server1	Global		100
adf.oracle.domain(1.0,12.2.1.0.0)	Active		Library	AdminServer_payments, pm_server1	Global		100
adf.oracle.domain.webapp(1.0,12.2.1.0.0)	Active		Library	AdminServer_payments, pm_server1	Global		100
coherence-transaction-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
emagentsdkimpl_jar(12.4,12.1.0.4.0)	Active		Library	AdminServer_payments	Global		100
emagentsdkimpl_jar(12.4,12.1.0.4.0)	Active		Library	AdminServer_payments	Global		100
emagentsdk_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
emcoreentsdk_jar(11.2.0.1.0,12.1.0.0.0)	Active		Library	AdminServer_payments	Global		100
emcorepts_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_sec_toc_lar	Active		Library	AdminServer_payments	Global		100



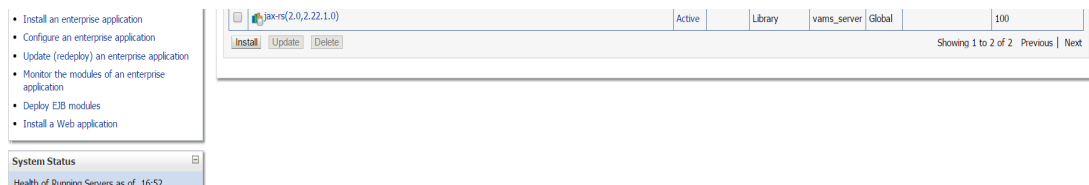
- Navigate and select jersey bundle under the path “*w\server\common\deployable-libraries\jax-rs-2.0.war*” and click next.



- 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”

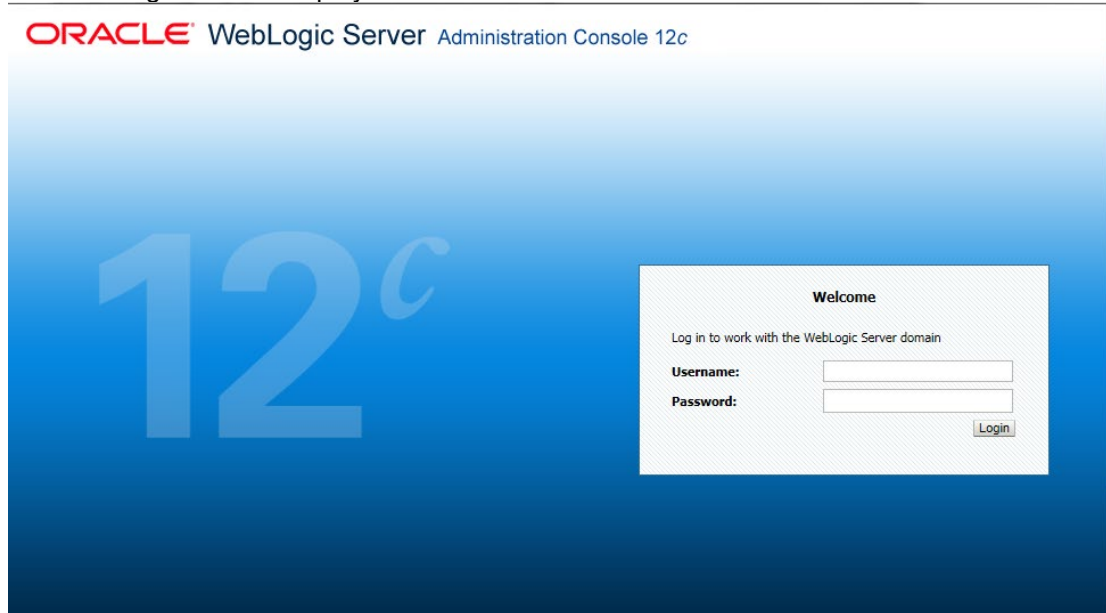
Note : Latest Jax-rs version will be jax-rs(2.0,2.22.1.0).

### 1.3.3 Deploying FCUBS Application from WebLogic Administration Console

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

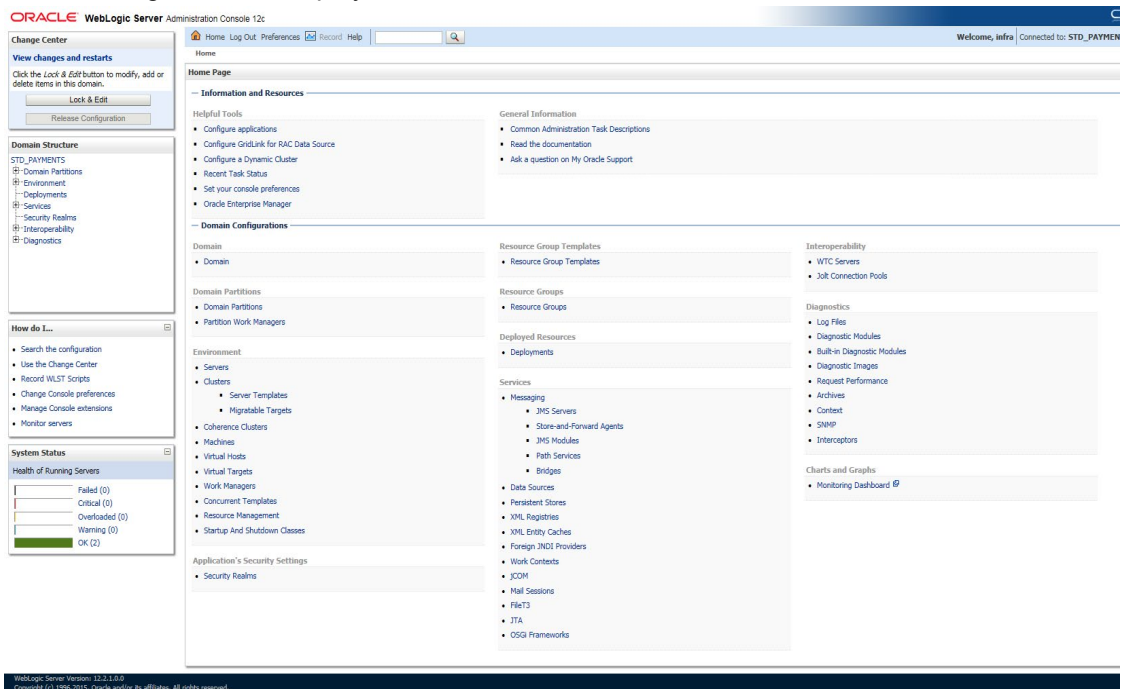
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser. Eg: <http://10.10.10:1001/console>

