

# Oracle® Banking Trade Finance

## Deploying Oracle Banking Trade Finance Application on WebLogic



Release 14.7.5.0.0

G15579-01

September 2024

The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

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G15579-01

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# 1

## Deploying Oracle FLEXCUBE on WebLogic

- [Introduction](#)
- [Building Application](#)
- [Deploying Application in Oracle 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.

- [Building Application in Centralized Mode](#)
- [Building Application in Decentralized Mode](#)

#### 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.

- [Deploying Integration Adapter EAR from WebLogic Administration Console](#)  
To deploy Oracle FLEXCUBE Application from Oracle WebLogic administration console, follow the steps given below.
- [Deploying Dependency Library “Jax-RS”](#)  
This library must be installed before deploying FCUBSApp.ear. Follow the below steps
- [Deploying FCUBS Application from WebLogic Administration Console](#)  
To deploy Oracle FLEXCUBE Application from Oracle WebLogic administration console, follow the steps given below.
- [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.

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

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

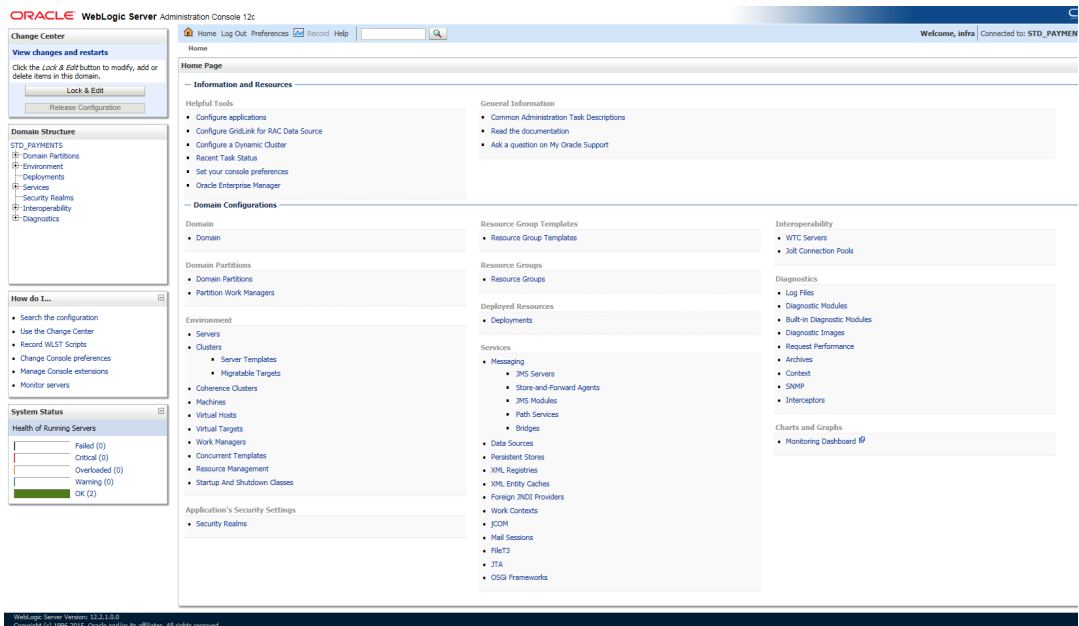
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser.

Example: `http://10.10.10.10:1001/console`

The following screen is displayed:

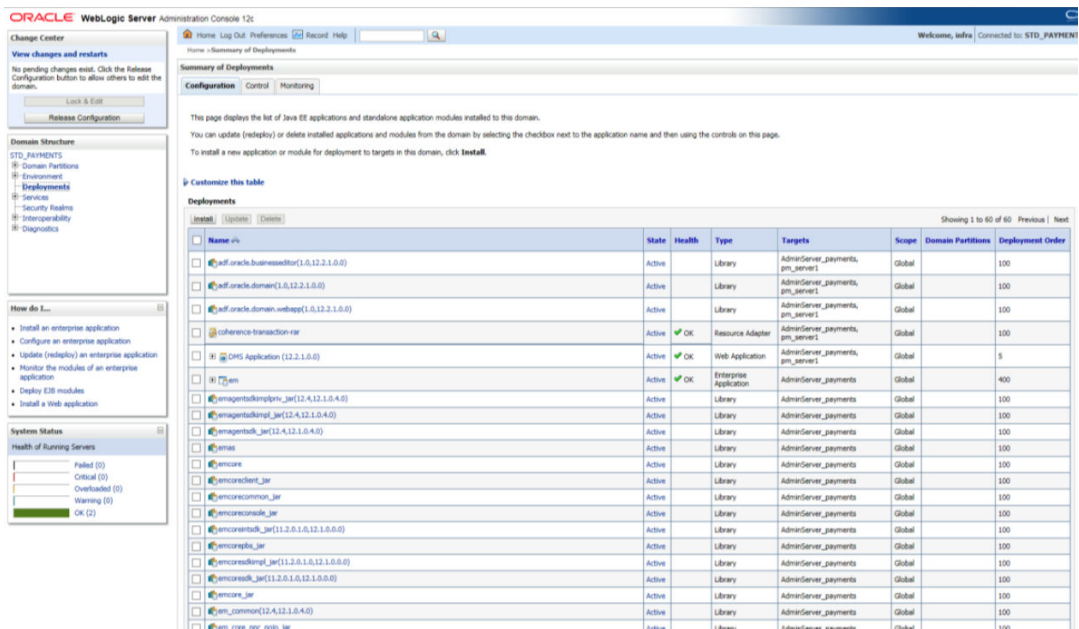


2. Specify the WebLogic administrator user name and password. Click '**Log In**'.

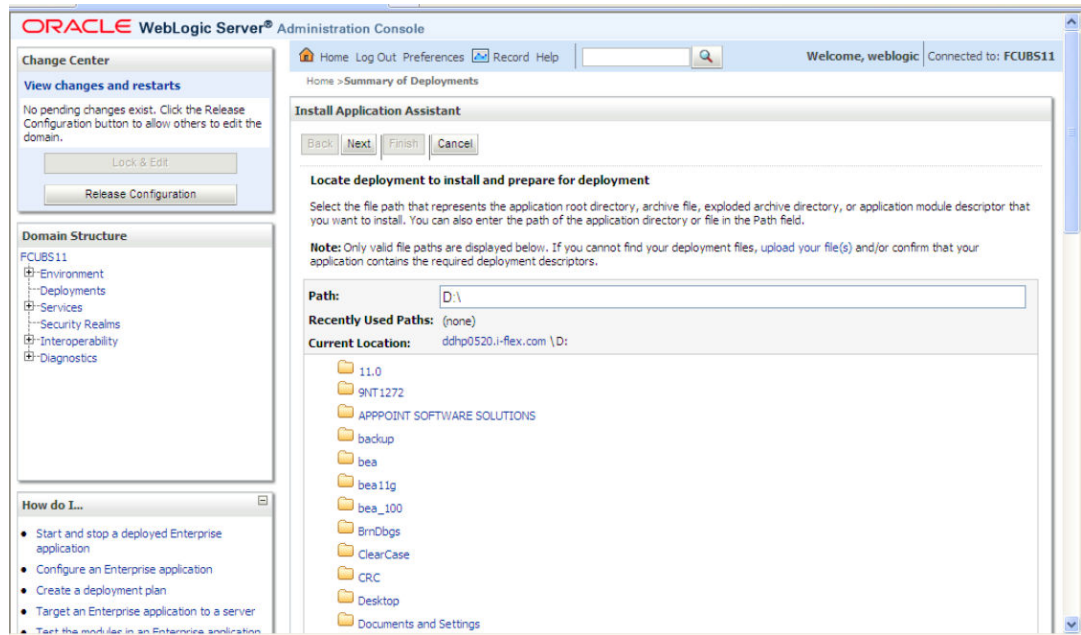


3. You need to deploy an Integration adapter EAR. For example 'OBCLExtAdapter.ear or ExtAdapter.ear'. Go to 'Deployment'.

