

Deploying Oracle FLEXCUBE Application on WebLogic
Oracle FLEXCUBE Universal Banking
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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.

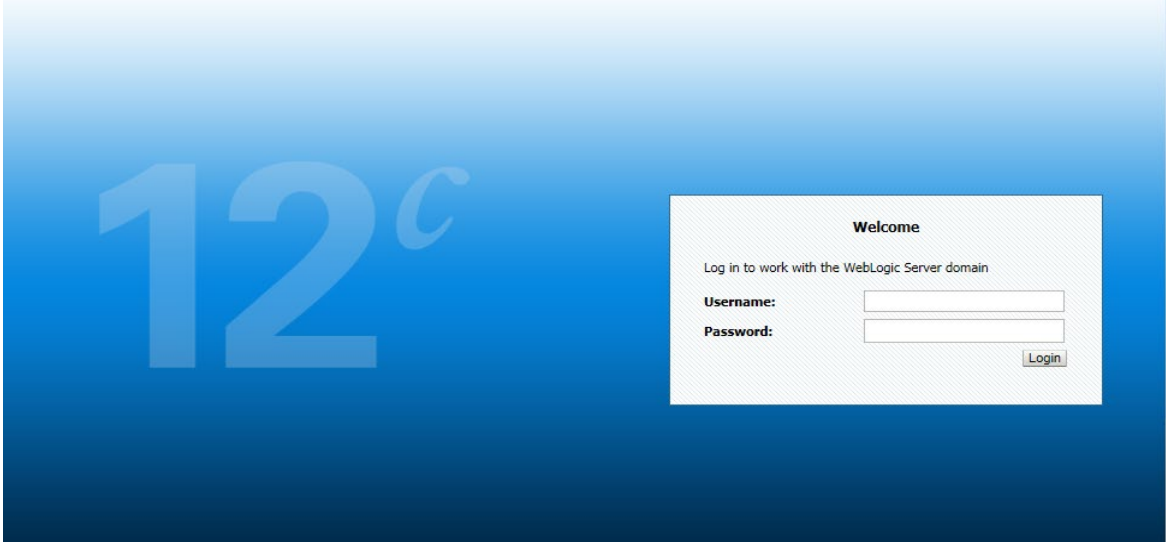
1.3.1 Deploying Integration Adapter EAR from WebLogic Administration Console

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

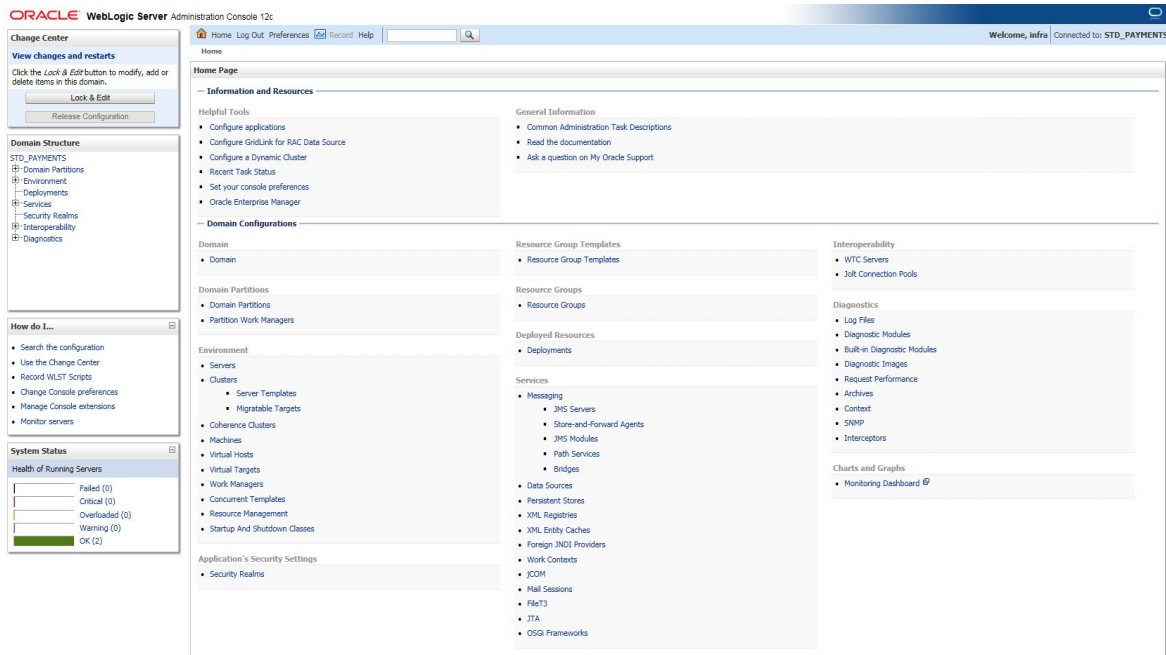
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser.

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

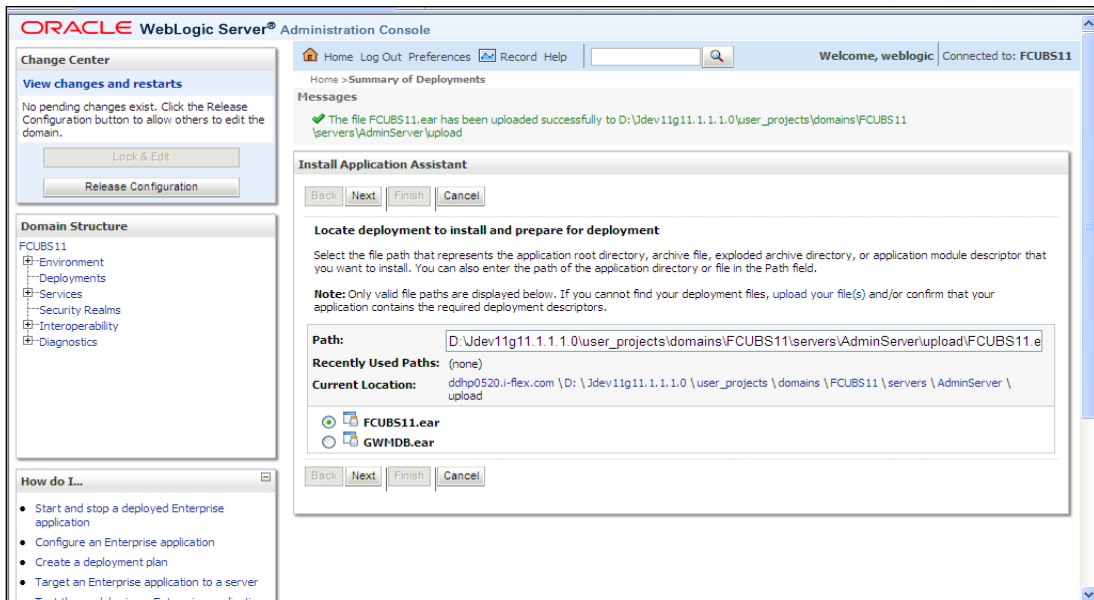
The following screen is displayed:



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



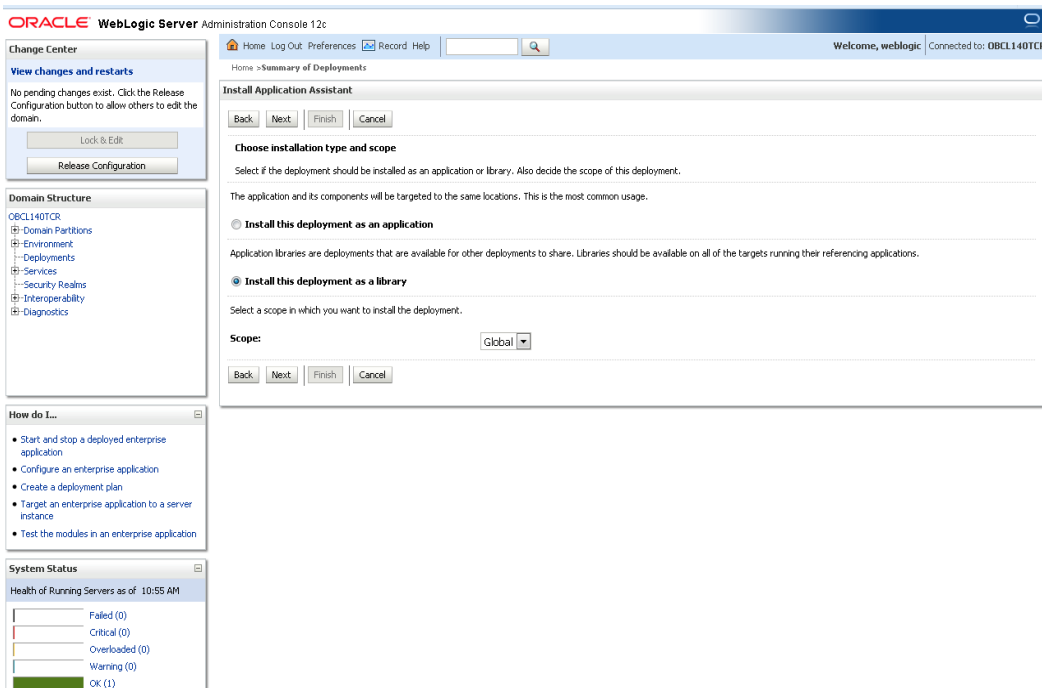
3. You need to deploy an Integration adapter EAR. For e.g. 'OBCLExtAdapter.ear or ExtAdapter.ear'. Go to 'Deployment'.
4. Click 'Lock & Edit' button to enable the buttons. This action enables the buttons.



