

Deploying Oracle FLEXCUBE Application on WebLogic
Oracle FLEXCUBE Universal Banking
Release 14.0.0.0.0
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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

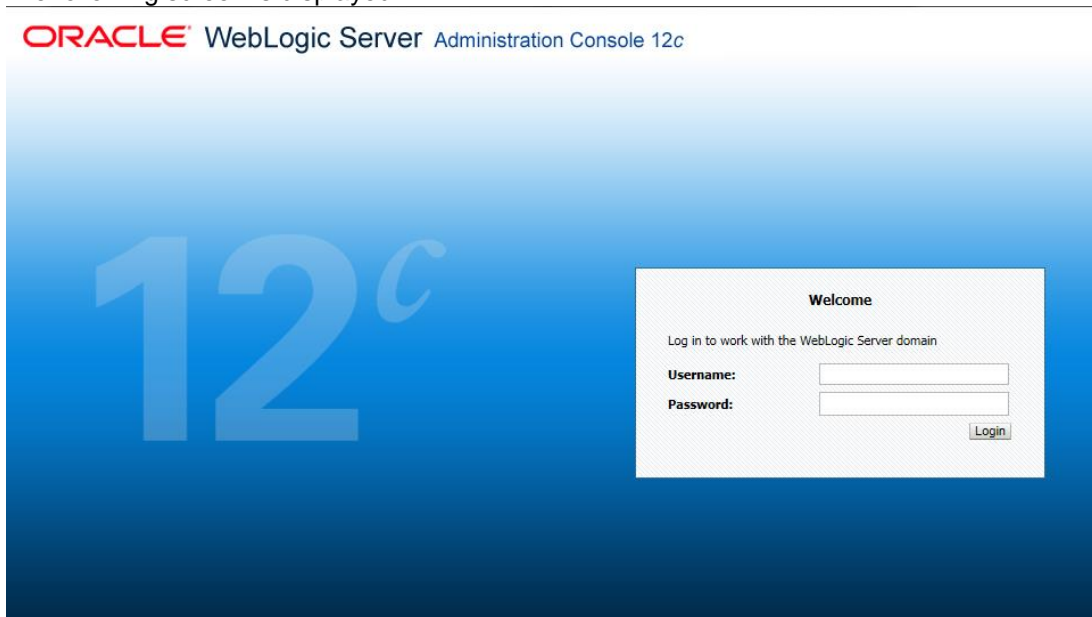
This section explains the method of deploying Oracle FLEXCUBE Application into Oracle WebLogic application server.

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.

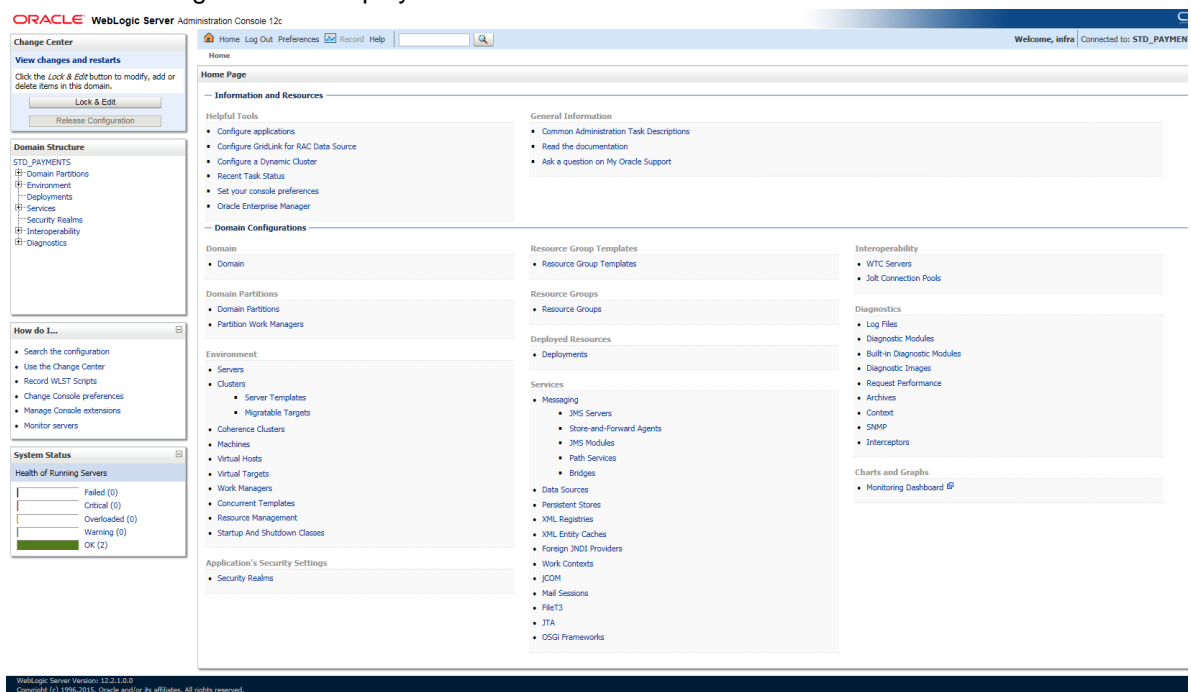
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser.
Eg: <http://10.10.10.10:1001/console>

2. The following screen is displayed:



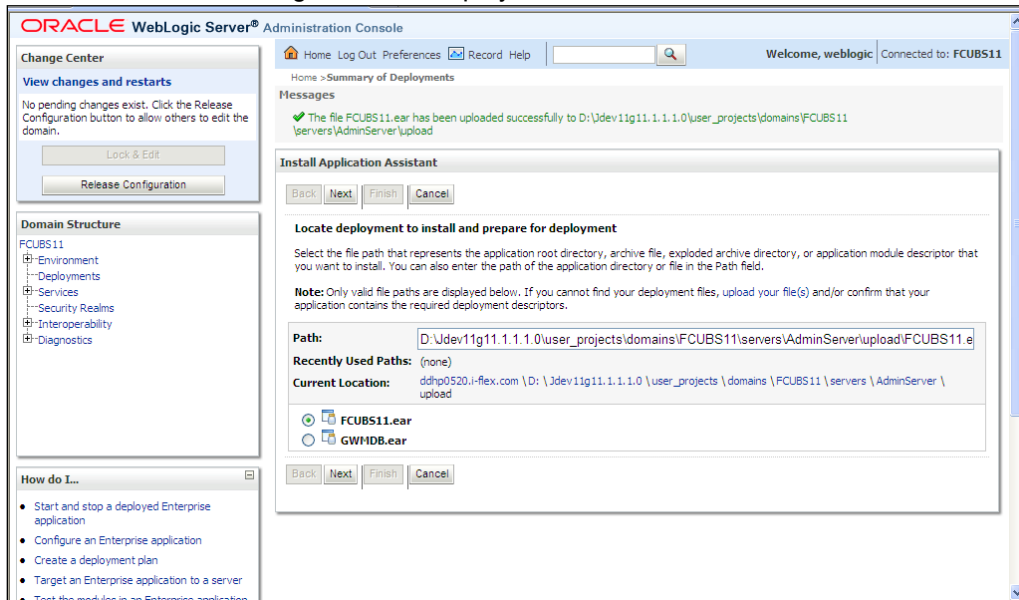
3. Specify the WebLogic administrator user name and password. Click 'Log In'.

4. The following screen is displayed:



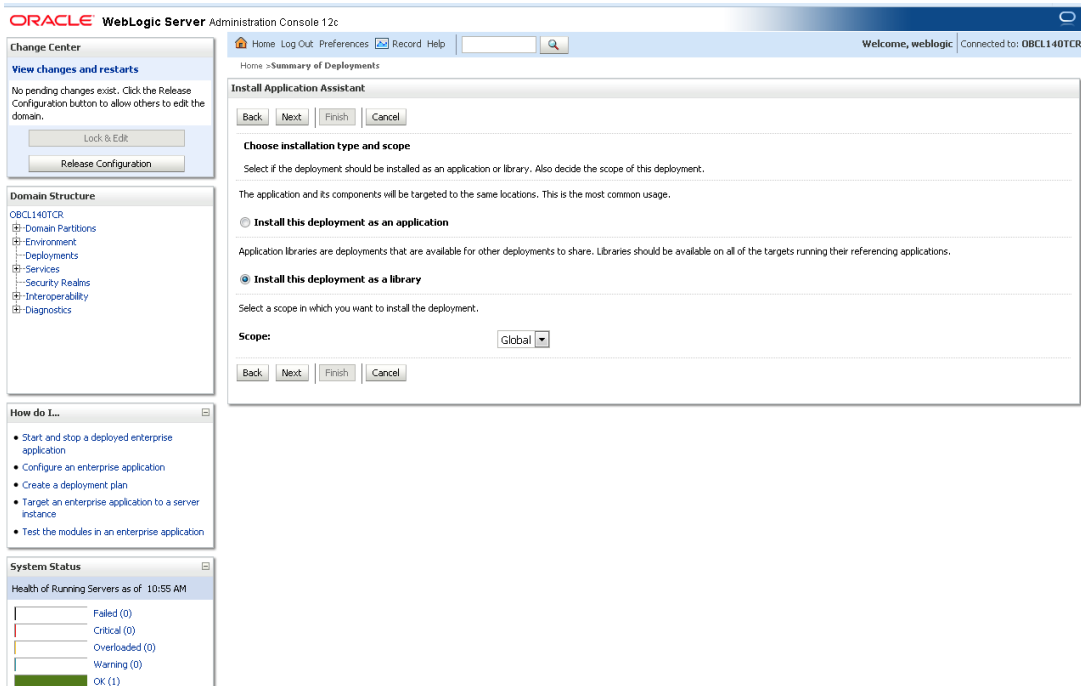
5. You need to deploy an Integration adapter EAR. For e.g. 'OBCLExtAdapter.ear or ExtAdapter.ear'. Go to 'Deployment'.

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



10. Select the application Adapter EAR from the list.

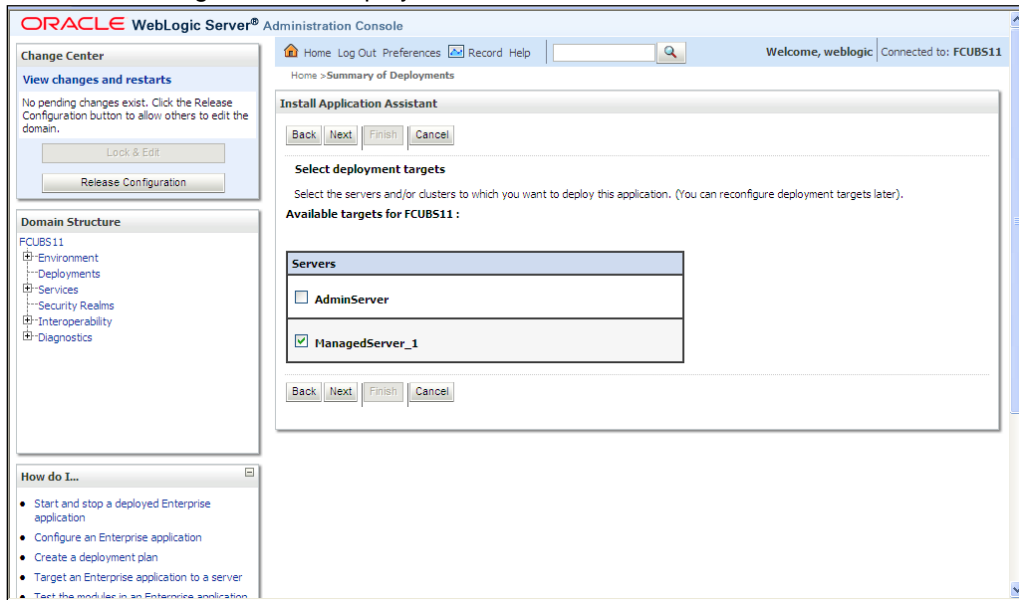
11. Click 'Next'. Following screen is displayed:



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

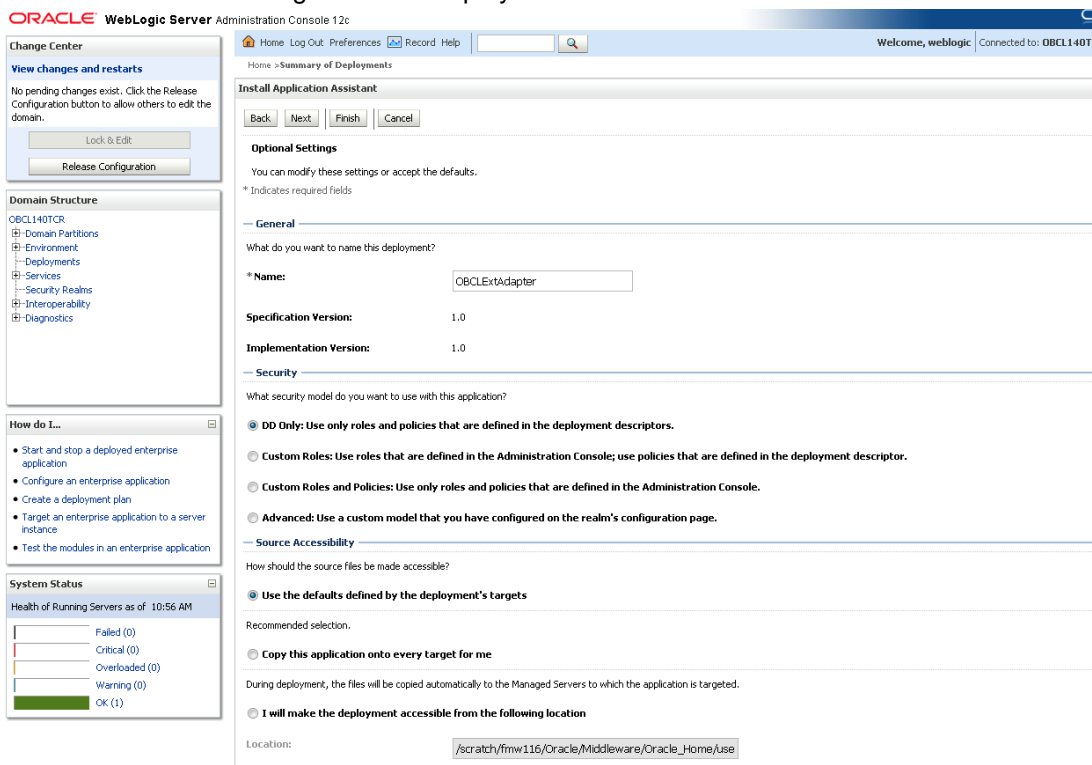
13. Click 'Next'.

14. The following screen is displayed



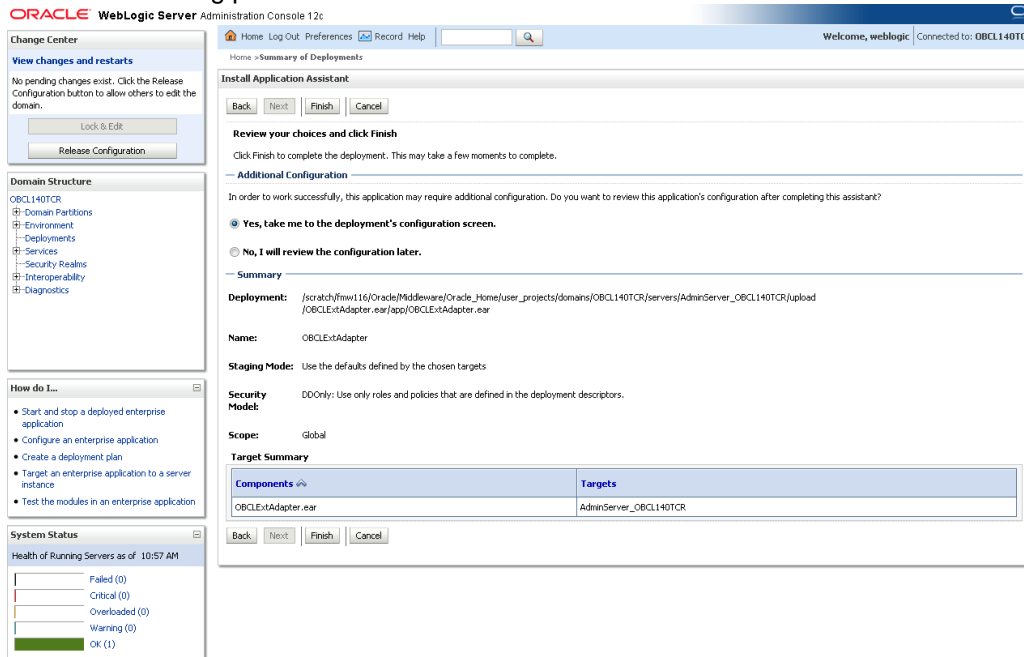
15. Select the target of the application. You can choose the server 'AdminServer' or 'Managed Server(s)'.

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

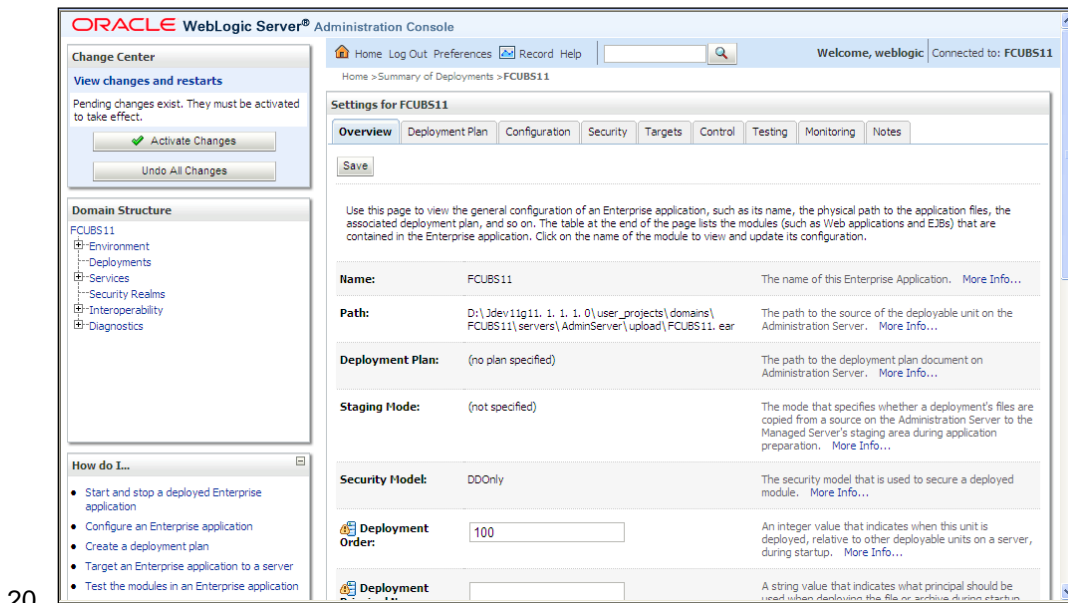


17. Check the deployment name.

18. The remaining portion of the screen is shown below:

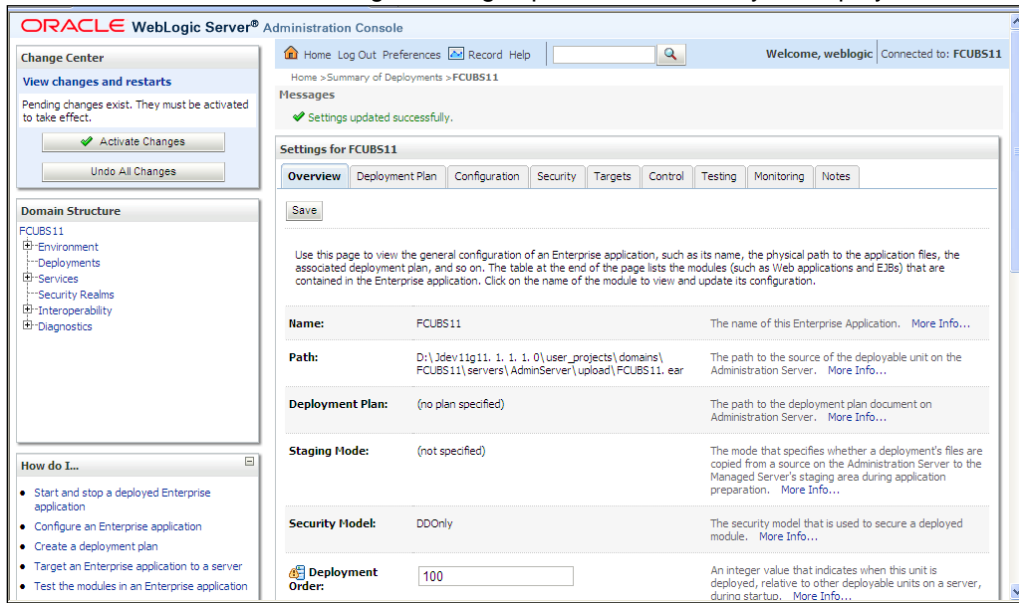


19. Click 'Finish' button. The following screen is displayed.



20.

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

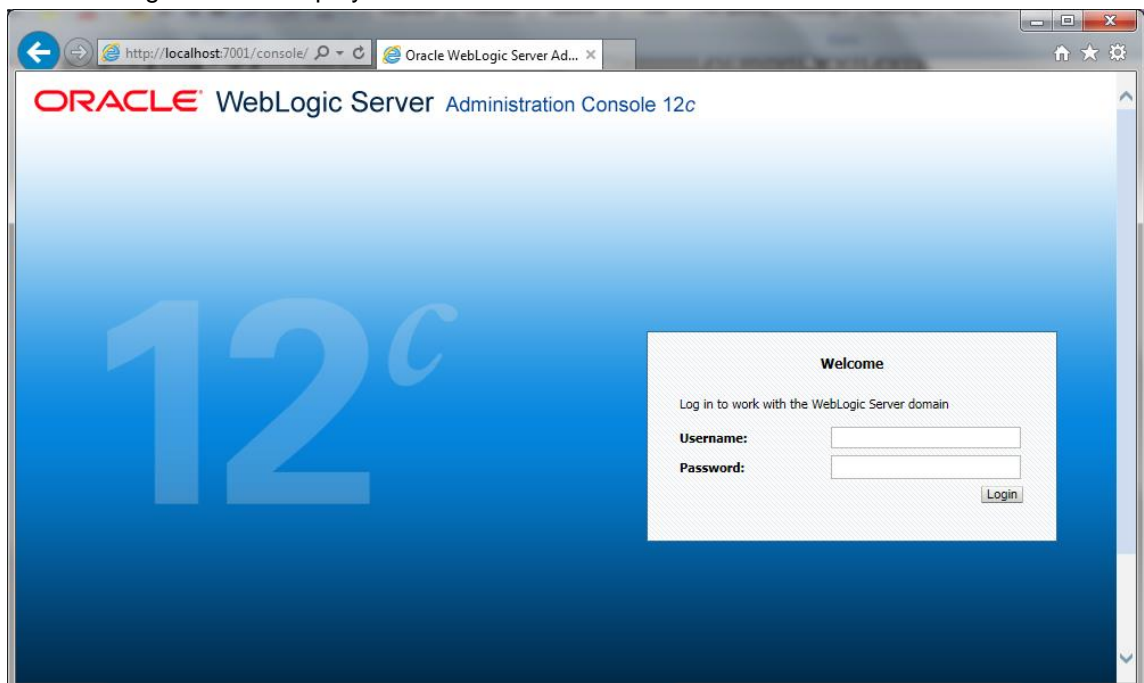


22. Click 'Activate Changes' button on the left pane. The message 'All the changes have been activated. No restarts are necessary' is displayed.

