

Deploying Oracle FLEXCUBE Application on WebLogic
Oracle Banking Corporate Lending
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Table of Contents

- 1. DEPLOYING ORACLE FLEXCUBE ON WEBLOGIC1-1**
- 1.1 INTRODUCTION 1-1
- 1.2 BUILDING APPLICATION 1-1
 - 1.2.1 *Building Application in Centralized Mode* 1-1
 - 1.2.2 *Building Application in Decentralized Mode* 1-1
- 1.3 DEPLOYING APPLICATION IN ORACLE WEBLOGIC 1-1
 - 1.3.1 *Deploying Integration Adapter EAR from WebLogic Administration Console* 1-1
 - 1.3.2 *Deploying Dependency Library “Jax-RS”* 1-7
 - 1.3.3 *Deploying FCUBS Application from WebLogic Administration Console* 1-10
 - 1.3.4 *Deploying Gateway/Scheduler Applications from WebLogic Administration Console* 1-19

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.

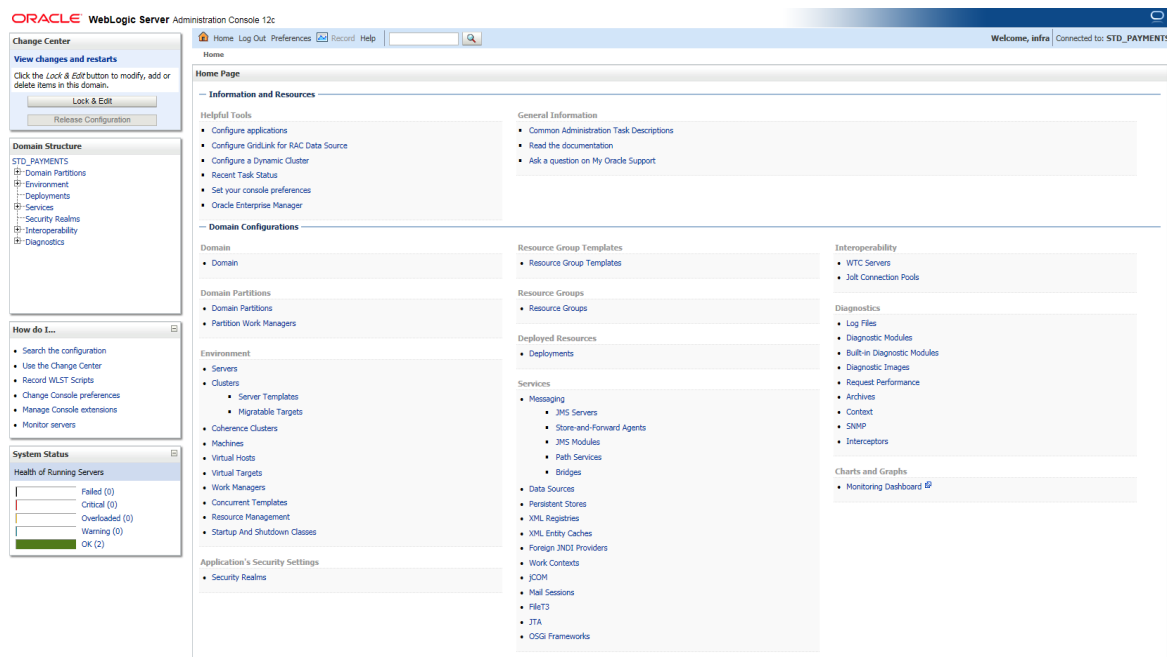
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser.

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

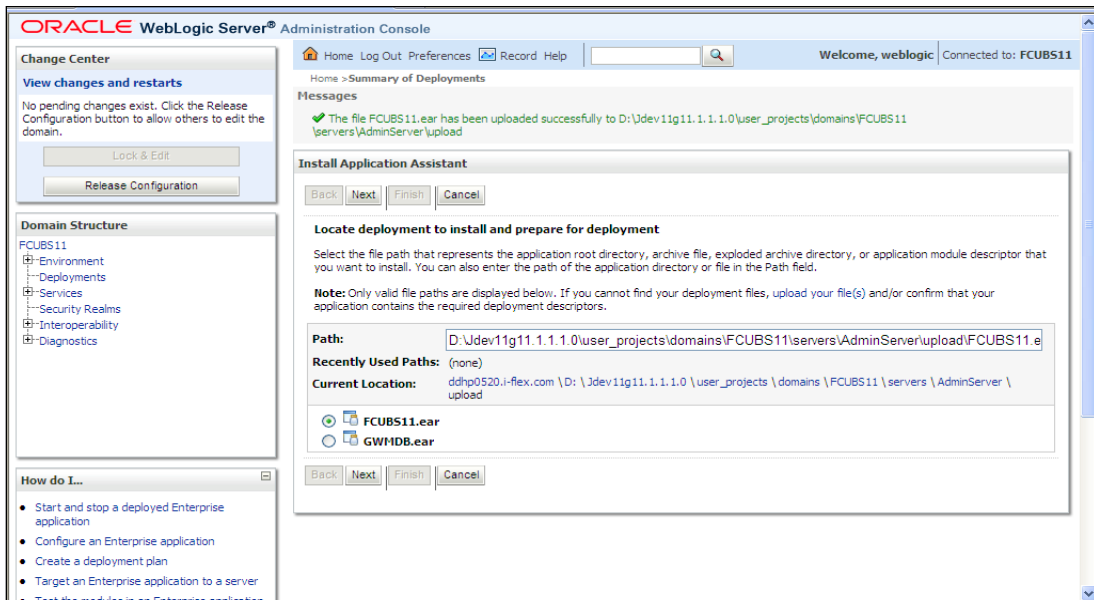
The following screen is displayed:



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



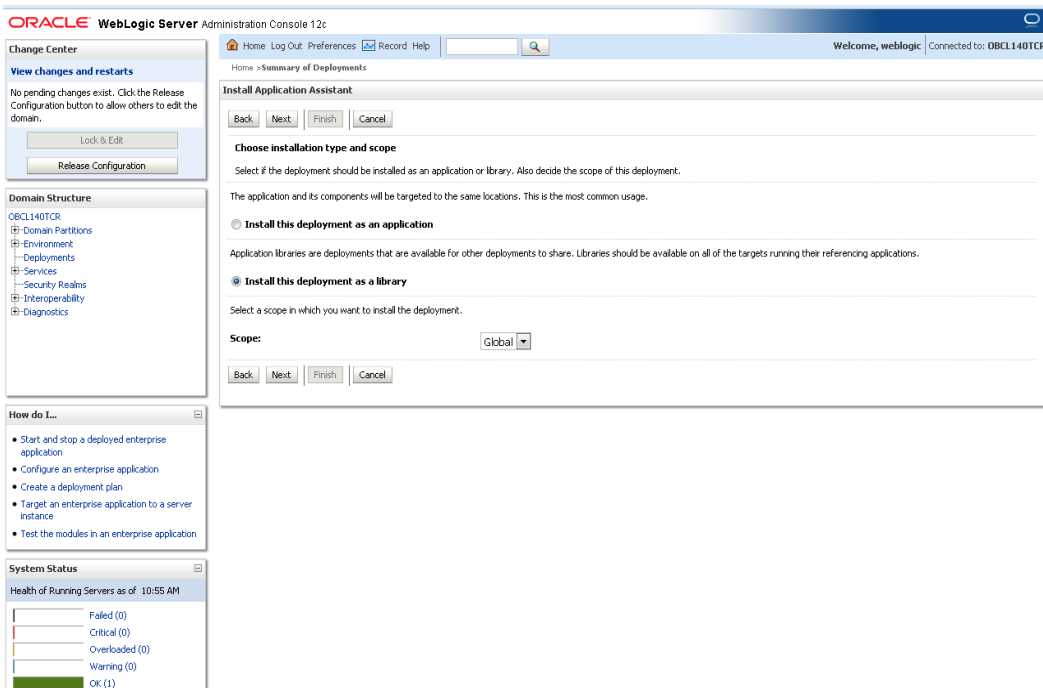
- You need to deploy an Integration adapter EAR. For e.g. 'OBCLExtAdapter.ear or ExtAdapter.ear'. Go to 'Deployment'.
- Click 'Lock & Edit' button to enable the buttons. This action enables the buttons.



9. Select the application Adapter EAR from the list.

10. Click 'Next'.

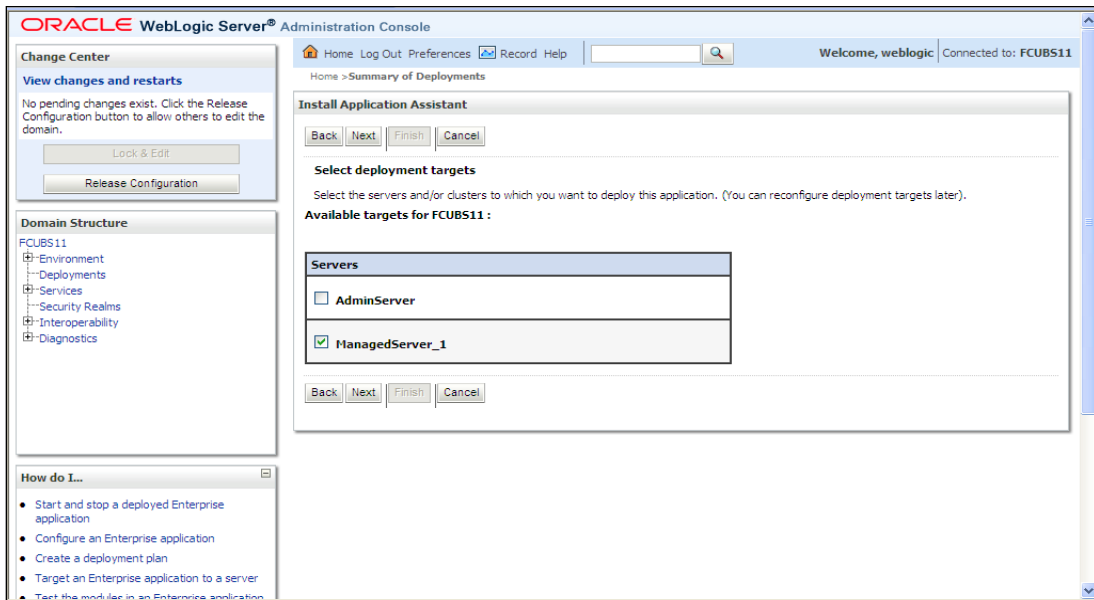
The following screen is displayed.



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

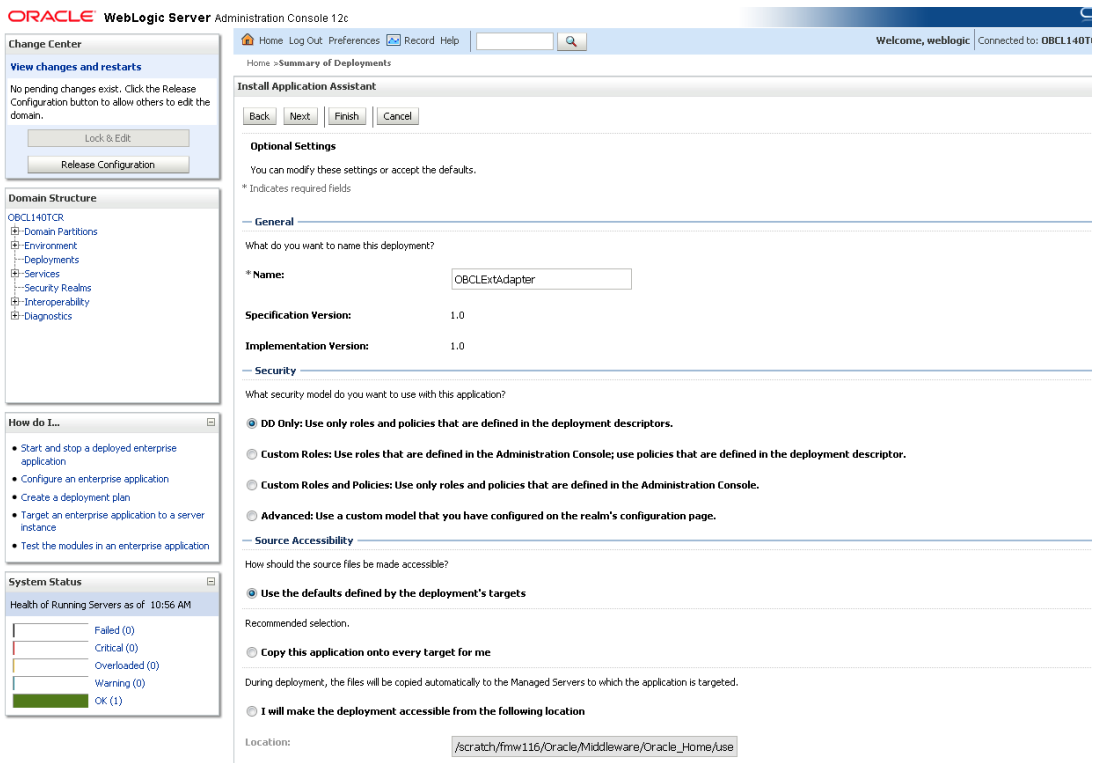
12. Click 'Next'.

