

Deploying Oracle FLEXCUBE Application on WebLogic  
Oracle FLEXCUBE Universal Banking  
Release 14.0.0.0.0  
[February] [2018]



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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.

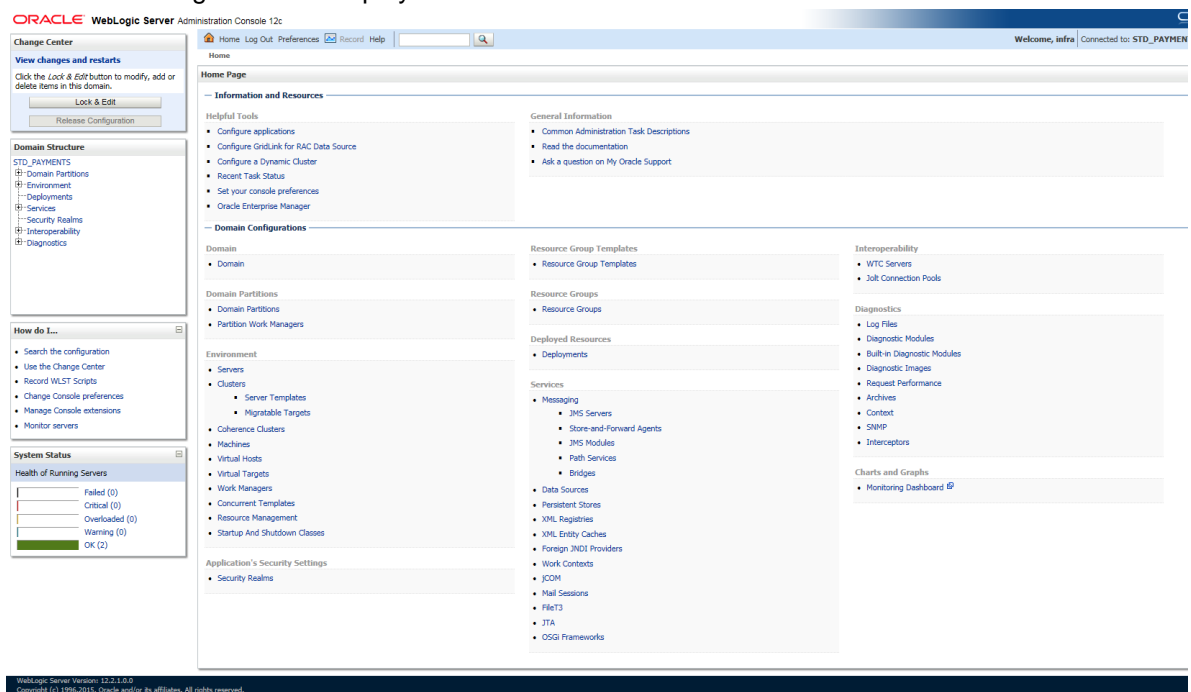
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser.  
Eg: <http://10.10.10.10:1001/console>

2. The following screen is displayed:

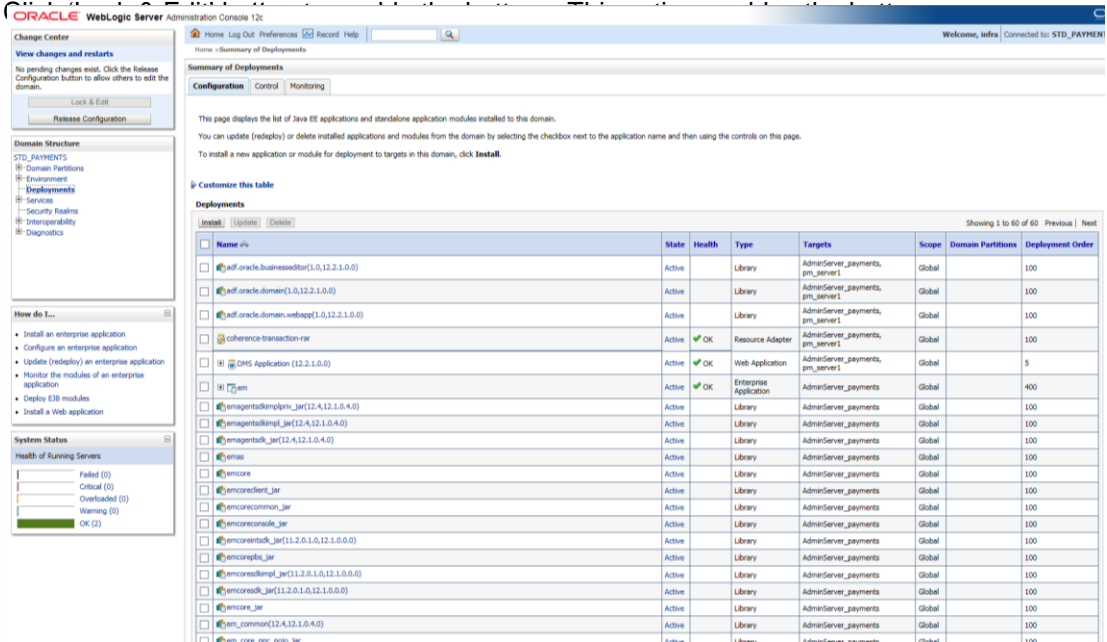


3. Specify the WebLogic administrator user name and password. Click 'Log In'.

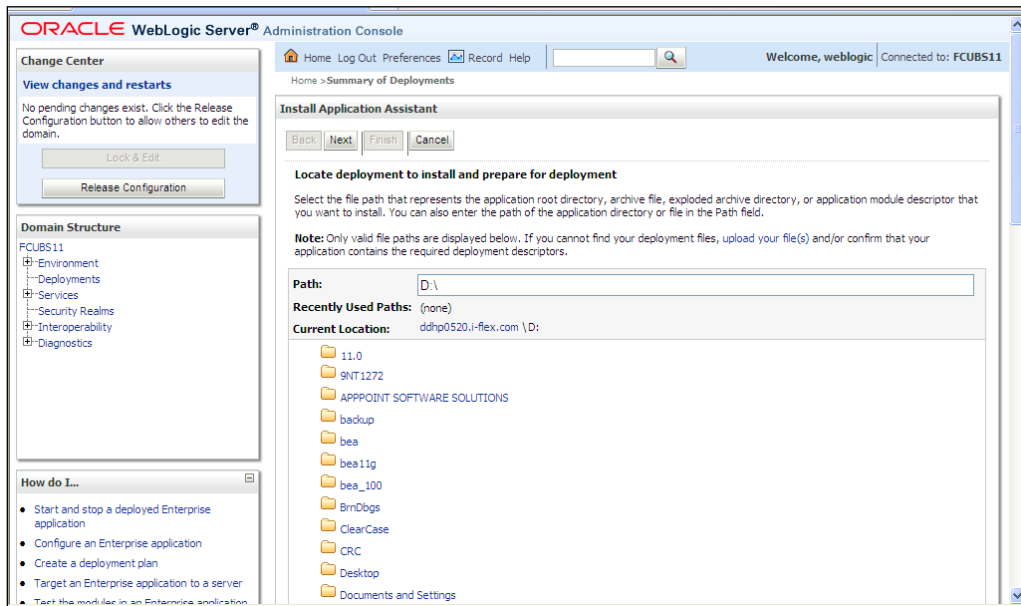
4. The following screen is displayed:



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



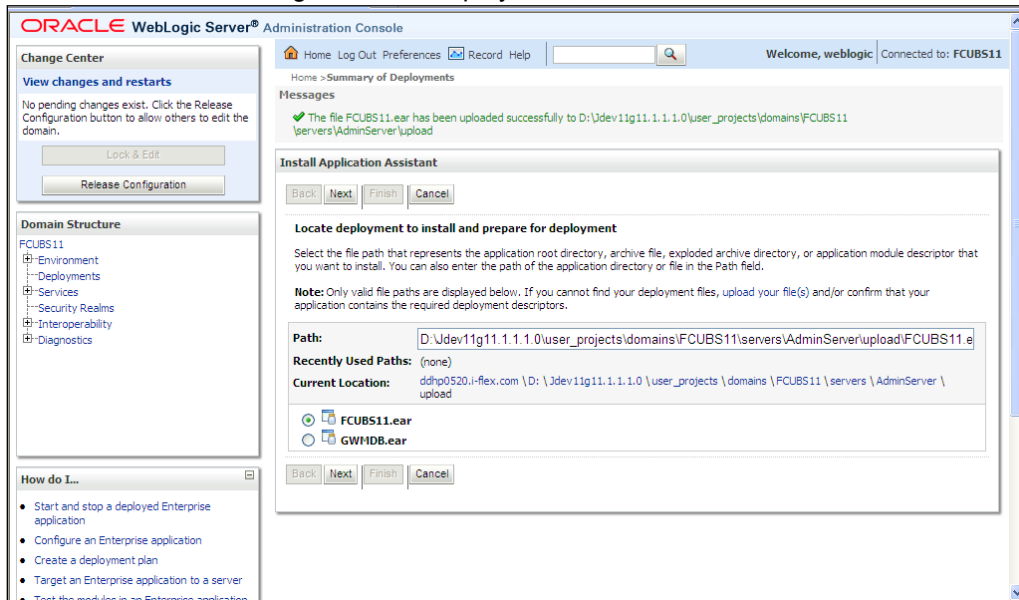
6. Click 'Install' button. The following screen is displayed:



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

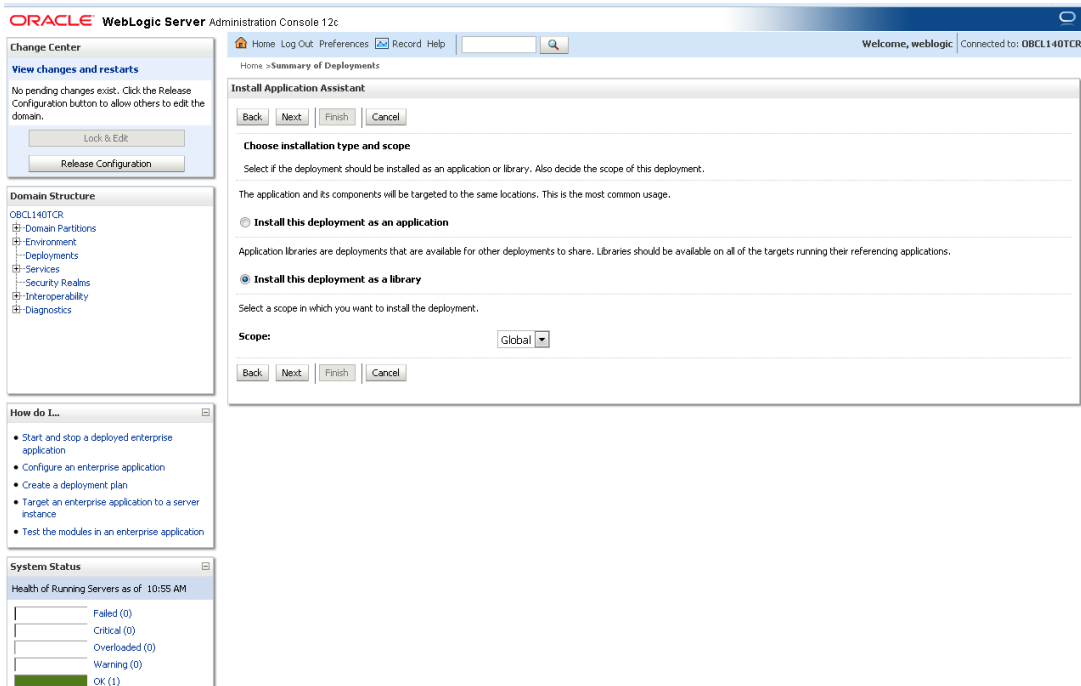
8. Specify the EAR file path. You can use the 'Browse' button to locate the file.