1.3.2 Deploying Dependency Library "Jax-RS"

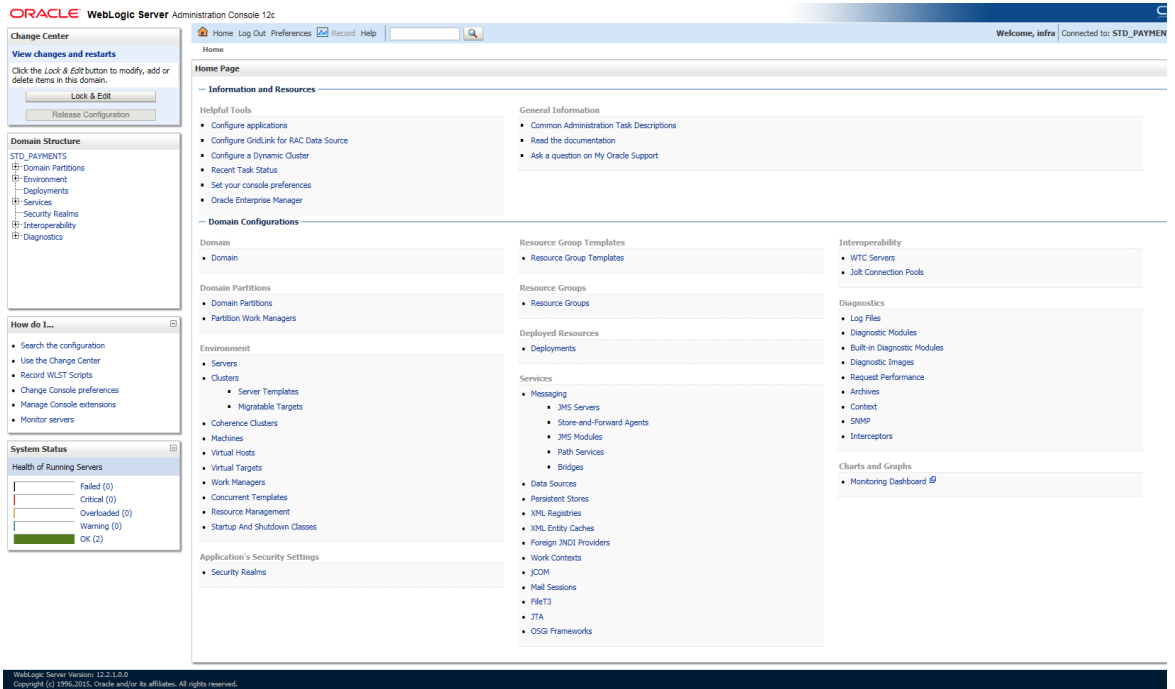
This library must be installed before deploying FCUBSApp.ear. Follow the below steps

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
2. The following screen is displayed:



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

The following screen is displayed:



4. Click install button

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help Welcome, infra Connected to: STD_PAYMENT3

Change Center
View changes and restarts
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.
Lock & Edit
Release Configuration

Domain Structure
STD_PAYMENT3
Domain Partitions
Environment
Deployments
Services
Security Realms
Interoperability
Diagnostics

How do I...

- Install an enterprise application
- Configure an enterprise application
- Update (redeploy) an enterprise application
- Monitor the modules of an enterprise application
- Deploy EJB modules
- Install a Web application

System Status
Health of Running Servers

- Failed (0)
- Critical (0)
- Overloaded (0)
- Warning (0)
- OK (2)

Summary of Deployments
Configuration Control Monitoring

This page displays the list of Java EE applications and standalone application modules installed to this domain.
You can update (redeploy) or delete installed applications and modules from the domain by selecting the checkbox next to the application name and then using the controls on this page.
To install a new application or module for deployment to targets in this domain, click **Install**.

Customize this table

Deployments
Install Update Delete Showing 1 to 60 of 60 Previous Next

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	
emagentsdkimplpriv_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	
emcoreintdb_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	
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_pdc_pdc_jar	Active		Library	AdminServer_payments	Global	100	

No pending changes exist. Click the Release Configuration button to allow others to edit the domain.
Lock & Edit
Release Configuration

Domain Structure
SOADOM3
Domain Partitions
Environment
Deployments
Services
Messaging
Data Sources
Persistent Stores
Foreign JNDI Providers
Work Contexts
XML Registries
XML Entity Caches
JCOM
Mail Sessions

How do I...

- Start and stop a deployed enterprise application
- Configure an enterprise application
- Create a deployment plan
- Target an enterprise application to a server instance
- Test the modules in an enterprise application

System Status
Health of Running Servers as of 6:13 PM

- Failed (0)
- Critical (0)
- Overloaded (0)
- Warning (0)
- OK (2)

Install Application Assistant
Back Next Finish Cancel

Locate deployment to install and prepare for deployment
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.
Note: Only valid file paths are displayed below. If you cannot find your deployment files, Upload your file(s) and/or confirm that your application contains the required deployment descriptors.

Path: /scratch/app/bpm12212/user_projects/domains/SOADOM3/servers/AdminServer/upload/jax-rs-2.0.war/app/jax-rs-2.0.war

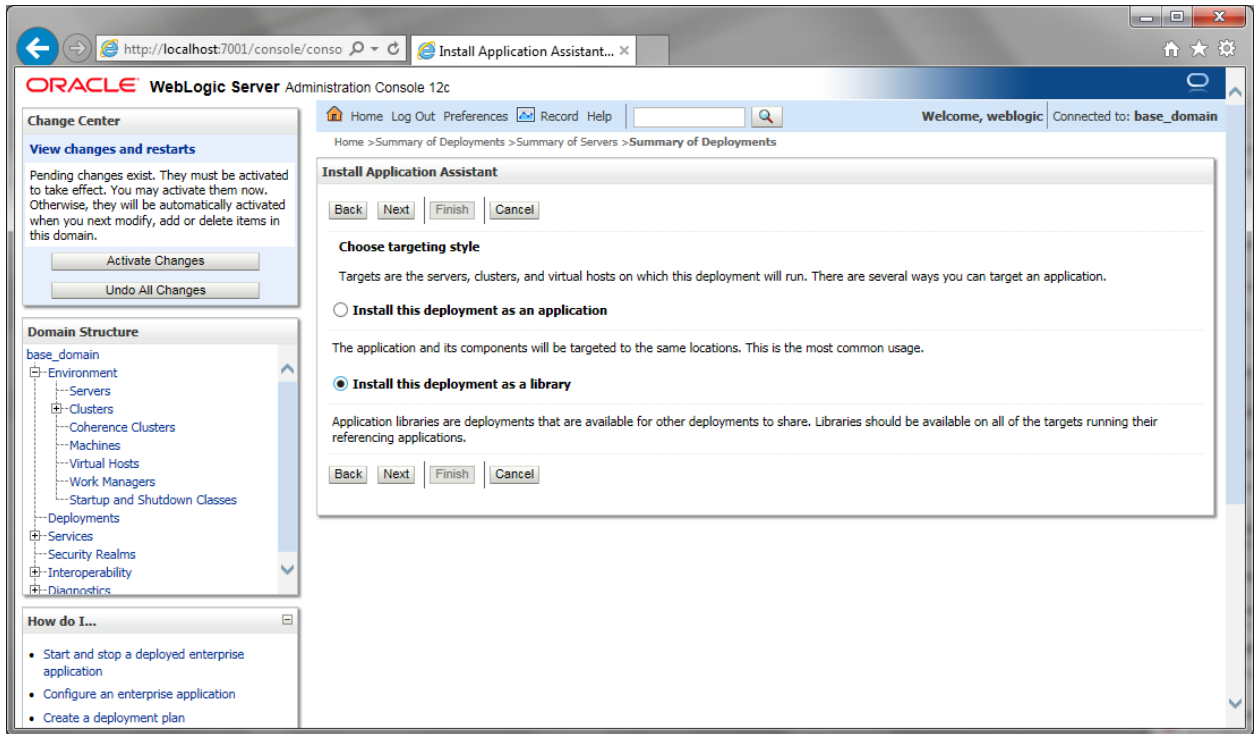
Recently Used Paths: /scratch/app/bpm12212/user_projects/domains/SOADOM3/servers/AdminServer/upload/FCUB5.ear/app

Current Location: 10.184.158.197 / scratch / app / bpm12212 / user_projects / domains / SOADOM3 / servers / AdminServer / upload / jax-rs-2.0.war / app

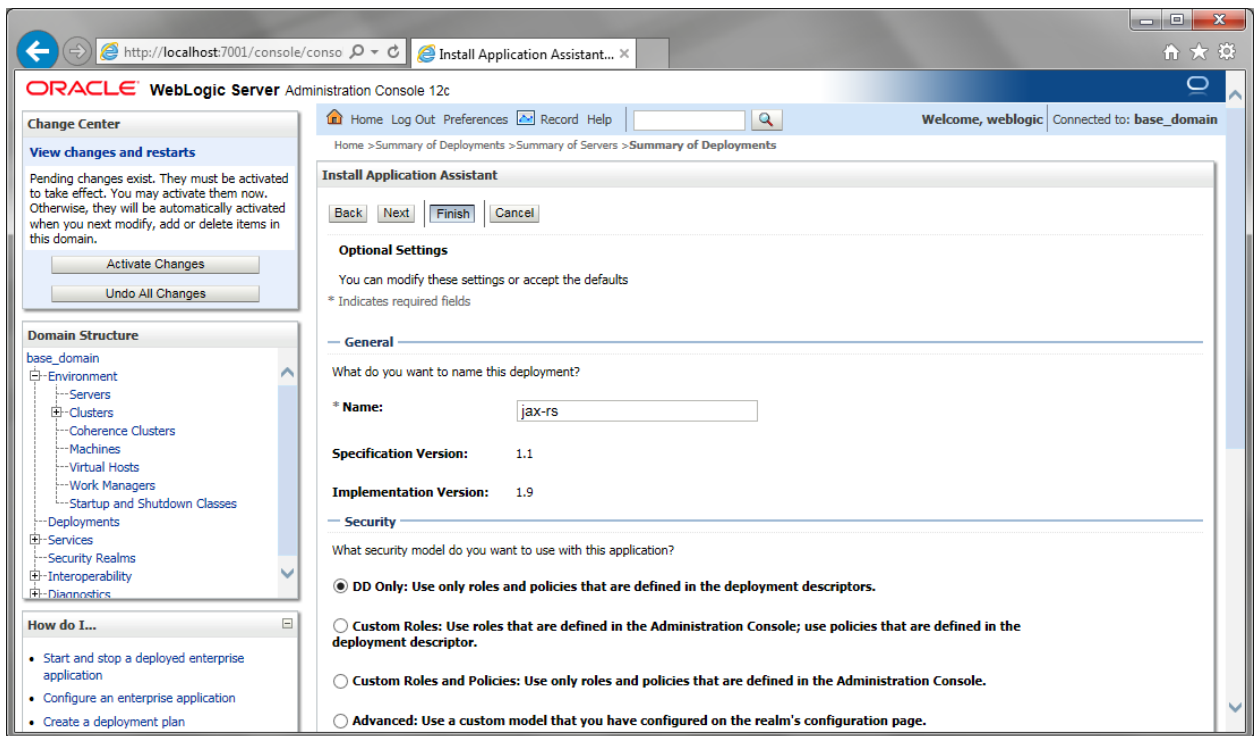
jax-rs-2.0.war

Back Next Finish Cancel

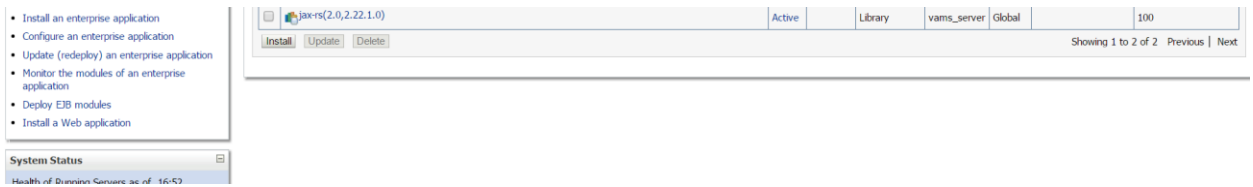
Navigate and select jersey bundle under the path “w\server\common\deployable-libraries\jax-rs-2.0.war” and click next



Select "install this deployment as library", select target server as managed server and click next



Click finish button



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

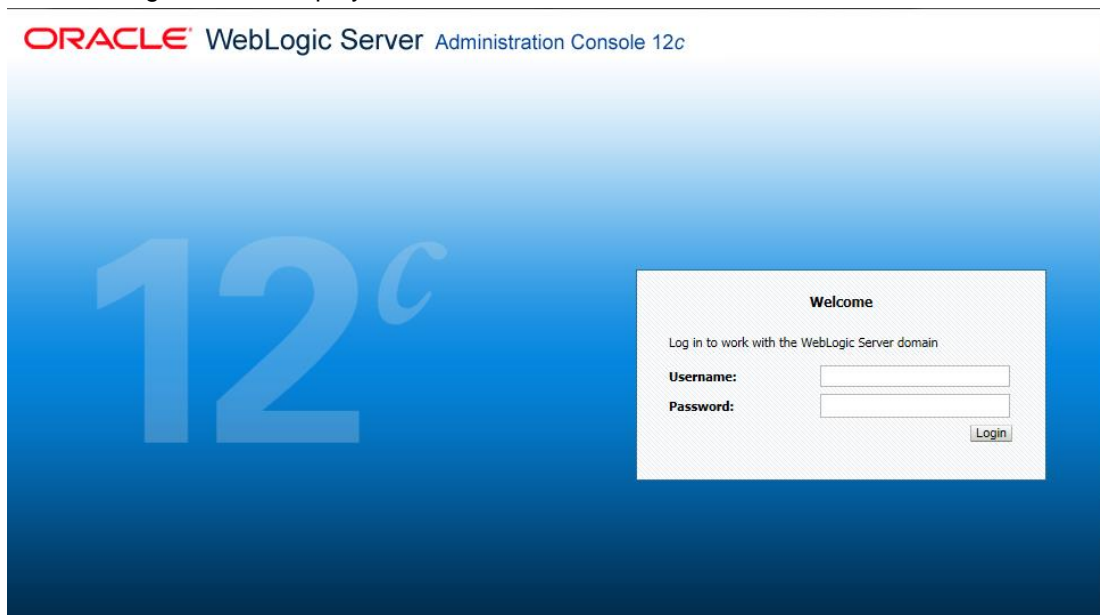
Note :- latest Jax-rs version will be jax-rs(2.0,2.22.1.0)

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’.