The following screen is displayed.



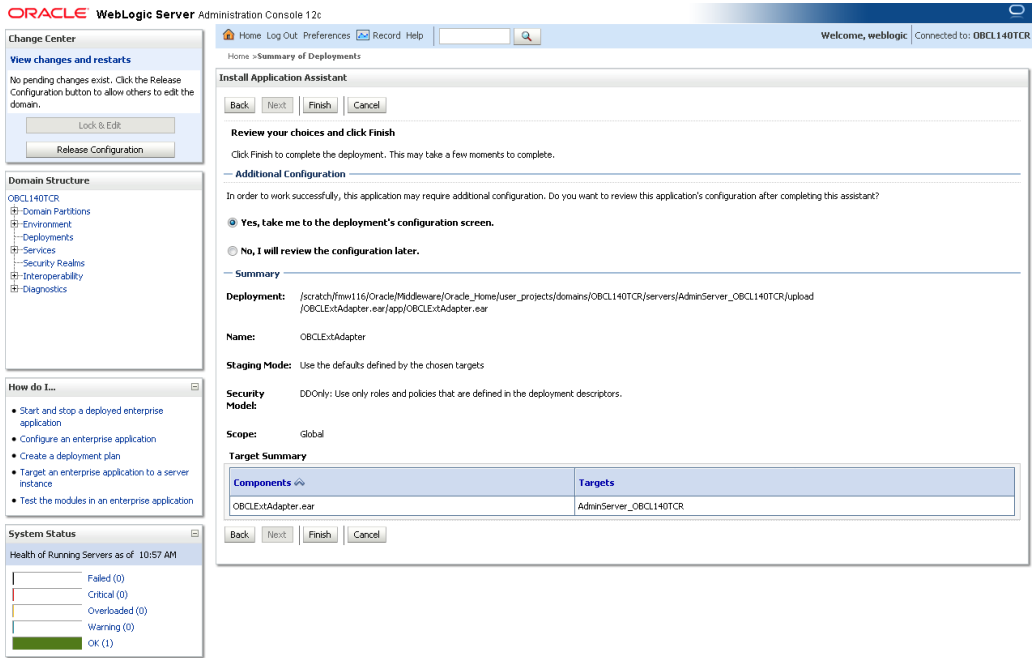
13. Select the target of the application. You can choose the server 'AdminServer' or 'Managed Server(s)'.

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



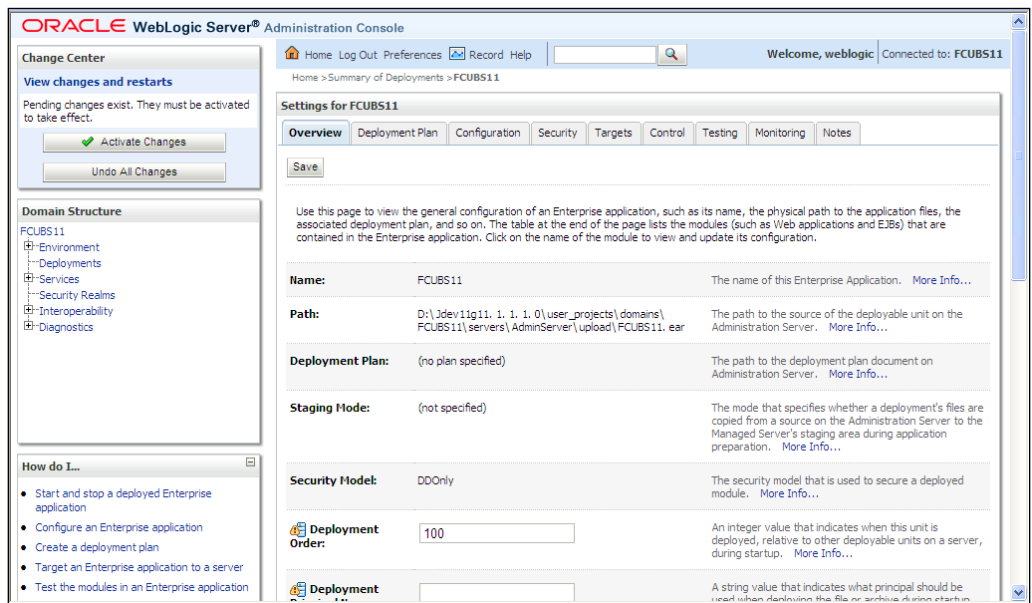
15. Check the deployment name.

The remaining portion of the screen is shown below:



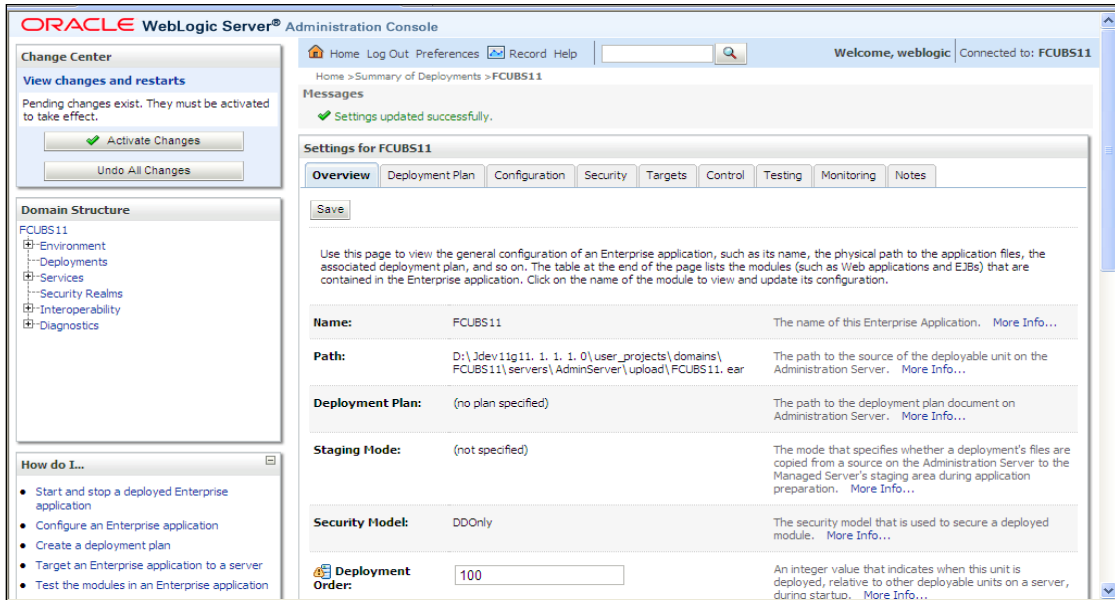
16. Click 'Finish' button.

The following screen is displayed.



17. Click 'Save' button.

The message 'Settings updated successfully' is displayed.



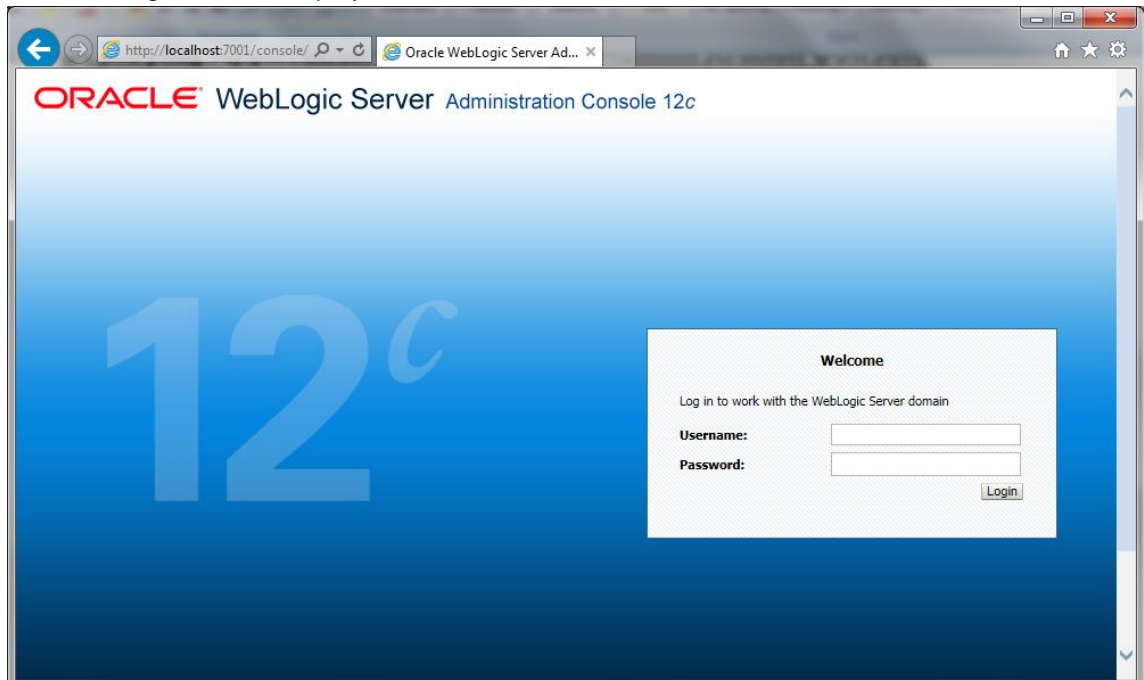
18. Click 'Activate Changes' button on the left pane. The message 'All the changes have been activated. No restarts are necessary' is displayed.