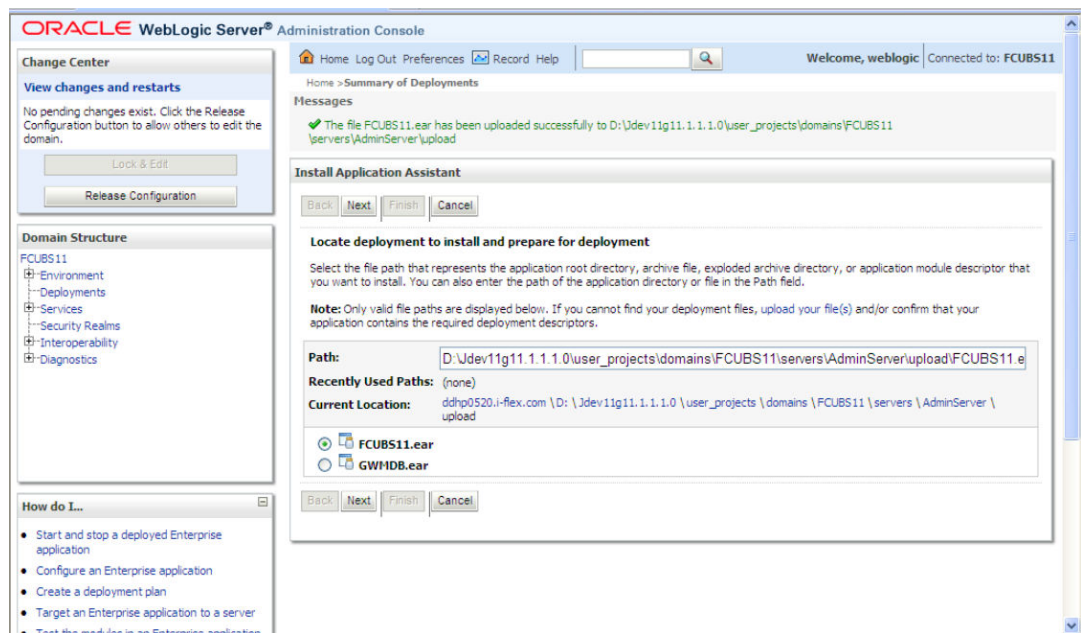
Click 'Lock & Edit' button to enable the buttons. This action enables the buttons.



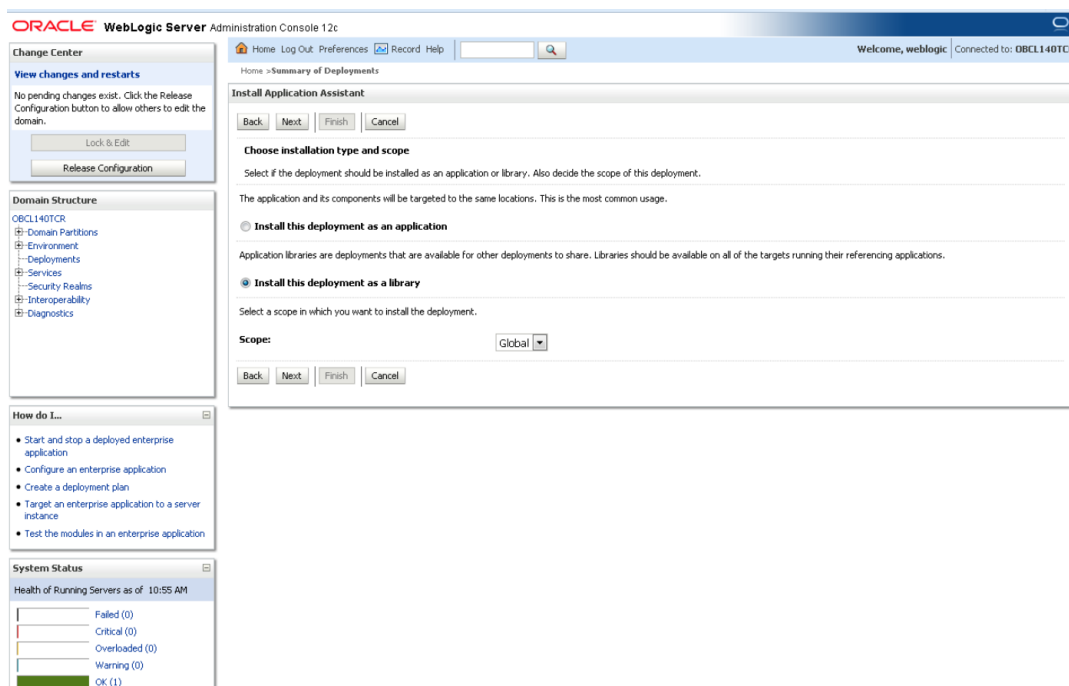
4. Click 'Install' button. The following screen is displayed:



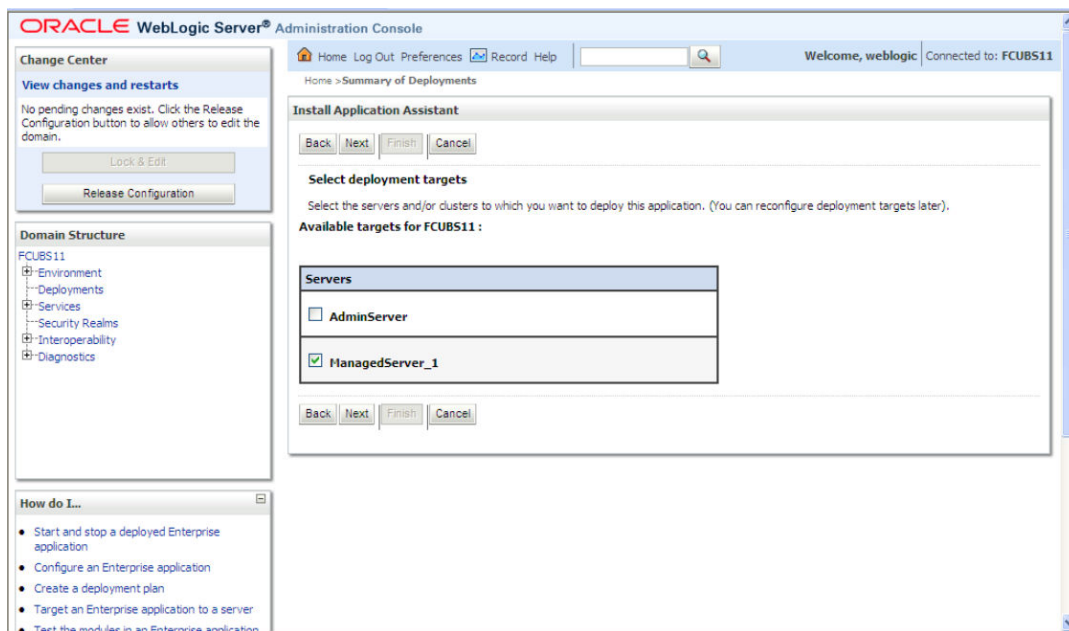
5. In order to specify the path/location of the enterprise archive file, click the link '**upload your file(s)**'.
6. Specify the EAR file path. You can use the '**Browse**' button to locate the file.
7. Click '**Next**'. The following screen is displayed.