The following screen is displayed:



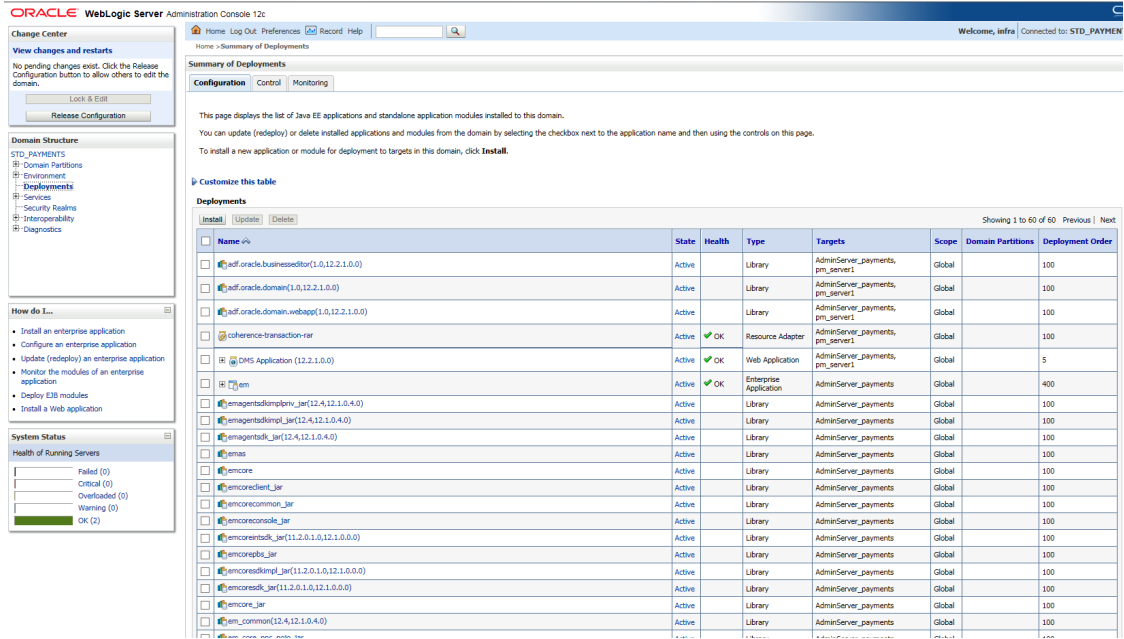
2. Specify the WebLogic administrator user name and password. Click 'Log In'.

The following screen is displayed:



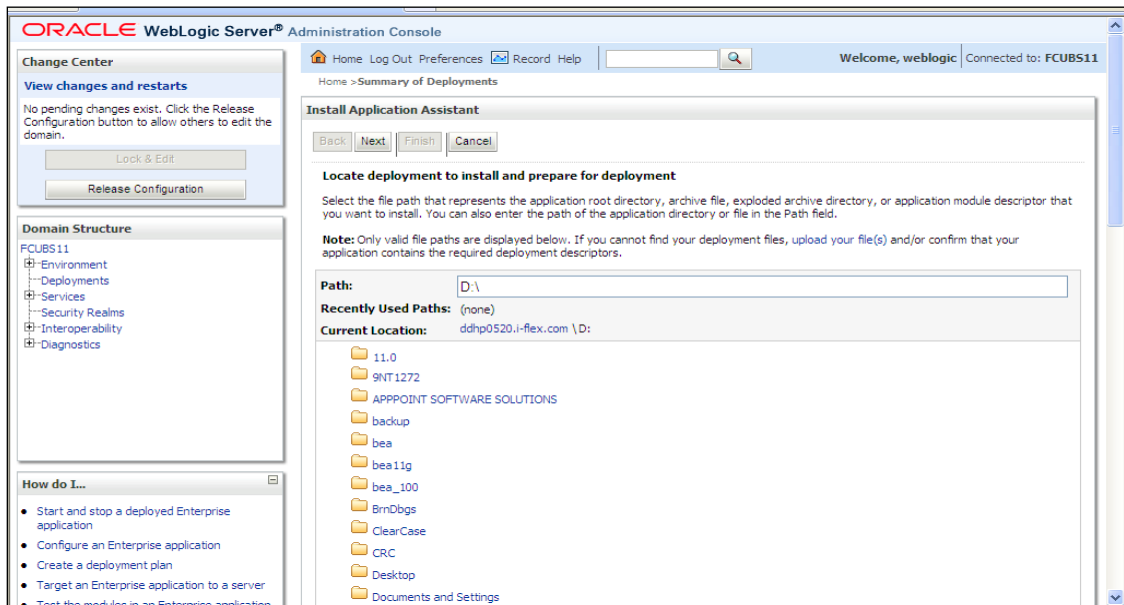
3. You need to deploy an EAR. For e.g. 'FCUBSApp.ear'. Go to 'Deployment'.

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



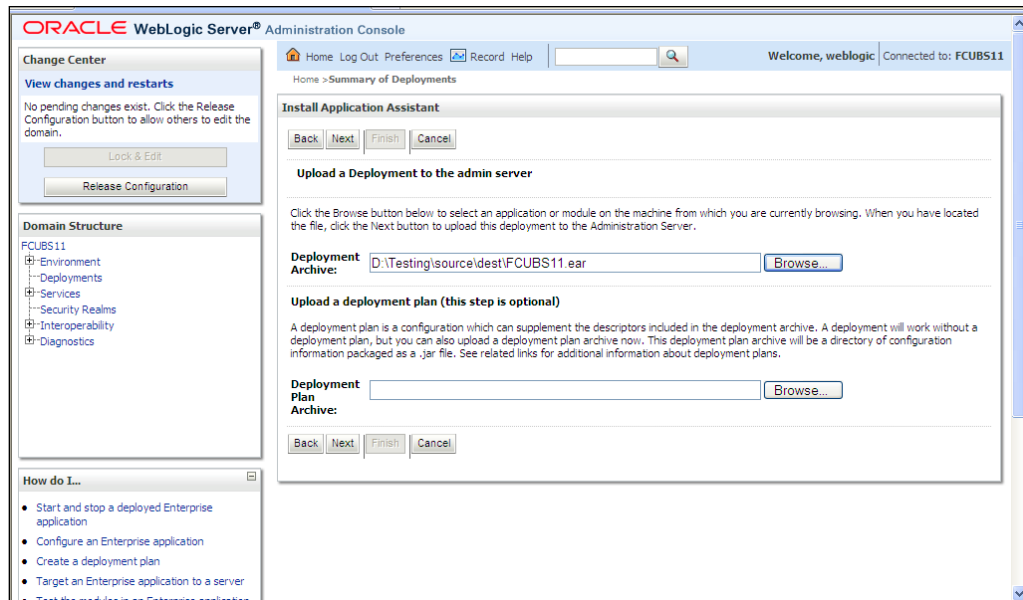
- Click 'Install' button.