1.3.2 Deploying Dependency Library "Jax-RS"

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

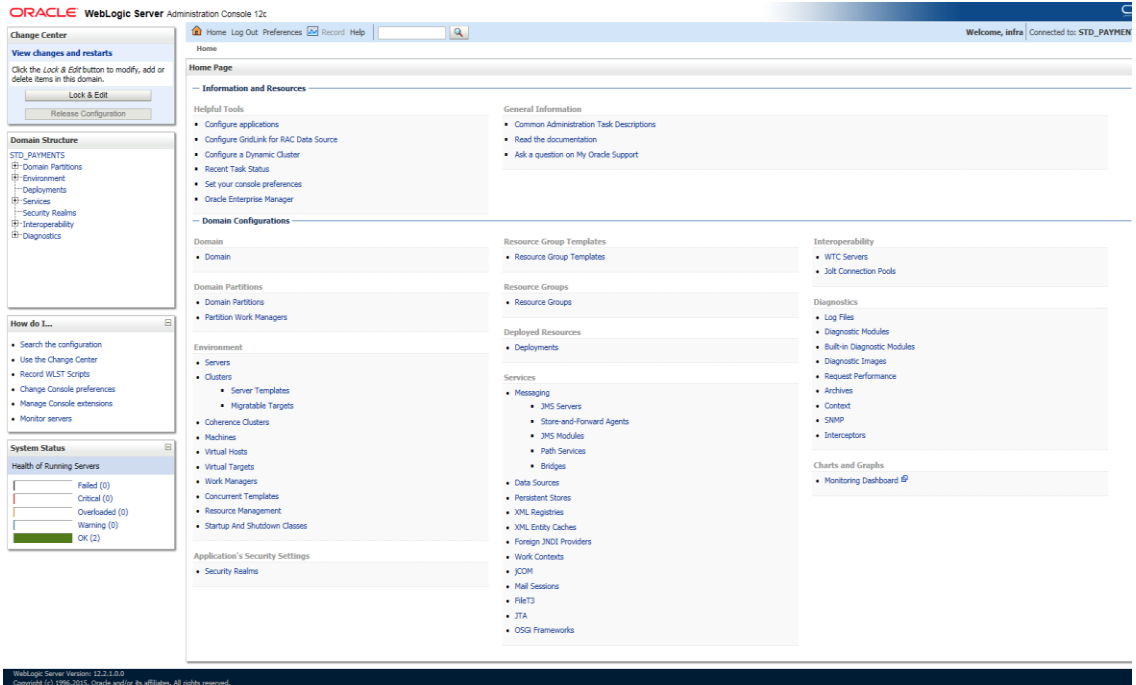
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser. Eg: `http://10.10.10.10:1001/console`

The following screen is displayed:

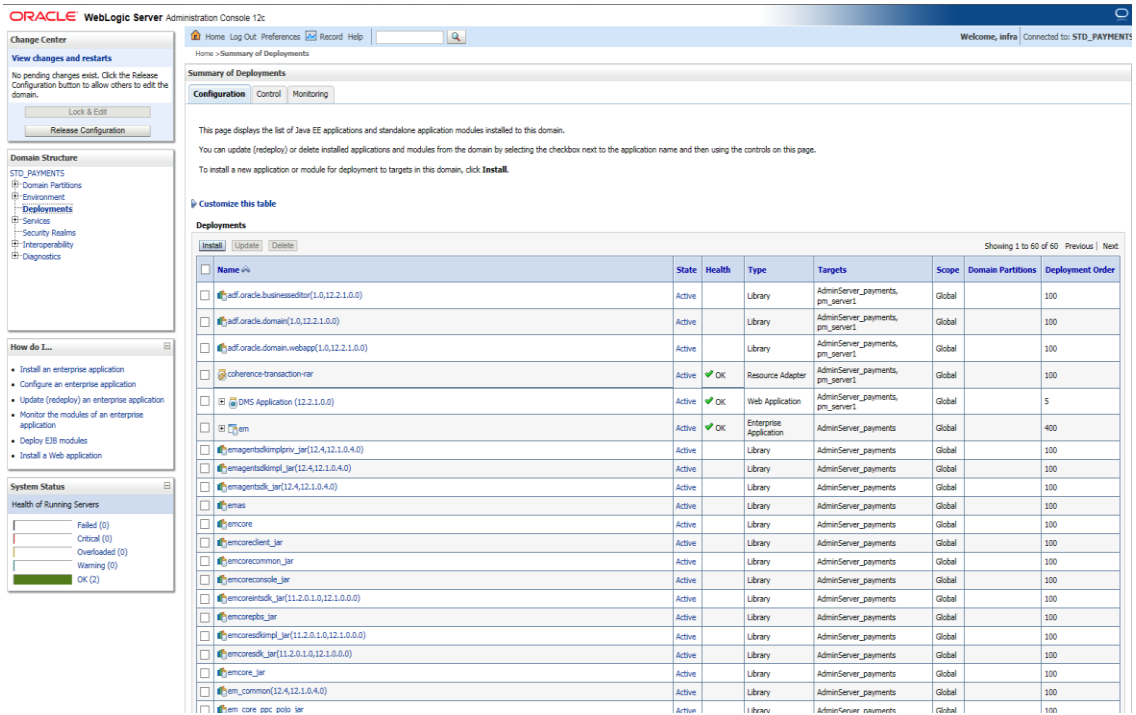


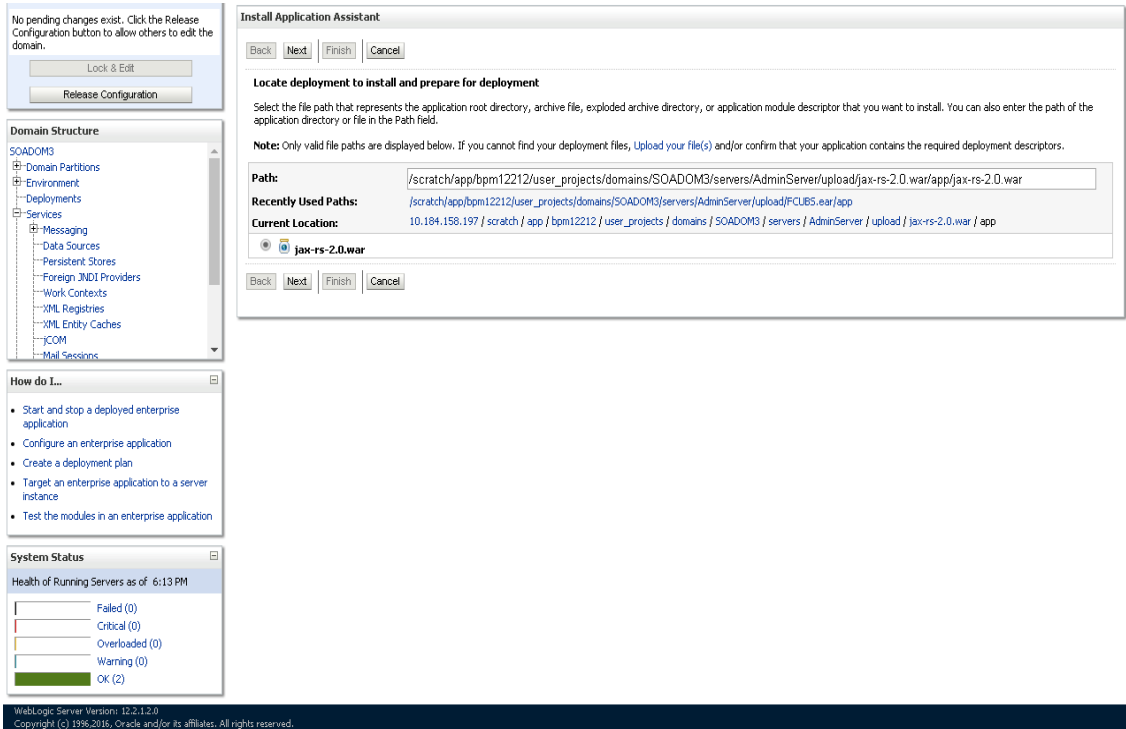
2. Specify the WebLogic administrator user name and password. Click 'Log In'.

The following screen is displayed:

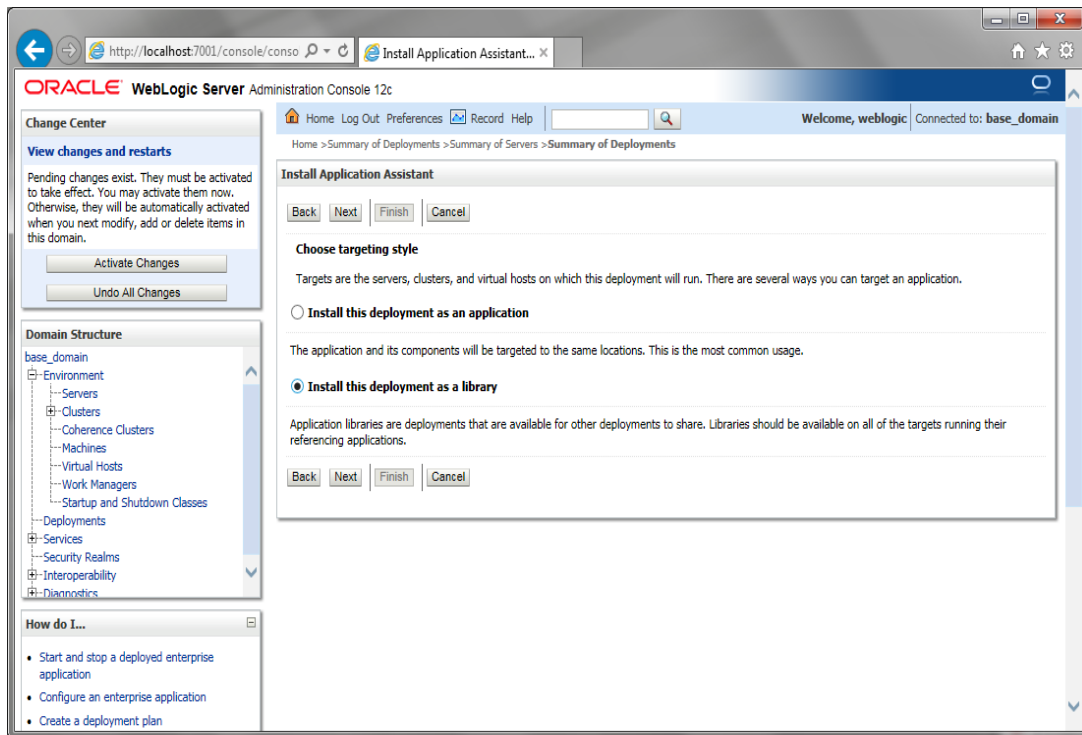


3. Click Install button.

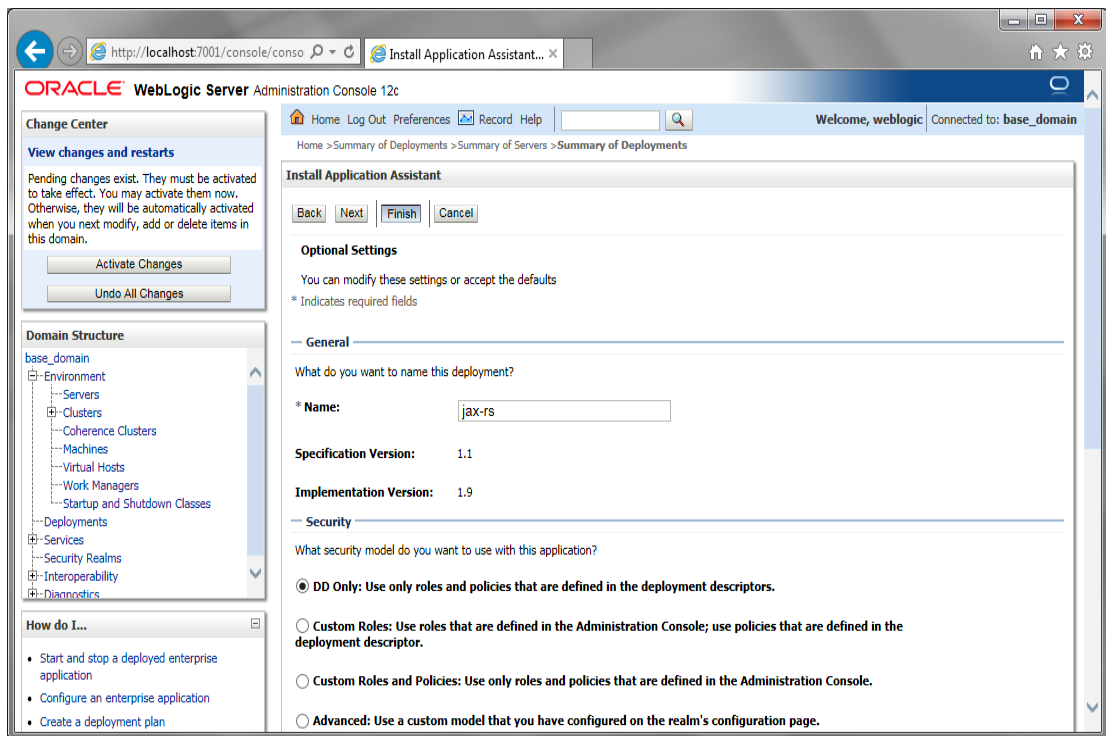




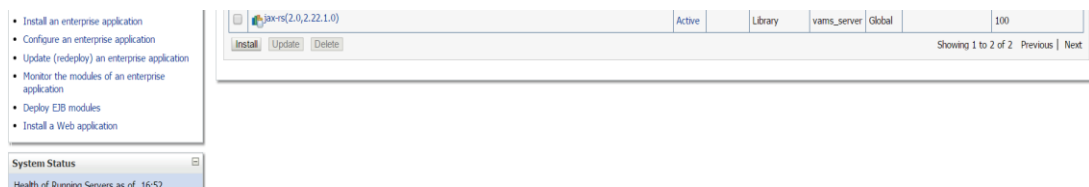
- Navigate and select jersey bundle under the path “w\server\common\deployable-libraries\jax-rs-2.0.war” and click next.