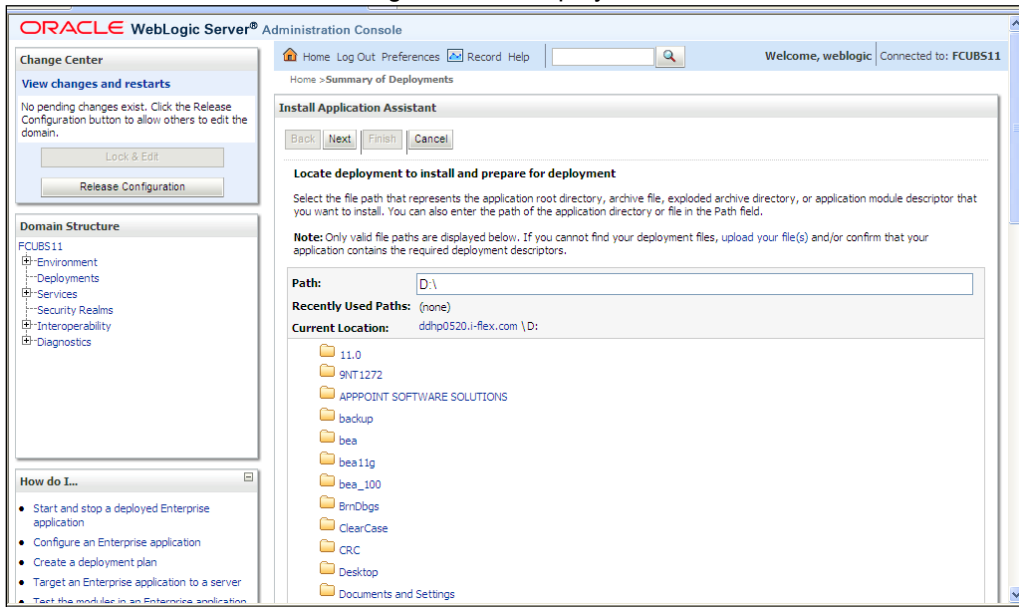
The following screen is displayed:

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

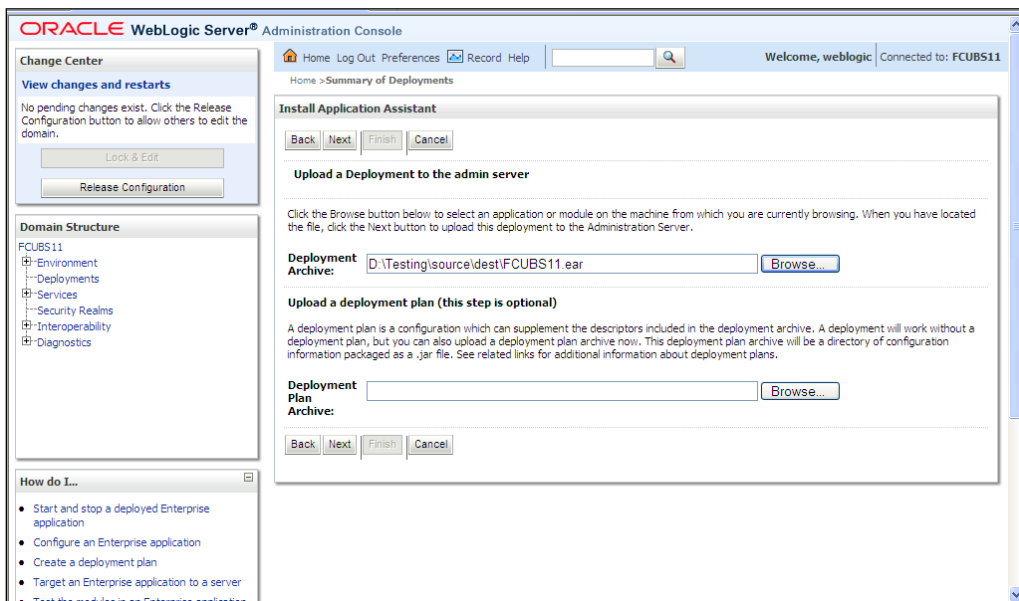
Click 'Lock & Edit' button to enable the buttons. This action enables the buttons.

Name	State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
oracle.businessfor(1.0,12.1.0.0)	Active		Library	AdminServer_payments, pm_server1	Global		100
oracle.domain(1.0,12.1.0.0)	Active		Library	AdminServer_payments, pm_server1	Global		100
oracle.domain.webapp(1.0,12.1.0.0)	Active		Library	AdminServer_payments, pm_server1	Global		100
coherence-transaction-war	Active	OK	Resource Adapter	AdminServer_payments, pm_server1	Global		100
OMS Application (12.1.1.0.0)	Active	OK	Web Application	AdminServer_payments, pm_server1	Global		5
em	Active	OK	Enterprise Application	AdminServer_payments	Global		400
emagentaskmpjrv(12.4,12.1.0.4.0)	Active		Library	AdminServer_payments	Global		100
emagentaskmpj(12.4,12.1.0.4.0)	Active		Library	AdminServer_payments	Global		100
emagentask_jar(12.4,12.1.0.4.0)	Active		Library	AdminServer_payments	Global		100
emas	Active		Library	AdminServer_payments	Global		100
emecore	Active		Library	AdminServer_payments	Global		100
emecoreclient_jar	Active		Library	AdminServer_payments	Global		100
emecorecommon_jar	Active		Library	AdminServer_payments	Global		100
emecoreconsole_jar	Active		Library	AdminServer_payments	Global		100
emecoreintsk_jar(11.2.0.1.0,12.1.0.0.0)	Active		Library	AdminServer_payments	Global		100
emecoreplm_jar	Active		Library	AdminServer_payments	Global		100
emecoresimpl_jar(11.2.0.1.0,12.1.0.0.0)	Active		Library	AdminServer_payments	Global		100
emecoresrd_jar(11.2.0.1.0,12.1.0.0.0)	Active		Library	AdminServer_payments	Global		100
emecore_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:

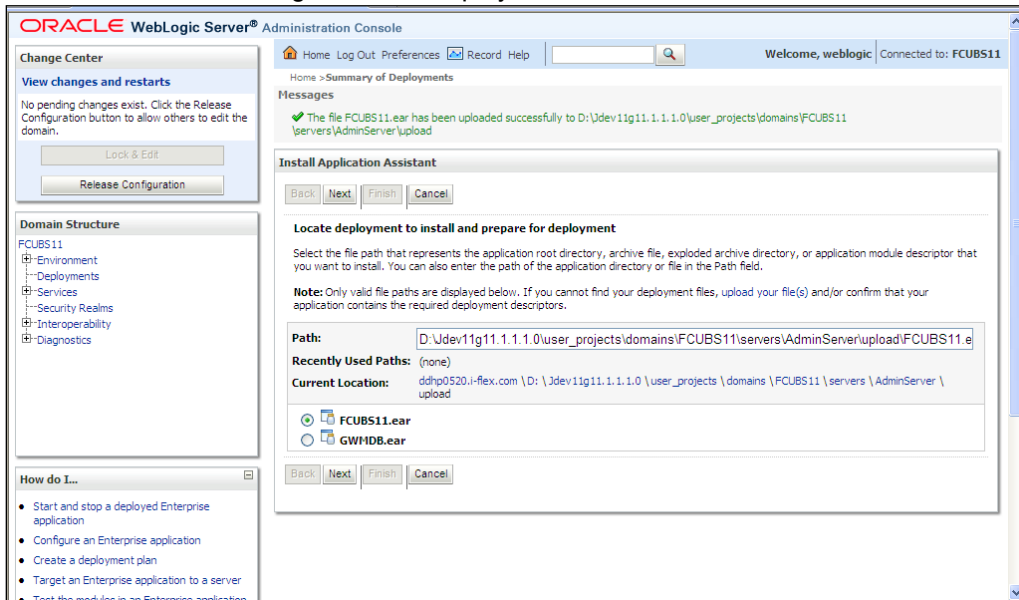


- In order to specify the path/location of the enterprise archive file, click the link 'upload your file(s)'.
- Click 'Next'. The following screen is displayed:

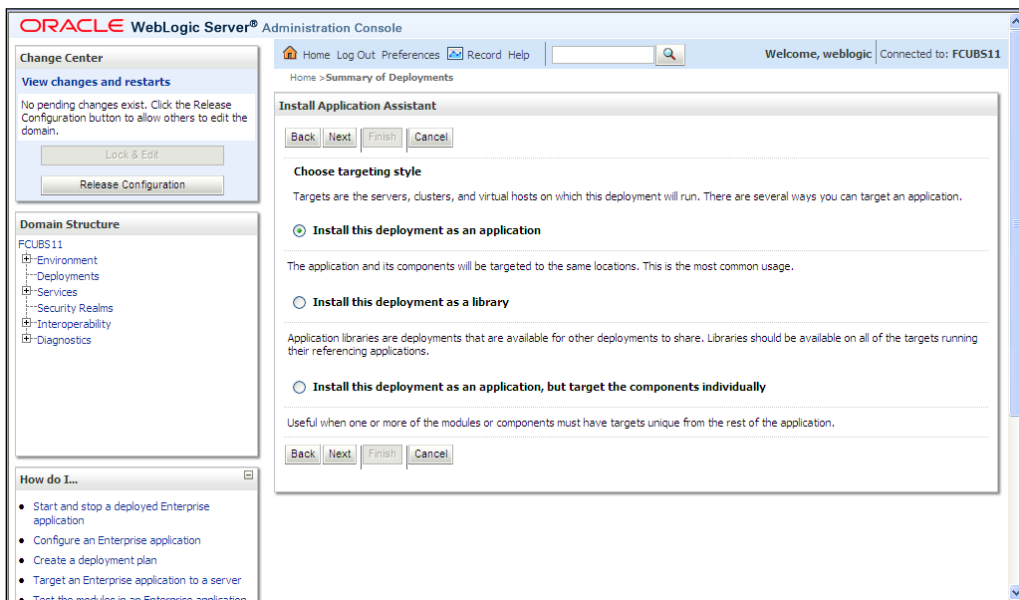


- Specify the EAR file path. You can use the 'Browse' button to locate the file.