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'.

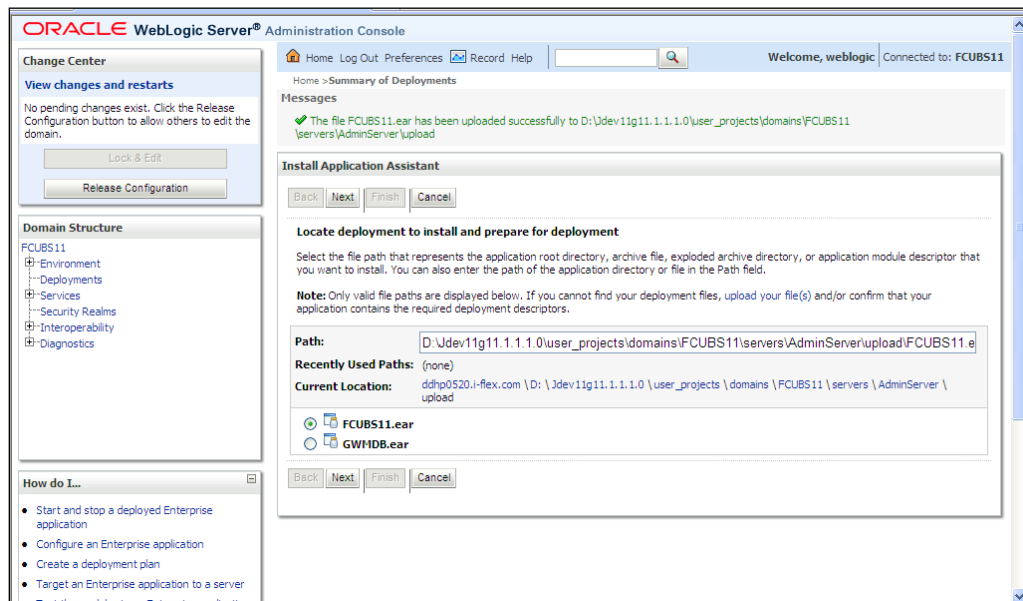
The following screen is displayed:



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

9. Click 'Next'.

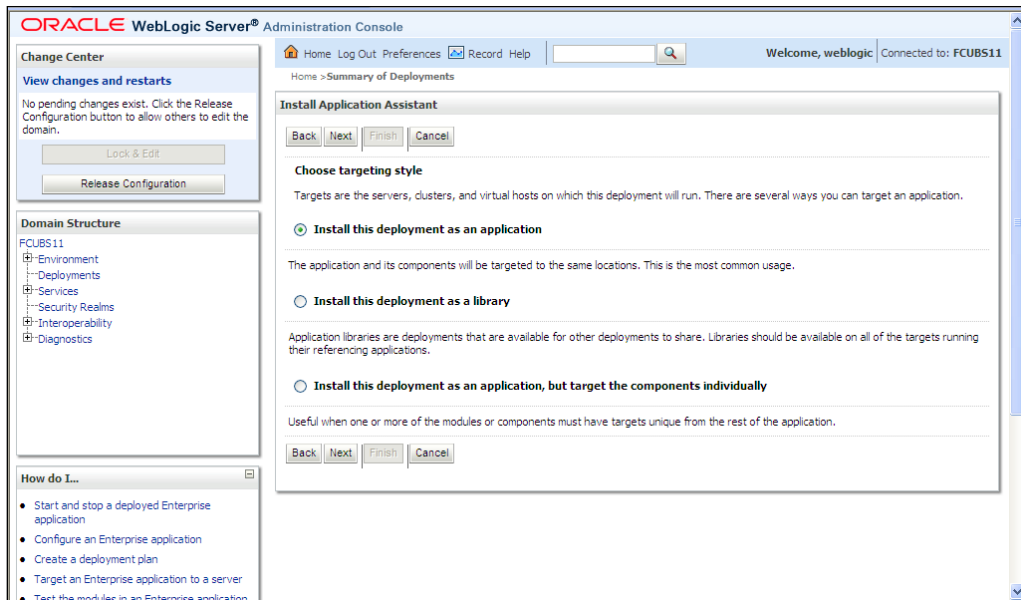
The following screen is displayed.



10. Select the application FCUBS EAR from the list.

11. Click 'Next'.

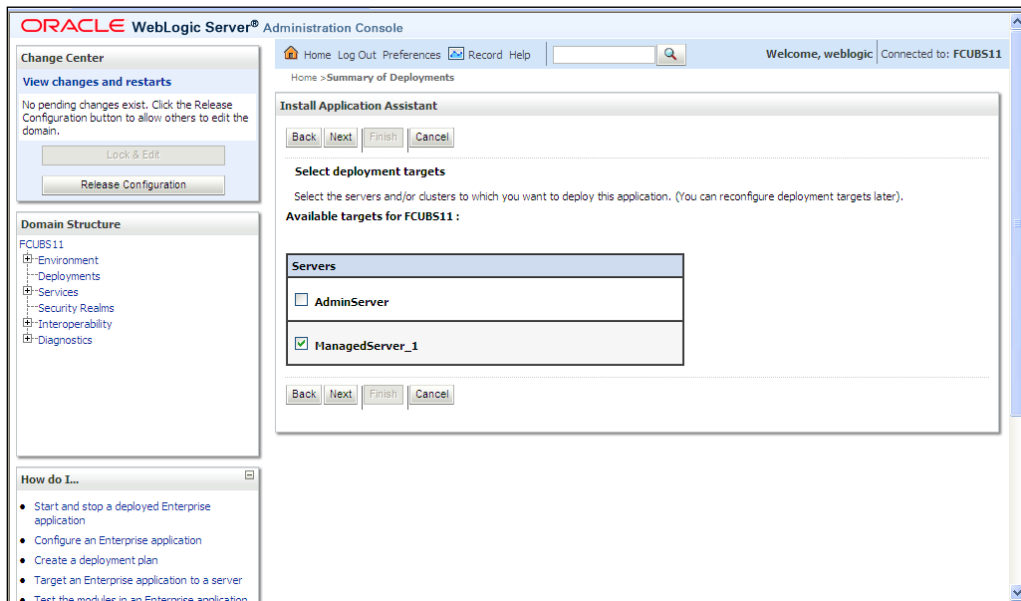
The following screen is displayed:



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

13. Click 'Next'.

The following screen is displayed

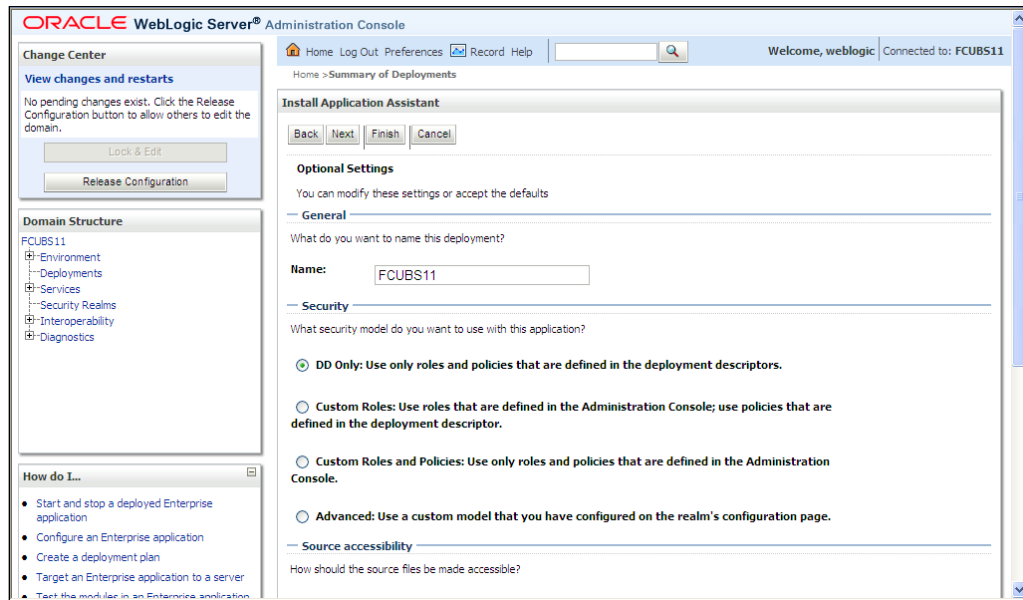


14. Select the target of the application. You can choose the server 'AdminServer' or 'Managed Server(s)'.

15. Click 'Next'.

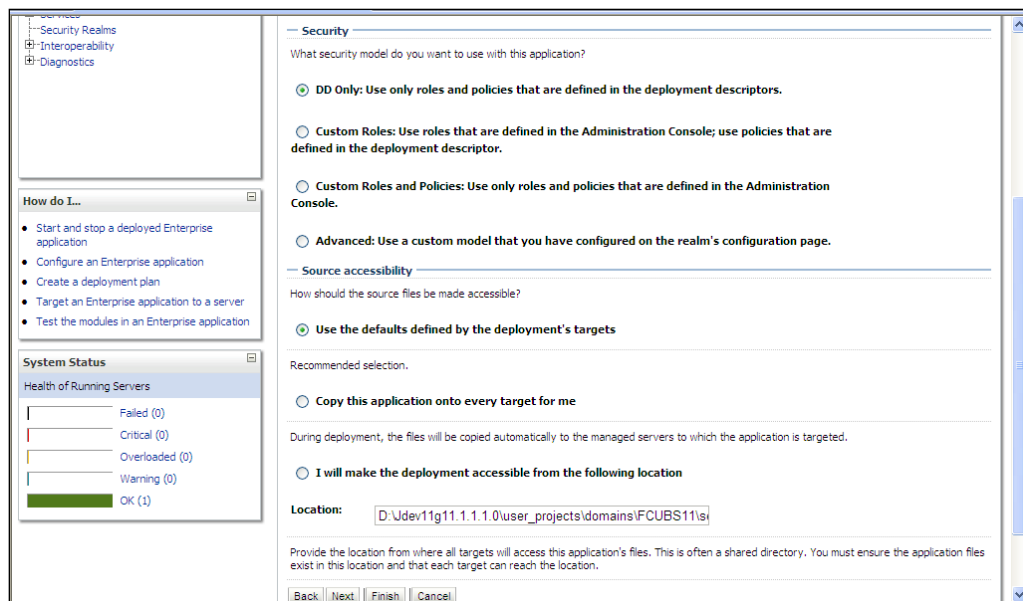
The following screen appears.





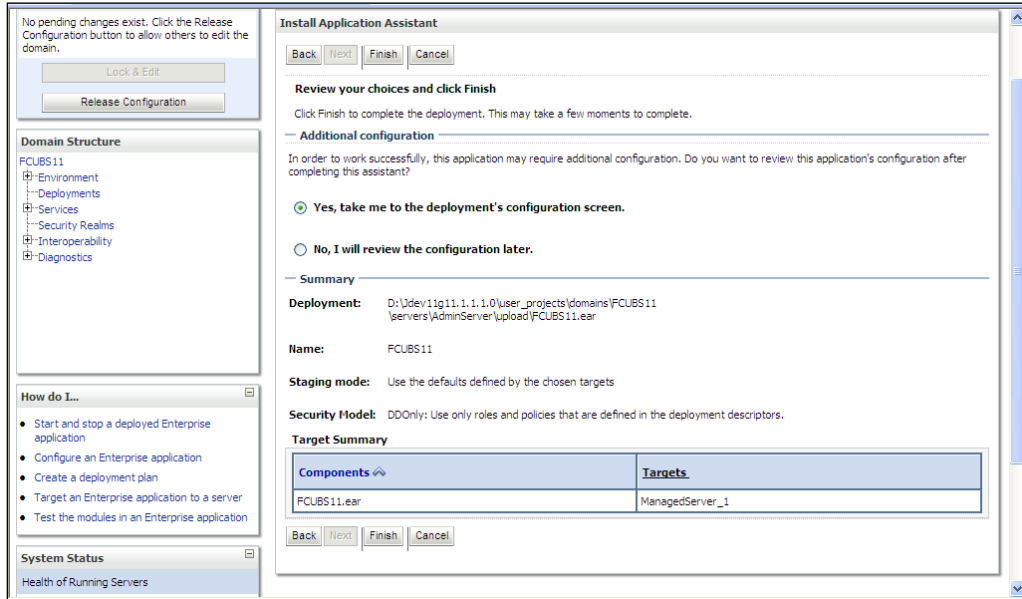
16. Check the deployment name.