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



6. Click finish button.



This library must appear in the deployment with Type column as “Library”

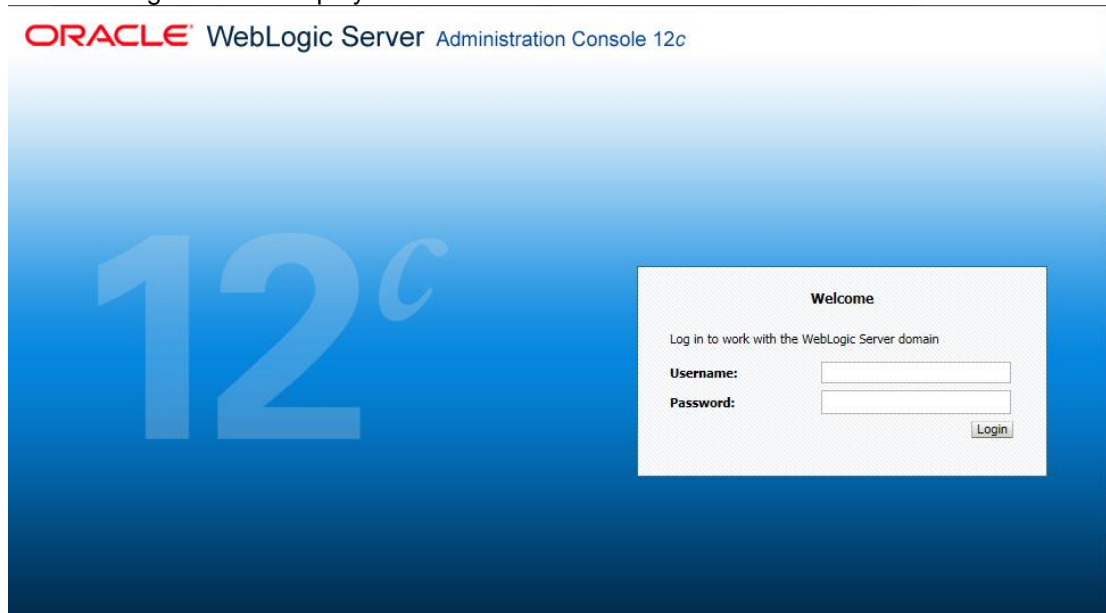
Note : Latest Jax-rs version will be jax-rs(2.0,2.22.1.0).

1.3.3 Deploying FCUBS Application from WebLogic Administration Console

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

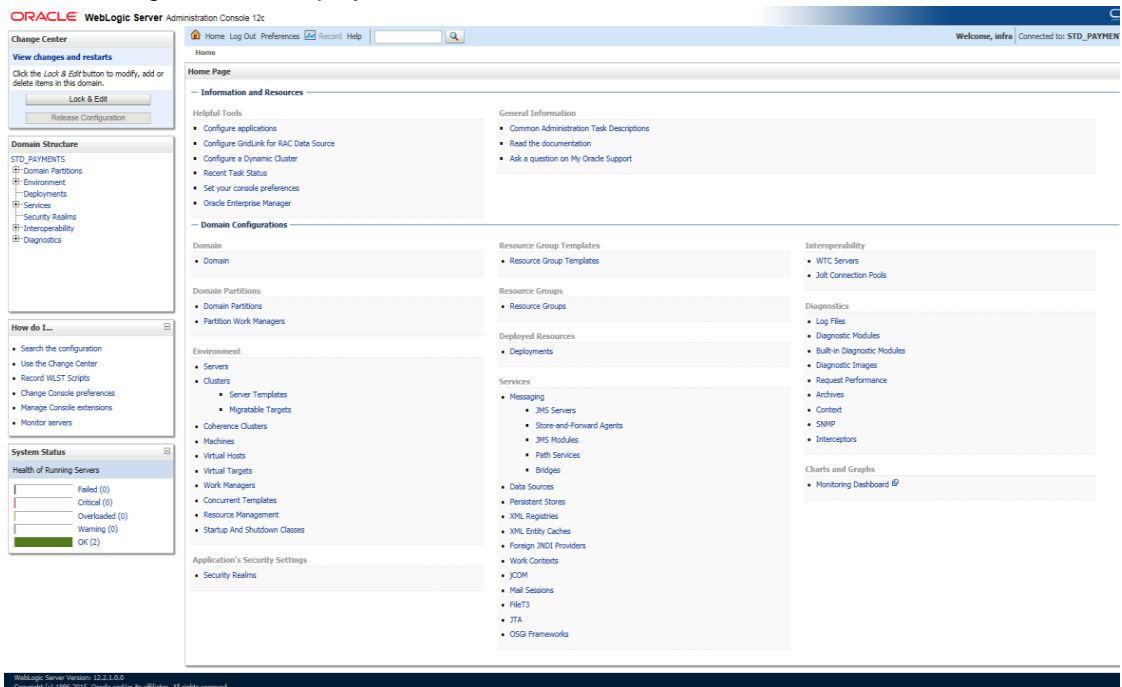
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser. Eg: <http://10.10.10.10:1001/console>

The following screen is displayed:



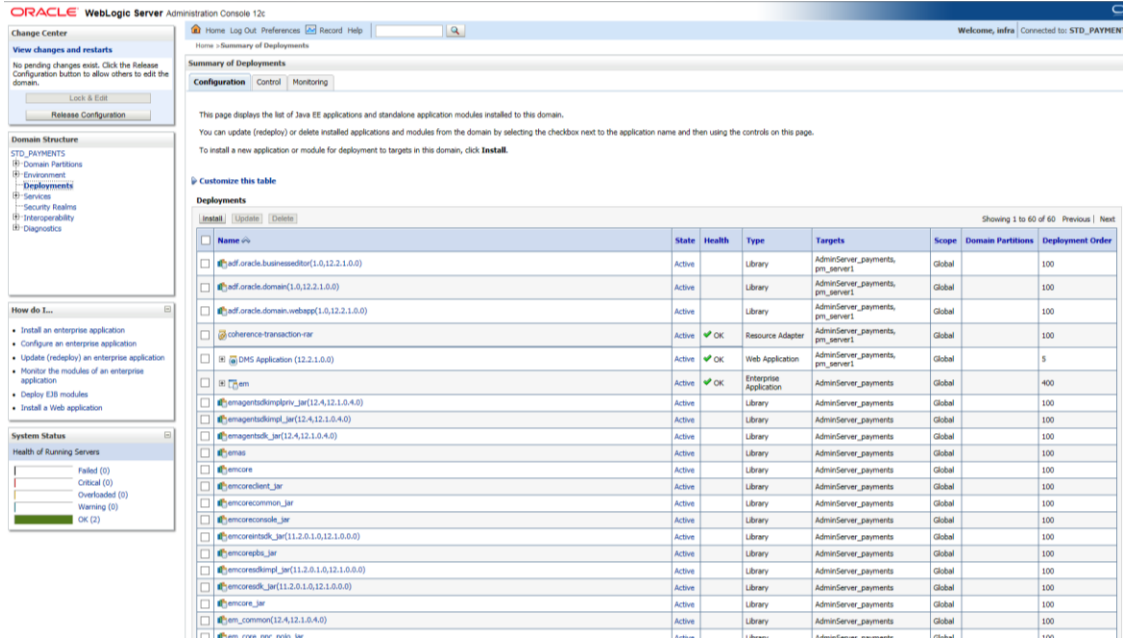
2. Specify the WebLogic administrator user name and password. Click 'Log In'.

The following screen is displayed:



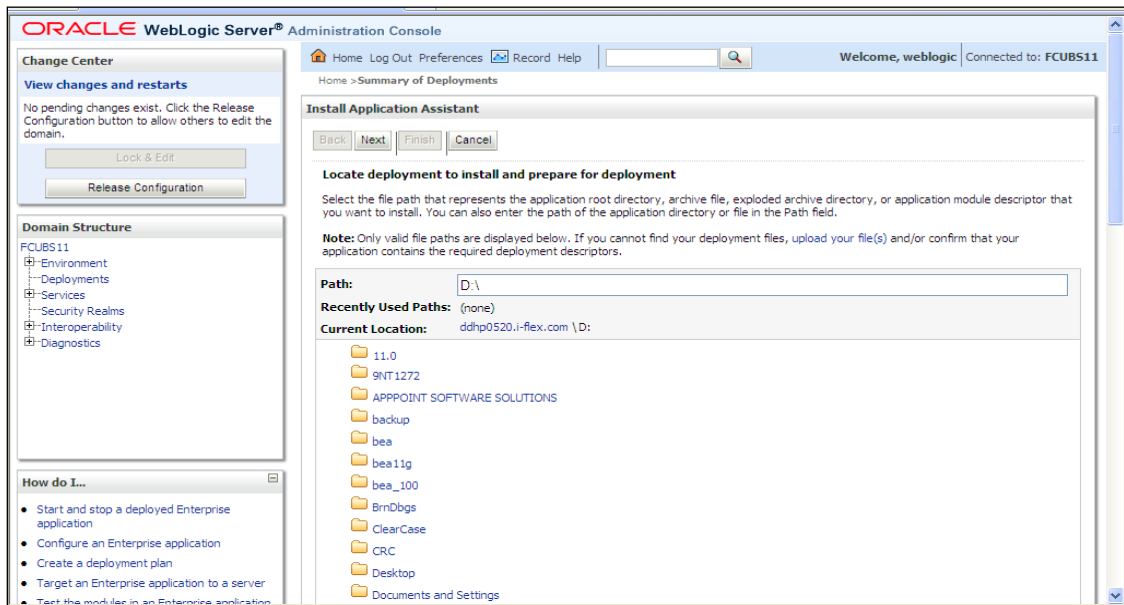
3. You need to deploy an EAR. For e.g. 'FCUBSApp.ear'. Go to 'Deployment'.

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



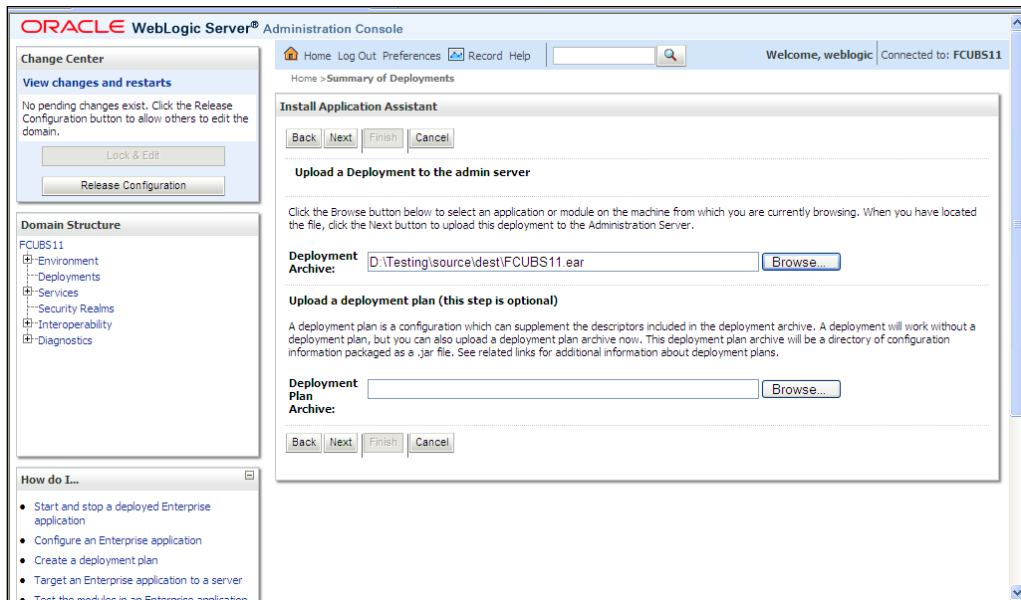
- Click 'Install' button.