9. Select the application Adapter EAR from the list.

10. Click 'Next'.

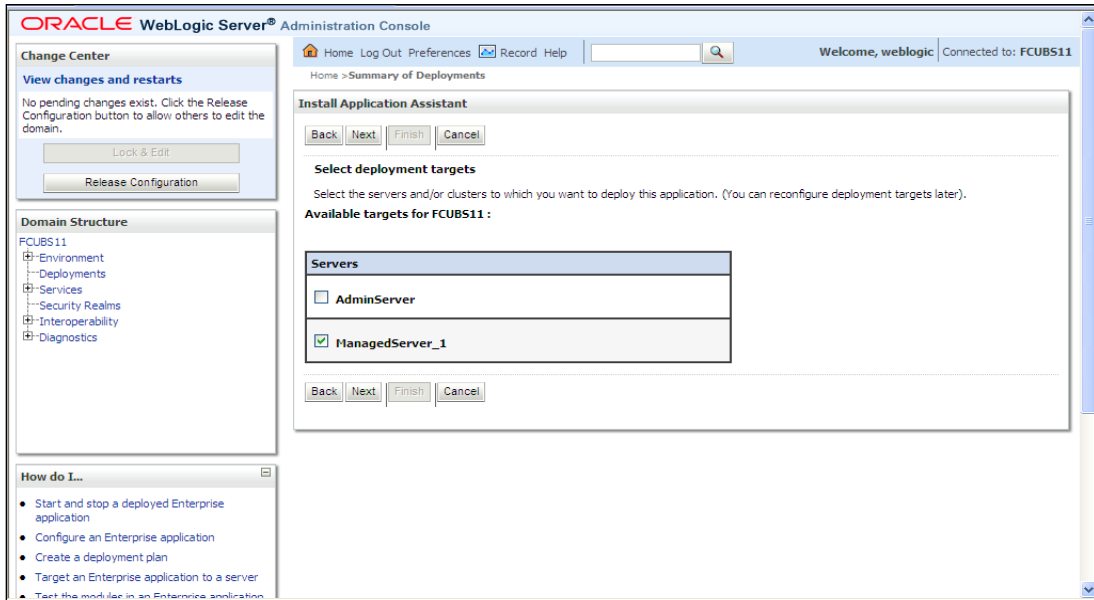
The following screen is displayed.



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

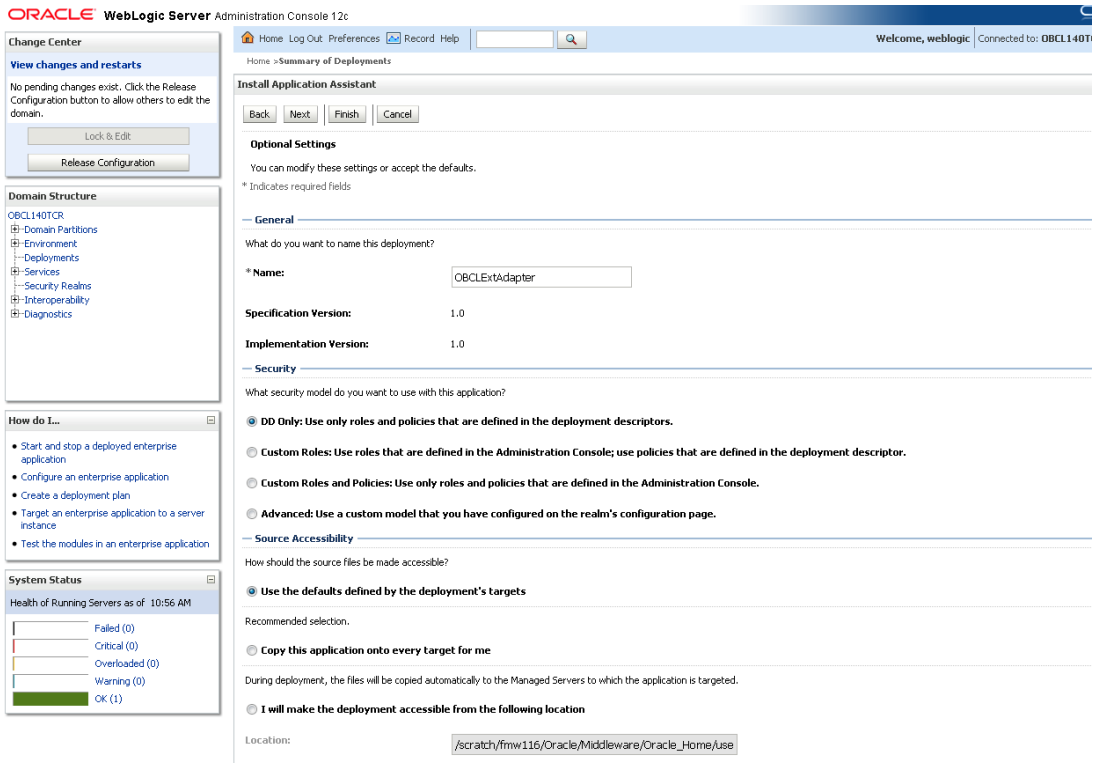
12. Click 'Next'.

The following screen is displayed.



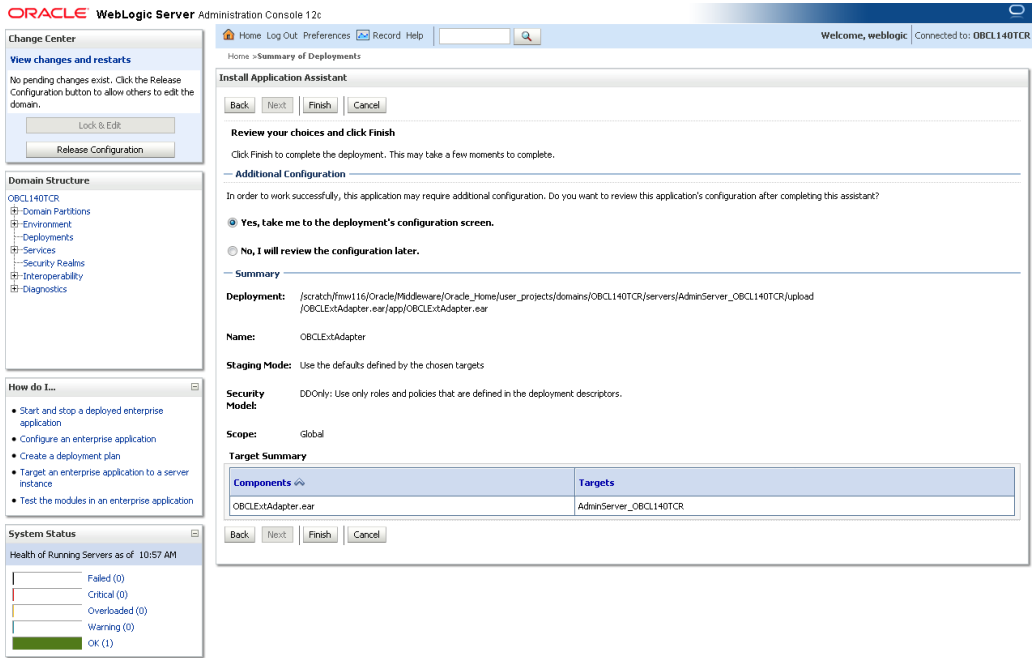
13. Select the target of the application. You can choose the server 'AdminServer' or 'Managed Server(s)'.

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



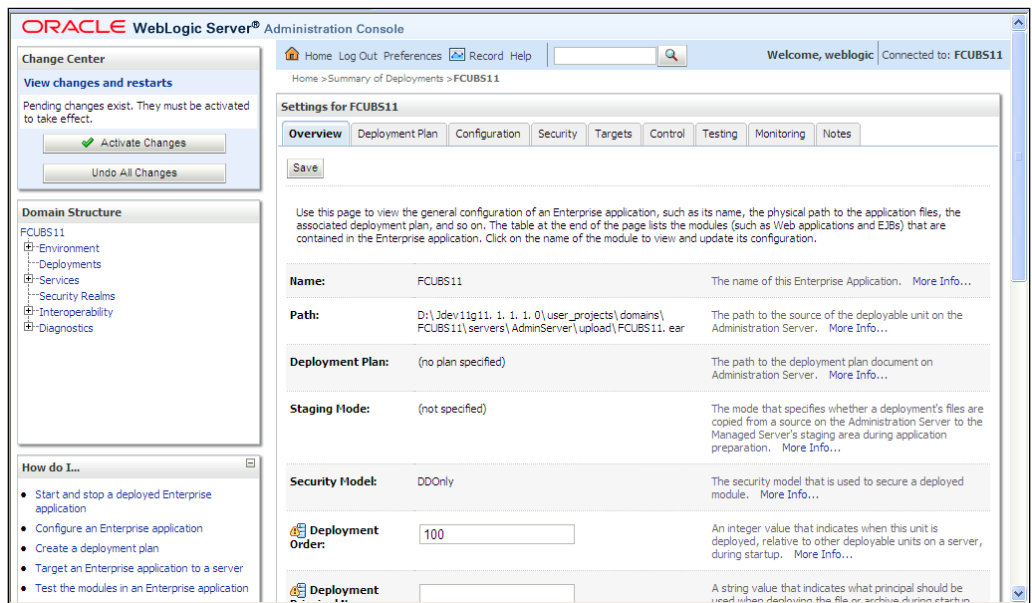
15. Check the deployment name.