The remaining portion of the screen is shown below:



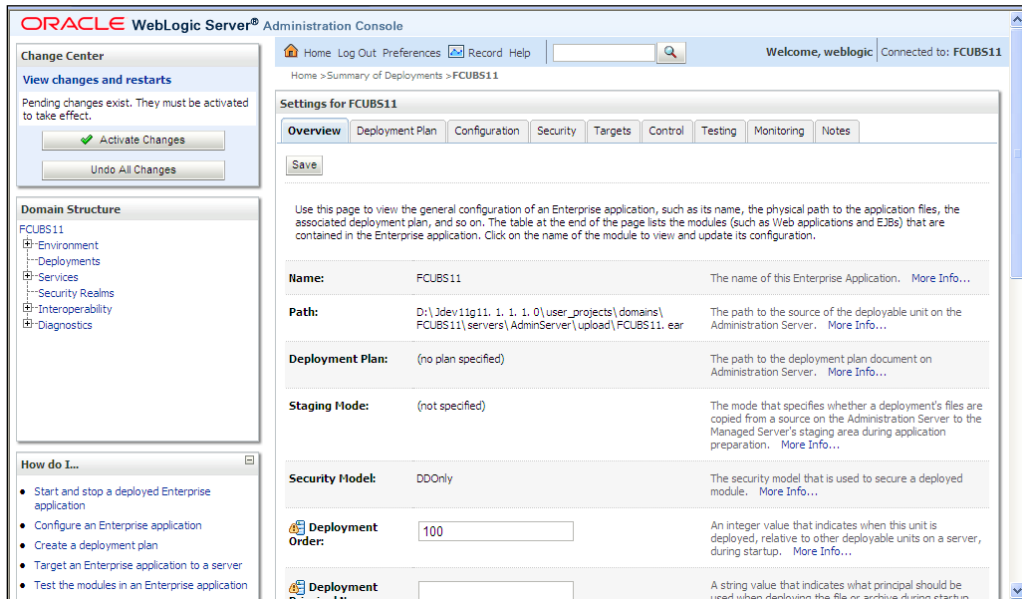
17. Check whether the deployment location is accessible or not.

The following screen is displayed.