The following screen is displayed:



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

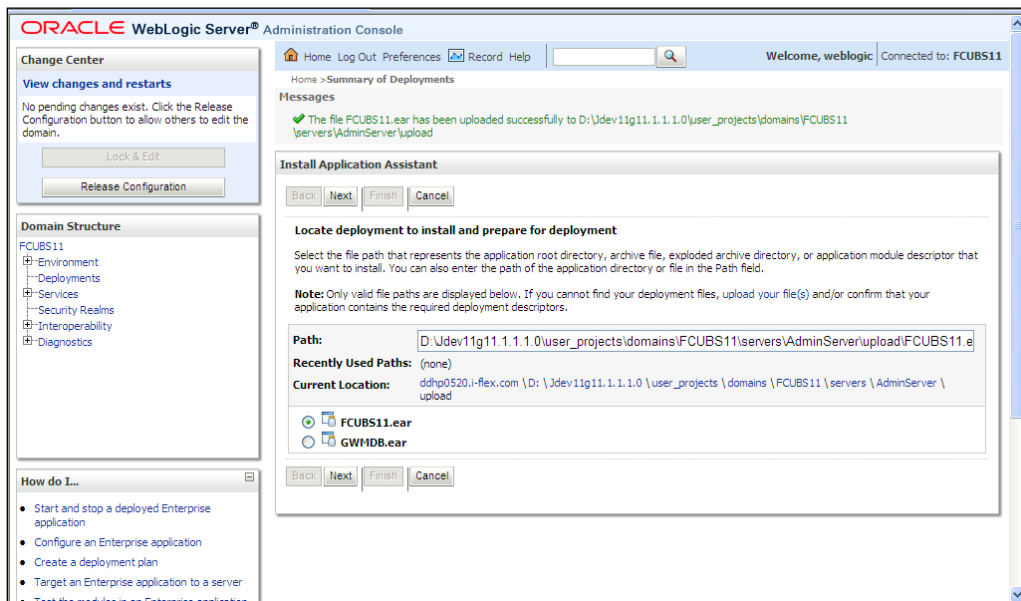
The following screen is displayed:



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

9. Click 'Next'.

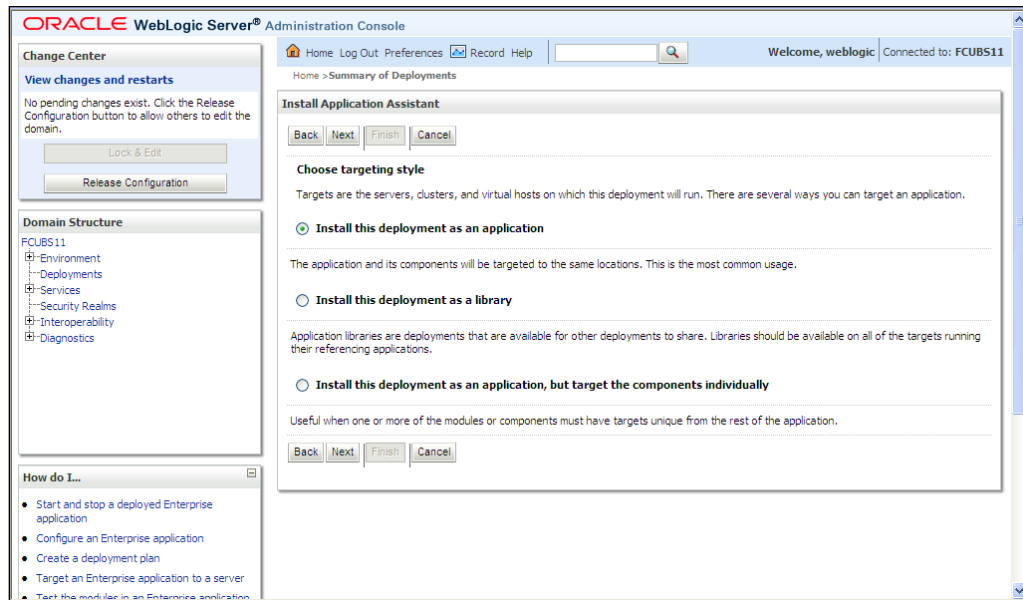
The following screen is displayed.



10. Select the application FCUBS EAR from the list.

11. Click 'Next'.

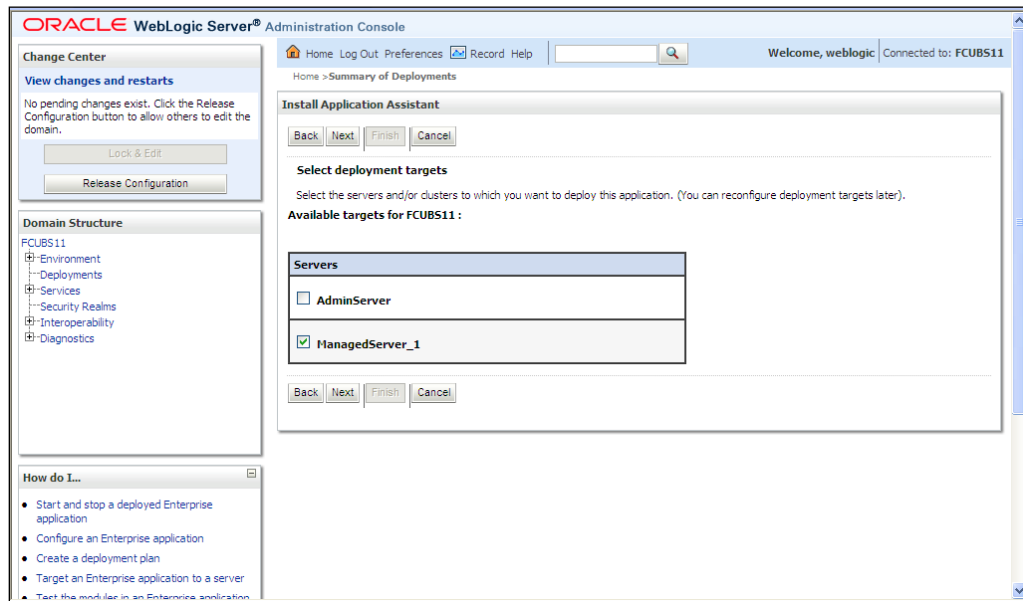
The following screen is displayed:



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

13. Click 'Next'.

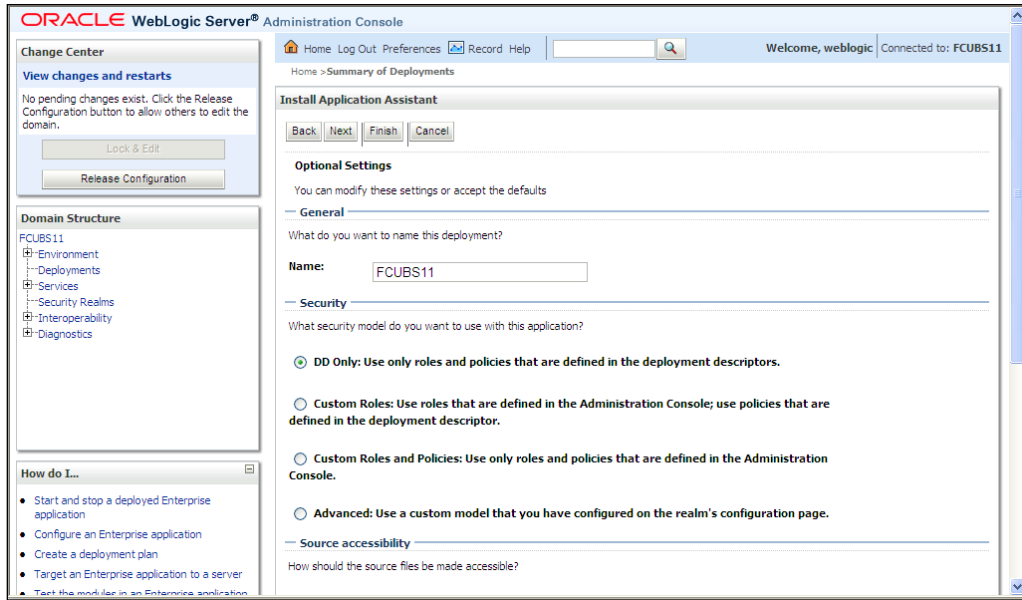
The following screen is displayed



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

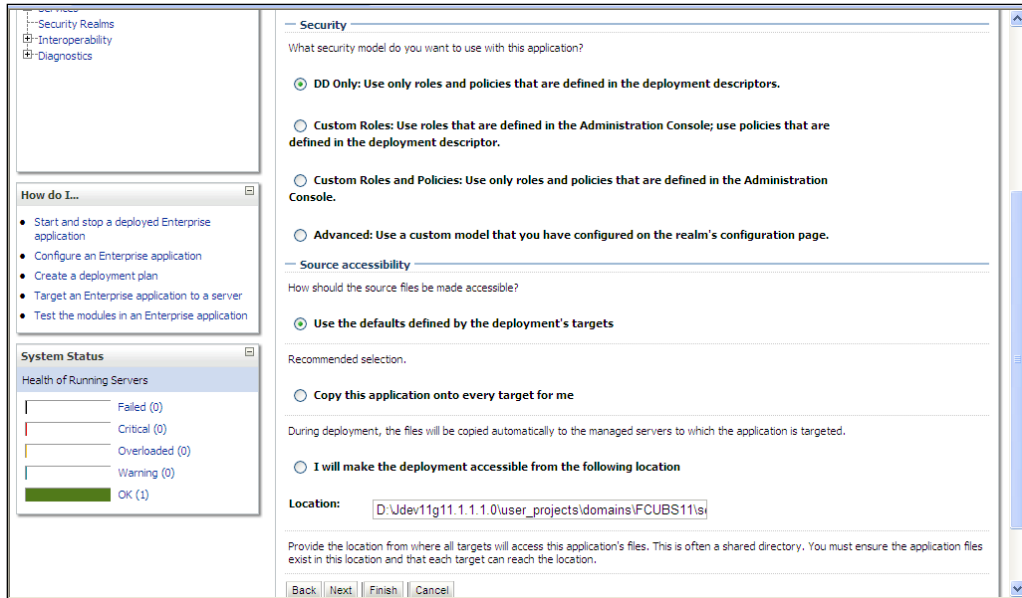
15. Click 'Next'.

The following screen appears.



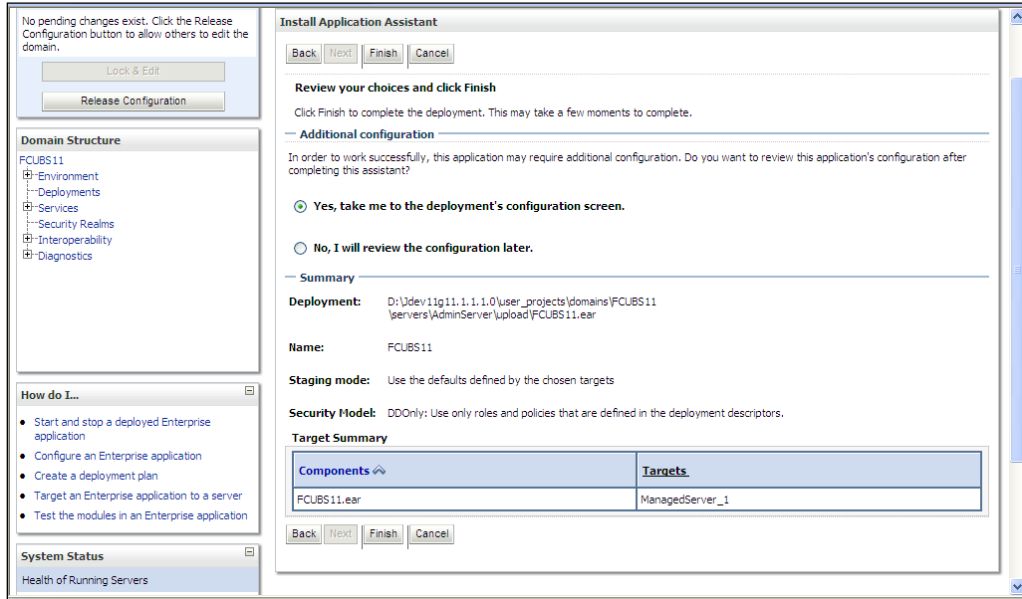
16. Check the deployment name.