The remaining portion of the screen is shown below:



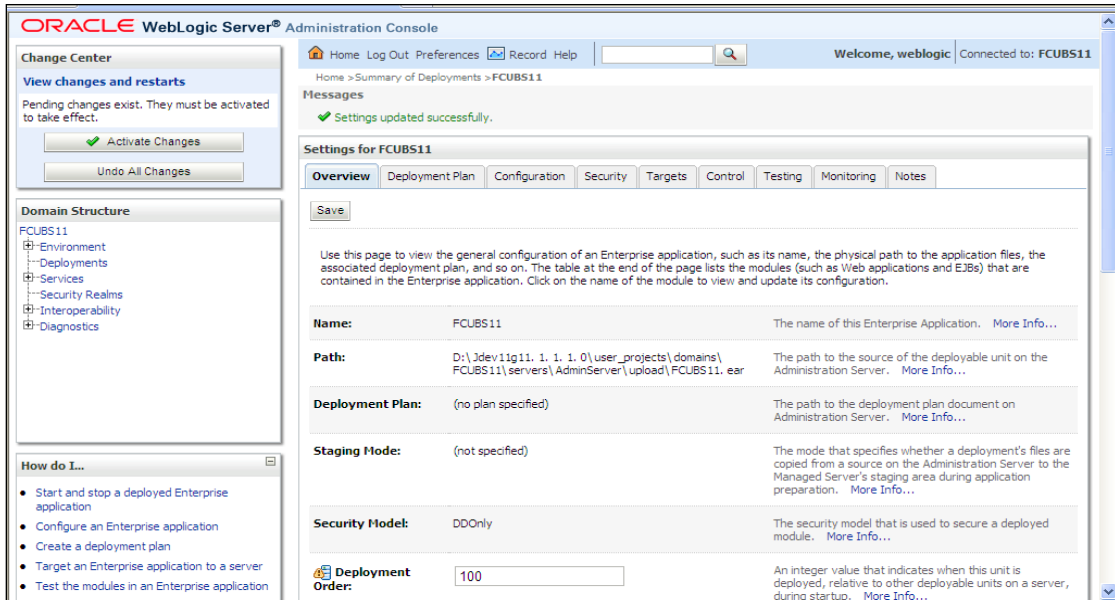
16. Click 'Finish' button.

The following screen is displayed.



17. Click 'Save' button.

The message 'Settings updated successfully' is displayed.



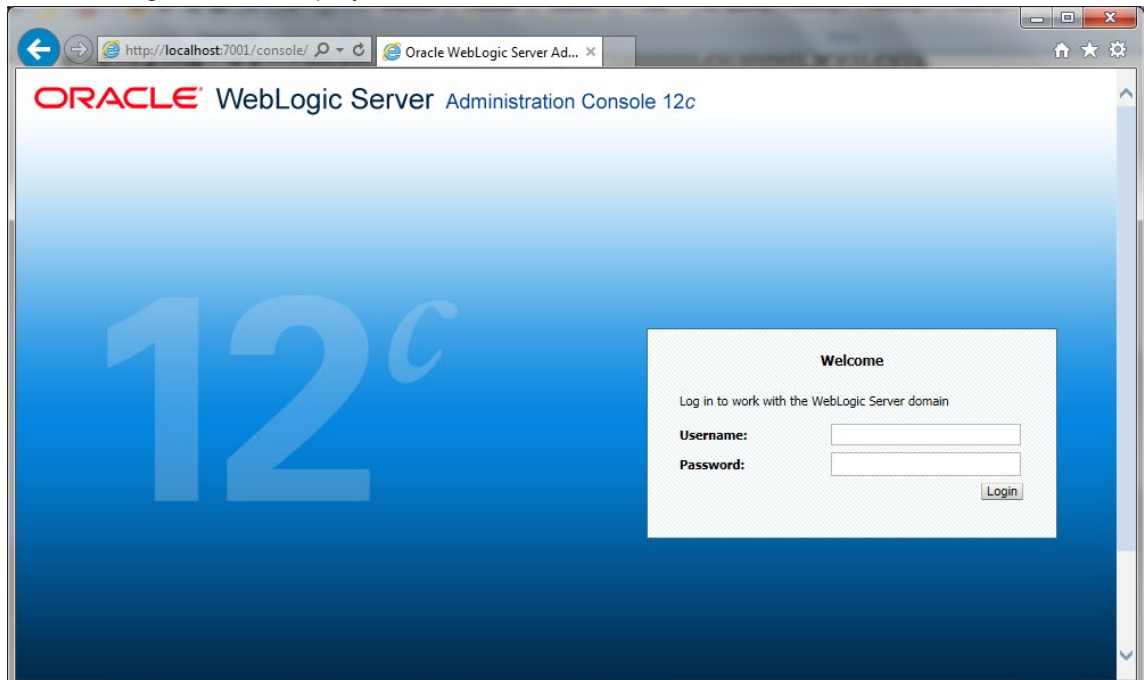
18. Click 'Activate Changes' button on the left pane. The message 'All the changes have been activated. No restarts are necessary' is displayed.

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:

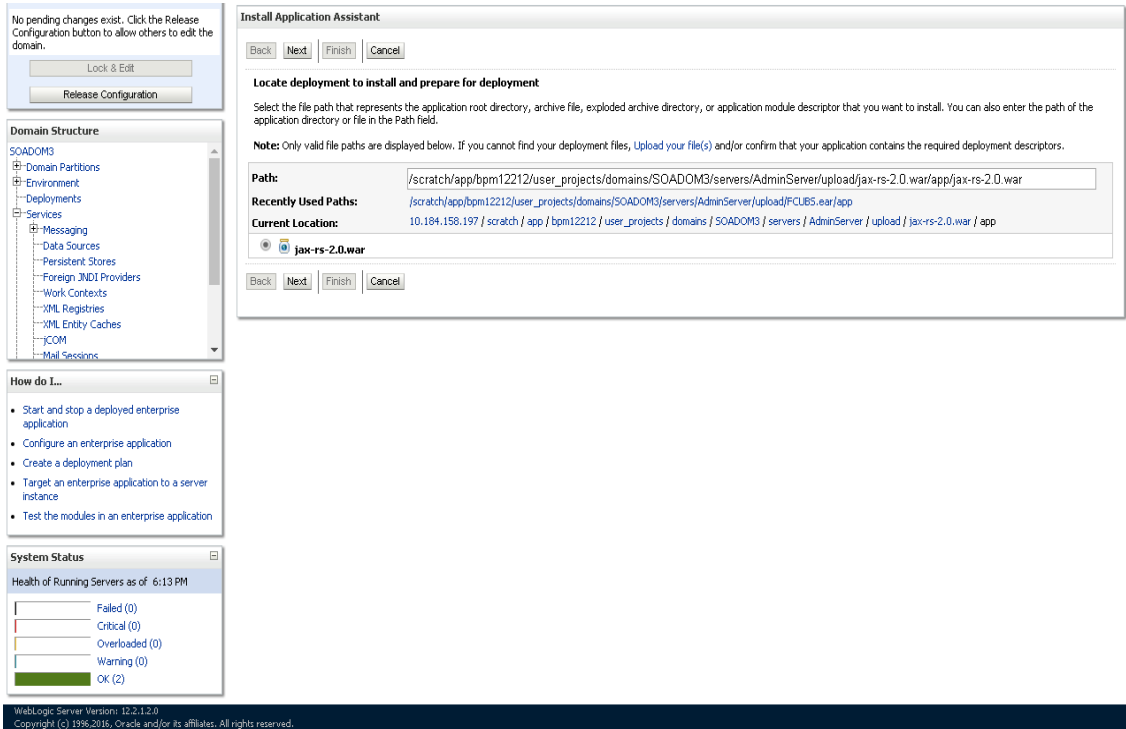


2. Specify the WebLogic administrator user name and password. Click 'Log In'.

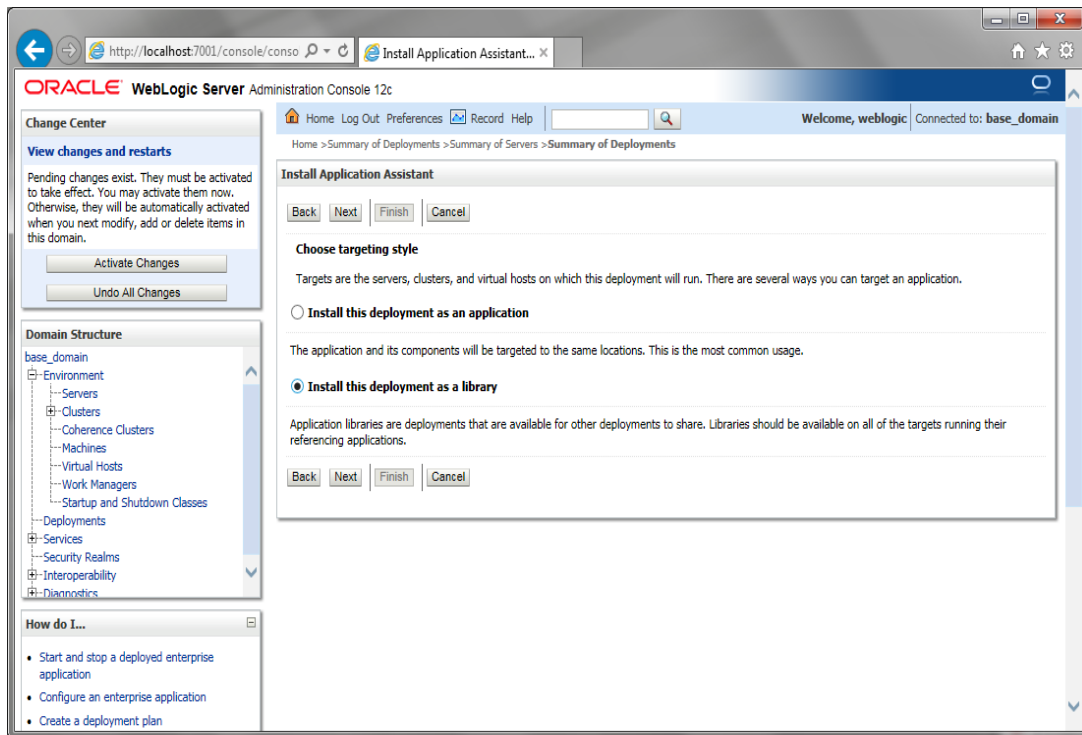
The following screen is displayed:

3. Click Install button.

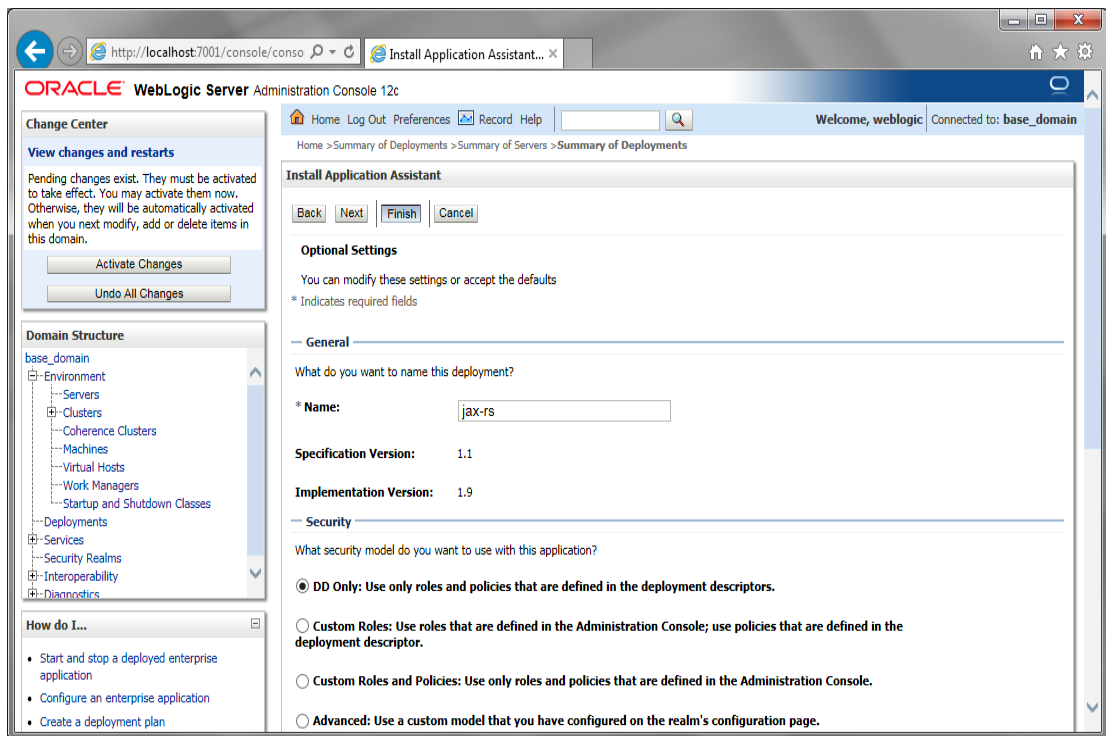
Name	State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
adf.oracle.businesseditor(1.0,12.2.1.0.0)	Active		Library	AdminServer_payments_pm_server1	Global		100
adf.oracle.domain(1.0,12.2.1.0.0)	Active		Library	AdminServer_payments_pm_server1	Global		100
adf.oracle.domain.webapp(1.0,12.2.1.0.0)	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_tec_000.jar	Active		Library	AdminServer_payments	Global		100



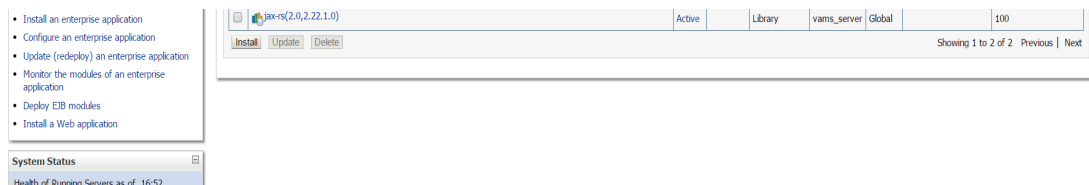
- Navigate and select jersey bundle under the path “*w\server\common\deployable-libraries\jax-rs-2.0.war*” and click next.



- 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 FCUBS Application from WebLogic Administration Console

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

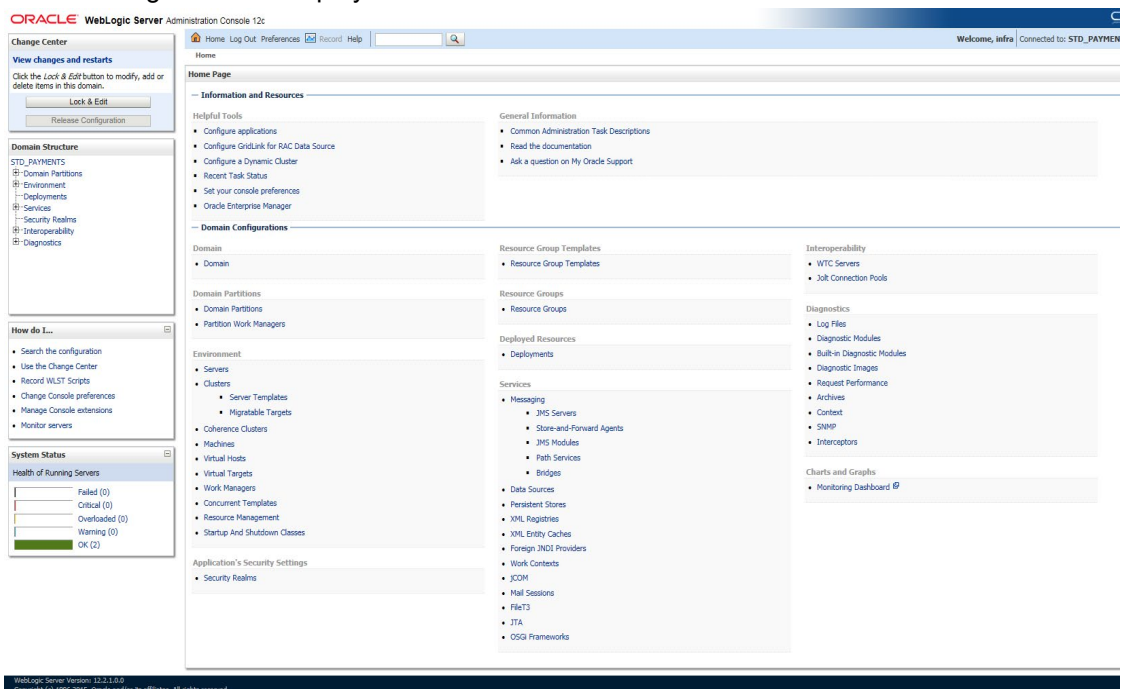
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser. Eg: <http://10.10.10.10:1001/console>

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.

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. The table has the following columns: Name, State, Health, Type, Targets, Scope, Domain Partitions, and Deployment Order. The table lists various JAR files and applications, all with a state of 'Active' and 'OK' health.

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
OHS Application (12.2.1.0.4)	Active	OK	Web Application	AdminServer_payments, pm_server1	Global		5
em	Active	OK	Enterprise Application	AdminServer_payments	Global		400
emagentdimplpriv_jar(12.4.12.1.0.4.0)	Active		Library	AdminServer_payments	Global		100
emagentdinst_jar(12.4.12.1.0.4.0)	Active		Library	AdminServer_payments	Global		100
emagentd_jar(12.4.12.1.0.4.0)	Active		Library	AdminServer_payments	Global		100
emase	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
emcoreinstsk_jar(11.2.0.1.0.12.1.0.0.0)	Active		Library	AdminServer_payments	Global		100
emcorepbs_jar	Active		Library	AdminServer_payments	Global		100
emcorereadskmp_jar(11.2.0.1.0.12.1.0.0.0)	Active		Library	AdminServer_payments	Global		100
emcorereadskmp_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

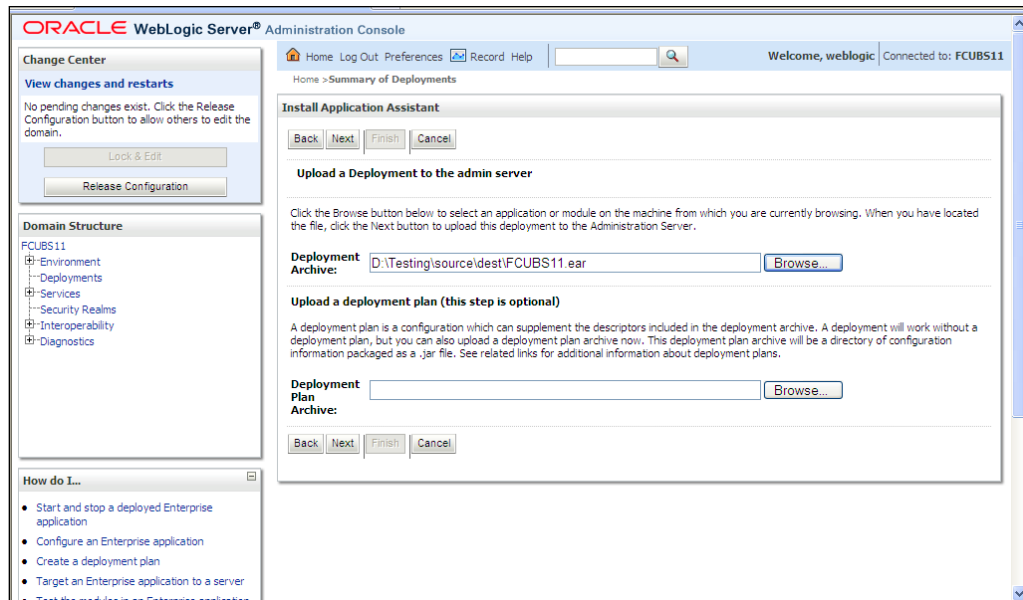
- Click 'Install' button.