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



10. Select the application Adapter EAR from the list.

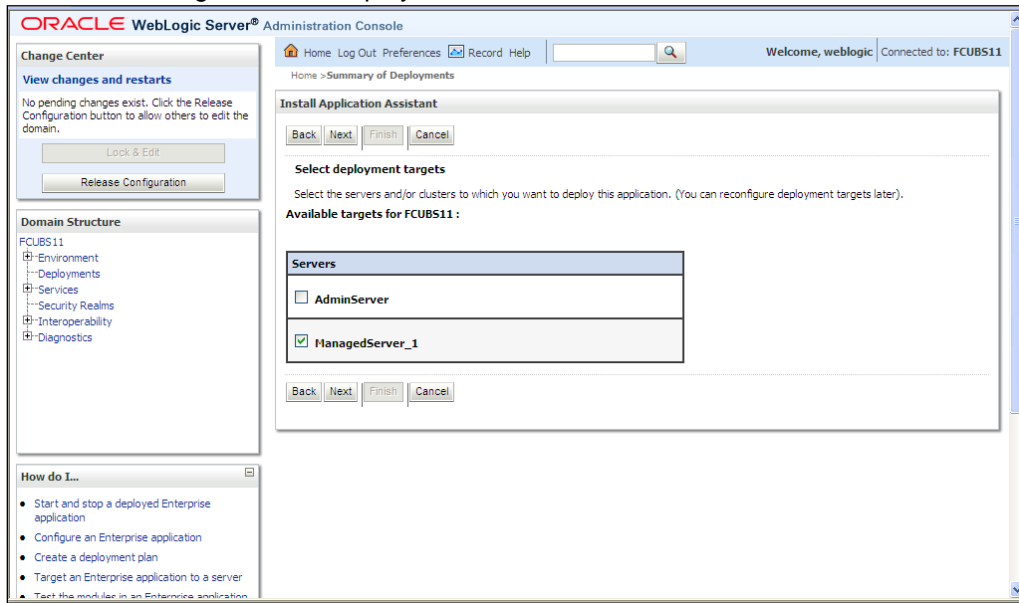
11. Click 'Next'. Following screen is displayed:



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

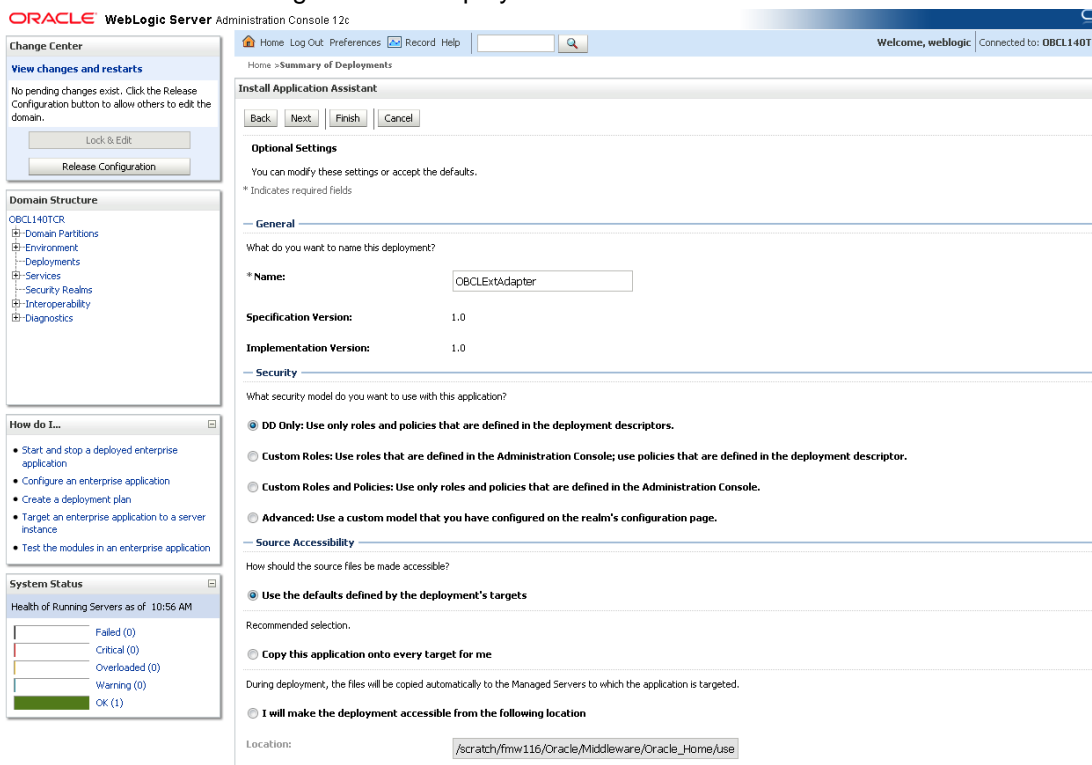
13. Click 'Next'.

14. The following screen is displayed



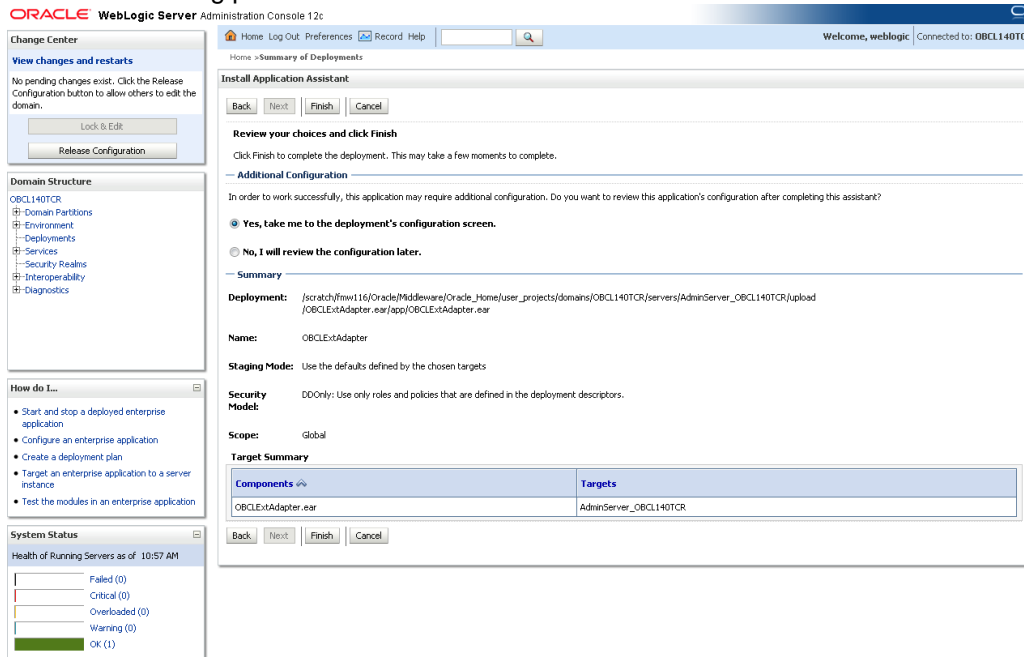
15. Select the target of the application. You can choose the server 'AdminServer' or 'Managed Server(s)'.

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

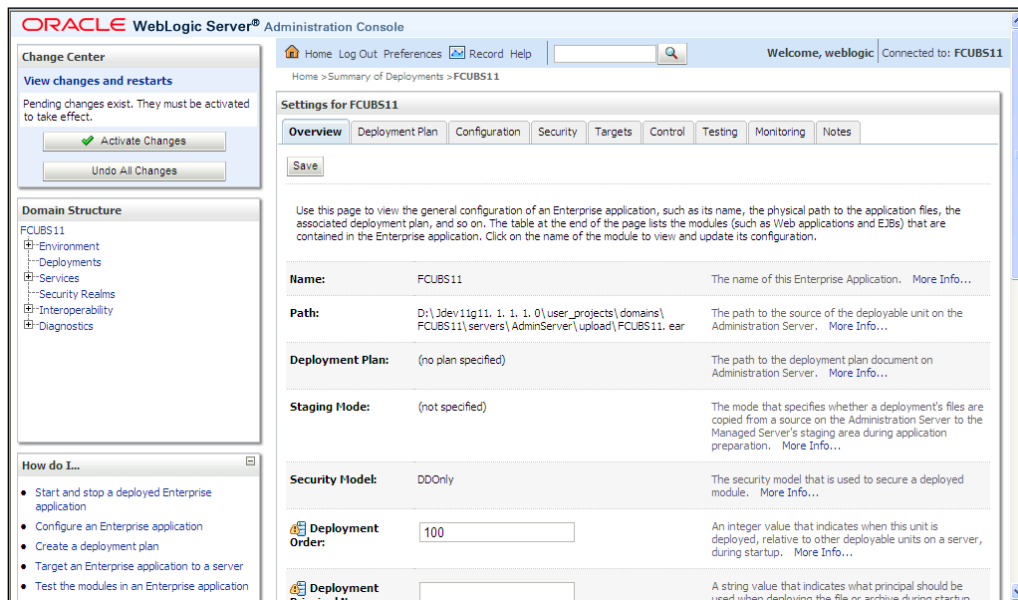


17. Check the deployment name.

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



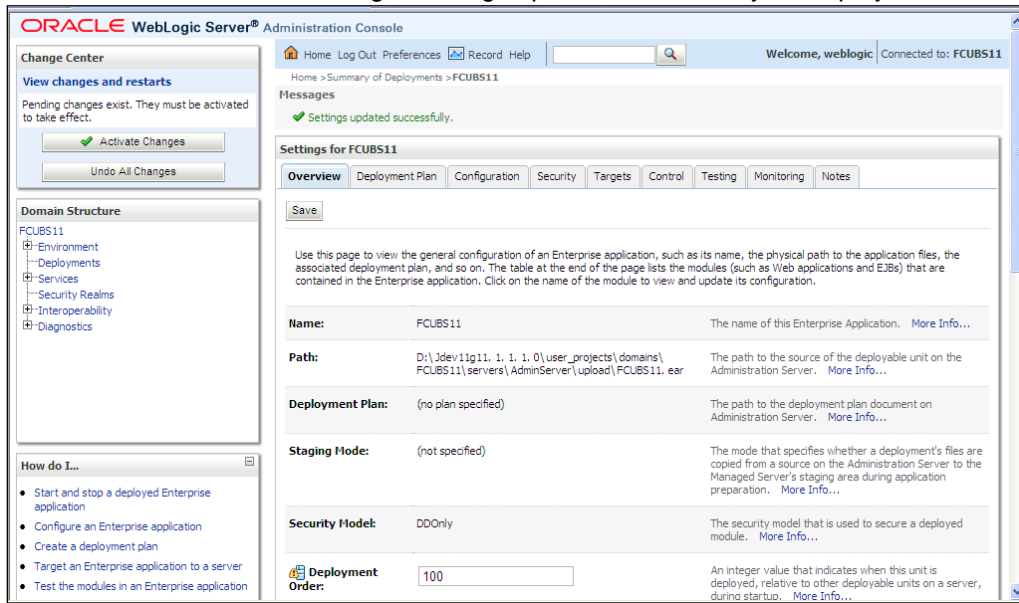
19. Click 'Finish' button. The following screen is displayed.



20.