The remaining portion of the screen is shown below:



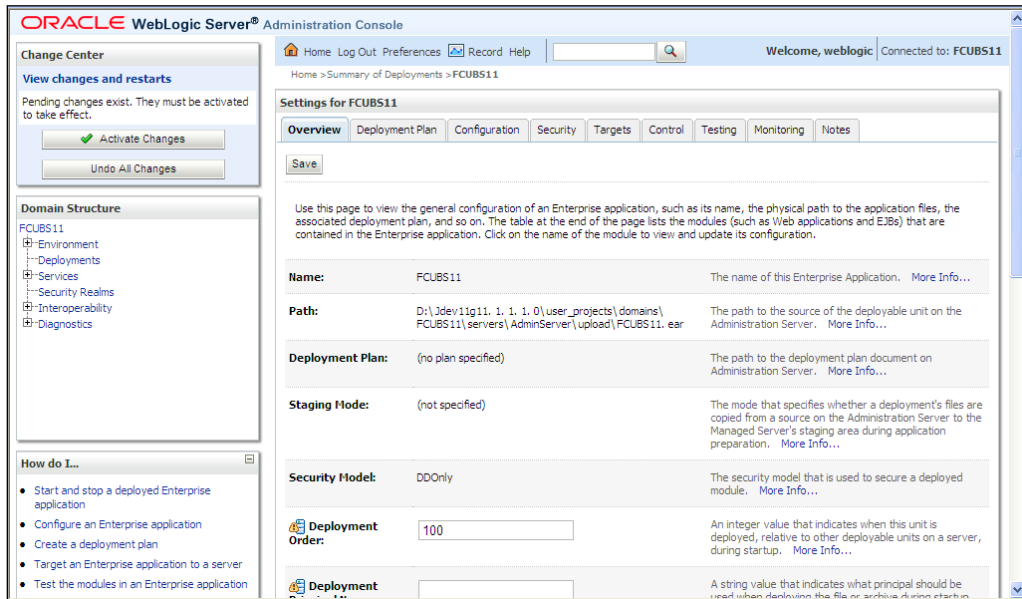
17. Check whether the deployment location is accessible or not.

The following screen is displayed.

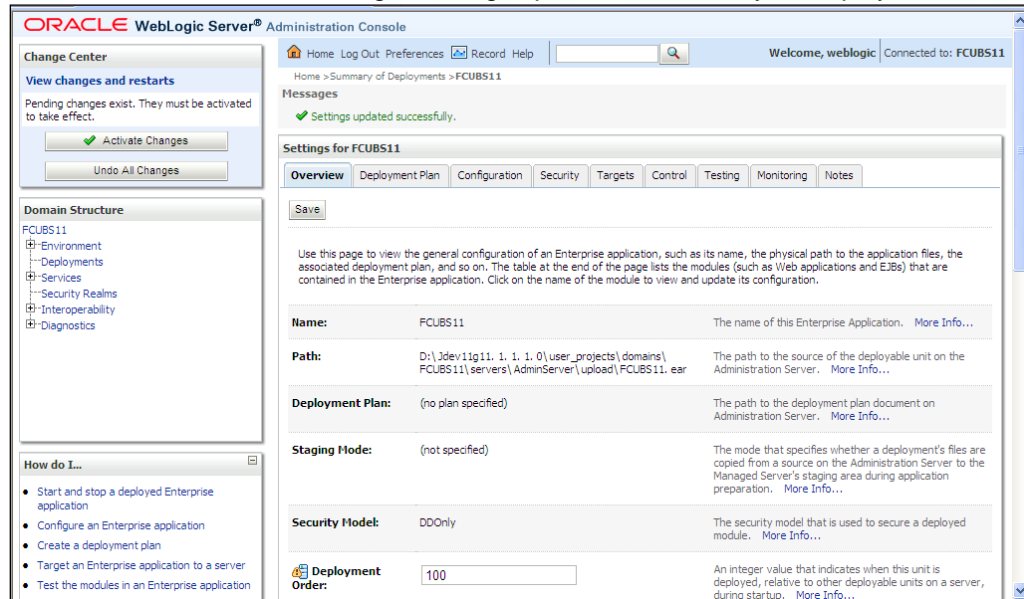


18. Click 'Finish' button. The following screen is displayed.

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

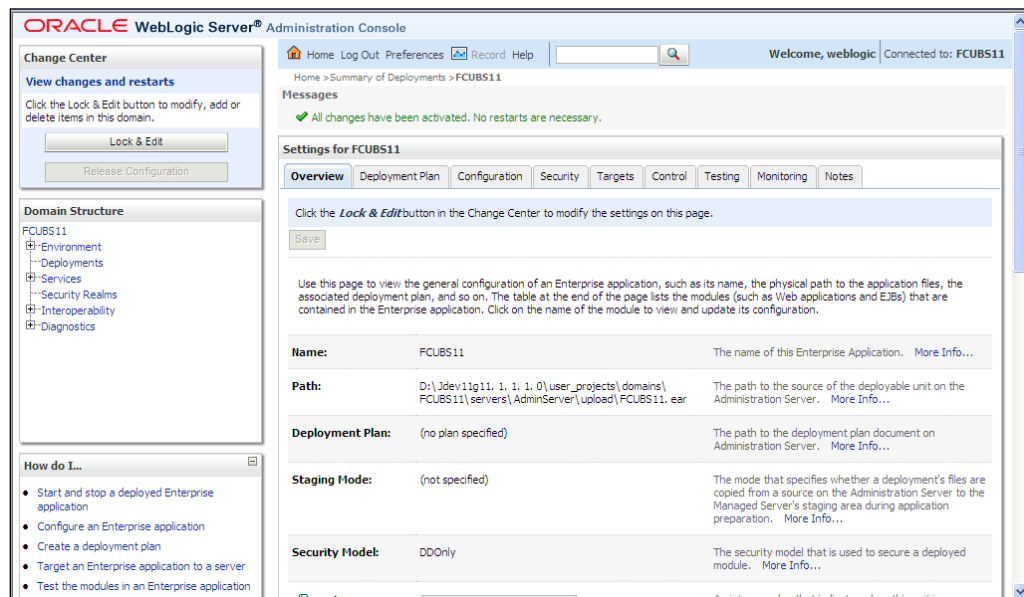


19. Click 'Save' button. The message 'Settings updated successfully' is displayed.

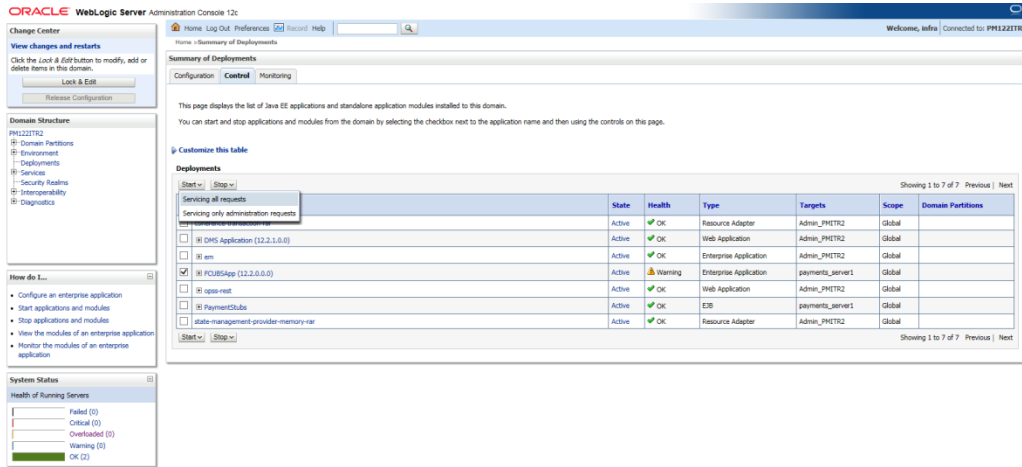


20. Click 'Activate Changes' button on the left pane. The message 'All the changes have been activated. No restarts are necessary' is displayed.

The screen is given below:

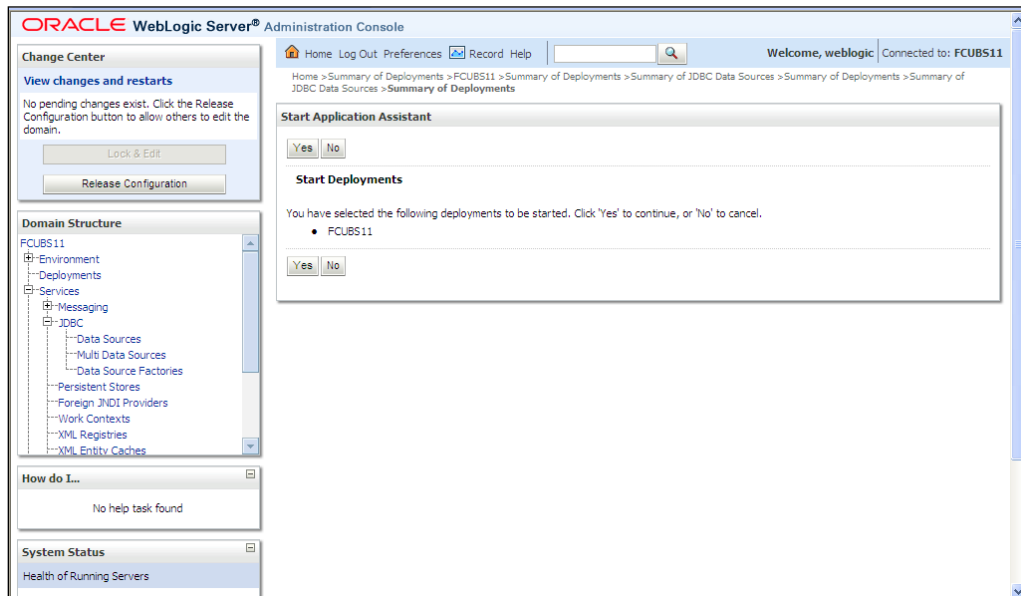


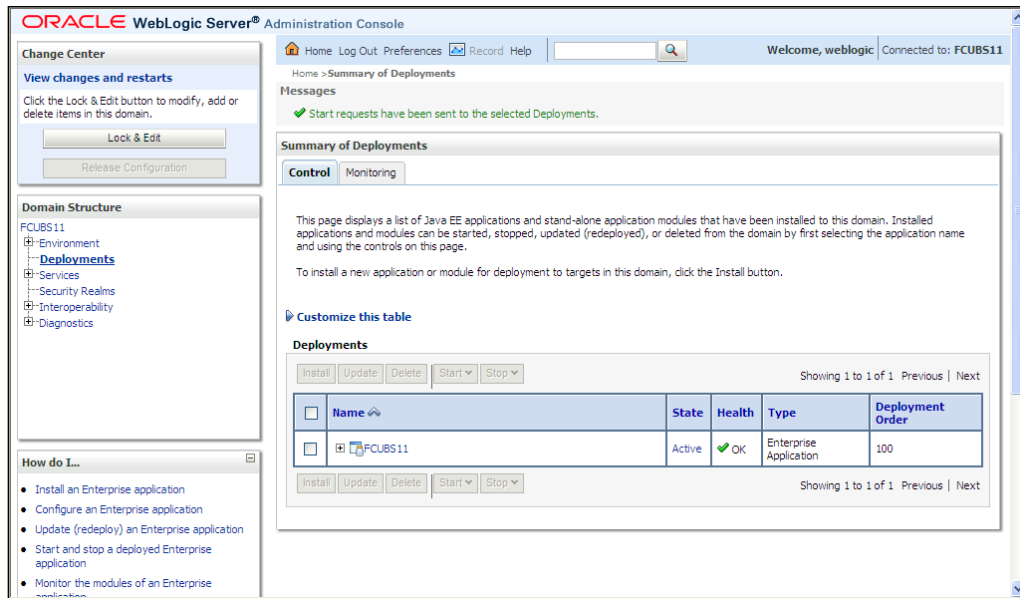
21. Click 'Deployment' on the left pane. Switch to Control tab. The following screen is displayed.