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

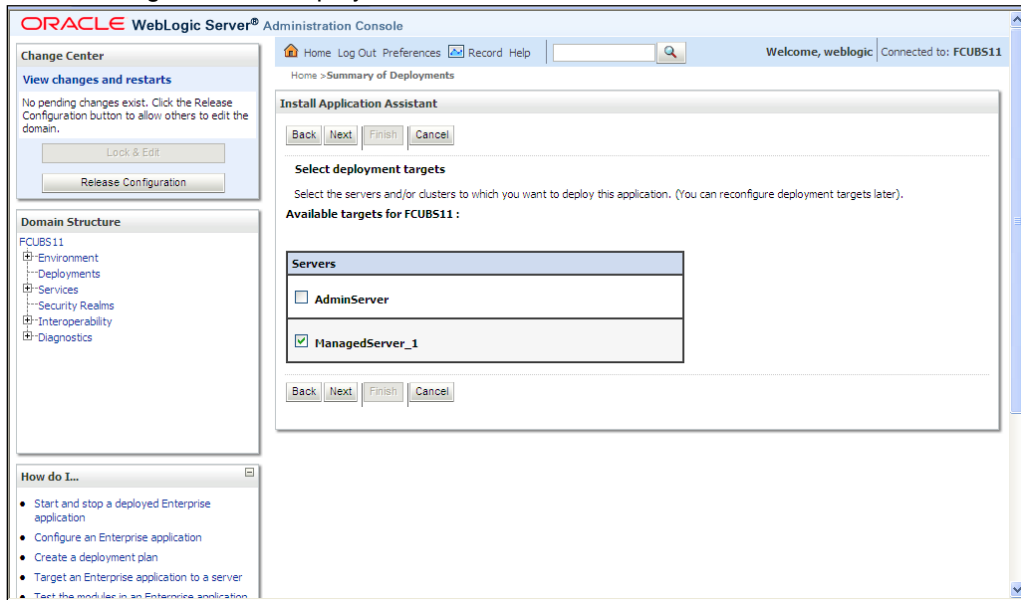


- Select the application FCUBS EAR from the list.
- Click 'Next'. Following screen is displayed:



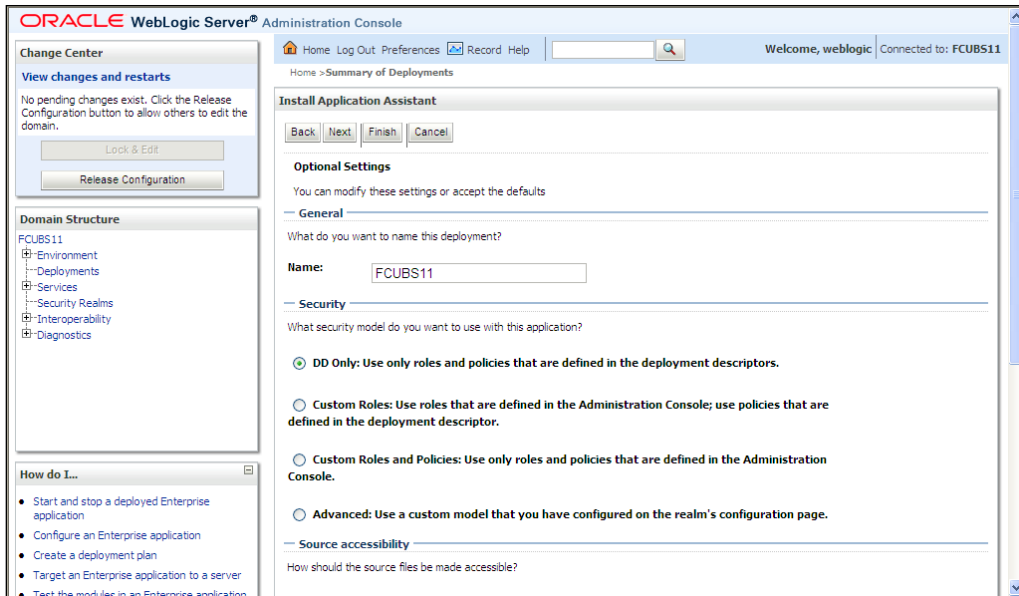
- Choose the targeting style 'Install this deployment as an application'.
- Click 'Next'.

The following screen is displayed



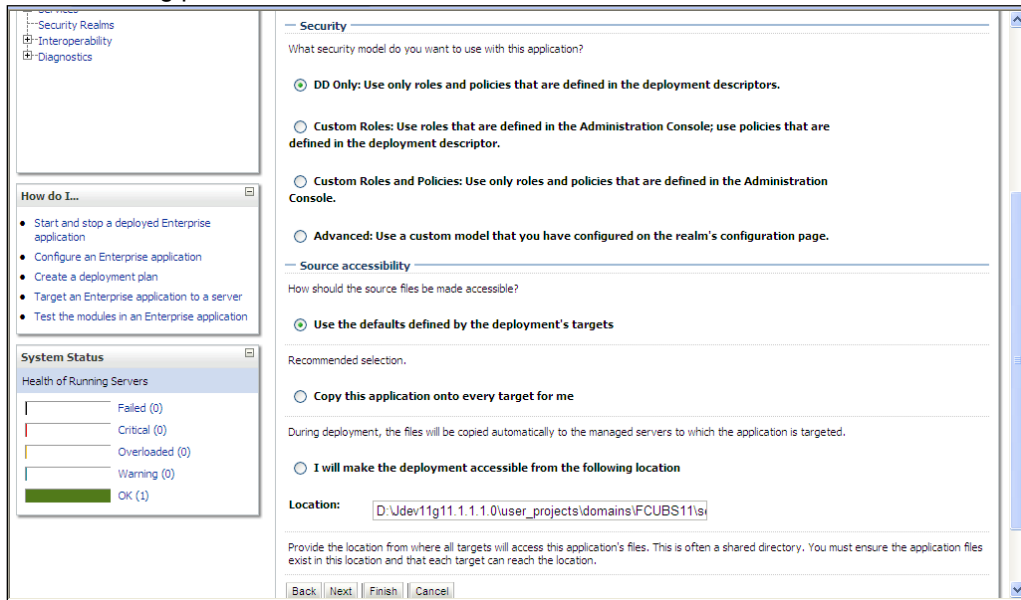
13. Select the target of the application. You can choose the server 'AdminServer' or 'Managed Server(s)'.

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



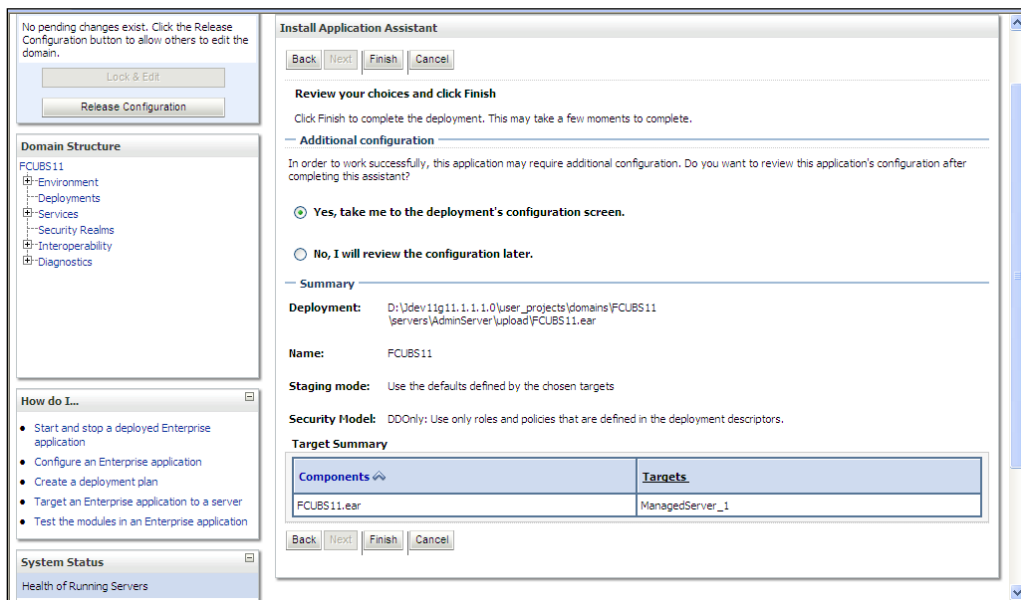
15. Check the deployment name.

The remaining portion of the screen is shown below:



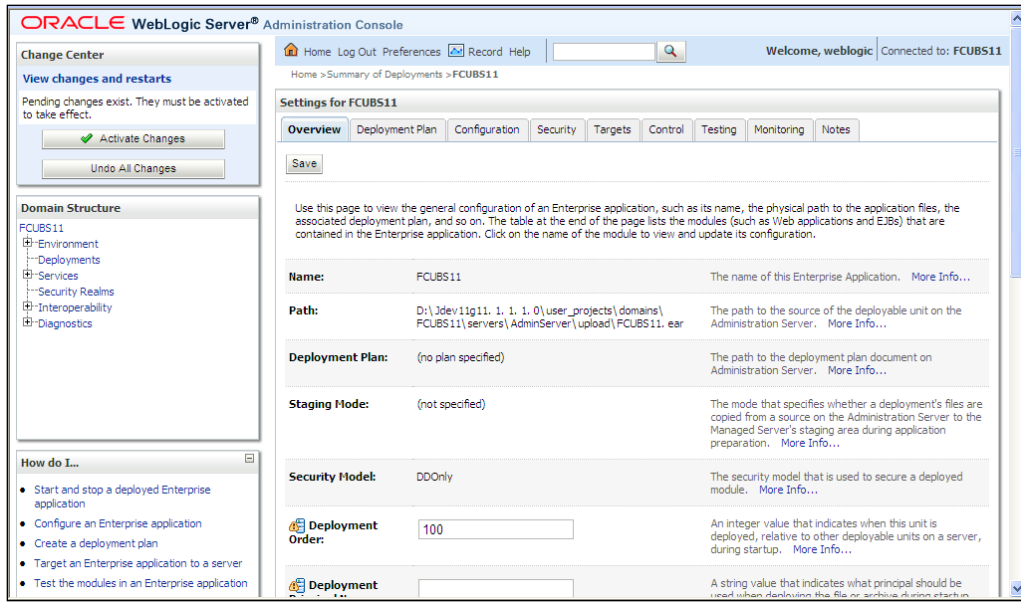
16. Check whether the deployment location is accessible or not.

The following screen is displayed.