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

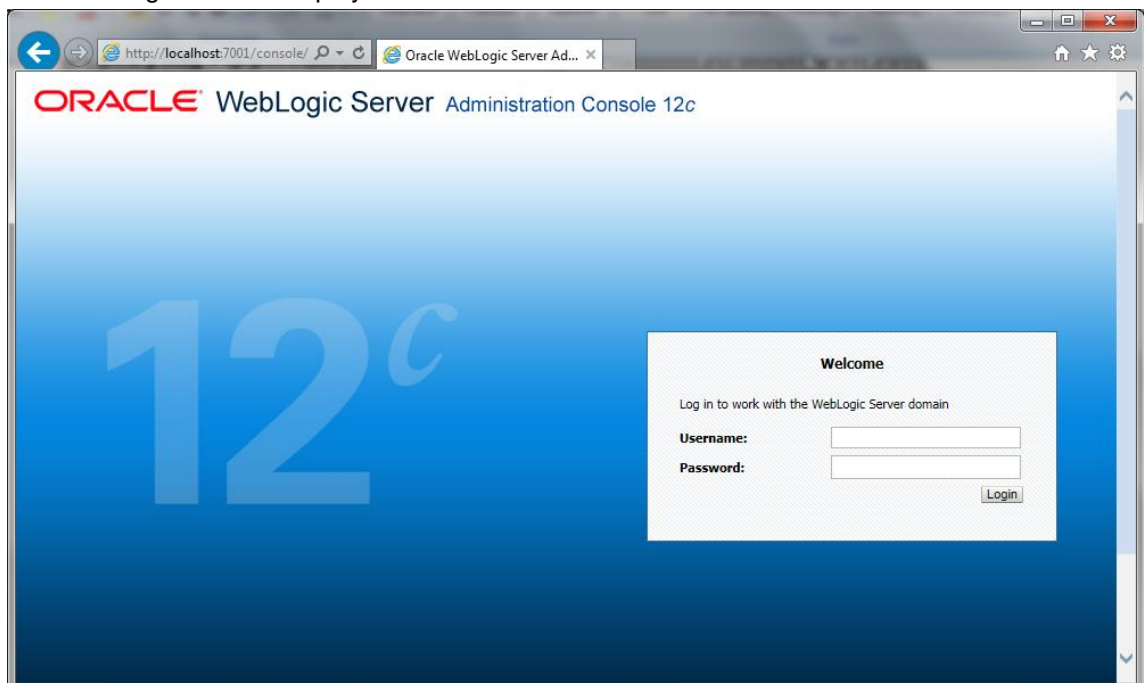


22. Click 'Activate Changes' button on the left pane. The message 'All the changes have been activated. No restarts are necessary' is displayed.

### 1.3.2 Deploying Dependency Library "Jax-RS"

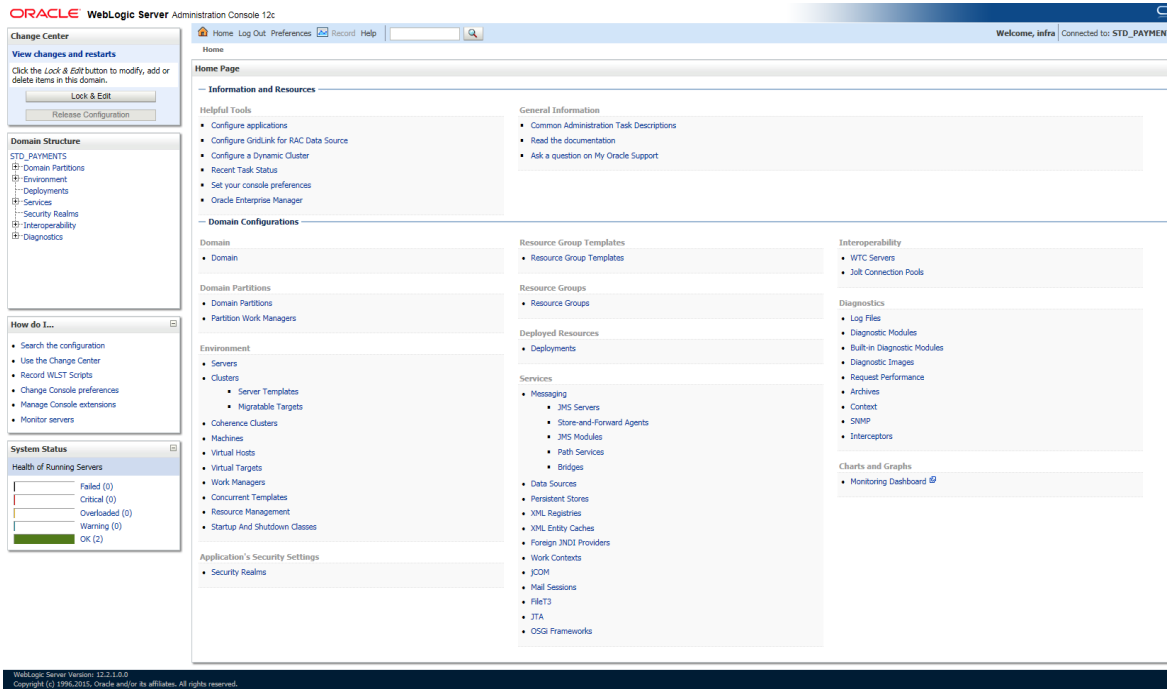
This library must be installed before deploying FCUBSApp.ear. Follow the below steps

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**  
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
emagentsdkimpl_priv_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

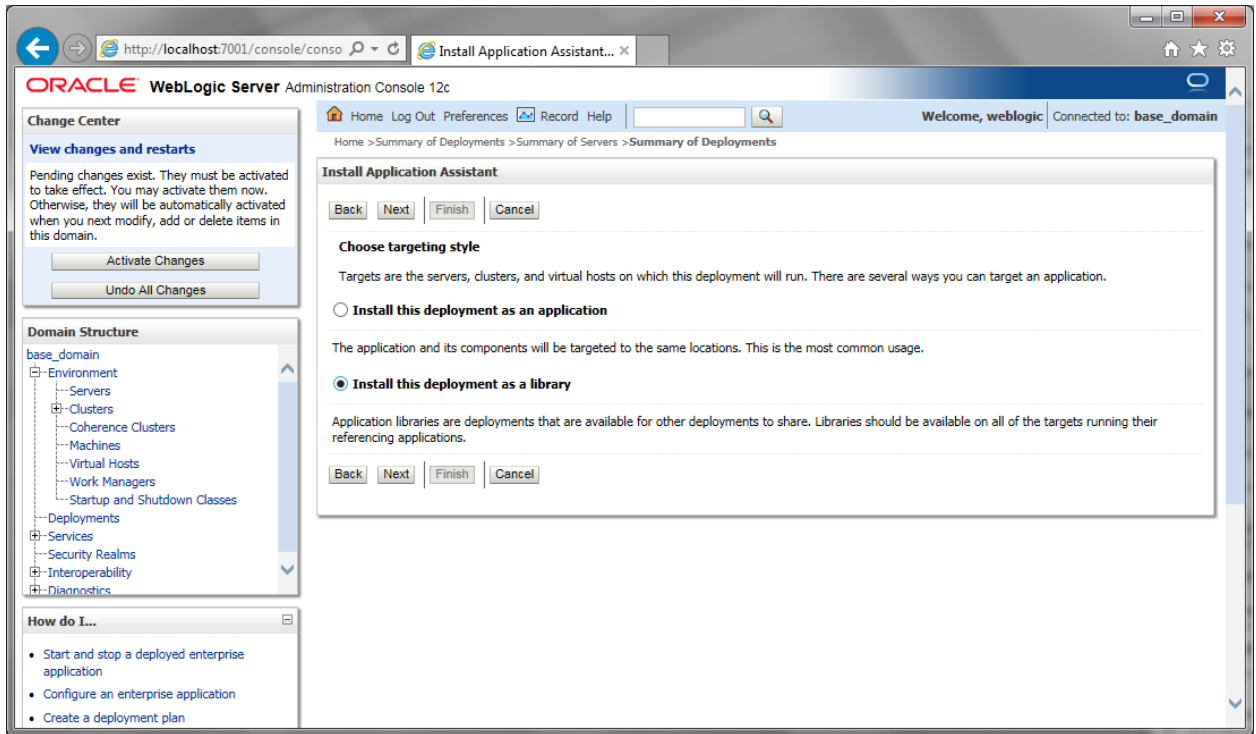
**Recently Used Paths:** /scratch/app/bpm12212/user\_projects/domains/SOADOM3/servers/AdminServer/upload/FCUB5.ear/app

**Current Location:** 10.184.158.197 / scratch / app / bpm12212 / user\_projects / domains / SOADOM3 / servers / AdminServer / upload / jax-rs-2.0.war / app

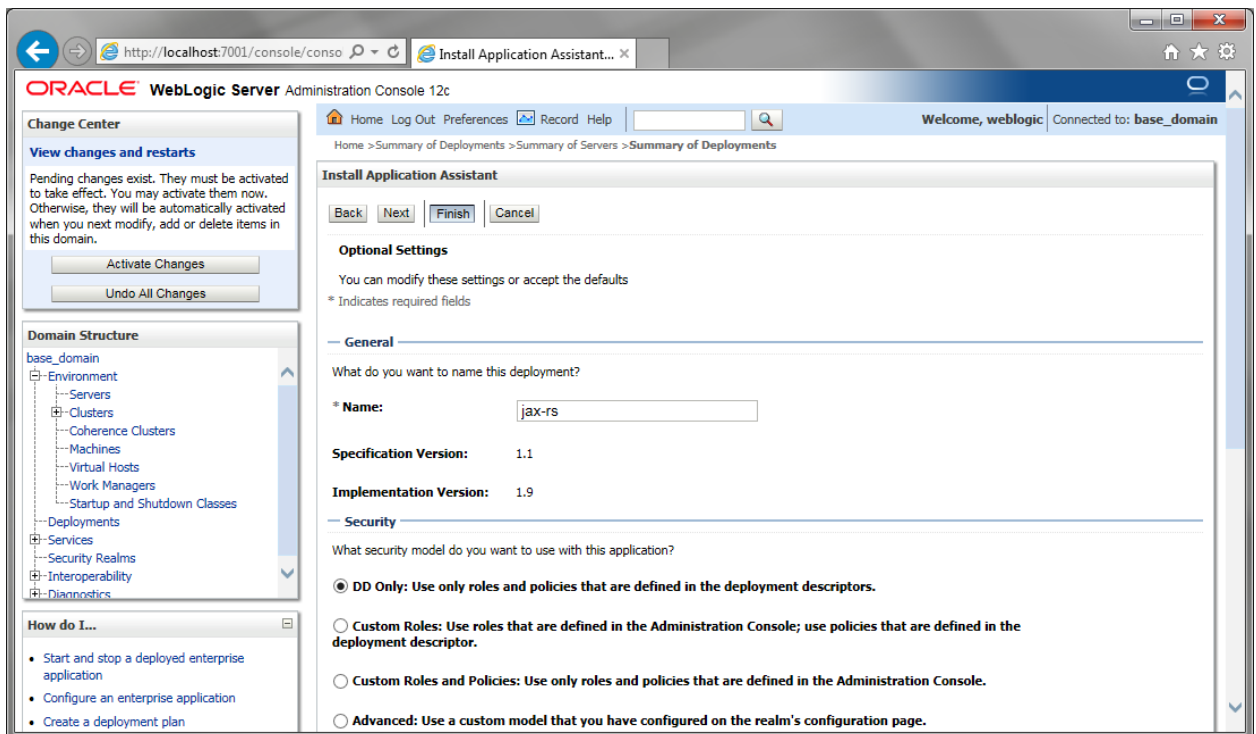
jax-rs-2.0.war

Back Next Finish Cancel

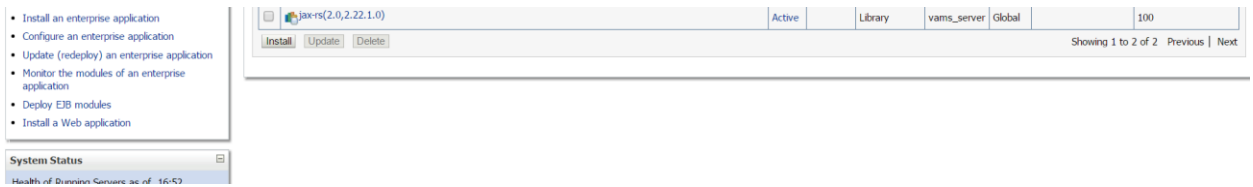
Navigate and select jersey bundle under the path “w\server\common\deployable-libraries\jax-rs-2.0.war” and click next



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’.