The following screen is displayed:

The screenshot shows the 'Install Application Assistant' dialog in the Oracle WebLogic Server Administration Console. The 'Path' field is set to 'D:\'. The 'Recently Used Paths' list is empty. The 'Current Location' is 'ddhp0520.i-flex.com \D:'. A file explorer view shows the contents of the 'D:\' directory, including folders like '11.0', '9NT1272', 'APPPOINT SOFTWARE SOLUTIONS', 'backup', 'bea', 'bea11g', 'bea_100', 'BmDbs', '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'.

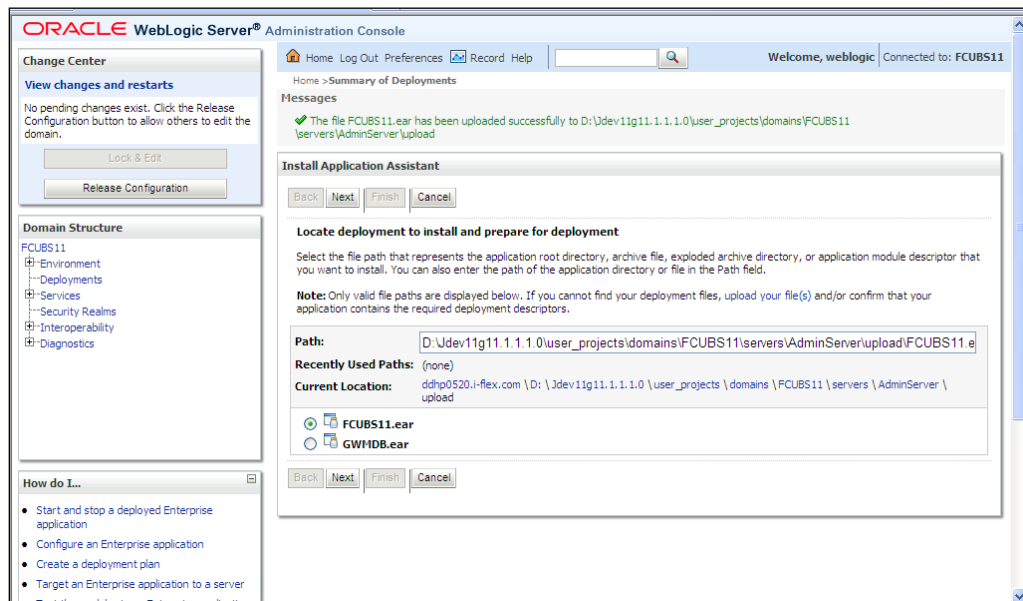
The following screen is displayed:



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

9. Click 'Next'.

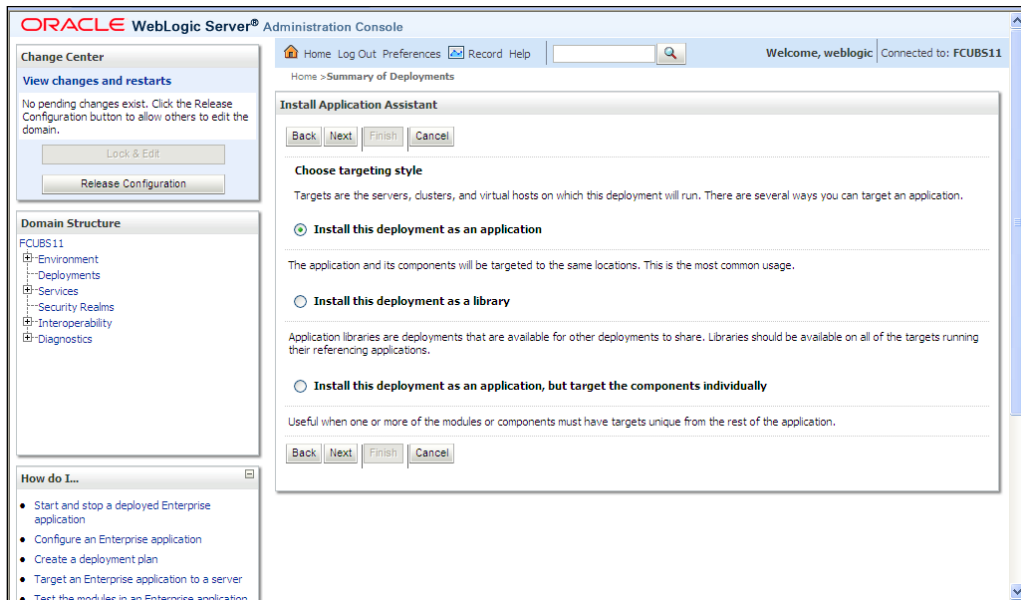
The following screen is displayed.



10. Select the application FCUBS EAR from the list.

11. Click 'Next'.

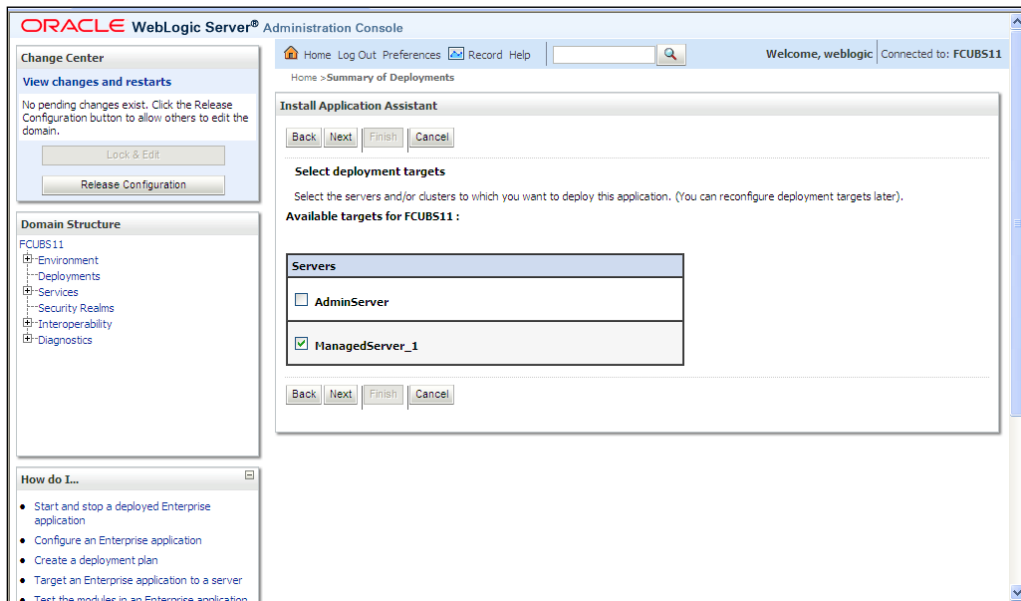
The following screen is displayed:



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

13. Click 'Next'.

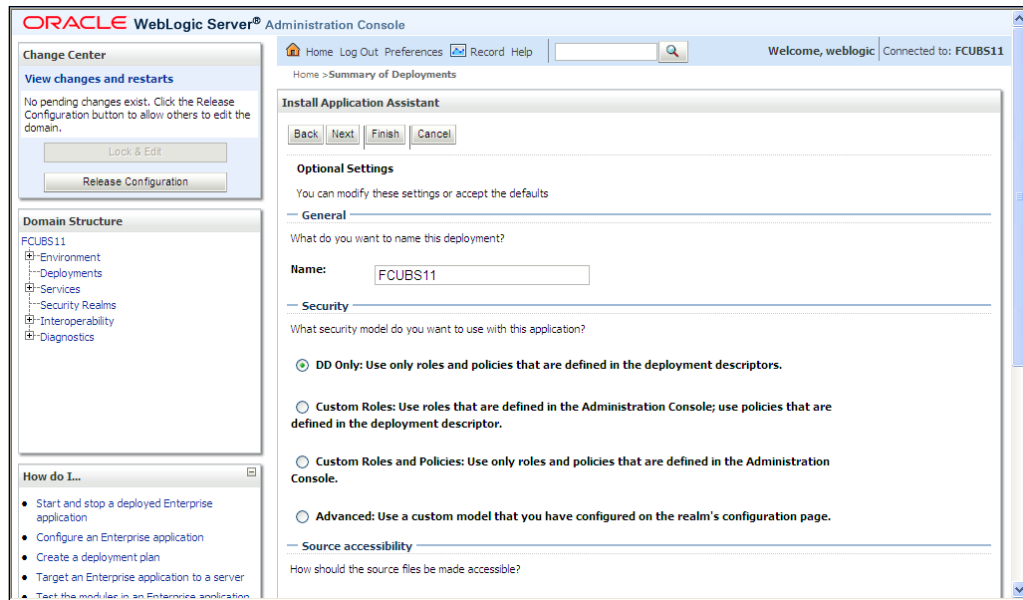
The following screen is displayed



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

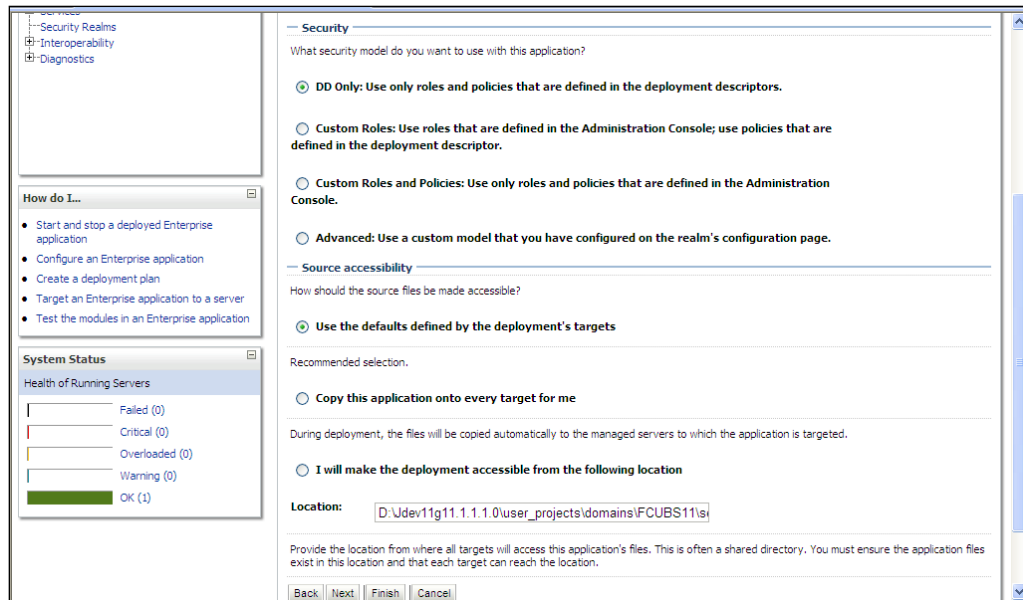
15. Click 'Next'.

The following screen appears.



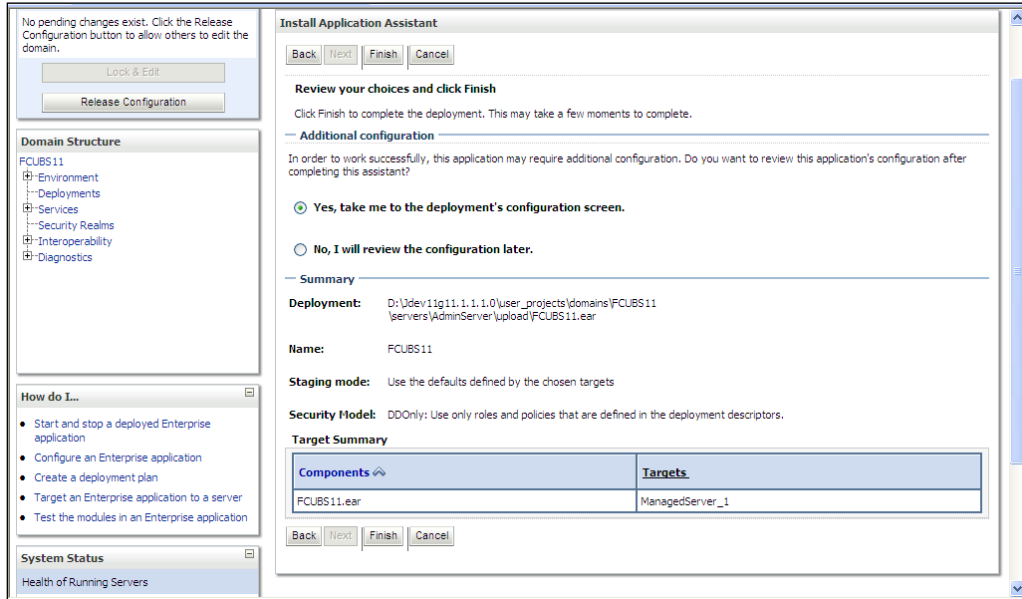
16. Check the deployment name.

The remaining portion of the screen is shown below:



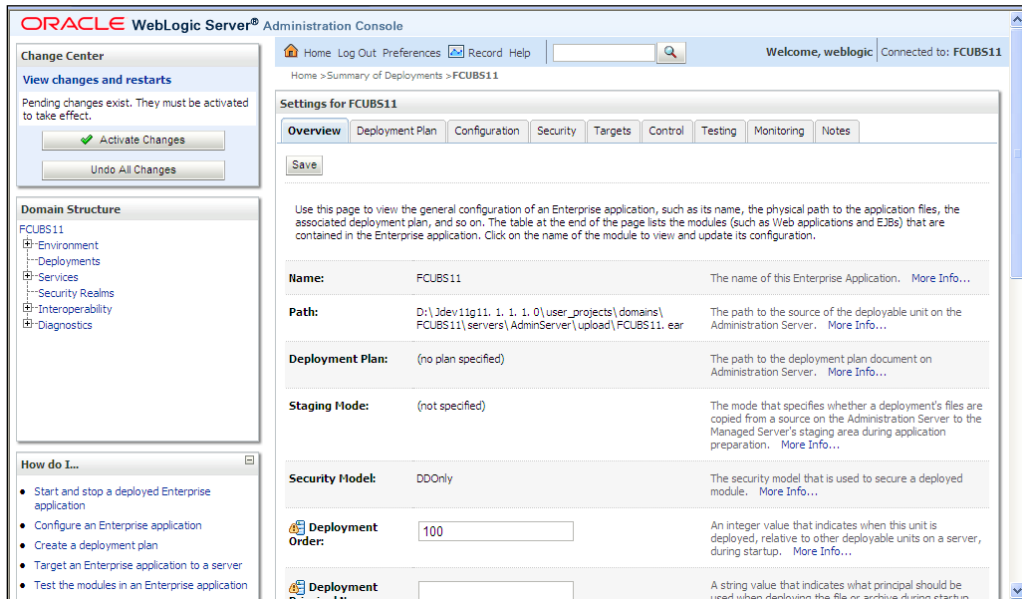
17. Check whether the deployment location is accessible or not.

The following screen is displayed.