8. Select the application Adapter EAR from the list.
9. Click '**Next**'. Following screen is displayed:

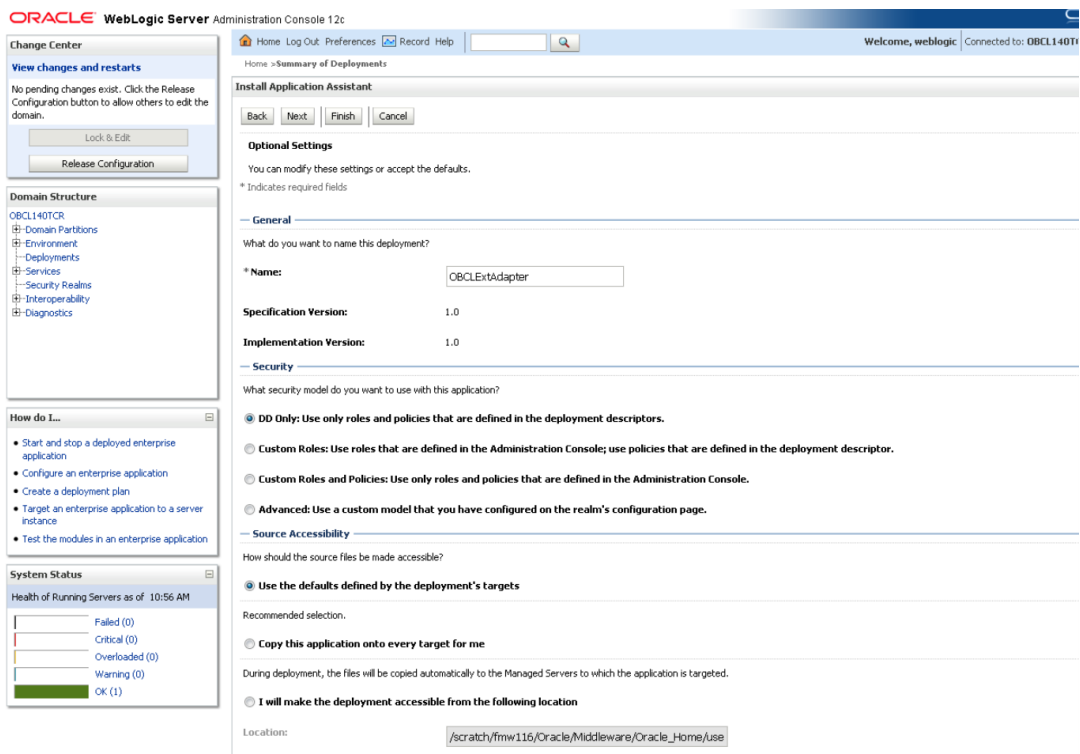


10. Choose the targeting style 'Install this deployment as a library'.
11. Click 'Next'. The following screen is displayed.

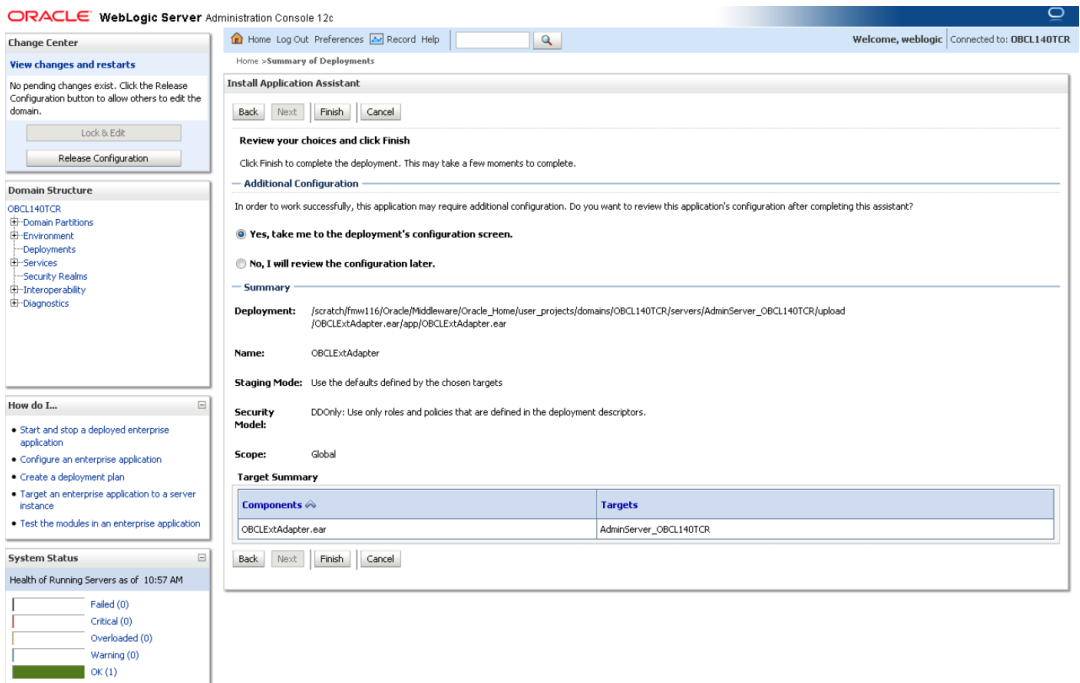


12. Select the target of the application. You can choose the server 'AdminServer' or 'Managed Server(s)'.
13. Click 'Next'. The following screen is displayed.