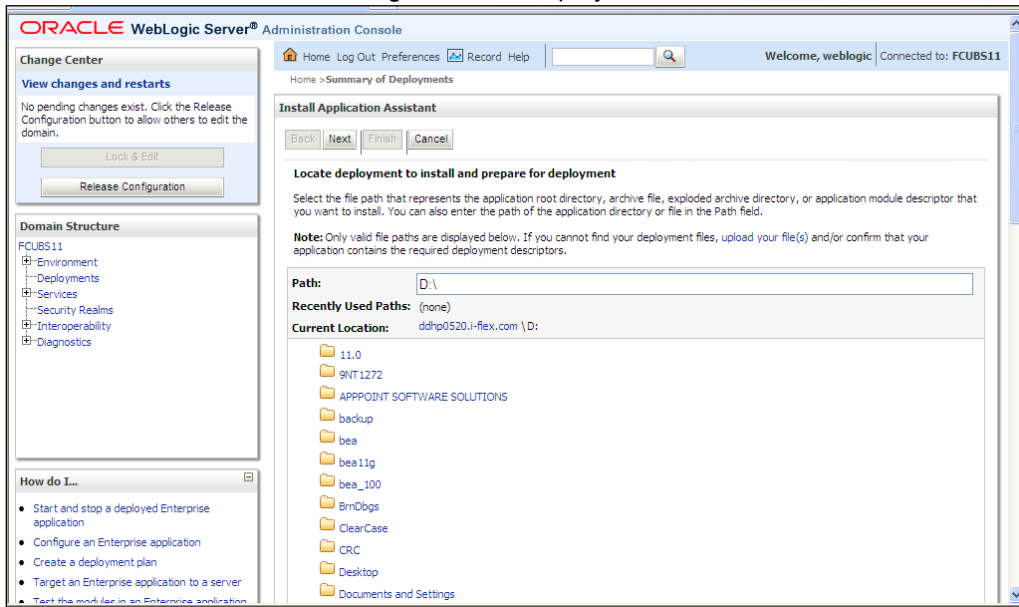
The following screen is displayed:

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

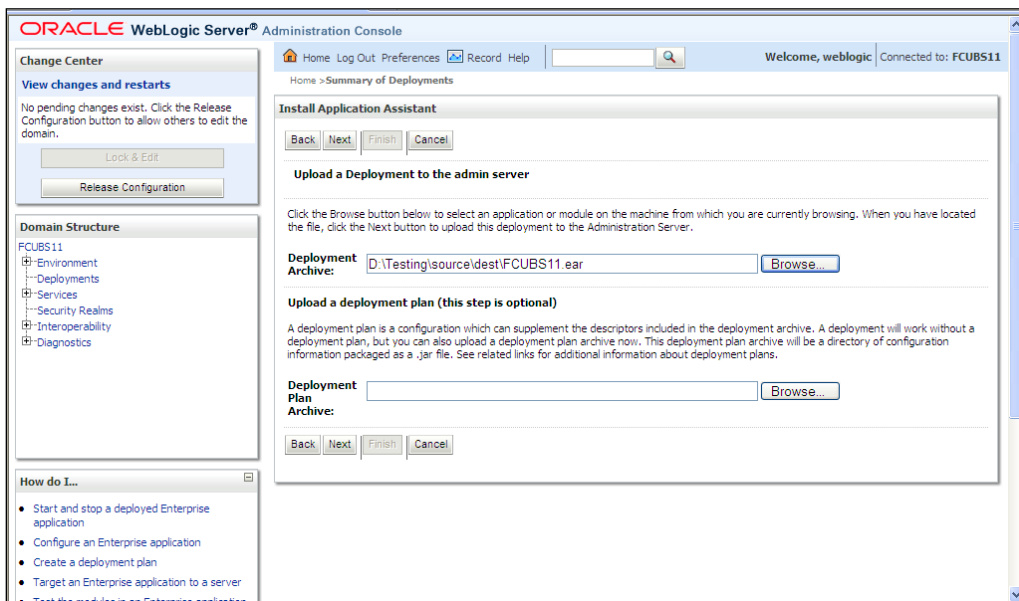
Click 'Lock & Edit' button to enable the buttons. This action enables the buttons.

Name	State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
self:oracle.businessfor(1.0,12.2.1.0.0)	Active		Library	AdminServer_payments, pm_server1	Global		100
self:oracle.domain(1.0,12.2.1.0.0)	Active		Library	AdminServer_payments, pm_server1	Global		100
self: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
OHMS Application (12.2.1.0.0)	Active	OK	Web Application	AdminServer_payments, pm_server1	Global		5
si:em	Active	OK	Enterprise Application	AdminServer_payments	Global		400
emagenttalkimpl_jar(12.4,12.1.0.4.0)	Active		Library	AdminServer_payments	Global		100
emagenttalkimpl_jar(12.4,12.1.0.4.0)	Active		Library	AdminServer_payments	Global		100
emagenttalk_jar(12.4,12.1.0.4.0)	Active		Library	AdminServer_payments	Global		100
emias	Active		Library	AdminServer_payments	Global		100
emincore	Active		Library	AdminServer_payments	Global		100
emincoreclient_jar	Active		Library	AdminServer_payments	Global		100
emincorecommon_jar	Active		Library	AdminServer_payments	Global		100
emincoreconsole_jar	Active		Library	AdminServer_payments	Global		100
emincoreevents_jar(11.2.0.1.0,12.1.0.0.0)	Active		Library	AdminServer_payments	Global		100
emincoreplus_jar	Active		Library	AdminServer_payments	Global		100
emincoreimpl_jar(11.2.0.1.0,12.1.0.0.0)	Active		Library	AdminServer_payments	Global		100
emincoread_jar(11.2.0.1.0,12.1.0.0.0)	Active		Library	AdminServer_payments	Global		100
emincore_jar	Active		Library	AdminServer_payments	Global		100
emem_common(12.4,12.1.0.4.0)	Active		Library	AdminServer_payments	Global		100

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

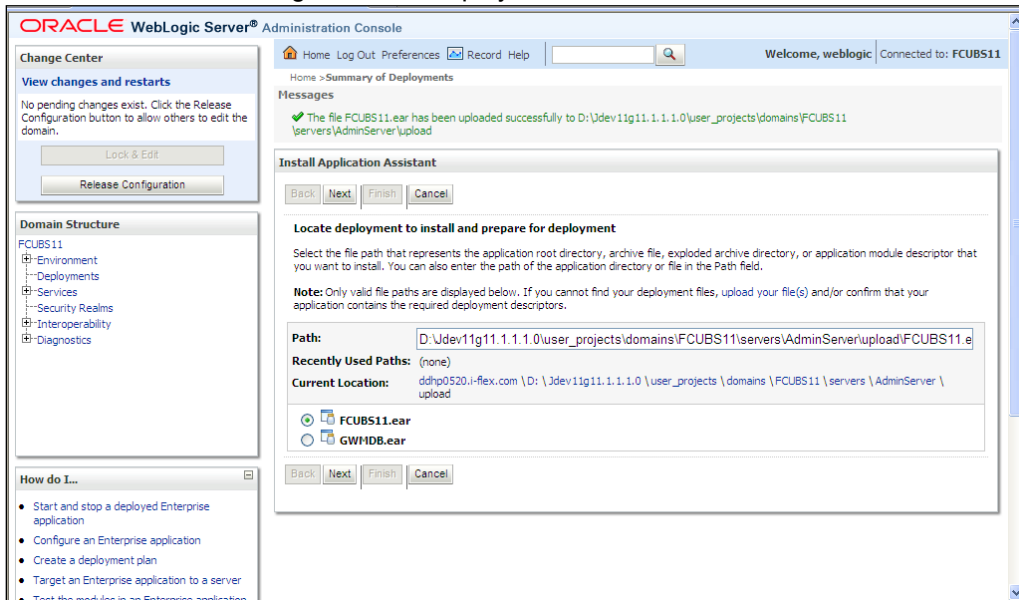


- In order to specify the path/location of the enterprise archive file, click the link 'upload your file(s)'.
- Click 'Next'. The following screen is displayed:



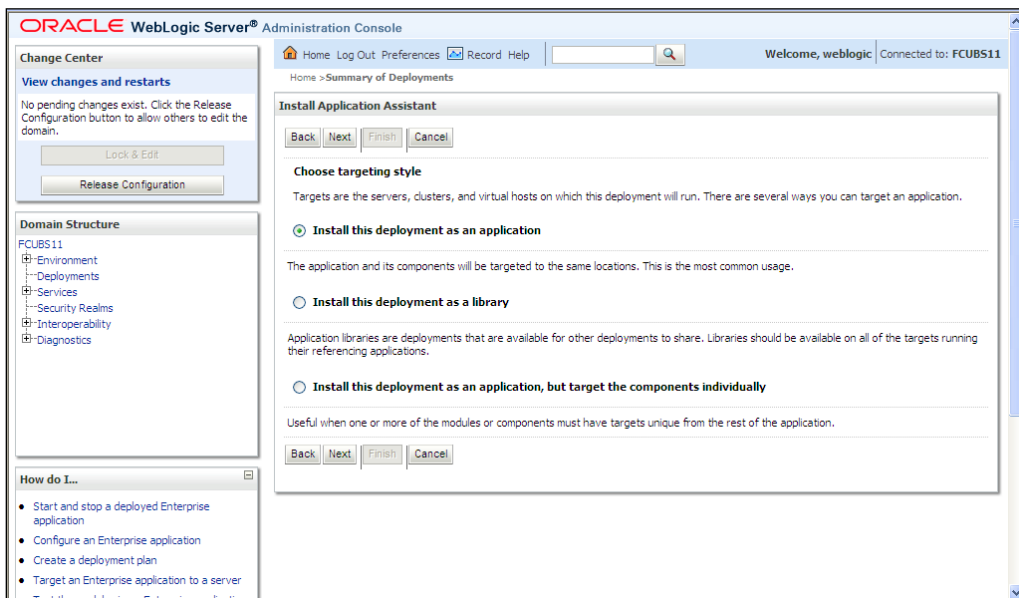
- Specify the EAR file path. You can use the 'Browse' button to locate the file.