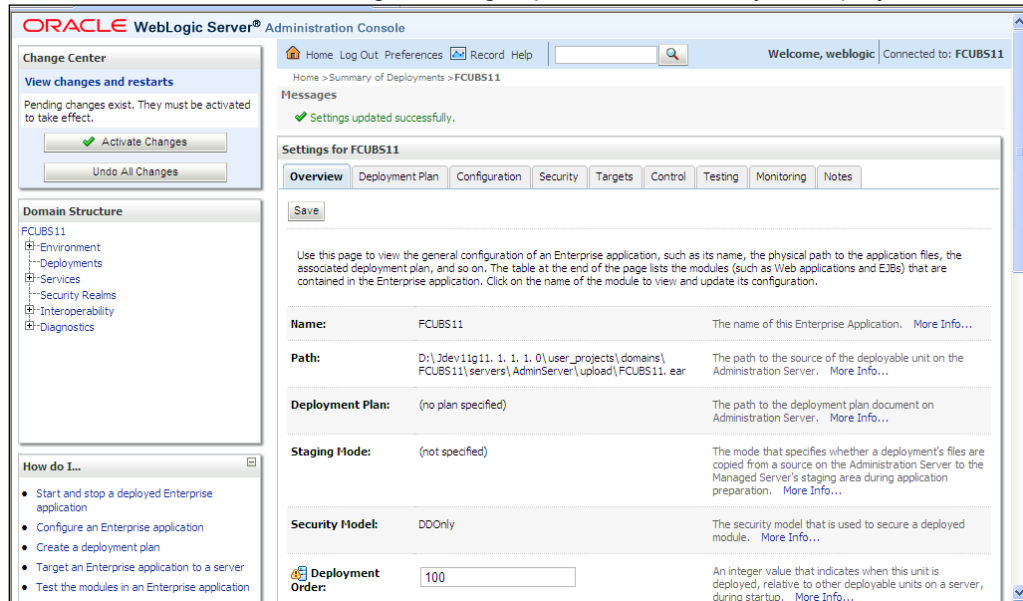


18. Click 'Finish' button. The following screen is displayed.

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

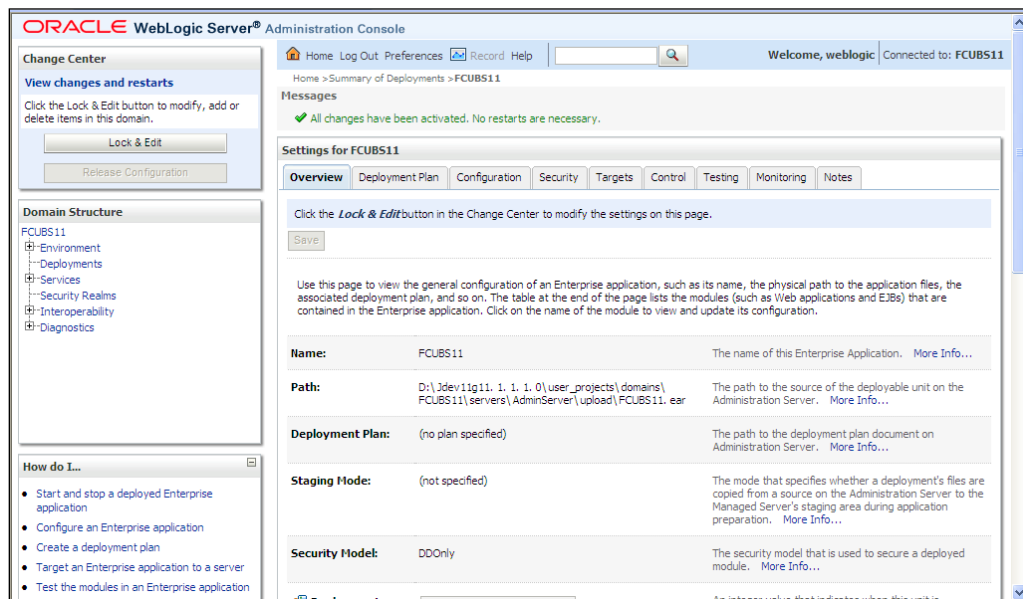


19. Click 'Save' button. The message 'Settings updated successfully' is displayed.

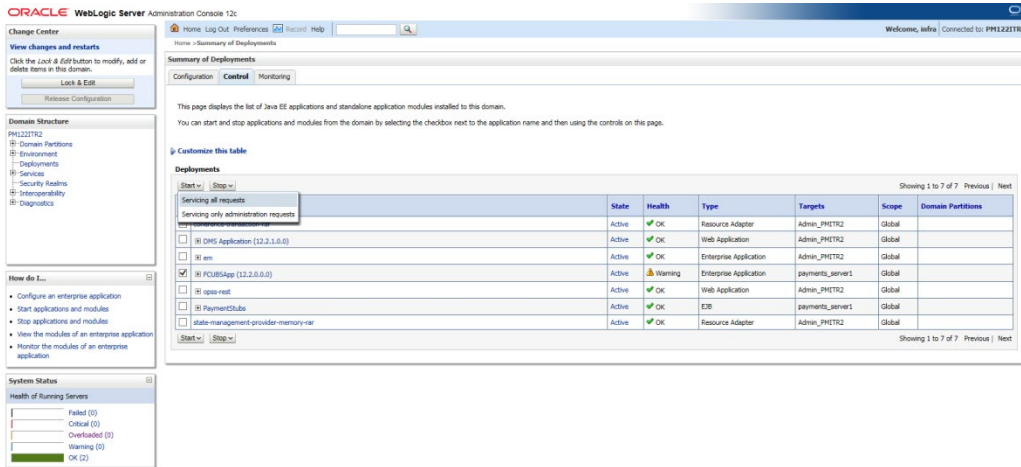


20. Click 'Activate Changes' button on the left pane. The message 'All the changes have been activated. No restarts are necessary' is displayed.

The screen is given below:

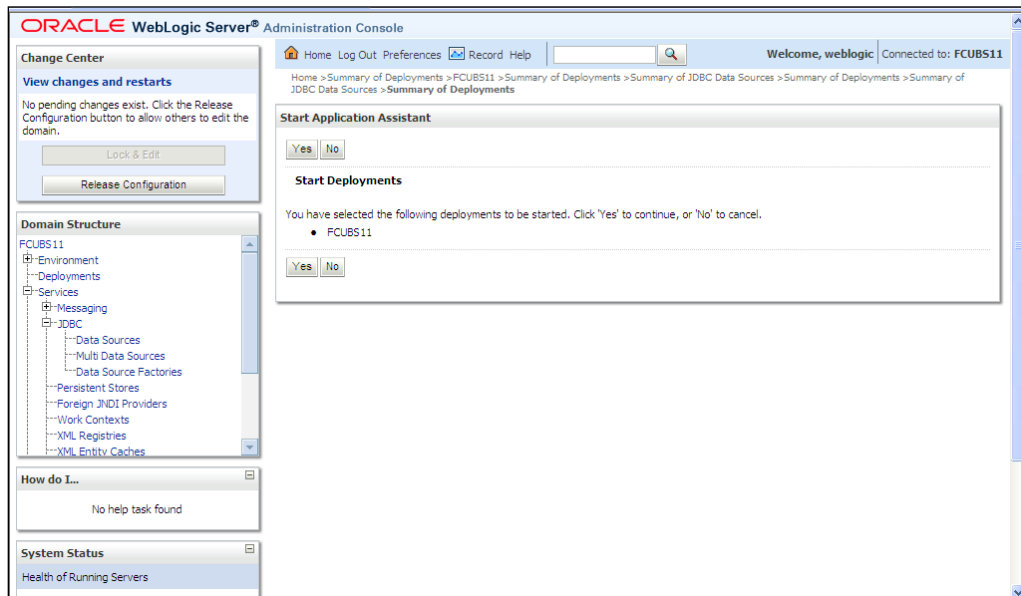


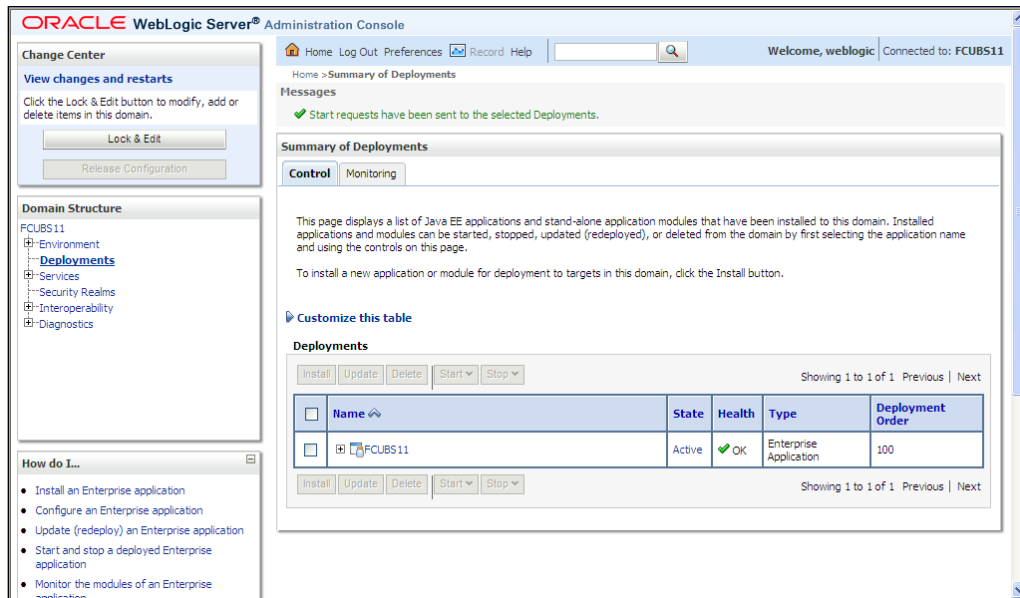
21. Click 'Deployment' on the left pane. Switch to Control tab. The following screen is displayed.



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.

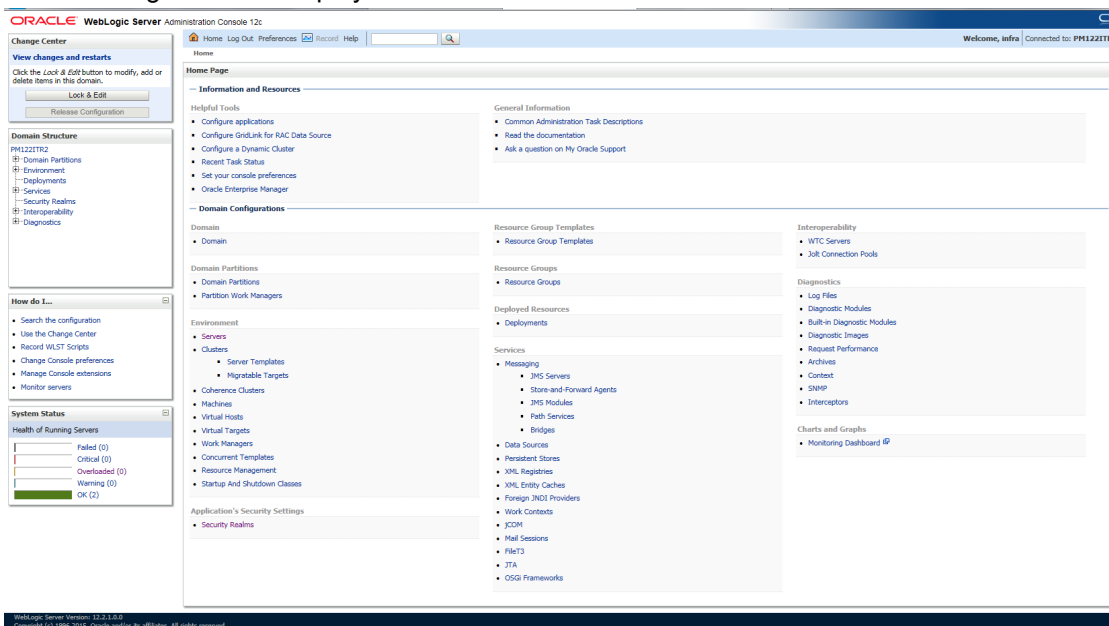
Eg: <http://10.10.10.10:1001/console>

The following screen is displayed:



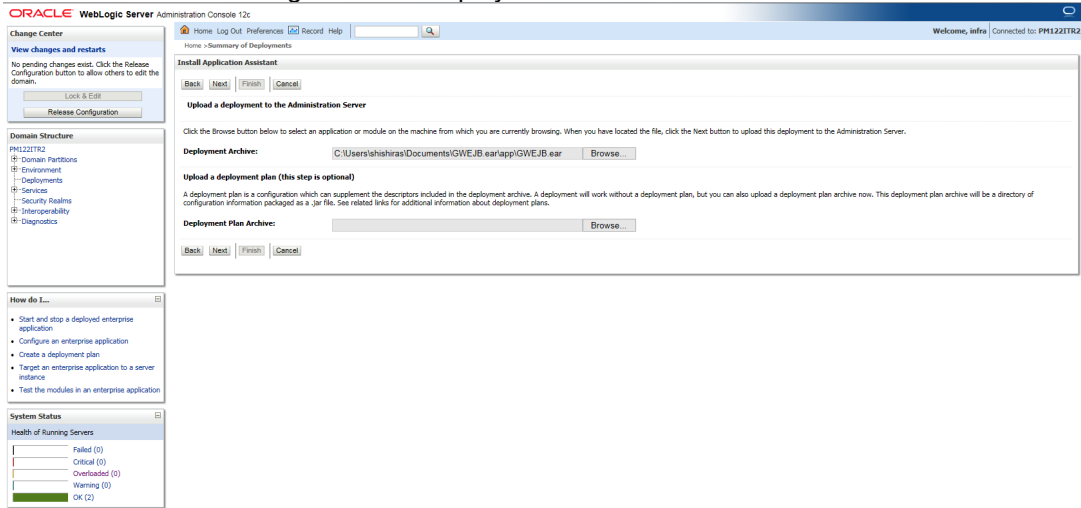
2. Specify the WebLogic administrator user name and password. Click 'Log In'.