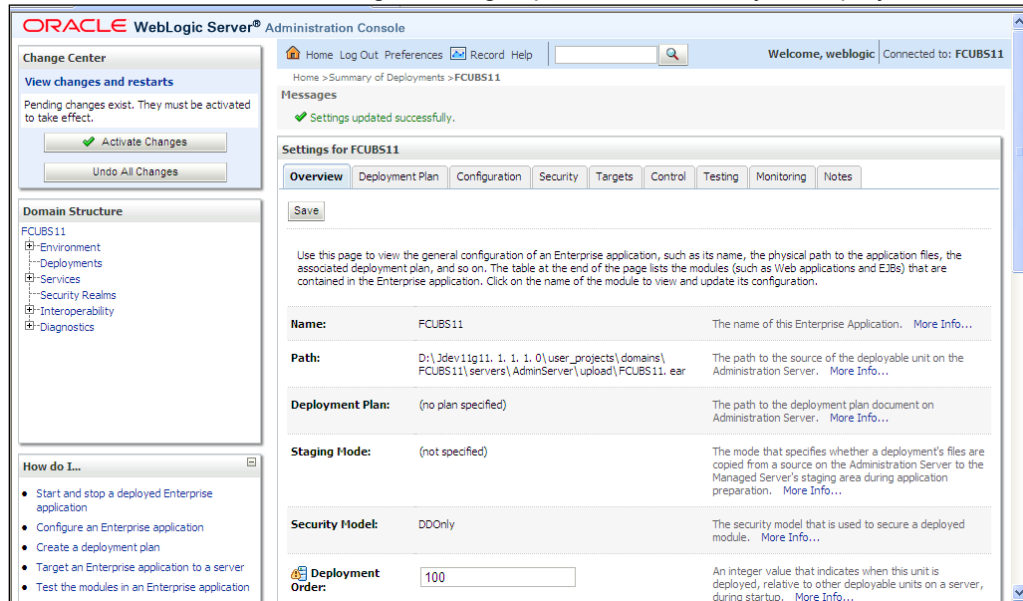


18. Click 'Finish' button. The following screen is displayed.

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

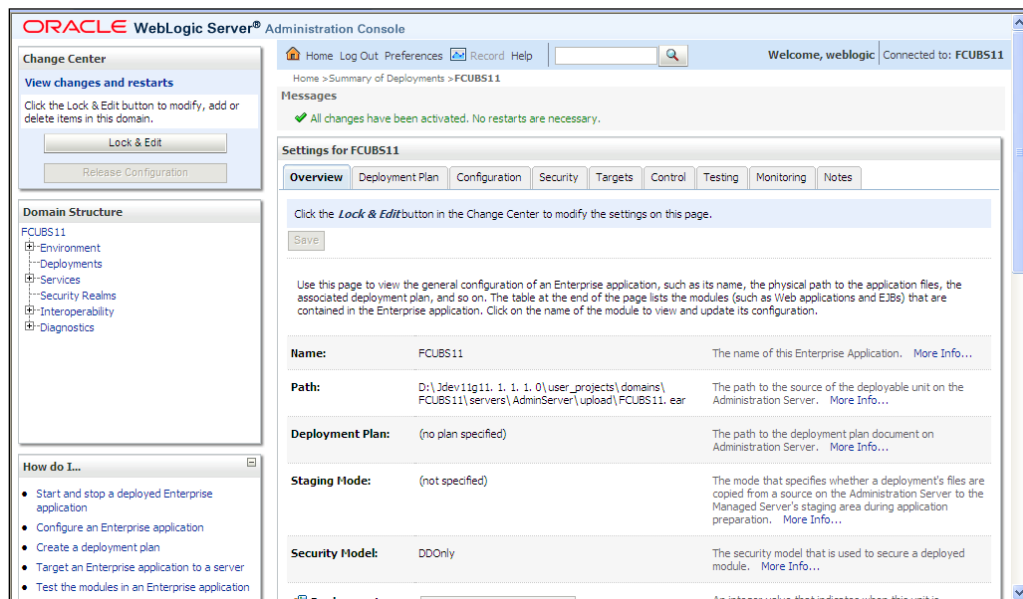


19. Click 'Save' button. The message 'Settings updated successfully' is displayed.

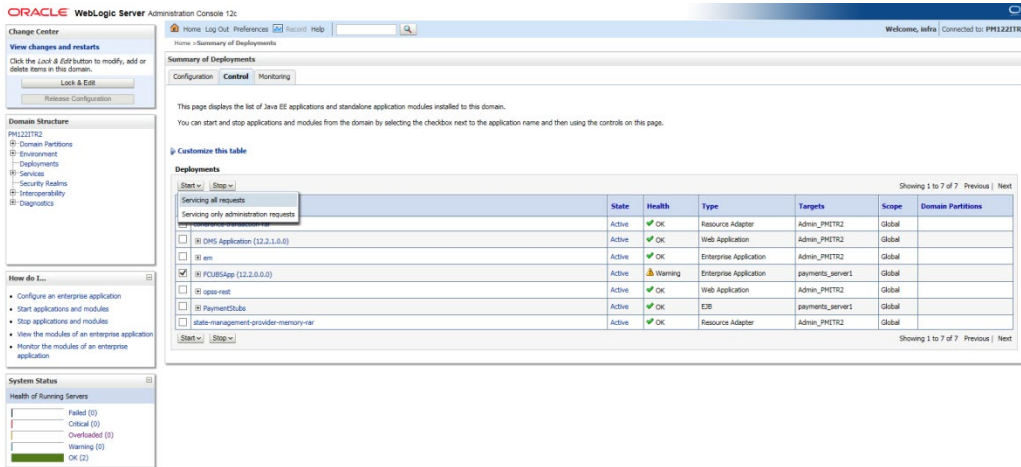


20. Click 'Activate Changes' button on the left pane. The message 'All the changes have been activated. No restarts are necessary' is displayed.

The screen is given below:

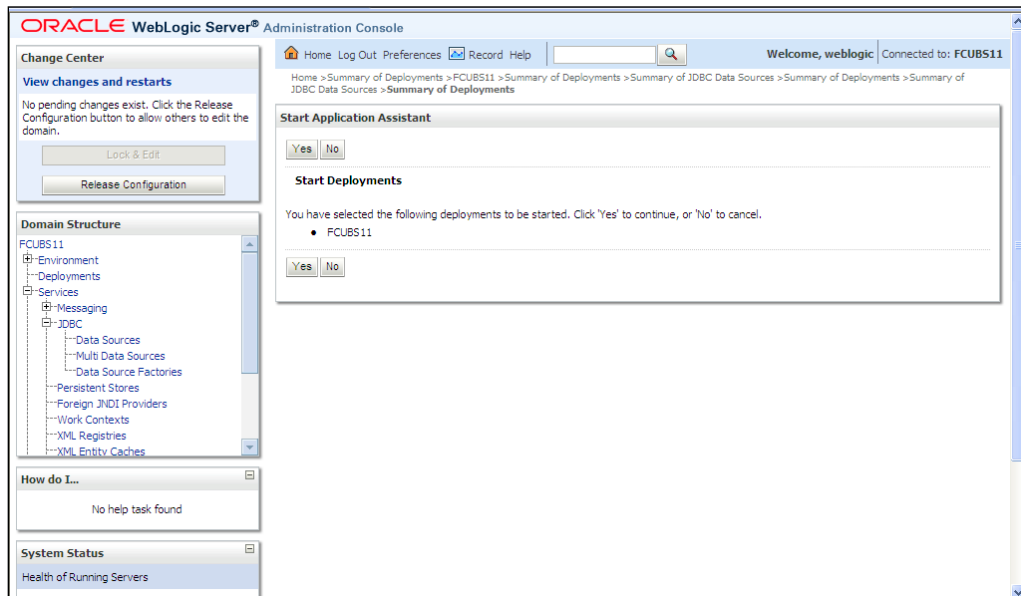


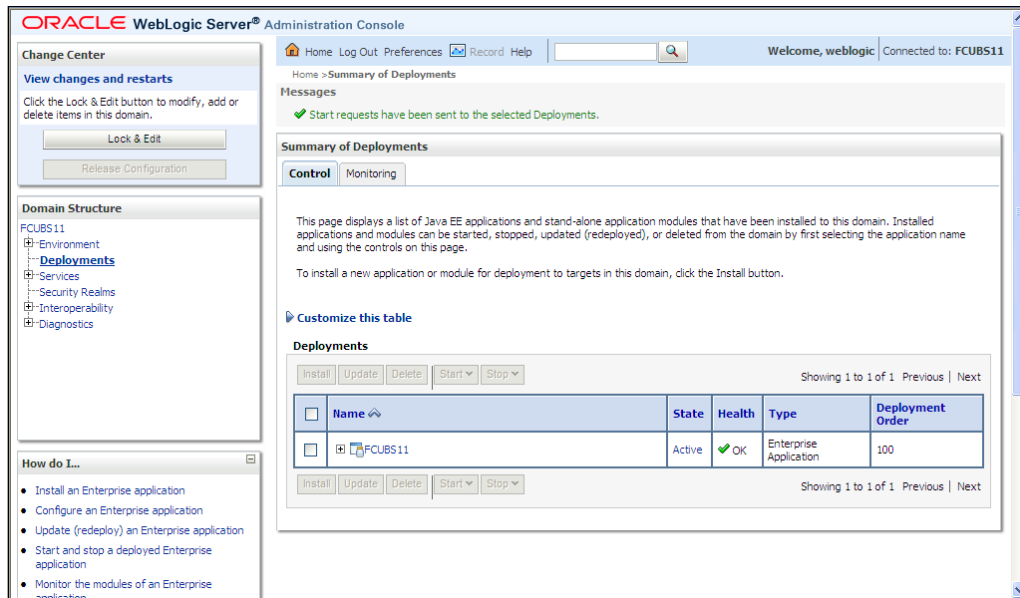
21. Click 'Deployment' on the left pane. Switch to Control tab. The following screen is displayed.



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

The following screen is displayed.





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

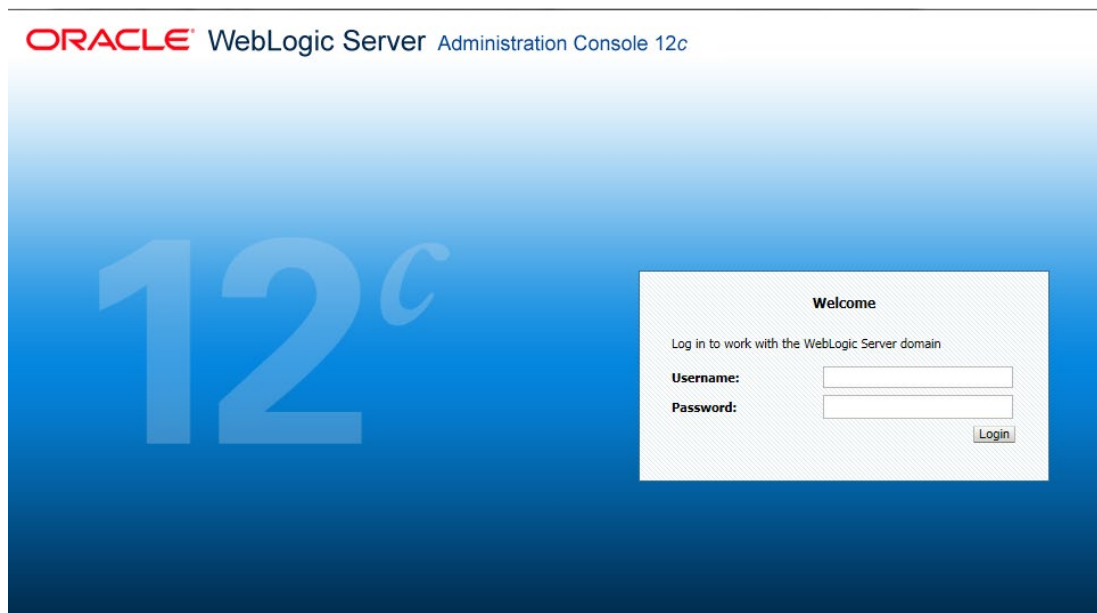
This completes the deployment process.