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

The following screen is displayed.





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

This completes the deployment process.

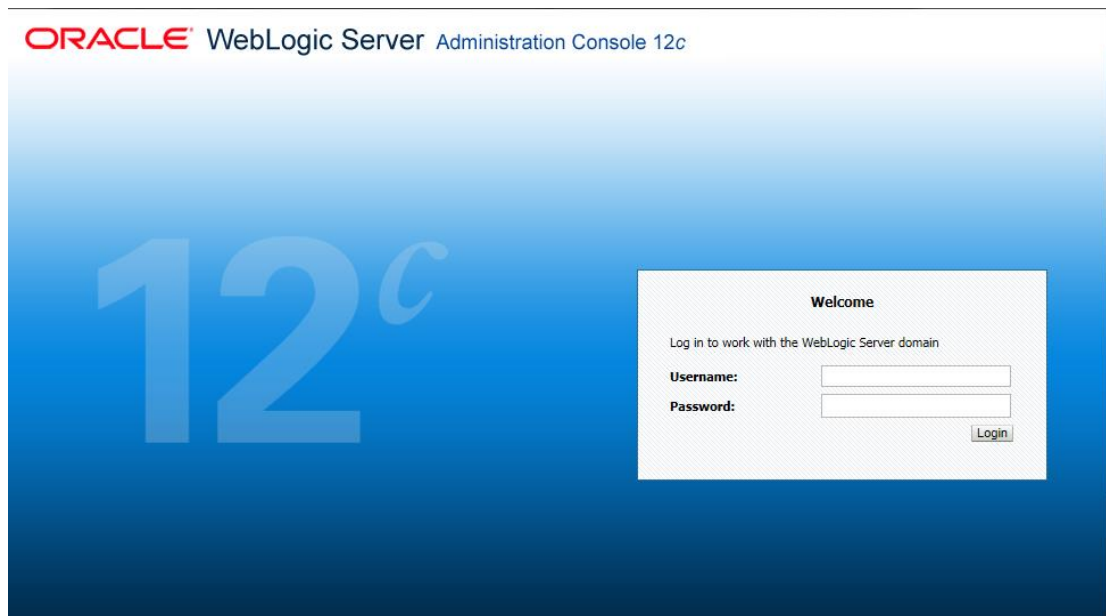
1.3.4 Deploying Gateway/Scheduler Applications from WebLogic Administration Console

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

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

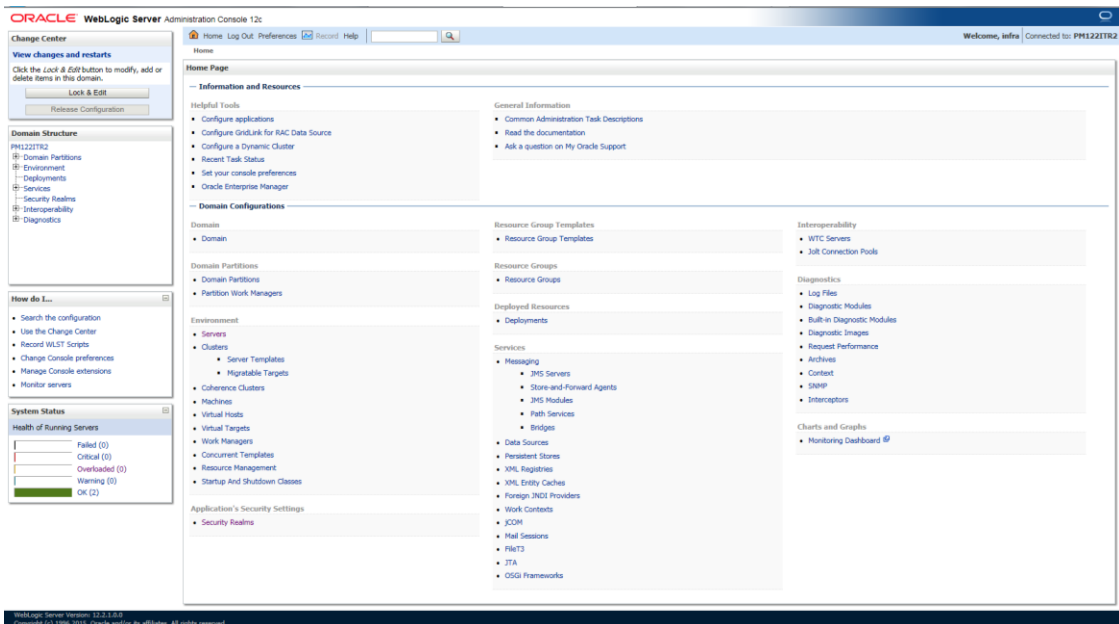
Eg: <http://10.10.10.10:1001/console>

The following screen is displayed:



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

The following screen is displayed:



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

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

The screenshot shows the Oracle WebLogic Server Administration Console. 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-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	
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_cms_rpc_pgjv_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 tree is displayed, showing the current location and its contents.

Path: D:\

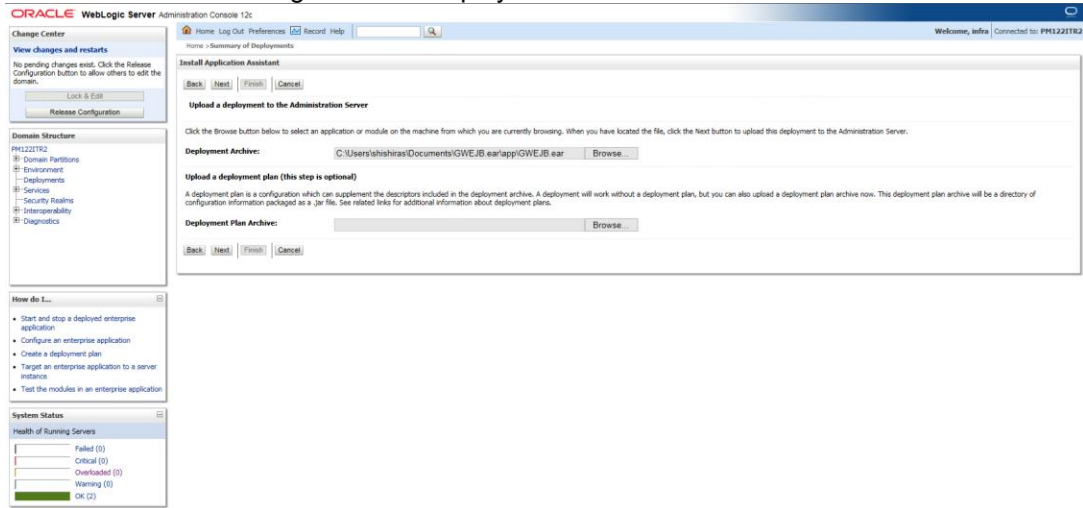
Recently Used Paths: (none)

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

- 11.0
- 9NT 1272
- APPOINT SOFTWARE SOLUTIONS
- backup
- bea
- bea11g
- bea_100
- BrndBgs
- ClearCase
- CRC
- Desktop
- Documents and Settings

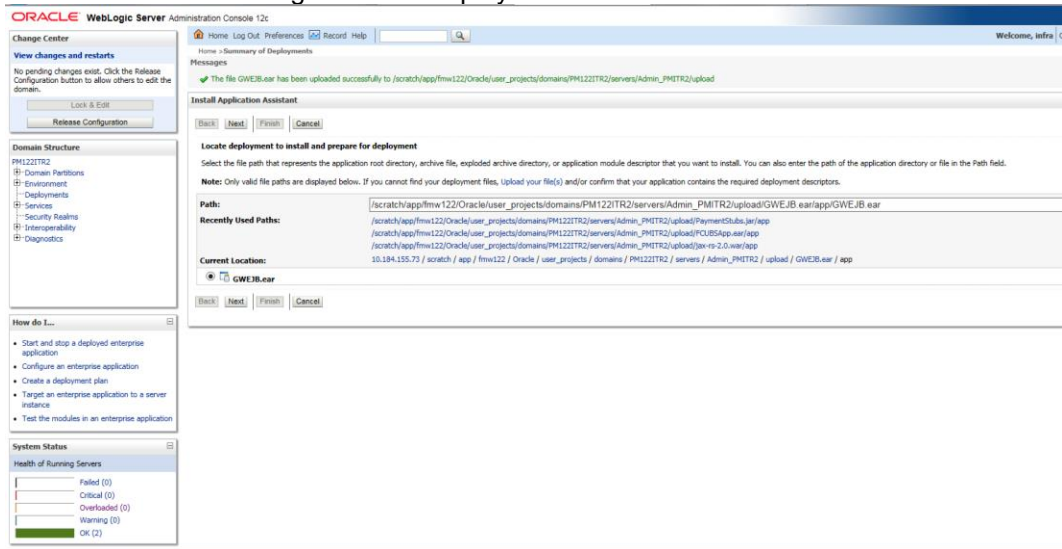
- In order to specify the path/location of the enterprise archive file, click the link 'upload your file(s)'.

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



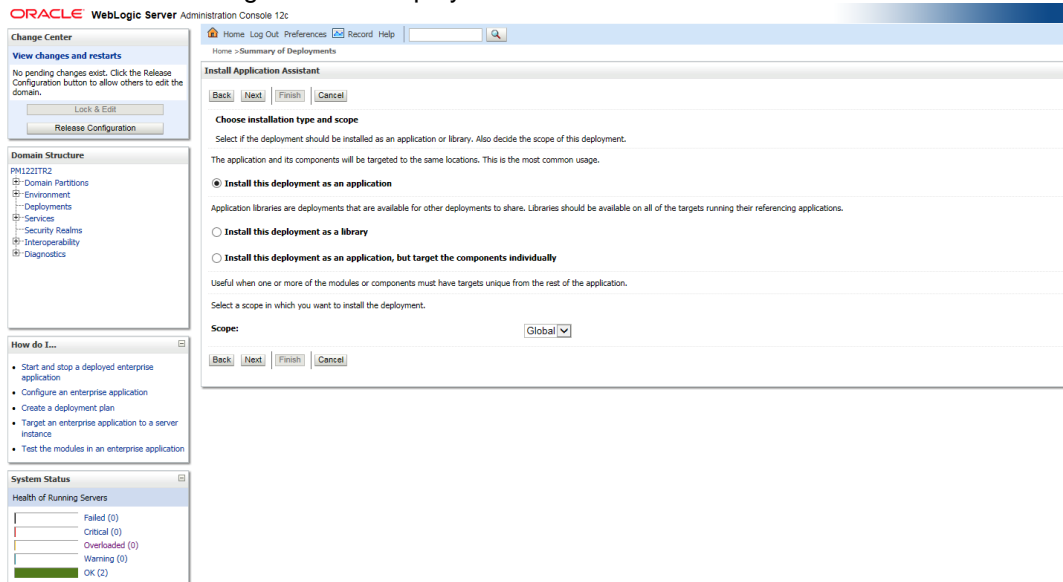
8. Specify the EAR file path. You can use the 'Browse' button to locate the file.