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



9. Select the application FCUBS EAR from the list.

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

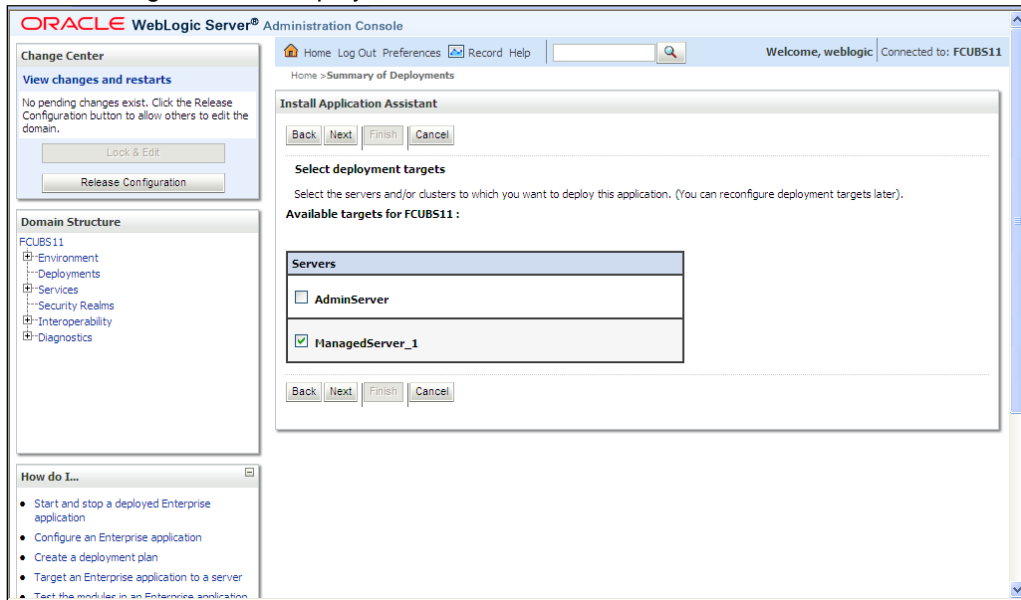


11. Choose the targeting style 'Install this deployment as an application'.

12. Click 'Next'.

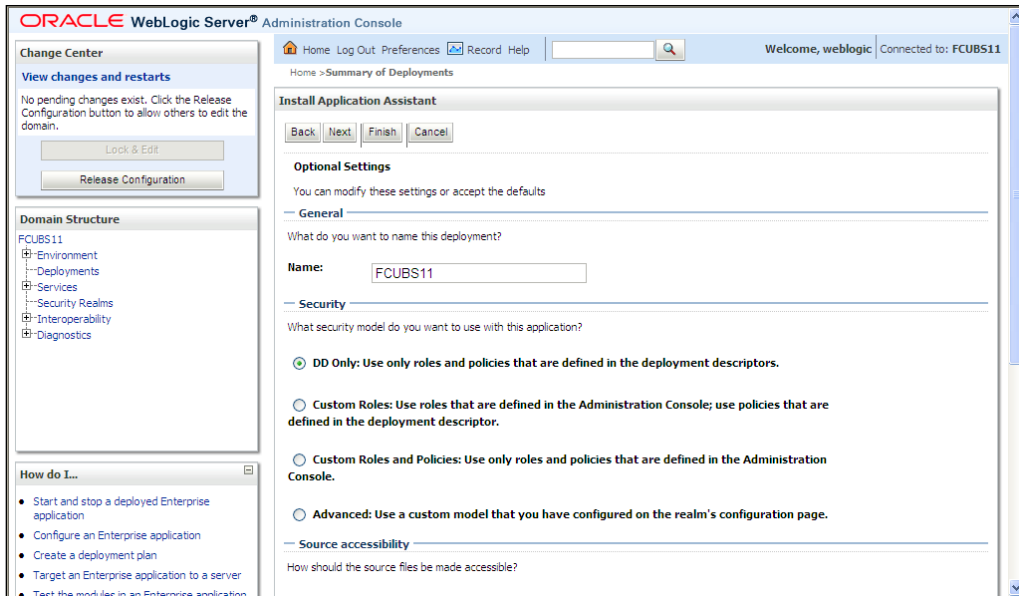


The following screen is displayed



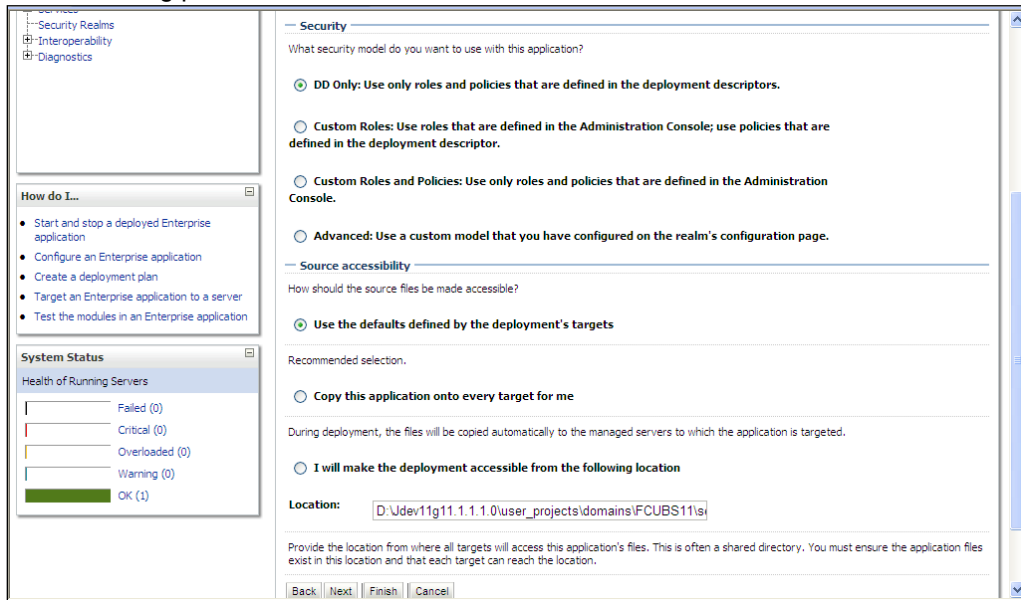
13. Select the target of the application. You can choose the server 'AdminServer' or 'Managed Server(s)'.

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



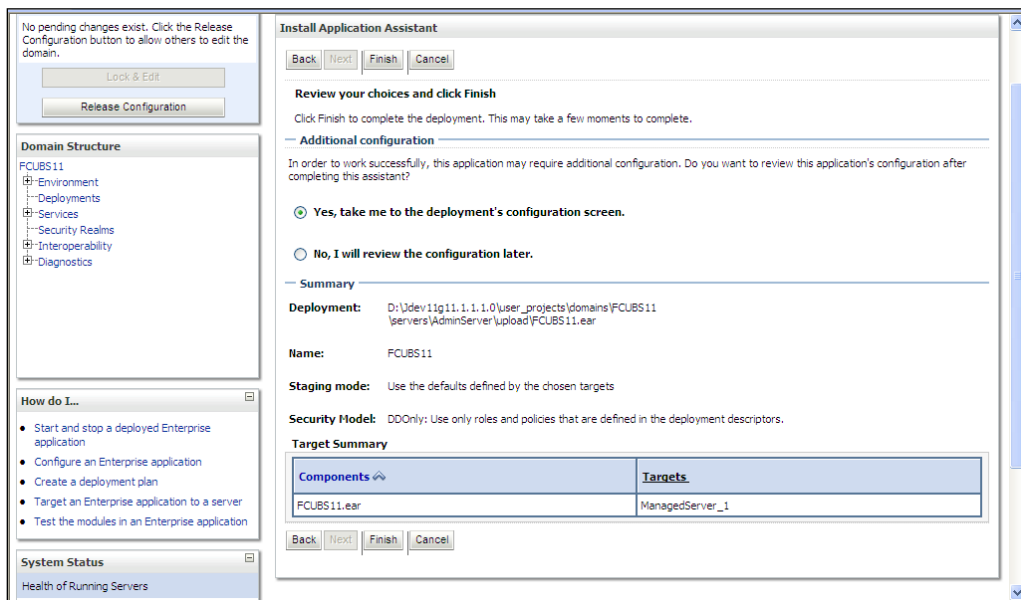
15. Check the deployment name.

The remaining portion of the screen is shown below:



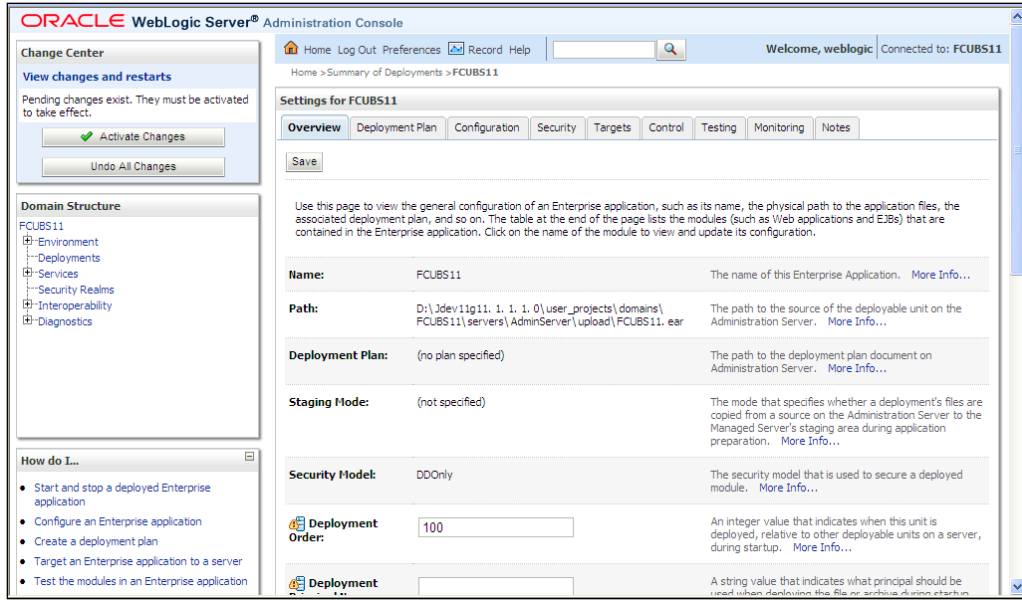
16. Check whether the deployment location is accessible or not.

The following screen is displayed.