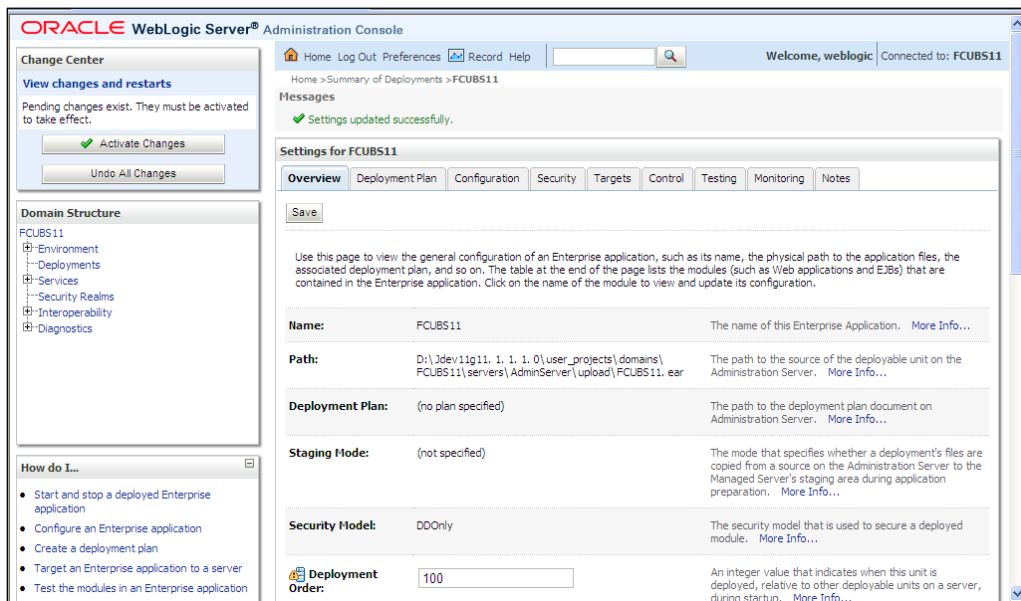


17. Click 'Finish' button. The following screen is displayed.

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

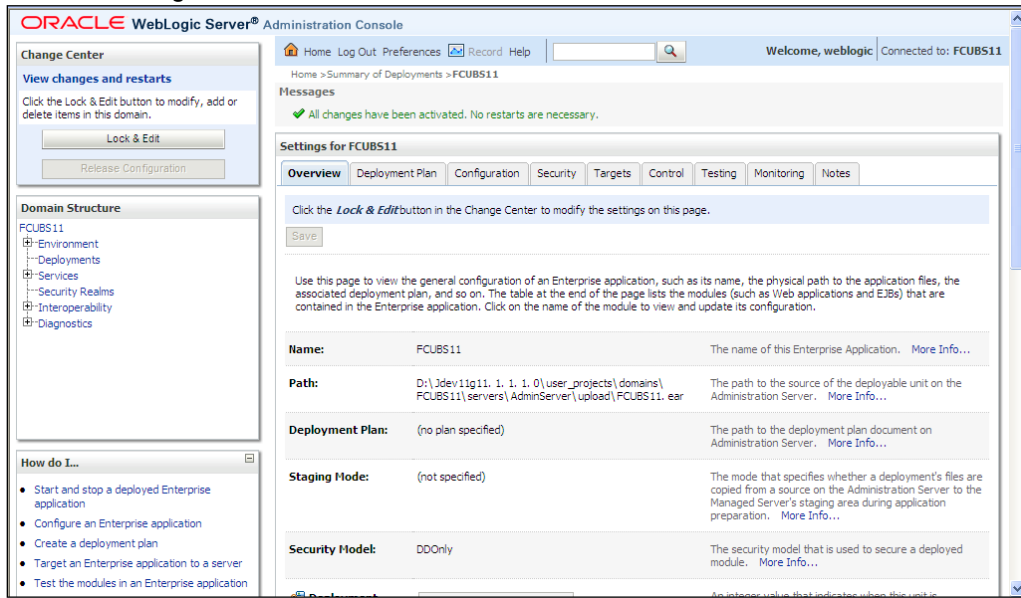


18. Click 'Save' button. The message 'Settings updated successfully' is displayed.

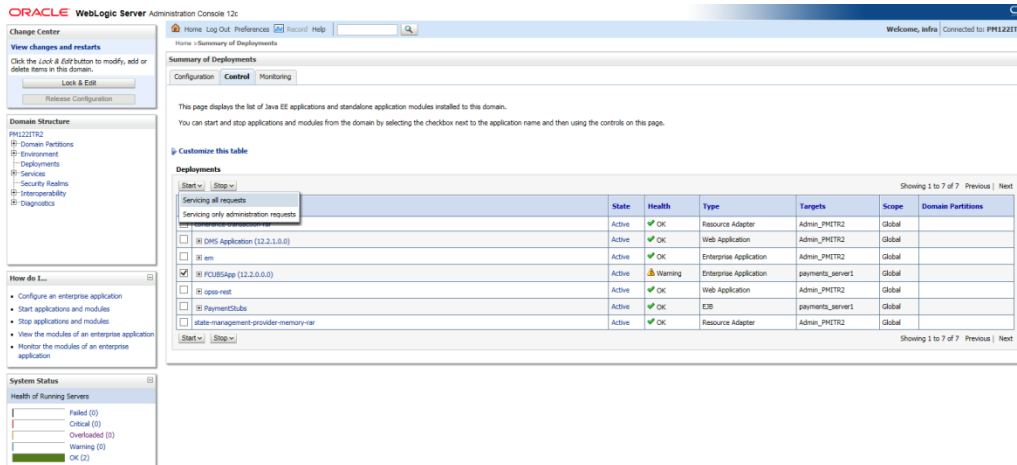


19. Click 'Activate Changes' button on the left pane. The message 'All the changes have been activated. No restarts are necessary' is displayed.

The screen is given below:

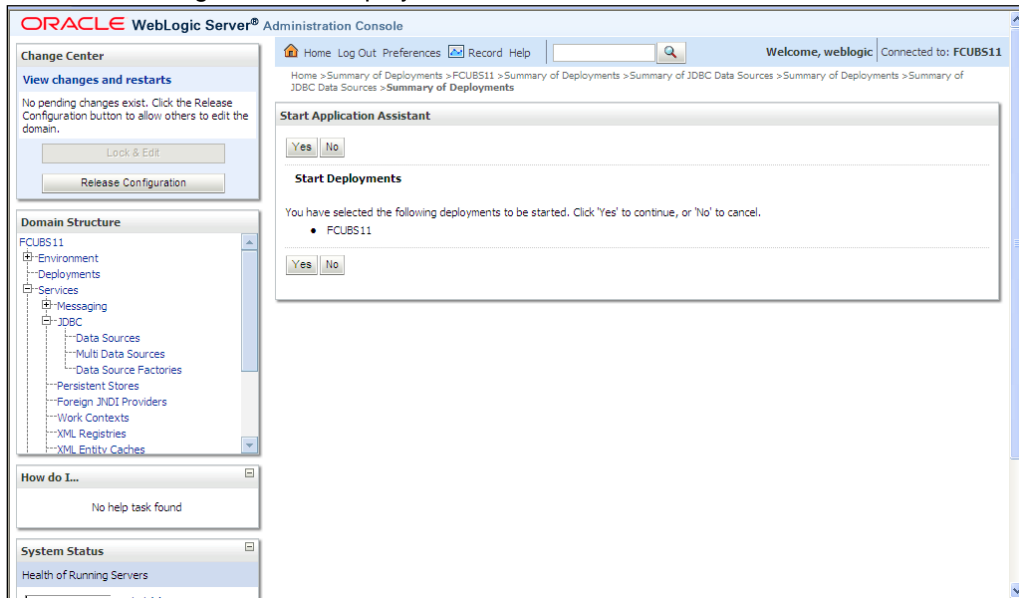


Click 'Deployment' on the left pane. Switch to Control tab. The following screen is displayed.

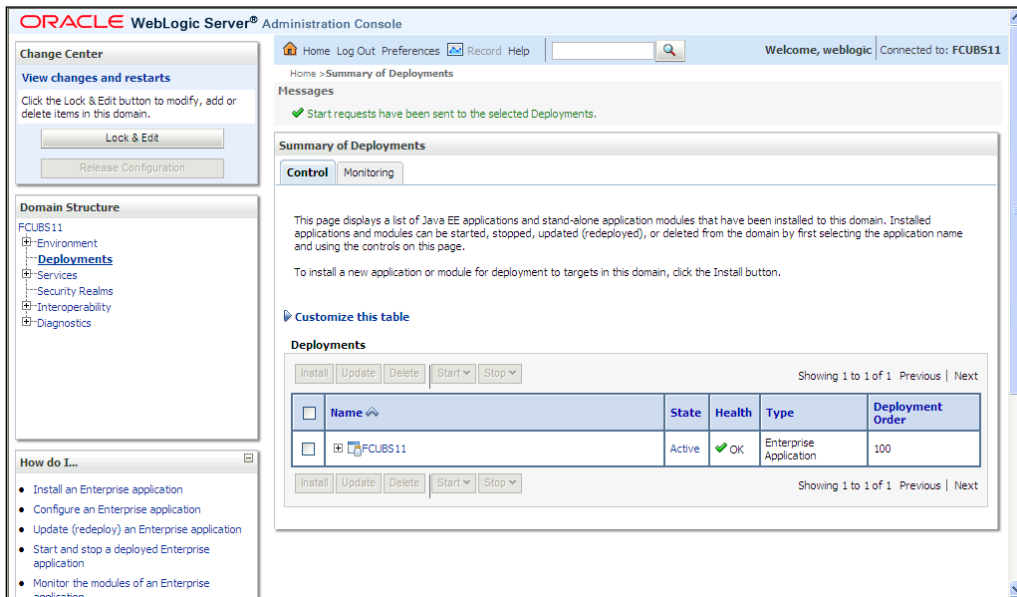


20. Click 'Start' drop-down button and select 'Servicing all requests'.

The following screen is displayed.



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



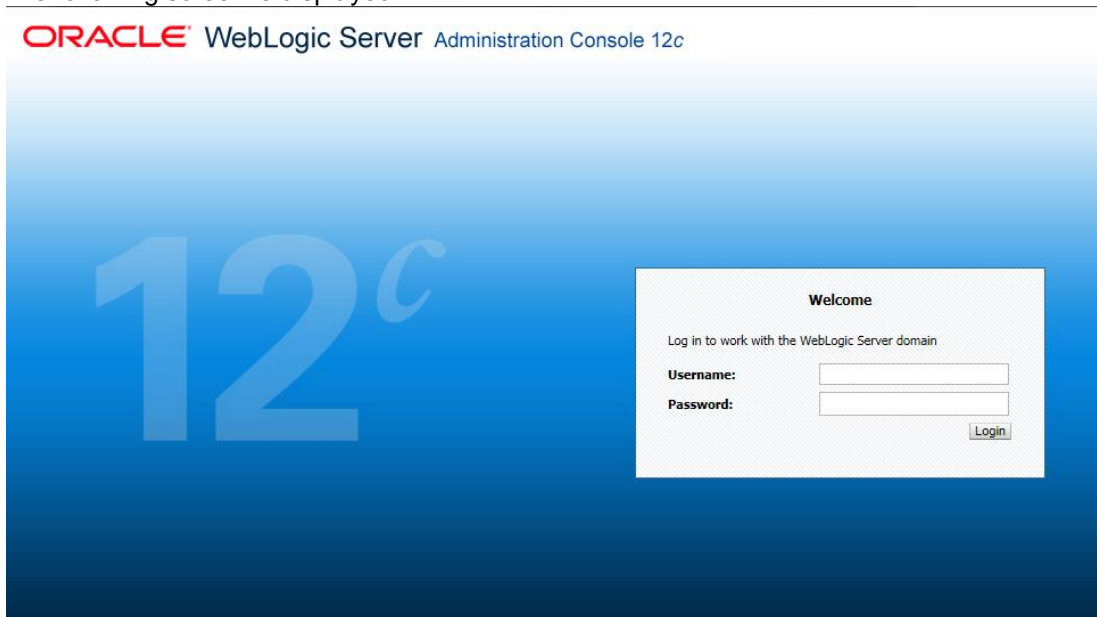
This completes the deployment process.

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.

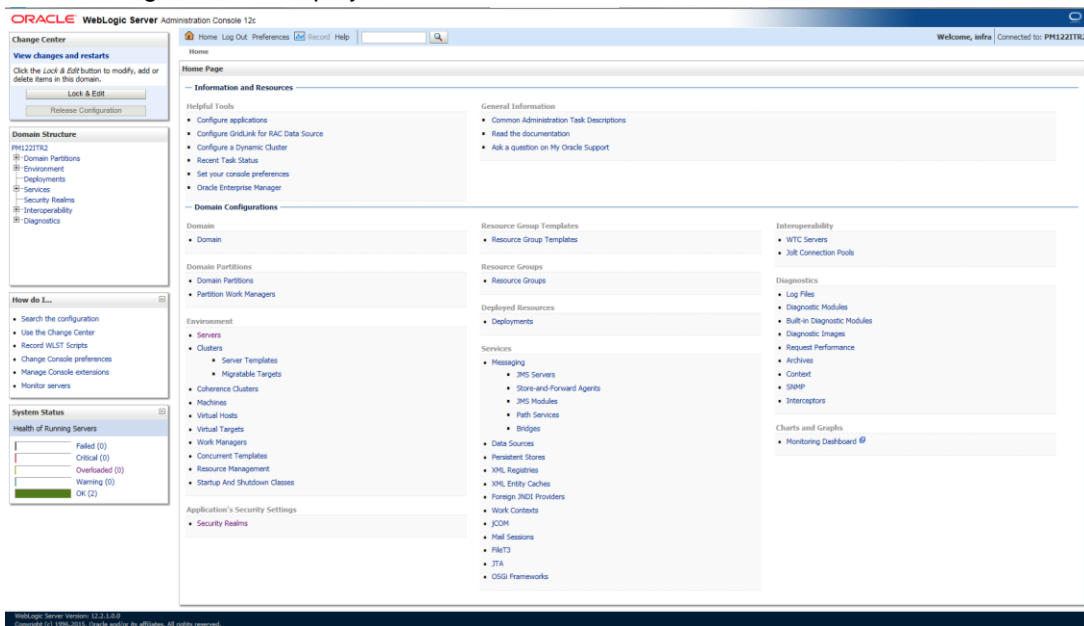
1. Launch Administrative Console of WebLogic application server. You can launch this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser. Eg: <http://10.10.10.10:1001/console>