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



10. Select the application from the list.

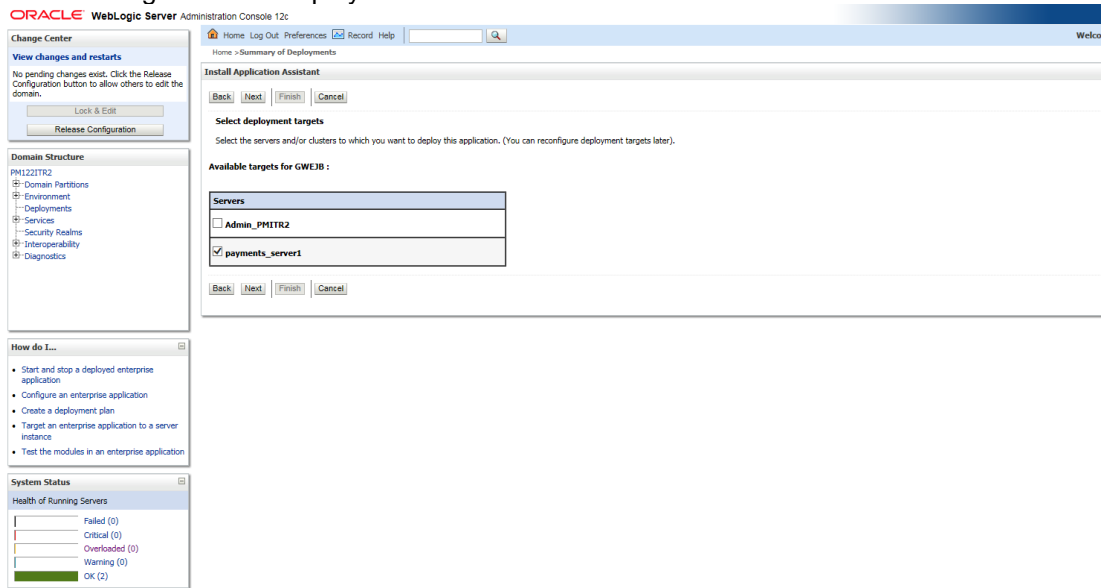
11. Click 'Next'. Following screen is displayed:



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

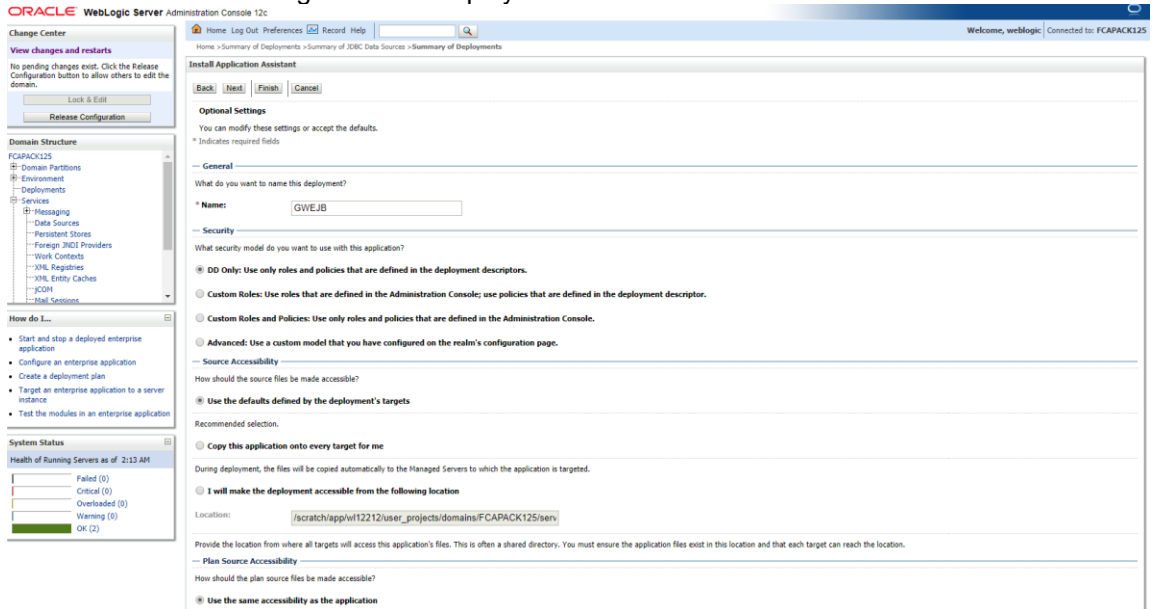
13. Click 'Next'.

The following screen is displayed



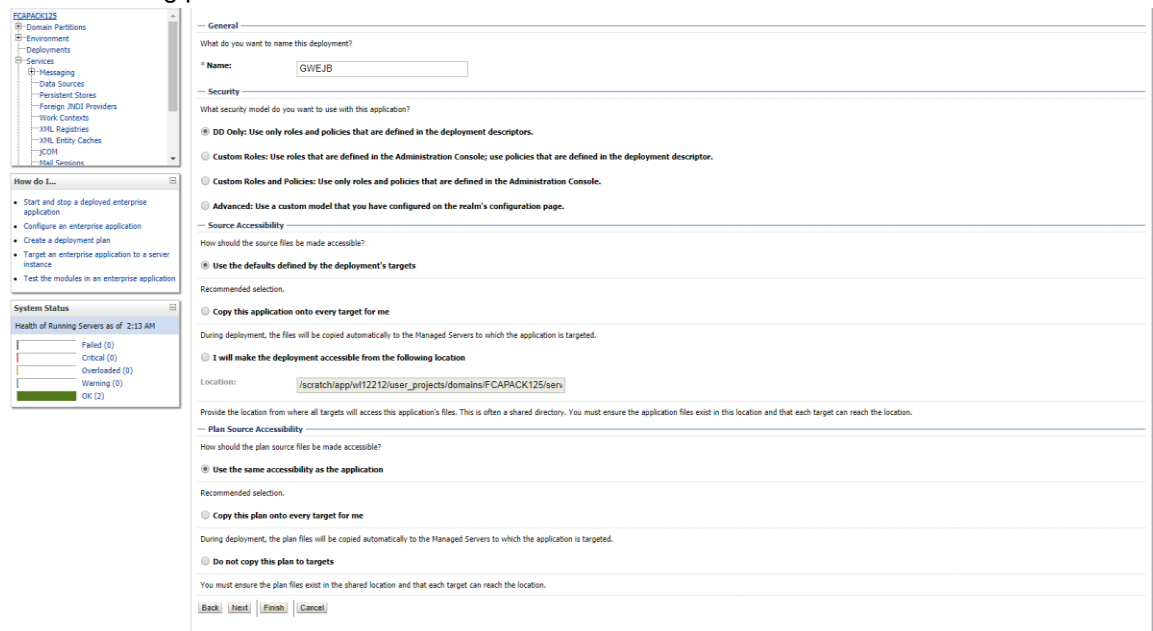
14. Select the target of the application. You can choose the server 'AdminServer' or 'Managed Server(s)'.

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 displays configuration details for the application "GWEJB". The configuration includes:

- Deployment:** /scratch/app/fmw122/Oracle/user_projects/domains/PH122TR2/servers/Admin_PMTIR2/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

A "Summary" section at the bottom shows a table with the following data:

Components	Targets
GWEJB.ear	payments_server1

Navigation buttons (Back, Next, Finish, Cancel) are visible at the top and bottom of the configuration area.

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

The screenshot shows the Oracle WebLogic Server Administration Console interface displaying the "Settings for GWEJB(12.2.0.0.0)" screen. The configuration details are as follows:

- Name:** GWEJB
- Scope:** Global
- Archive Version:** 12.2.0.0.0
- Path:** /scratch/app/fmw122/Oracle/user_projects/domains/PH122TR2/servers/Admin_PMTIR2/upload/GWEJB.ear/app/GWEJB.ear
- Deployment Plan:** (no plan specified)
- Staging Mode:** (not specified)
- Plan Staging Mode:** (not specified)
- Security Model:** DDOnly
- Deployment Order:** 100
- Deployment Principal Name:** (empty field)

The "Modules and Components" section shows a list of modules:

- GWEJB (12.2.0.0.0)
 - PCHabProxyEB
 - PCHabRouterEB
 - GWEJB

Navigation buttons (Back, Next, Finish, Cancel) are visible at the top of the configuration area.

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 selected. The page contains a 'Save' button and a table of configuration settings. The left-hand navigation pane shows the 'Change Center' with the 'Activate Changes' button highlighted.

Property	Value	Description
Name	GWEJB	The name of this enterprise application. More Info...
Scope	Global	Specifies if this enterprise application is accessible within the domain, template. More Info...
Archive Version	12.2.0.0.0	The archive version, specified from from the manifest or overridden d
Path	/scratch/app/fmw122/Oracle/user_projects/domains/PM1221TR2/servers/Admin_PM1TR2/upload/GWEJB.ear/app/GWEJB.ear	The path to the source of the deployable unit on the Administration S
Deployment Plan	(no plan specified)	The path to the deployment plan document on the Administration Ser
Staging Mode	(not specified)	Specifies whether a deployment's files are copied from a source on th 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 s Managed 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 during startup. More Info...
Deployment Principal Name		A string value that indicates the principal that should be used when d and shutdown. This principal will be used to set the current subject v interfaces such as ApplicationLifecycleListener. If no principal name is will be used. More Info...

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

The screen is given below:

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area displays the 'Settings for GWEJB(12.2.0.0.0)' page. At the top, a message states 'All changes have been activated. No restarts are necessary'. Below this, there are tabs for 'Overview', 'Deployment Plan', 'Configuration', 'Security', 'Targets', 'Control', 'Testing', 'Monitoring', and 'Notes'. The 'Overview' tab is selected. The page contains a 'Save' button and a table of configuration settings. The left-hand navigation pane shows the 'Change Center' with the 'Activate Changes' button highlighted.

Property	Value	Description
Name	GWEJB	The name of this enterprise application. More Info...
Scope	Global	Specifies if this enterprise application is accessible within the domain, template. More Info...
Archive Version	12.2.0.0.0	The archive version, specified from from the manifest or overridden c
Path	/scratch/app/fmw122/Oracle/user_projects/domains/PM1221TR2/servers/Admin_PM1TR2/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. More Info...
Staging Mode	(not specified)	Specifies whether a deployment's files are copied from a source on the Admi 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 c Managed 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 d during startup. More Info...
Deployment Principal Name		A string value that indicates the principal that should be used when deploy and shutdown. This principal will be used to set the current subject when ca interfaces such as ApplicationLifecycleListener. If no principal name is specified will be used. More Info...

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

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

Start	Stop	State	Health	Type	Targets	Scope	Domain Partition
<input type="checkbox"/>	<input type="checkbox"/>	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 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	

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

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

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

The screenshot shows the Oracle WebLogic Server Administration Console interface. The main content area is titled "Summary of Deployments" and contains a table of installed Java EE applications and standalone application modules. The table has columns for Name, State, Health, Type, Targets, Scope, and Domain Partitions. The applications listed are:

Name	State	Health	Type	Targets	Scope	Domain Partitions
coherence-transaction-iar	Active	OK	Resource Adapter	Admin_PMTB2	Global	
OMS Application (12.2.1.0.0)	Active	OK	Web Application	Admin_PMTB2	Global	
em	Active	OK	Enterprise Application	Admin_PMTB2	Global	
FCMApp (12.2.0.0.0)	Active	Warning	Enterprise Application	payments_server1	Global	
GWESB (12.2.0.0.0)	Active	OK	Enterprise Application	payments_server1	Global	
opss-rest	Active	OK	Web Application	Admin_PMTB2	Global	
PaymentStub	Active	OK	EJB	payments_server1	Global	
state-management-provider-memory-iar	Active	OK	Resource Adapter	Admin_PMTB2	Global	

The interface also includes a "Change Center" on the left with "View changes and restarts" and "Lock & Edit" buttons. Below that is the "Domain Structure" tree showing the hierarchy of the domain. At the bottom left, there is a "System Status" section showing the health of running servers, with a bar chart indicating that all servers are in the "OK" state.

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
[February] [2024]
Version 14.7.3.0.0

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