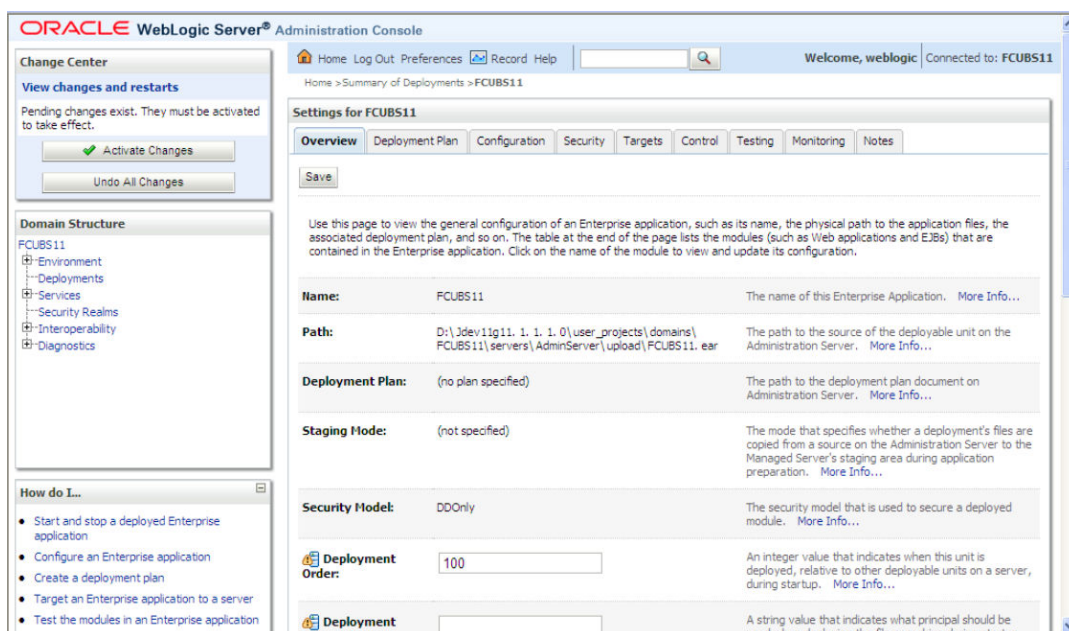




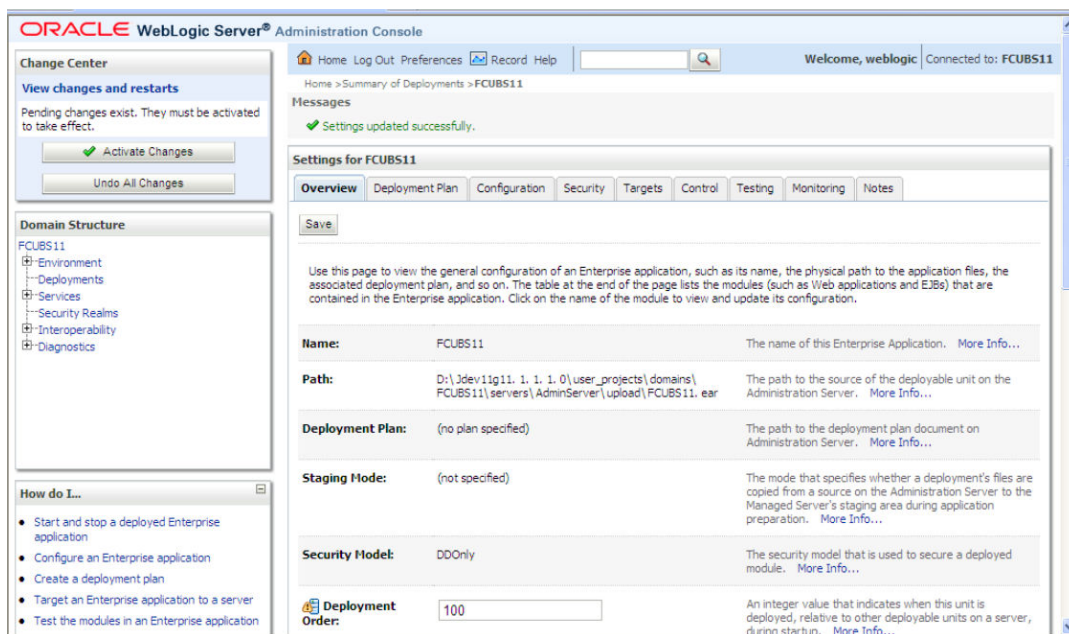
14. Check the deployment name.
15. The remaining portion of the screen is shown below:



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



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



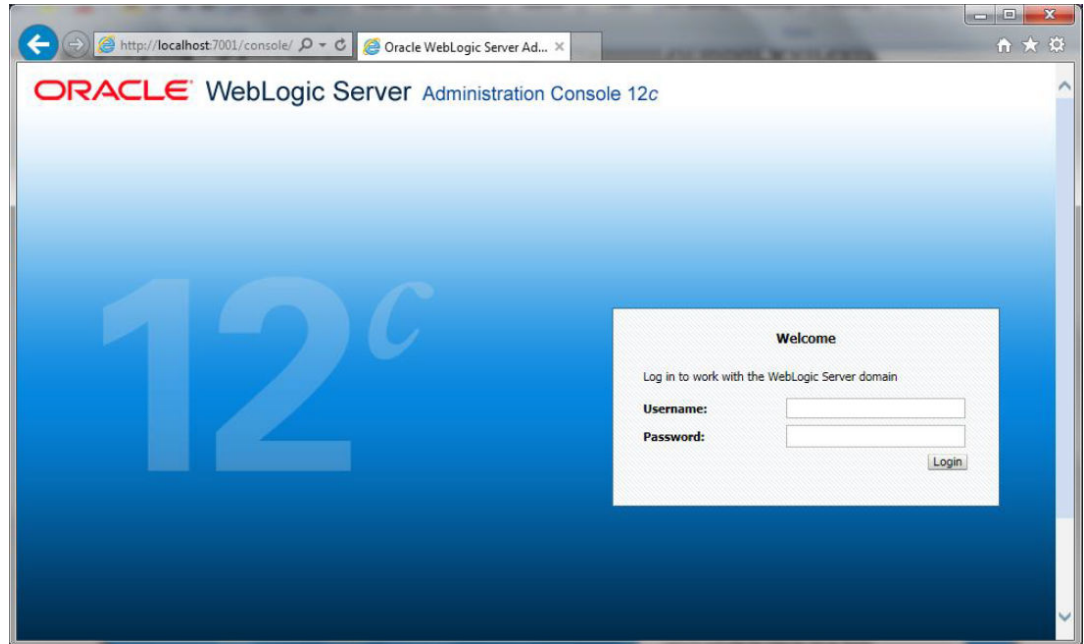
18. Click 'Activate Changes' button on the left pane. The message 'All the changes have been activated. No restarts are necessary' is displayed.