The following screen is displayed:



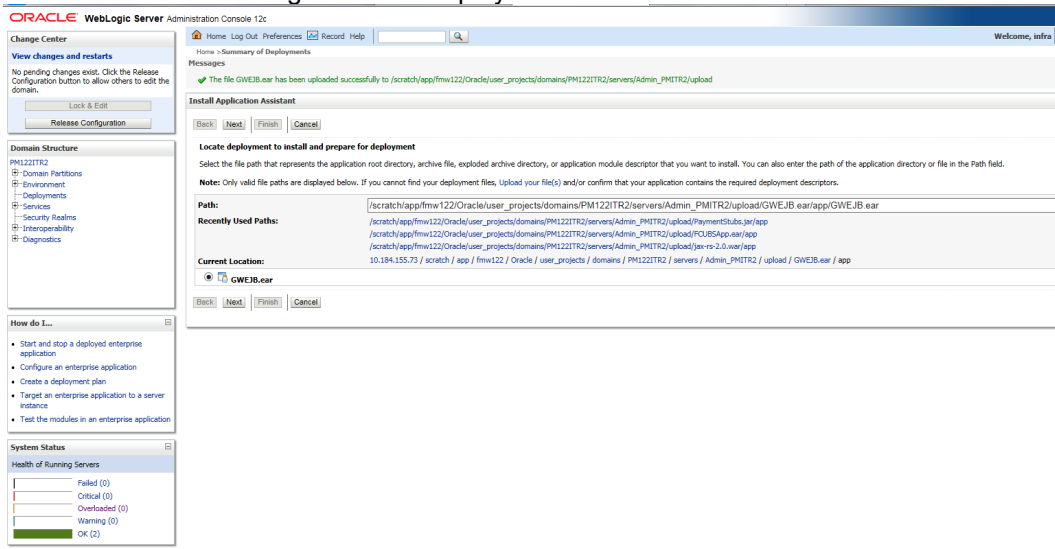
3. You need to deploy an EAR. For e.g. 'GWEJB.ear'. Go to 'Deployment'.

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



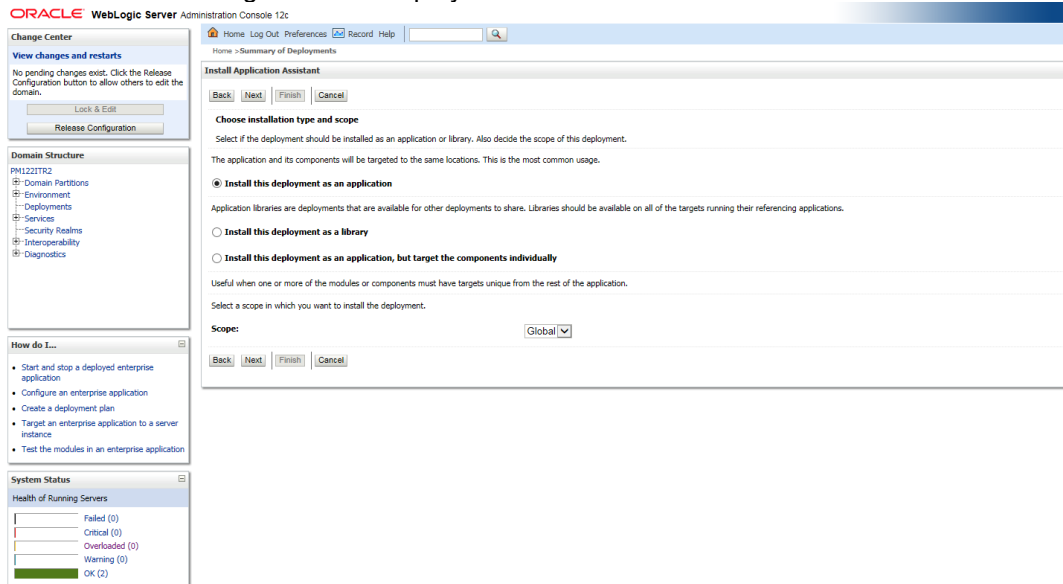
8. Specify the EAR file path. You can use the 'Browse' button to locate the file.

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



10. Select the application from the list.

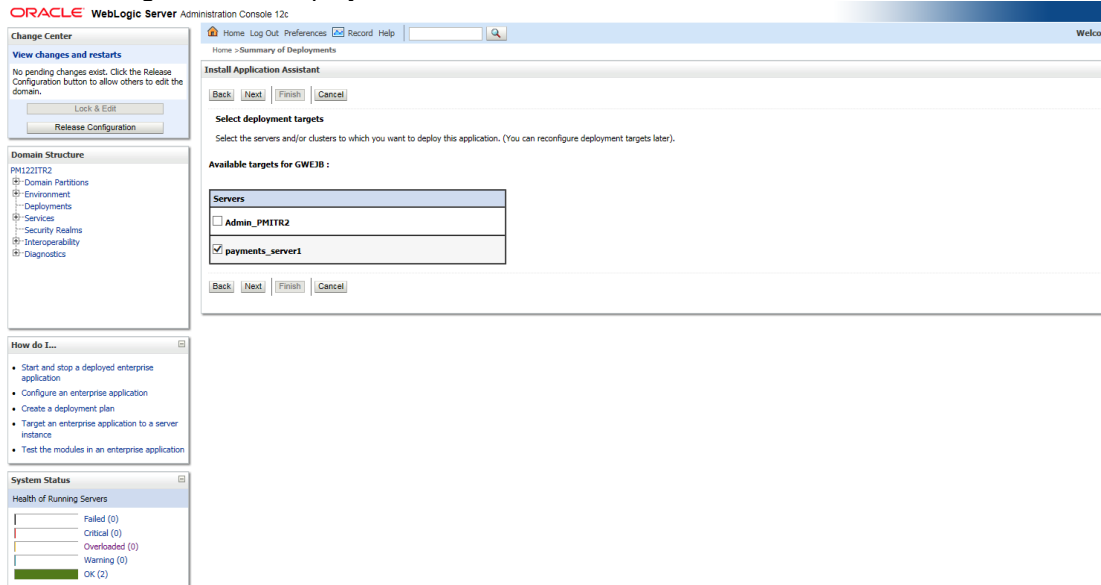
11. Click 'Next'. Following screen is displayed:



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.

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Home > Summary of Deployments

Install Application Assistant

Back Next Finish Cancel

Review your choices and click Finish

Click Finish to complete the deployment. This may take a few moments to complete.

— **Additional Configuration**

In order to work successfully, this application may require additional configuration. Do you want to review this application's configuration after completing this assistant?

Yes, take me to the deployment's configuration screen.

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: DDOnly: Use only roles and policies that are defined in the deployment descriptors.

Scope: Global

Target Summary

Components	Targets
GWEJB.ear	payments_server1

Back Next Finish Cancel

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

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, infra Con

Home > Summary of Deployments > GWEJB(12.2.0.0.0)

Settings for GWEJB(12.2.0.0.0)

Overview Deployment Plan Configuration Security Targets Control Testing Monitoring Notes

Save

Use this page to view the general configuration of an enterprise application, such as its name, the physical path to the application files, the associated deployment plan, and so on. The table at the end of the page lists the modules (such as Web applications) contained in the enterprise application. Click on the name of the module to view and update its configuration.

Name: GWEJB The name of this enterprise application. More Info...

Scope: Global Specifies if this enterprise application is accessible within the domain, a partition, or a resource template. More Info...

Archive Version: 12.2.0.0.0 The archive version, specified from the manifest or overridden during deployment. More Info...

Path: /scratch/app/fmw122/Oracle/user_projects/domains/PM1221TR2/servers/Admin_PM12R2/upload/GWEJB.ear/app/GWEJB.ear The path to the source of the deployable unit on the Administration Server. More Info...

Deployment Plan: (no plan specified) The path to the deployment plan document on the Administration Server. More Info...

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. More Info...

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. More Info...

Security Model: DDOnly The security model that is used to secure a deployed module. More Info...

Deployment Order: 100 An integer value that indicates when this unit is deployed, relative to other deployable units during startup. More Info...

Deployment Principal Name: A string value that indicates the principal that should be used when deploying the file or an and shutdown. This principal will be used to set the current subject when calling out into an interface such as ApplicationLifecycleListener. If no principal name is specified, then the default will be used. More Info...

Save

Modules and Components Showing 1 to 1 of 1

Name
GWEJB (12.2.0.0.0)
ERB
PCMainProcERB
PCSVRouterERB
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. A 'Save' button is visible at the top left of the settings area. The 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. The left-hand navigation pane shows the 'Change Center' with 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-hand navigation pane, the 'Activate Changes' button in the 'Change Center' section is highlighted, indicating it has been clicked.

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
Servicing all requests		Active	OK	Resource Adapter	Admin_PMTTR2	Global	
Servicing only administration requests		Active	OK	Resource Adapter	Admin_PMTTR2	Global	
<input type="checkbox"/>		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	

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
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