### 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.

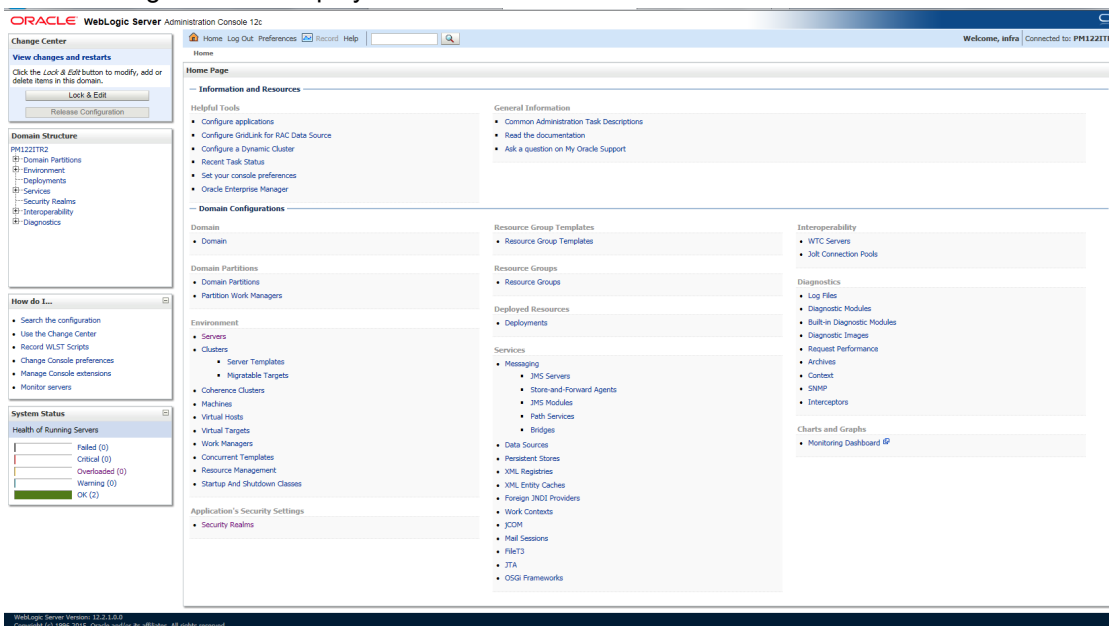
1. Launch Administrative Console of WebLogic application server. You can launch this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser.  
Eg: <http://10.10.10.10:1001/console>

The following screen is displayed:



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

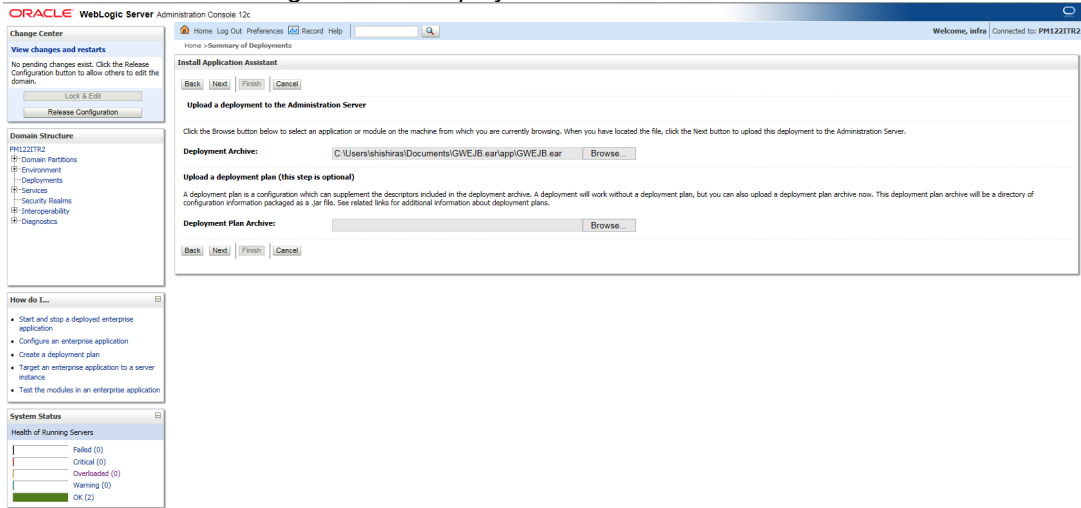
The following screen is displayed:



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

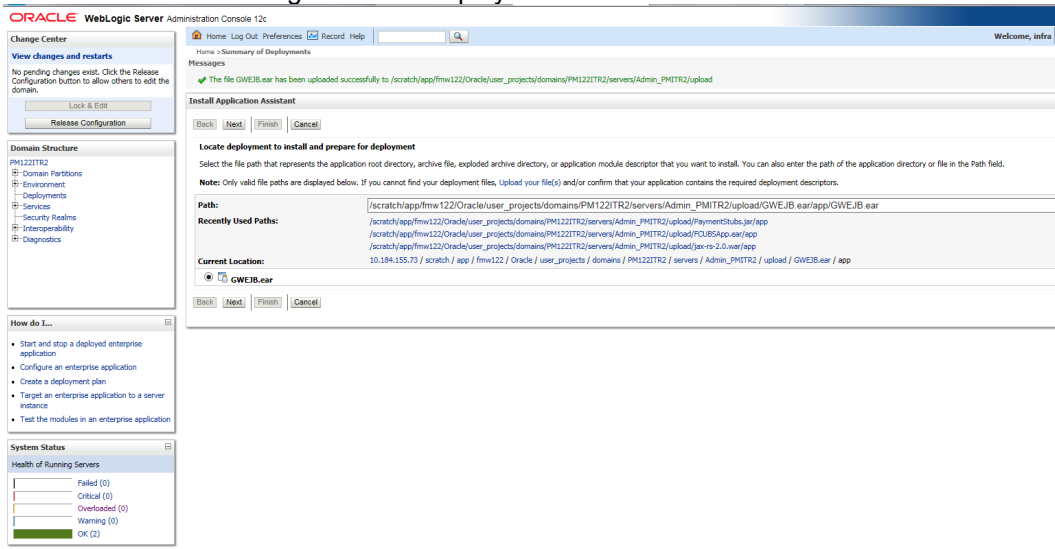


7. Click 'Next'. The following screen is displayed:



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

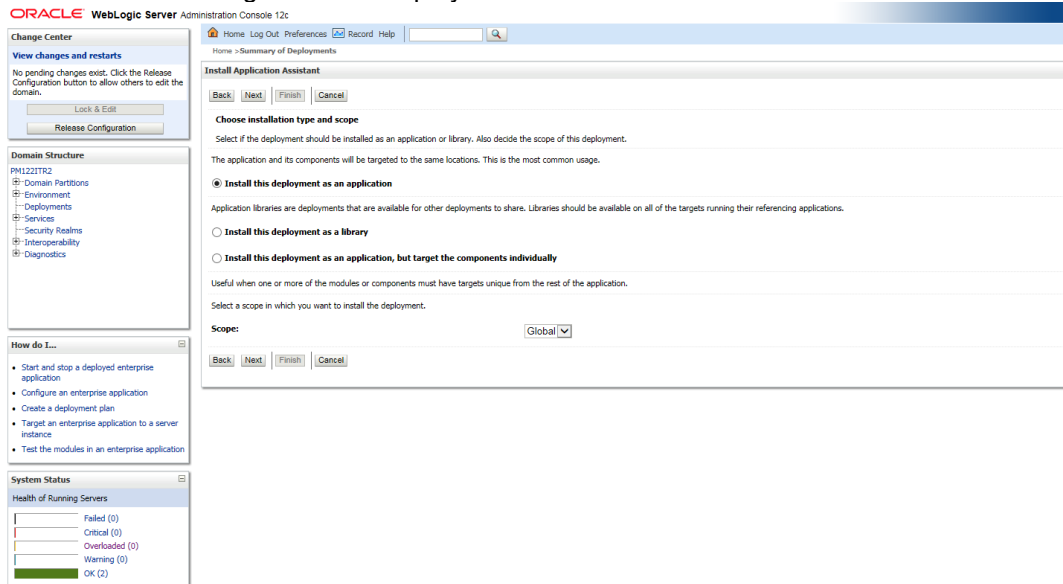
9. Click 'Next'. The following screen is displayed.



10. Select the application from the list.



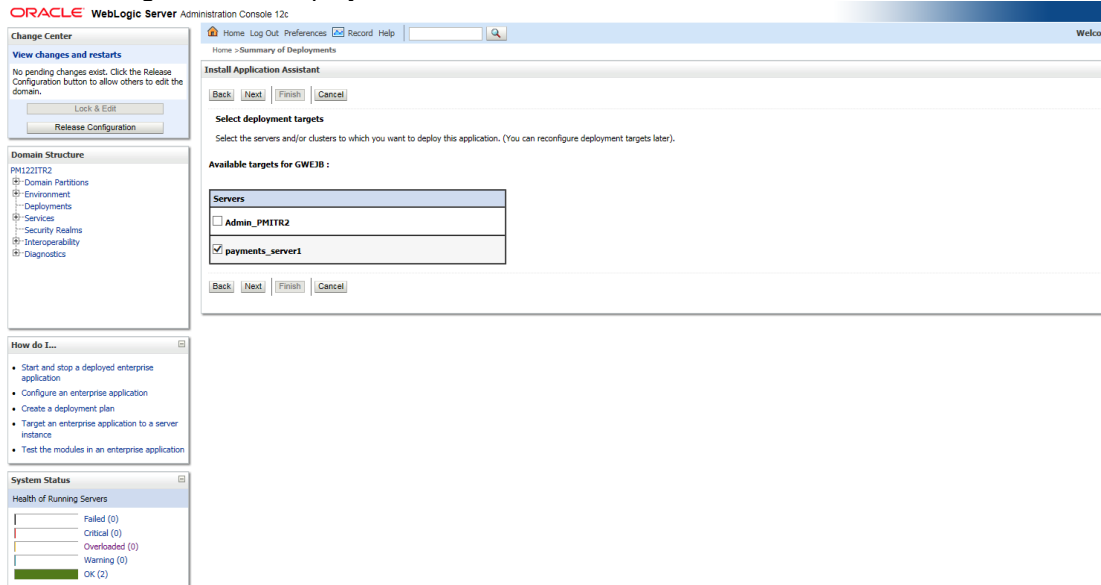
11. Click 'Next'. Following screen is displayed:



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 content area is titled "Review your choices and click Finish". It contains the following information:

- Additional Configuration:** A radio button selection where "Yes, take me to the deployment's configuration screen." is selected.
- 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
- Target 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, there is a "Modules and Components" section showing a list of components:

- [-] GWEJB (12.2.0.0.0)
  - [-] EJBs
    - [-] PCMainProcEJB
    - [-] PCSvrRouterEJB
    - [-] GWEJB

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

The screenshot shows the Oracle WebLogic Server Administration Console. The top navigation bar includes 'Home', 'Log Out', 'Preferences', 'Record', and 'Help'. Below the navigation bar, a message states 'Settings updated successfully'. The main content area is titled 'Settings for GWEJB(12.2.0.0.0)' and features several tabs: 'Overview', 'Deployment Plan', 'Configuration', 'Security', 'Targets', 'Control', 'Testing', 'Monitoring', and 'Notes'. The 'Overview' tab is active, displaying 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. On the left side, the 'Change Center' pane is visible, showing a message 'Pending changes exist. They must be activated to take effect.' and a green 'Activate Changes' button.

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 configuration changes have been activated. The top message now reads 'All changes have been activated. No restarts are necessary.' The 'Change Center' pane on the left shows a 'Lock & Edit' button, indicating that the configuration is now locked for editing. The main configuration area remains the same, showing the 'Overview' tab for GWEJB(12.2.0.0.0) with various parameters and their values.

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

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	

Showing 1 to 8 of 8 Previous Next

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

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] [2023]  
Version 14.7.1.0.0

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