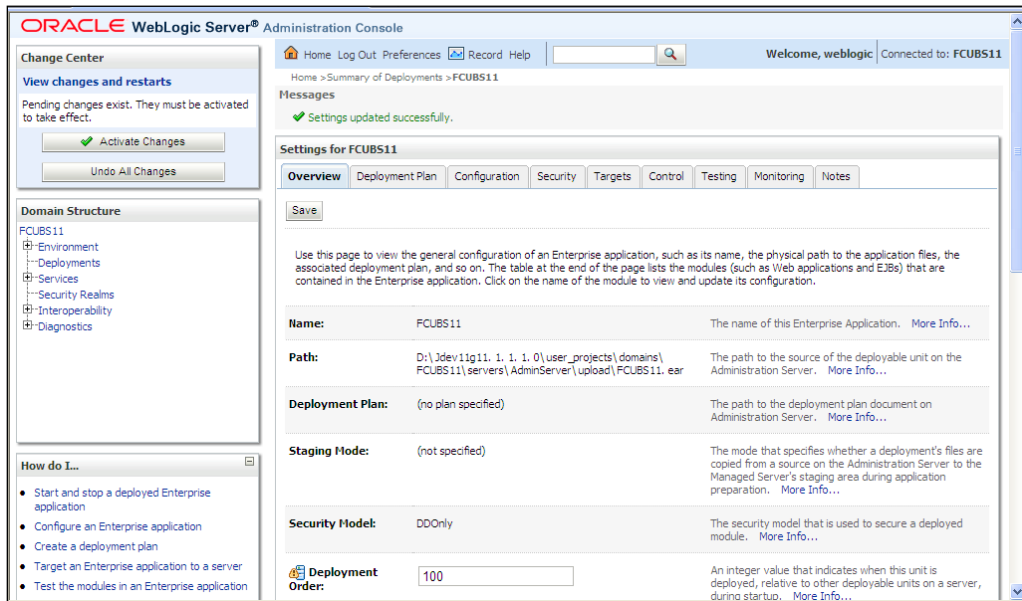


17. Click 'Finish' button. The following screen is displayed.

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

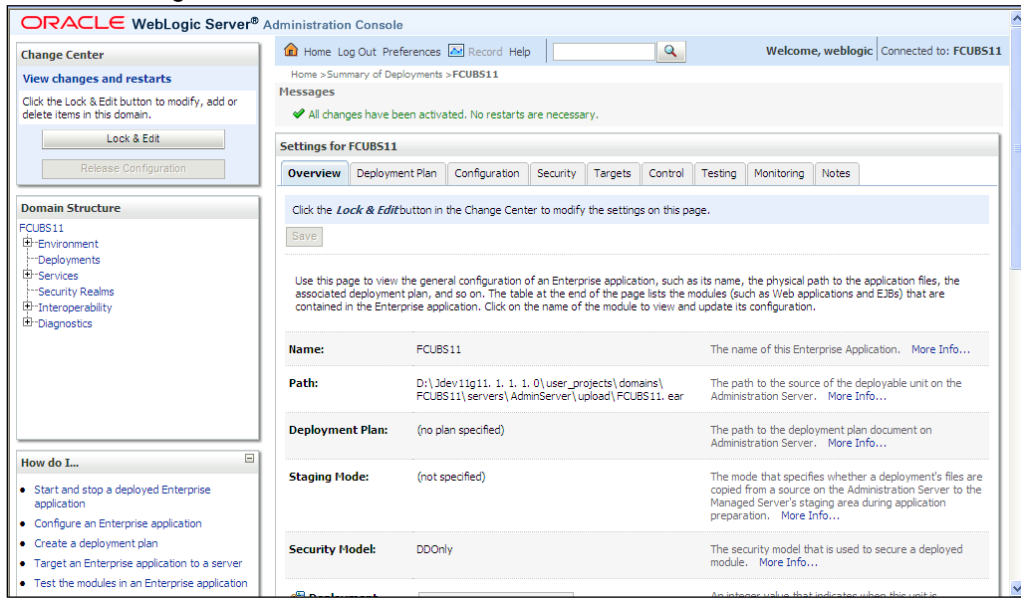


18. Click 'Save' button. The message 'Settings updated successfully' is displayed.

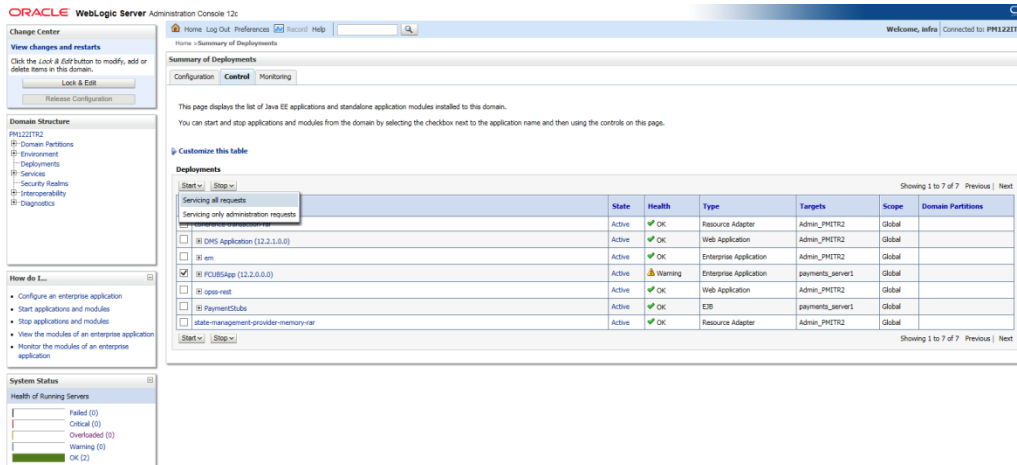


19. Click 'Activate Changes' button on the left pane. The message 'All the changes have been activated. No restarts are necessary' is displayed.

The screen is given below:

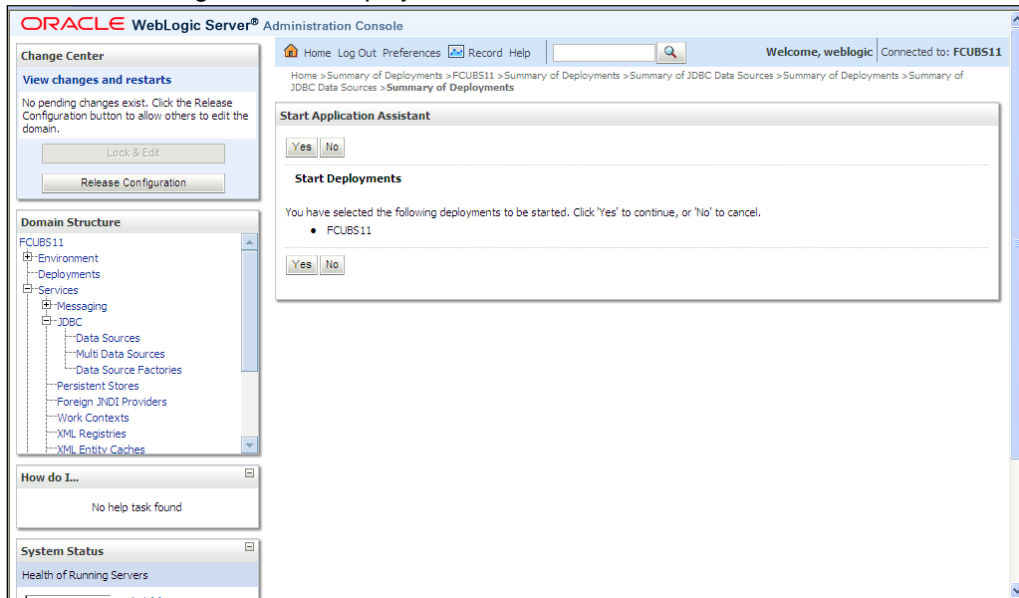


Click 'Deployment' on the left pane. Switch to Control tab. The following screen is displayed.

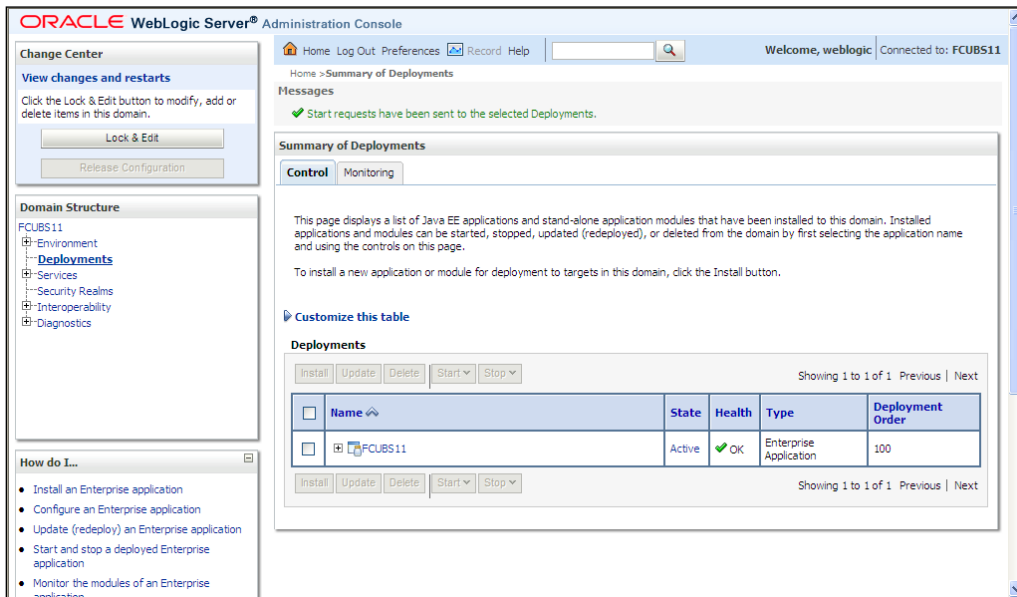


20. Click 'Start' drop-down button and select 'Servicing all requests'.

The following screen is displayed.



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



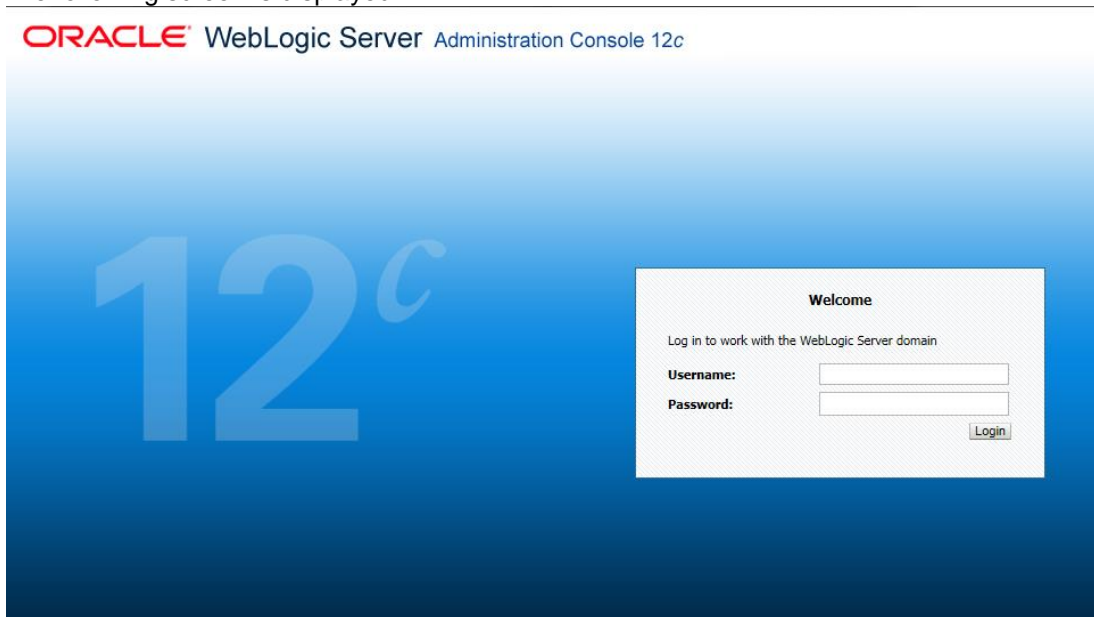
This completes the deployment process.

### 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.

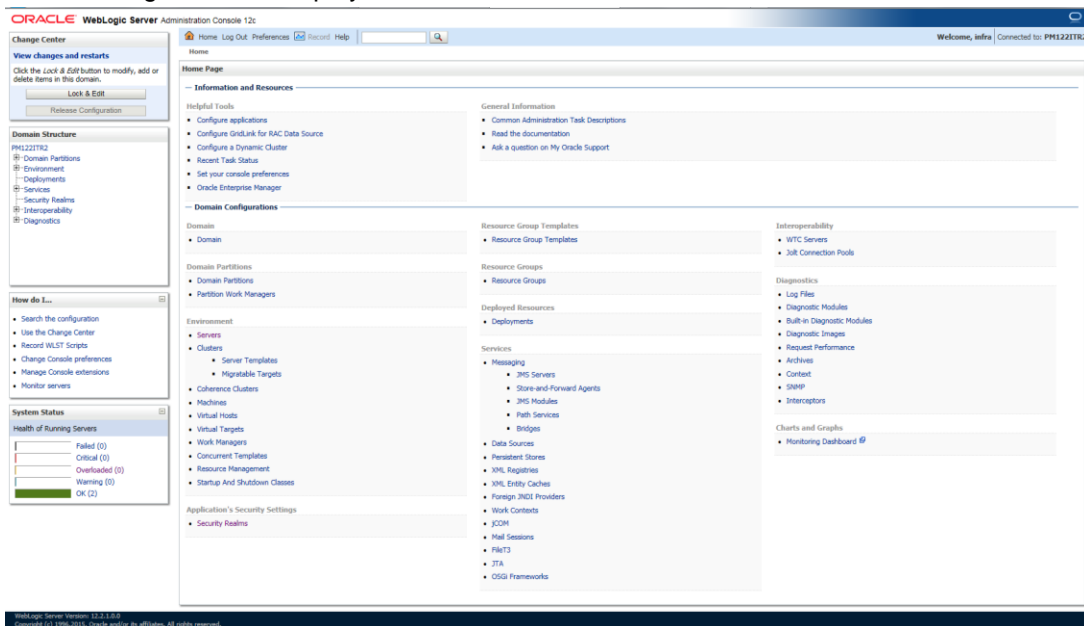
1. Launch Administrative Console of WebLogic application server. You can launch this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser.  
Eg: <http://10.10.10.10:1001/console>

22. The following screen is displayed:



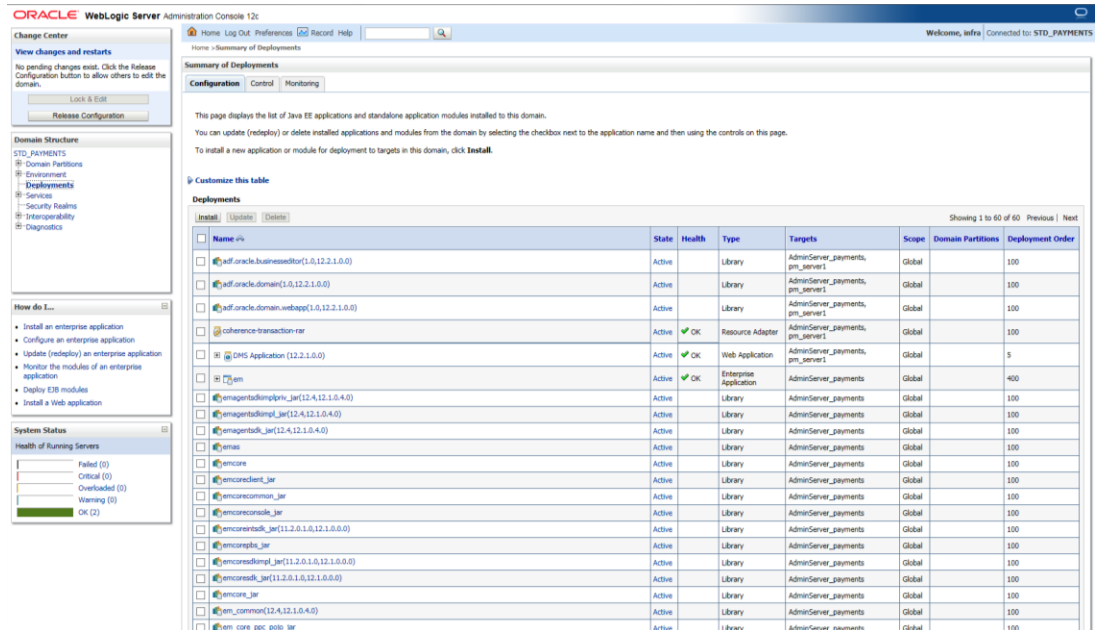
23. Specify the WebLogic administrator user name and password. Click 'Log In'.