22. The following screen is displayed:



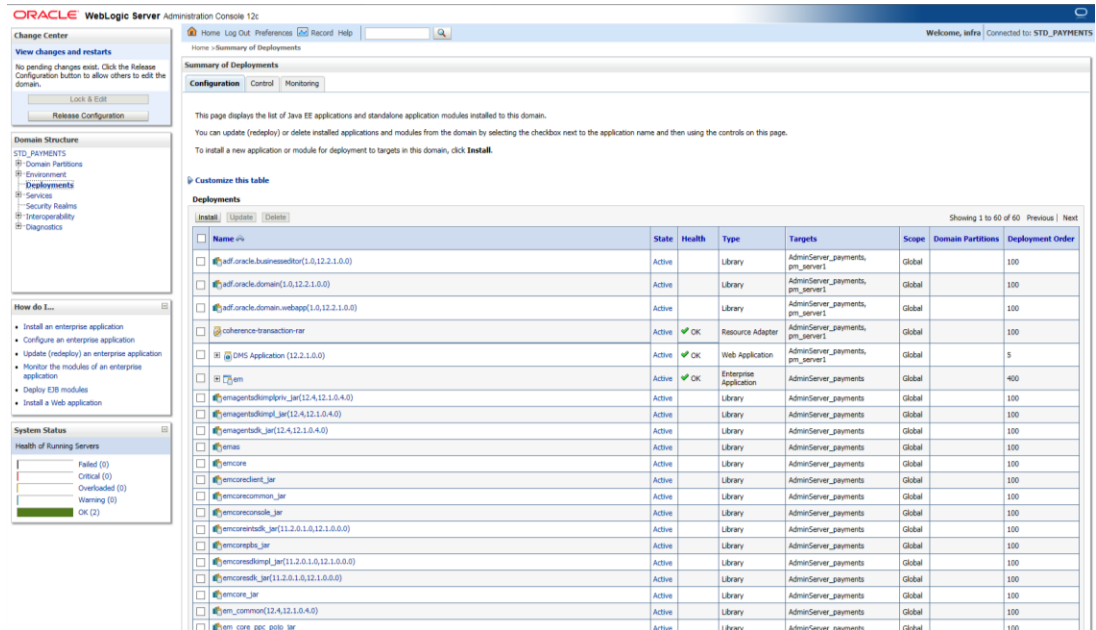
23. Specify the WebLogic administrator user name and password. Click 'Log In'.

The following screen is displayed:

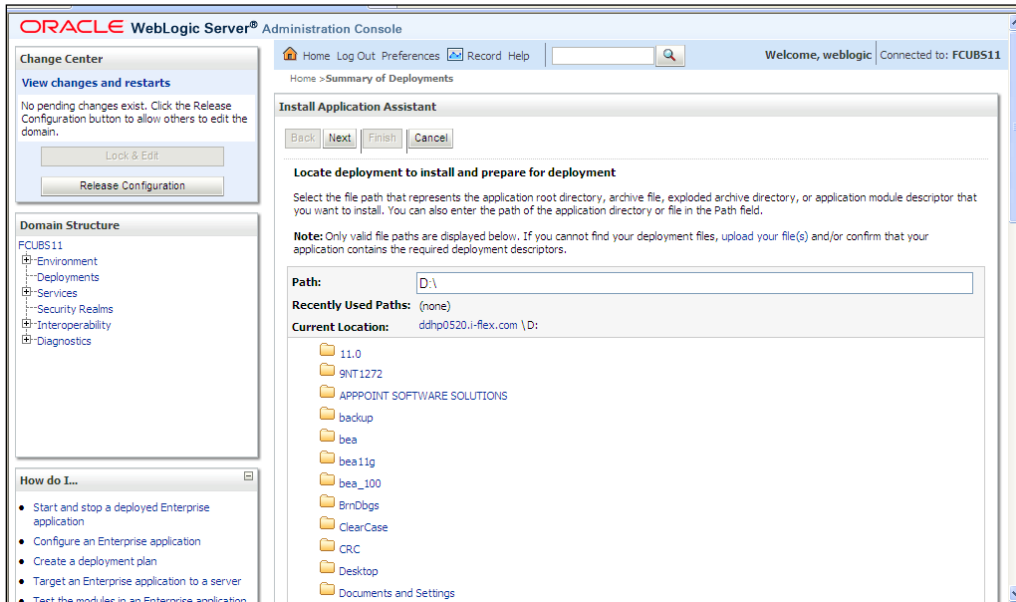


24. You need to deploy an EAR. For e.g. 'GWEJB.ear'. Go to 'Deployment'.

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

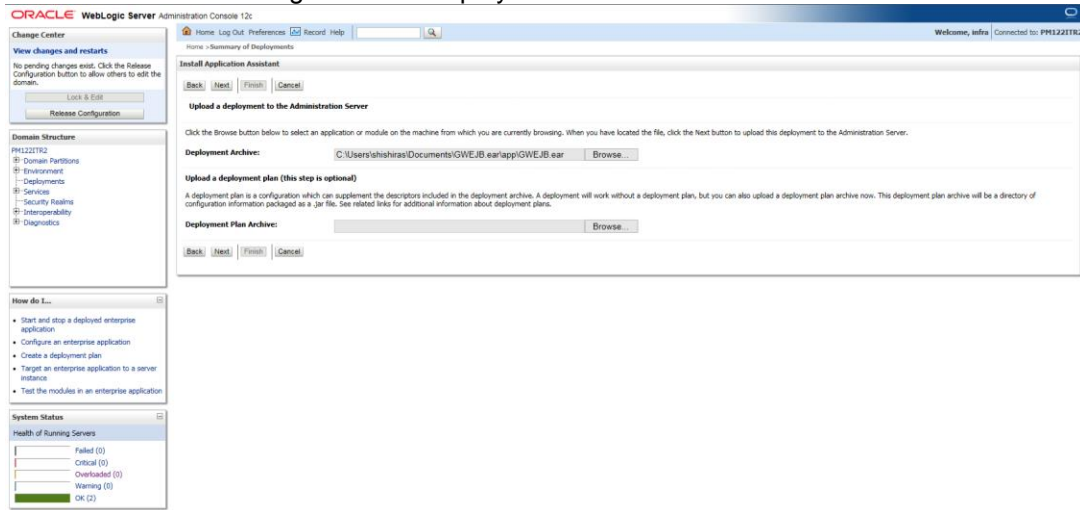


25. Click 'Install' button. The following screen is displayed:



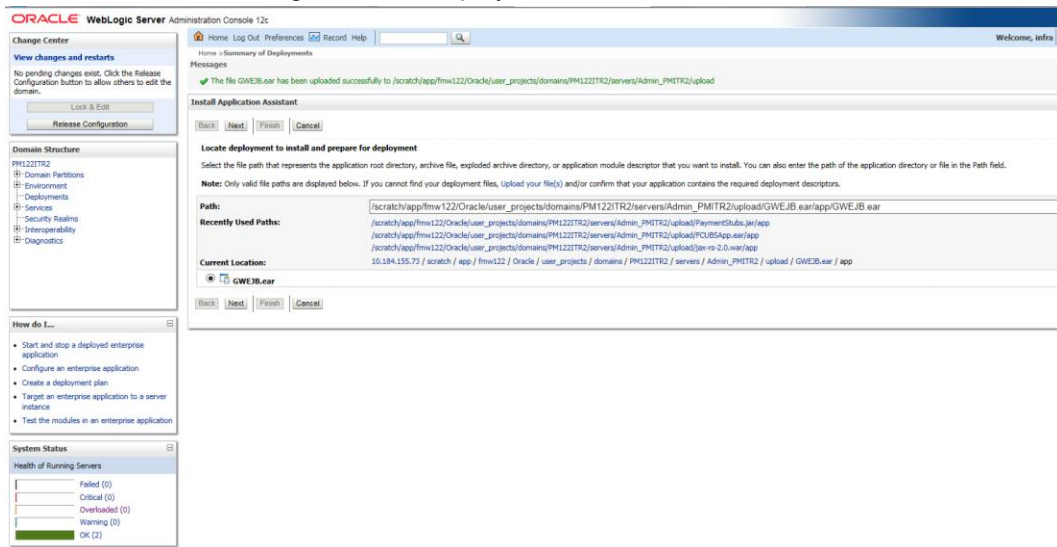
26. In order to specify the path/location of the enterprise archive file, click the link 'upload your file(s)'.

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



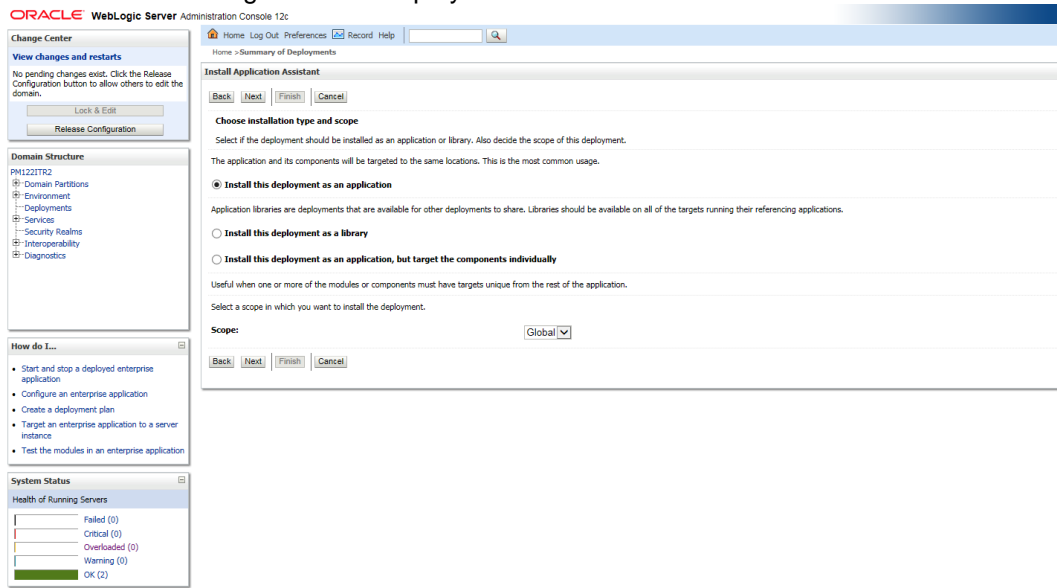
28. Specify the EAR file path. You can use the 'Browse' button to locate the file.

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



30. Select the application from the list.

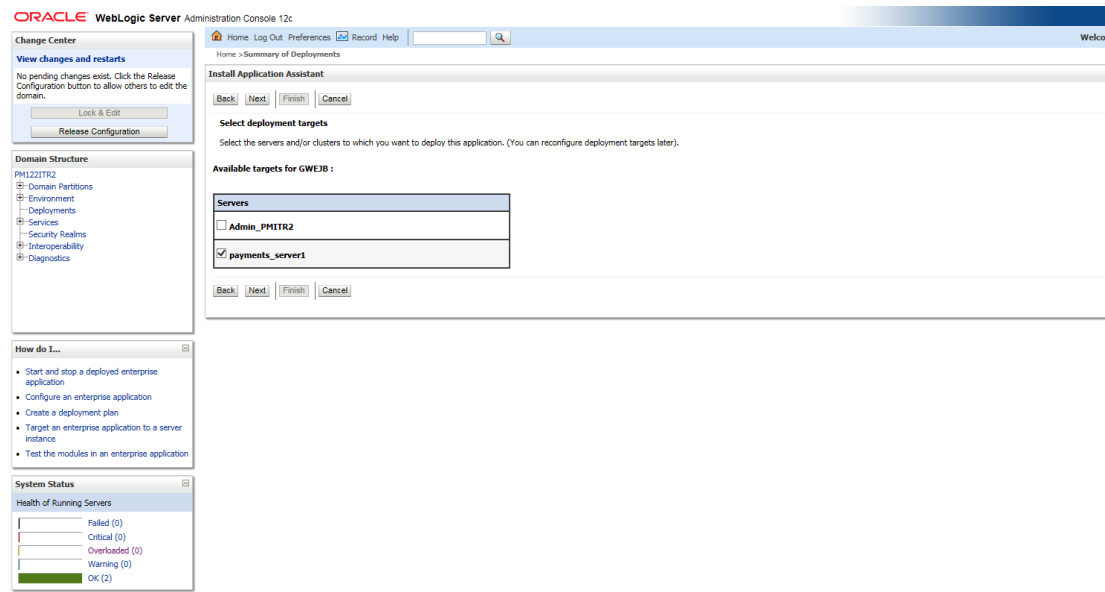
31. Click 'Next'. Following screen is displayed:



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

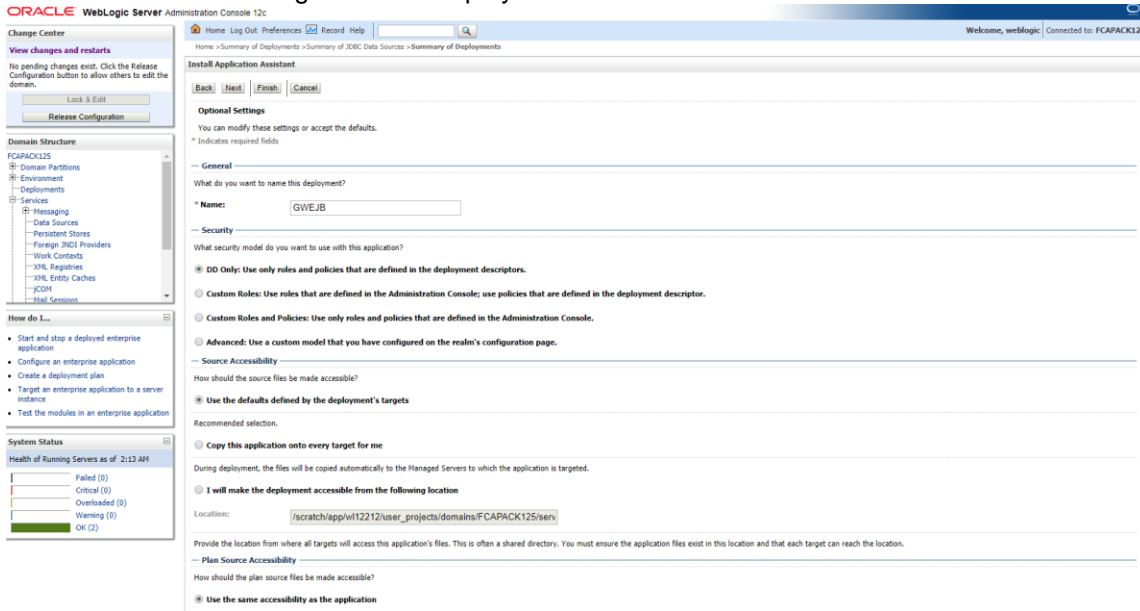
33. Click 'Next'.

The following screen is displayed



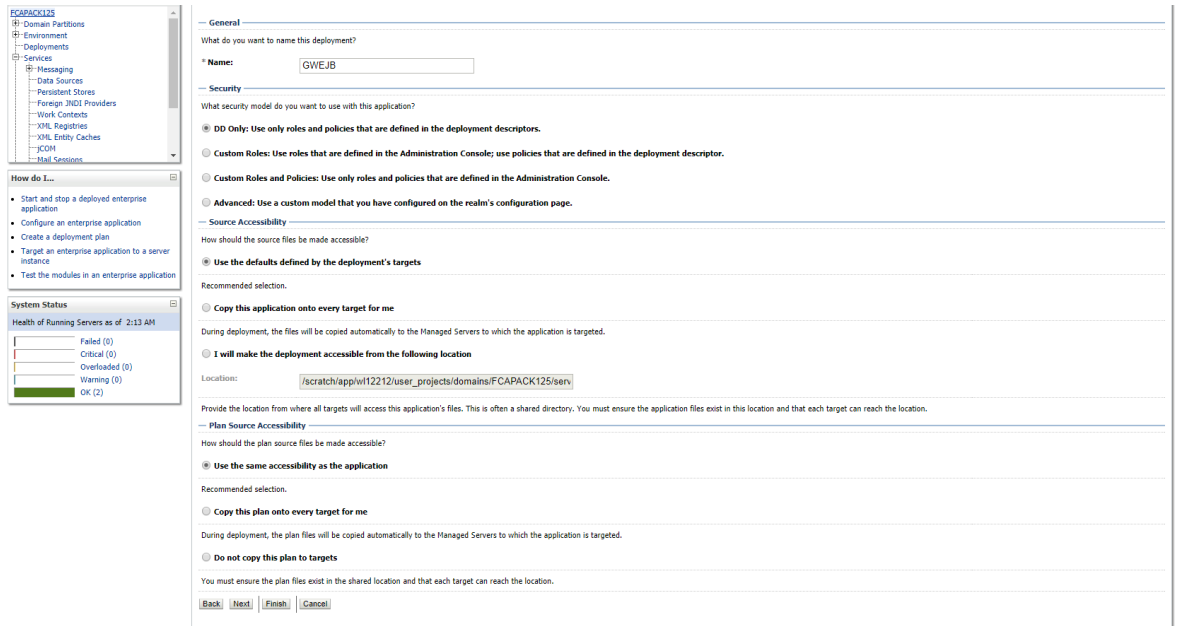
34. Select the target of the application. You can choose the server 'AdminServer' or 'Managed Server(s)'.

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



36. Check the deployment name.

The remaining portion of the screen is shown below:



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

The following screen is displayed.

ORACLE WebLogic Server Administration Console 12c

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/PM122TR2/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

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

ORACLE WebLogic Server Administration Console 12c

Home > Summary of Deployments > GWEJB(12.2.0.0.0)

Welcome, infra | C...

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/PM122TR2/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 arc and shutdown. This principal will be used to set the current subject when calling out into interfaces such as ApplicationLifecycleManager. If no principal name is specified, then the arc will be used. More Info...

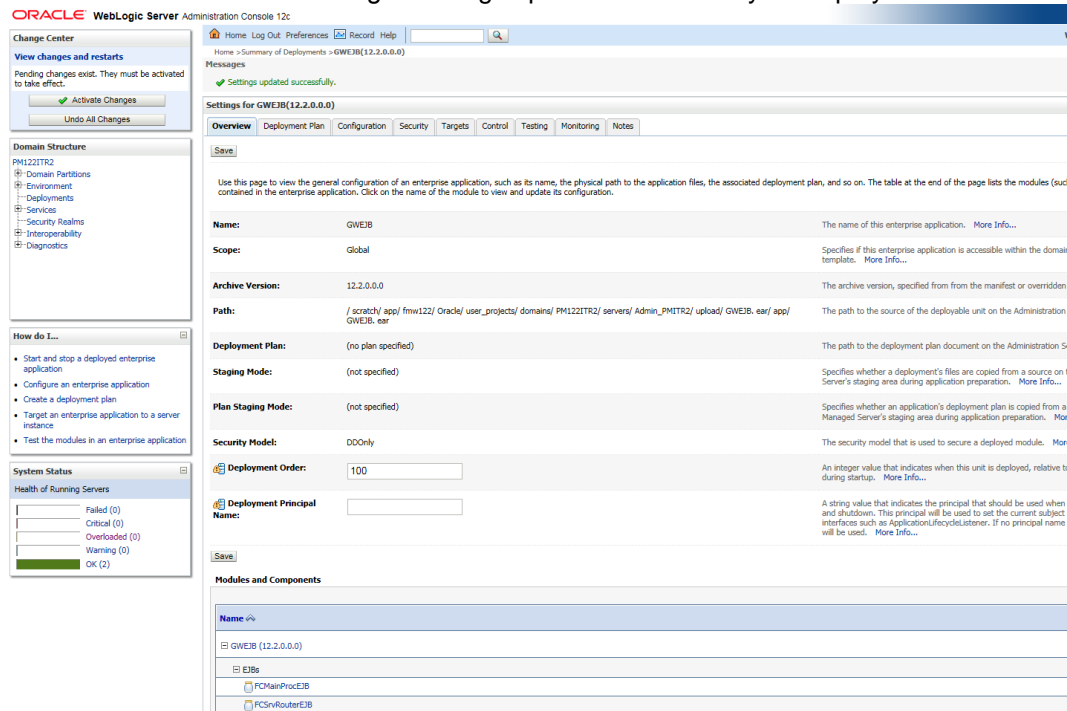
Save

Modules and Components

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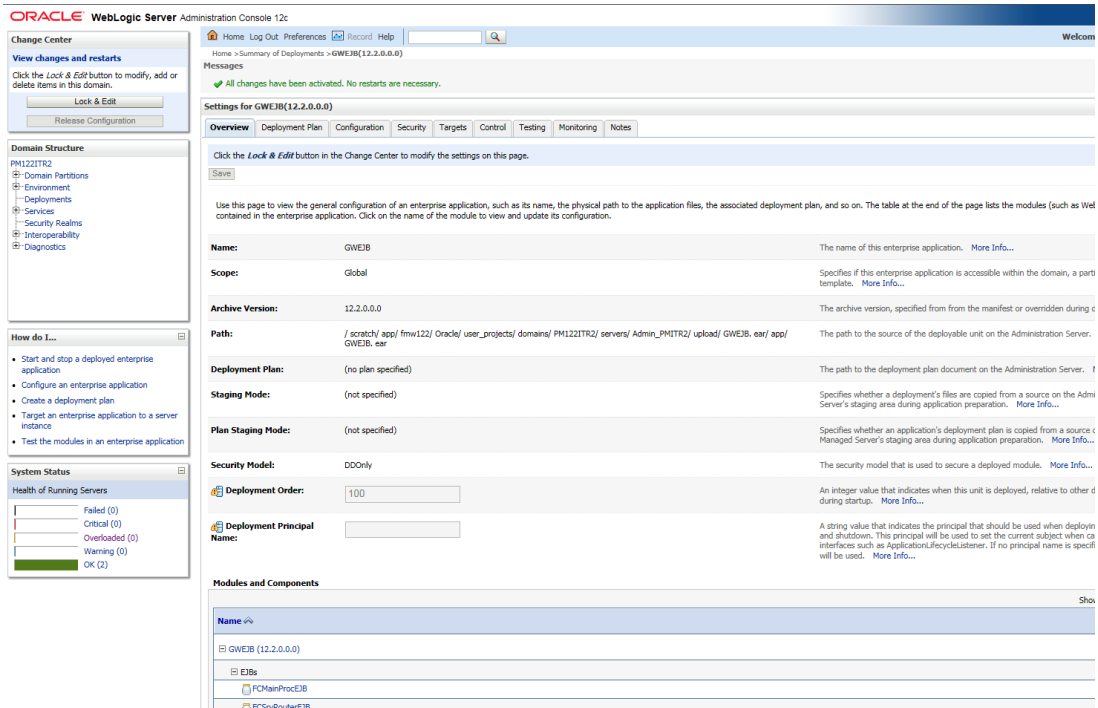
Name
GWEJB (12.2.0.0.0)
<ul style="list-style-type: none"> Elbs <ul style="list-style-type: none"> PCMainProc:EB PCSRvRouter:EB GWEJB

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



40. 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:



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 checkboxes next to the application name and then using the controls on this page.

Customize this table

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

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

42. 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

43. 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 applications. The table has the following columns: Name, State, Health, Type, Targets, Scope, and Domain Partitions. The applications listed are:

Name	State	Health	Type	Targets	Scope	Domain Partitions
coherence-transaction-ivar	Active	OK	Resource Adapter	Admin_PMTSR2	Global	
OMS Application (12.2.1.0.0)	Active	OK	Web Application	Admin_PMTSR2	Global	
em	Active	OK	Enterprise Application	Admin_PMTSR2	Global	
FOLBApp (12.2.0.0.0)	Active	Warning	Enterprise Application	payments_server1	Global	
GWCR (12.2.0.0.0)	Active	OK	Enterprise Application	payments_server1	Global	
opss-rest	Active	OK	Web Application	Admin_PMTSR2	Global	
PaymentStubs	Active	OK	EJB	payments_server1	Global	
state-management-provider-memory-ivar	Active	OK	Resource Adapter	Admin_PMTSR2	Global	

The interface also includes a left-hand navigation pane with sections like 'Change Center', 'Domain Structure', 'How do I...', and 'System Status'. The 'System Status' section shows 'Health of Running Servers' with a bar chart indicating 'OK (2)'.

This completes the deployment process.

1. Repeat the same steps from 1.3.3 for deploying GWWS(gateway webservice), Gateway MDB & Gateway HTTP servlet



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