The following screen is displayed:

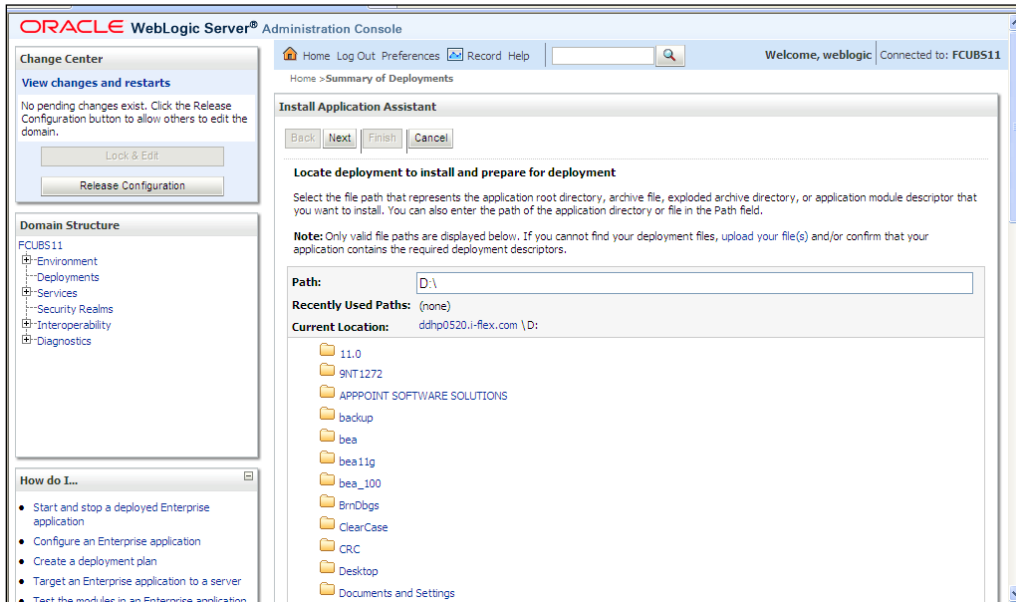


24. You need to deploy an EAR. For e.g. 'GWEJB.ear'. Go to 'Deployment'.

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

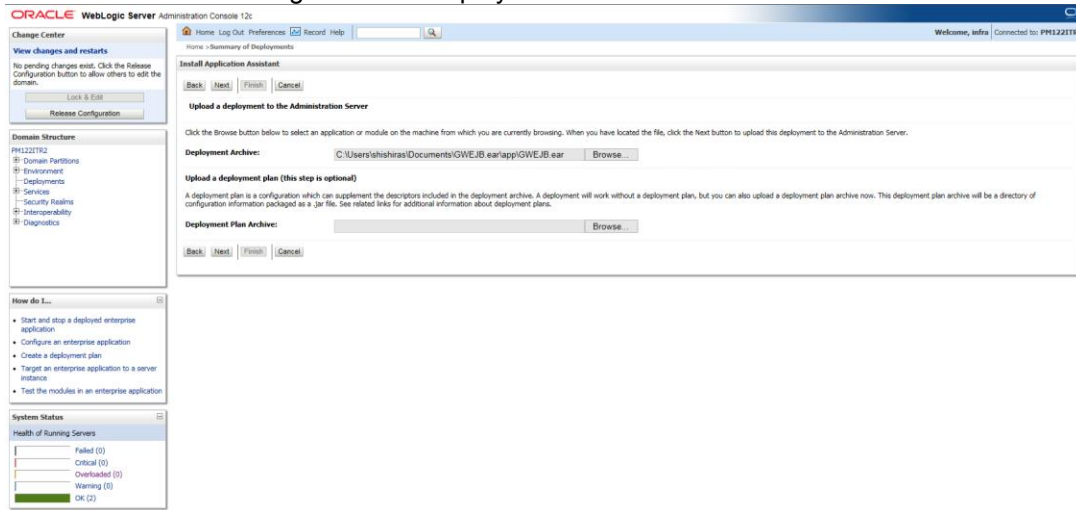


25. Click 'Install' button. The following screen is displayed:



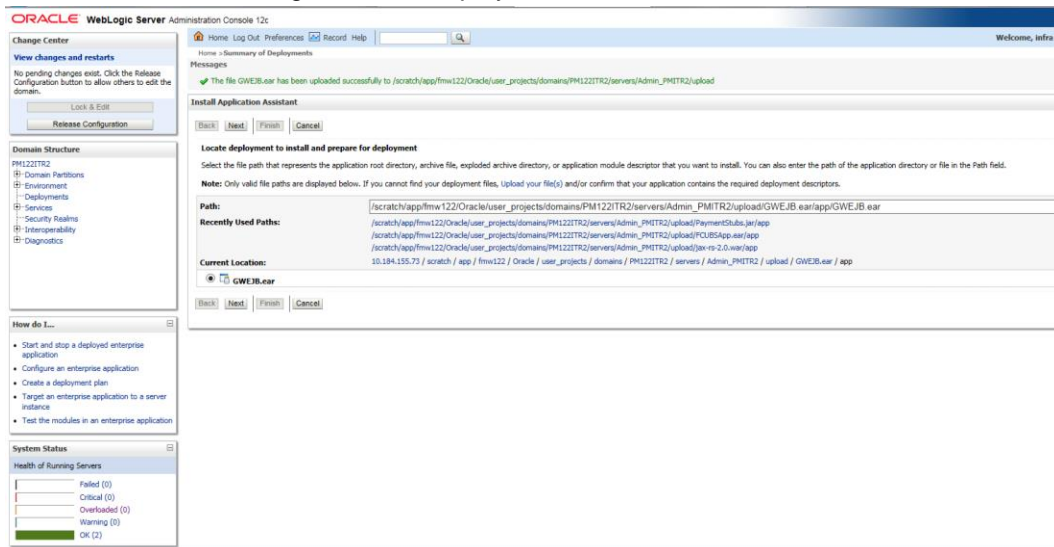
26. In order to specify the path/location of the enterprise archive file, click the link 'upload your file(s)'.

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



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

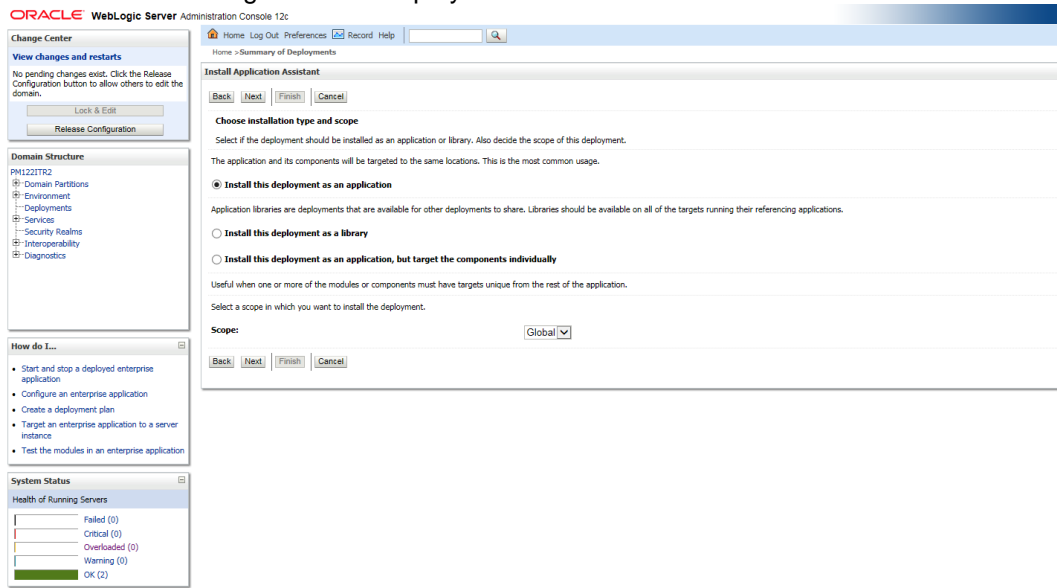
29. Click 'Next'. The following screen is displayed.



30. Select the application from the list.



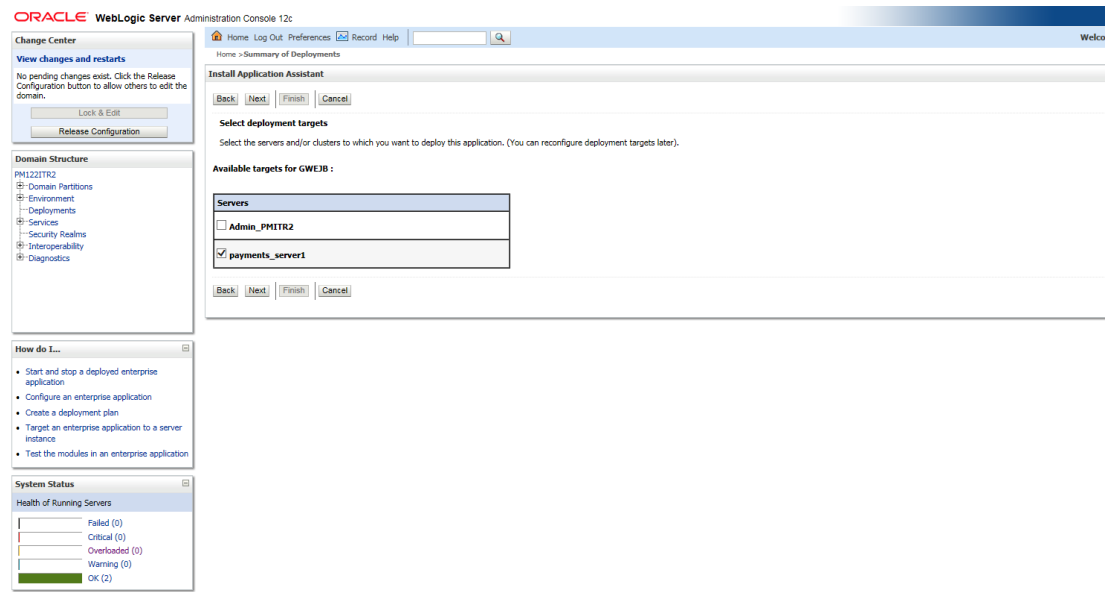
31. Click 'Next'. Following screen is displayed:



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

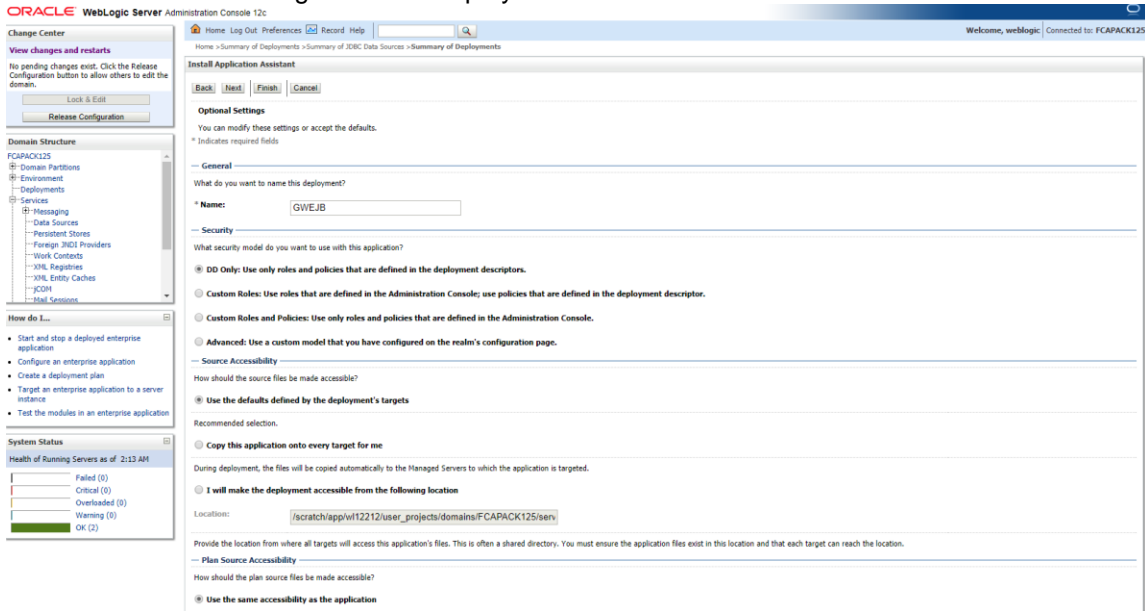
33. Click 'Next'.

The following screen is displayed



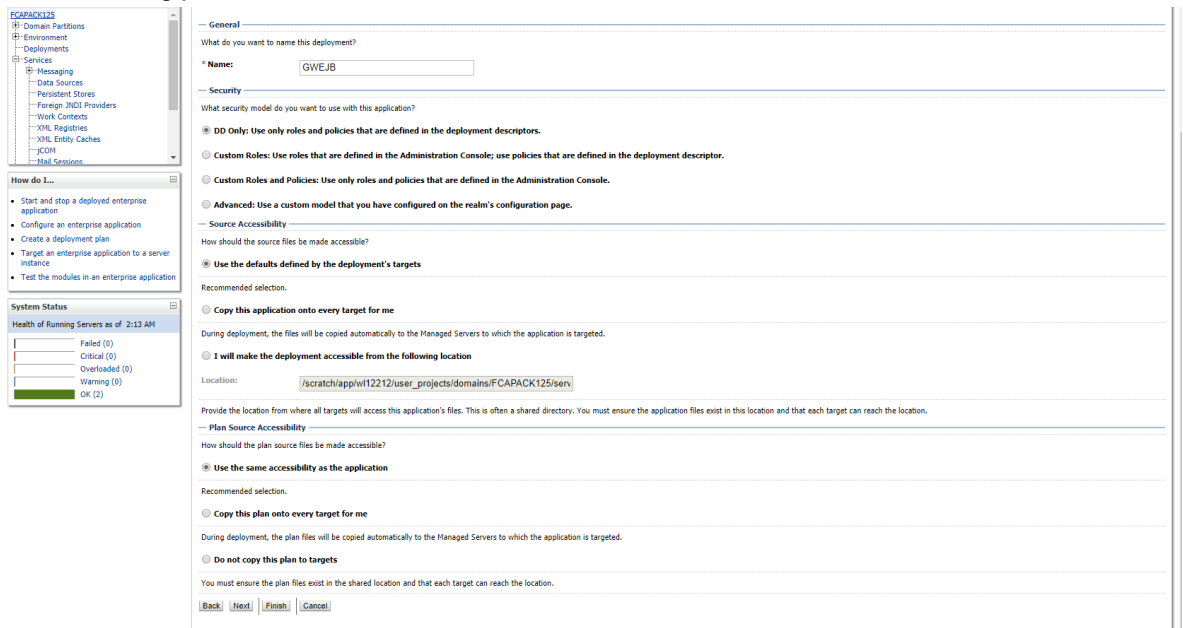
34. Select the target of the application. You can choose the server 'AdminServer' or 'Managed Server(s)'.

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 a contained in the enterprise application. Click on the name of the module to view and update its configuration.

<b>Name:</b>	GWEJB	The name of this enterprise application. <a href="#">More Info...</a>
<b>Scope:</b>	Global	Specifies if this enterprise application is accessible within the domain, a partition, or a resource template. <a href="#">More Info...</a>
<b>Archive Version:</b>	12.2.0.0.0	The archive version, specified from the manifest or overridden during deployment. <a href="#">More Info...</a>
<b>Path:</b>	/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. <a href="#">More Info...</a>
<b>Deployment Plan:</b>	(no plan specified)	The path to the deployment plan document on the Administration Server. <a href="#">More Info...</a>
<b>Staging Mode:</b>	(not specified)	Specifies whether a deployment's files are copied from a source on the Administration Server's staging area during application preparation. <a href="#">More Info...</a>
<b>Plan Staging Mode:</b>	(not specified)	Specifies whether an application's deployment plan is copied from a source on the Administration Server's staging area during application preparation. <a href="#">More Info...</a>
<b>Security Model:</b>	DDOnly	The security model that is used to secure a deployed module. <a href="#">More Info...</a>
<b>Deployment Order:</b>	100	An integer value that indicates when this unit is deployed, relative to other deployable units during startup. <a href="#">More Info...</a>
<b>Deployment Principal Name:</b>		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. <a href="#">More Info...</a>

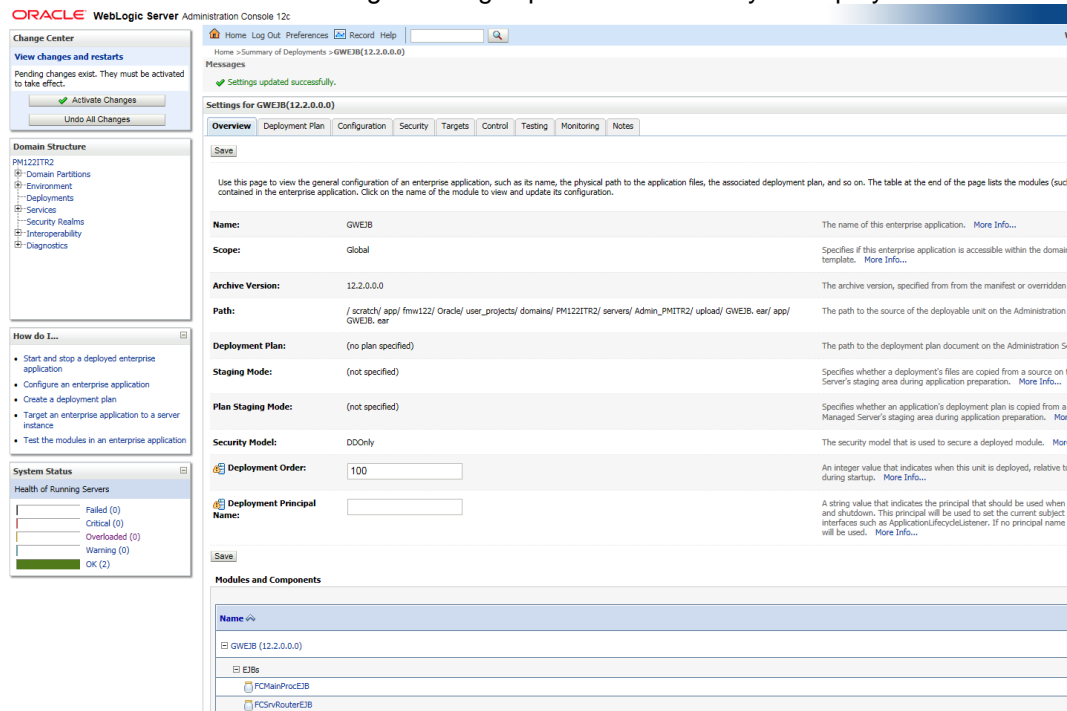
Save

**Modules and Components**

Showing 1 to 1 of 1

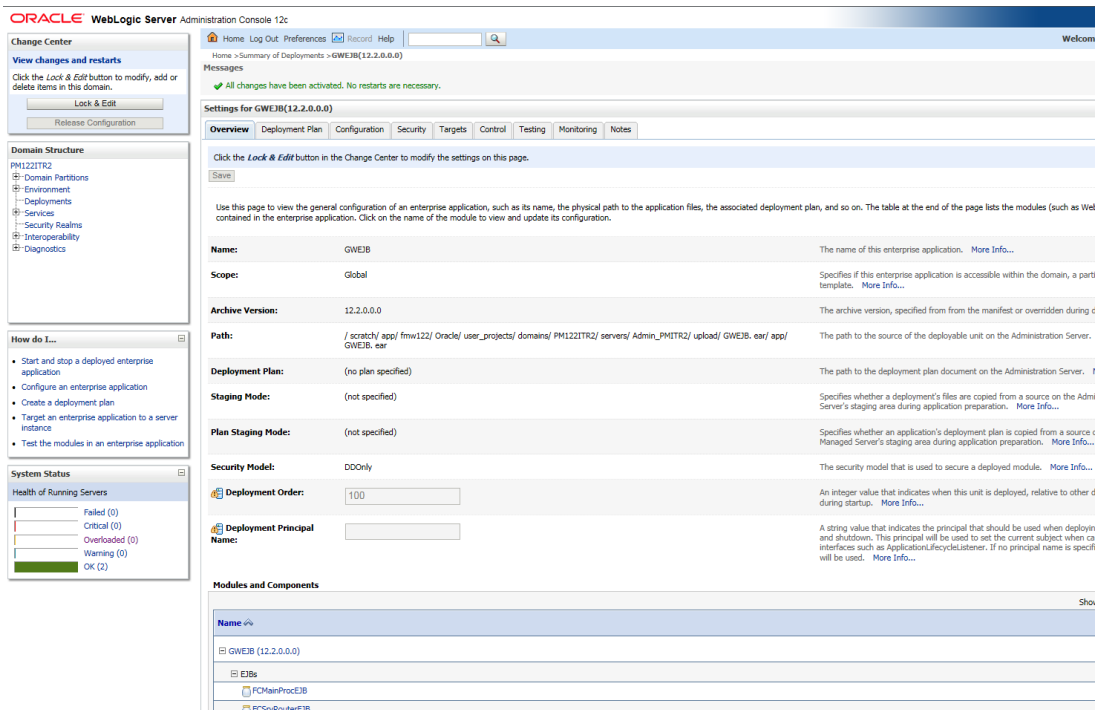
Name
GWEJB (12.2.0.0.0)
Etlb
PCMainProcEJB
PCSRvRouterEJB
GWEJB

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	

Showing 1 to 8 of 8 Prev

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.

- GWEB(12.2.0.0.0)

Yes No

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

ORACLE WebLogic Server Administration Console 12c

Home > Summary of Deployments > GWCR(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-ivar	Active	OK	Resource Adapter	Admin_PMTSR2	Global	
<input type="checkbox"/> OMS Application (12.2.1.0.0)	Active	OK	Web Application	Admin_PMTSR2	Global	
<input type="checkbox"/> em	Active	OK	Enterprise Application	Admin_PMTSR2	Global	
<input type="checkbox"/> FOLBApp (12.2.0.0.0)	Active	Warning	Enterprise Application	payments_server1	Global	
<input type="checkbox"/> GWCR (12.2.0.0.0)	Active	OK	Enterprise Application	payments_server1	Global	
<input type="checkbox"/> opss-rest	Active	OK	Web Application	Admin_PMTSR2	Global	
<input type="checkbox"/> PaymentStubs	Active	OK	EJB	payments_server1	Global	
<input type="checkbox"/> state-management-provider-memory-ivar	Active	OK	Resource Adapter	Admin_PMTSR2	Global	

Showing 1 to 8 of 8 Previous Next

System Status  
 Health of Running Servers  
 Failed (0)  
 Critical (0)  
 Overloaded (0)  
 Warning (0)  
 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



Deploying Oracle FLEXCUBE on WebLogic  
[February] [2018]  
Version 14.0.0.0

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