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

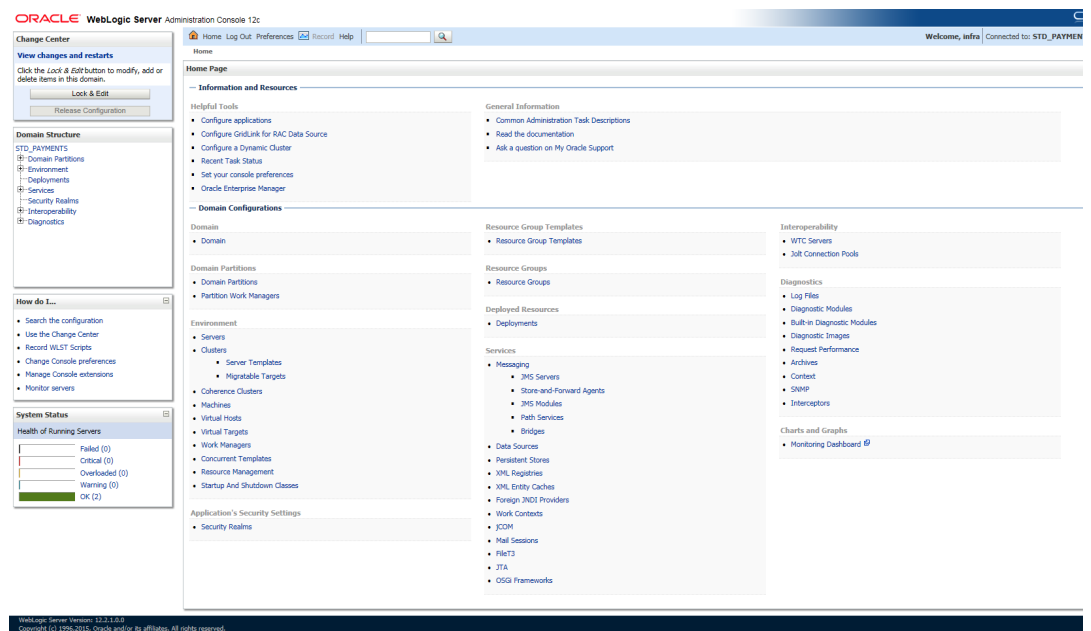
This library must be installed before deploying FCUBSApp.ear. Follow the below steps

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.  
Example: <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:



- Click **Install** button.

**ORACLE WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help

Welcome, infra Connected to: STD\_PAYMENT

Home > 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 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

Name	State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
<-							
oracle.businesseditor(11.0.12.2.1.0.0)	Active		Library	AdminServer_payments, pm_servers	Global		100
oracle.domain(11.0.12.2.1.0.0)	Active		Library	AdminServer_payments, pm_servers	Global		100
oracle.domain.webapp(11.0.12.2.1.0.0)	Active		Library	AdminServer_payments, pm_servers	Global		100
coherence-transaction-war	Active	OK	Resource Adapter	AdminServer_payments, pm_servers	Global		100
DMS Application (12.2.1.0.0)	Active	OK	Web Application	AdminServer_payments, pm_servers	Global		5
em	Active	OK	Enterprise Application	AdminServer_payments	Global		400
emagentstksimpjw(12.4.12.1.0.4.0)	Active		Library	AdminServer_payments	Global		100
emagentstksimpjw(12.4.12.1.0.4.0)	Active		Library	AdminServer_payments	Global		100
emagentstksjw(12.4.12.1.0.4.0)	Active		Library	AdminServer_payments	Global		100
emas	Active		Library	AdminServer_payments	Global		100
emconco	Active		Library	AdminServer_payments	Global		100
emconcoadst_jar	Active		Library	AdminServer_payments	Global		100
emconcocommon_jar	Active		Library	AdminServer_payments	Global		100
emconcoconsole_jar	Active		Library	AdminServer_payments	Global		100
emconcointl_jw(11.2.0.1.0.12.1.0.0.0)	Active		Library	AdminServer_payments	Global		100
emconcointl_jar	Active		Library	AdminServer_payments	Global		100
emconcointl_jw(11.2.0.1.0.12.1.0.0.0)	Active		Library	AdminServer_payments	Global		100
emconcointl_jw(11.2.0.1.0.12.1.0.0.0)	Active		Library	AdminServer_payments	Global		100
emconco_jar	Active		Library	AdminServer_payments	Global		100
emcommon(12.4.12.1.0.4.0)	Active		Library	AdminServer_payments	Global		100
em_core_pos_pos_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**

SOADM3

- Domain Partitions
- Environment
- Deployments
- Services
  - Messaging
  - Data Sources
  - Persistent Stores
  - Foreign JNDI Providers
  - Work Contexts
  - XML Registries
  - XML Entity Caches
  - JCOA
  - 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)

**WebLogic Server Version: 12.2.1.2.0**  
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**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/SOADM3/servers/AdminServer/upload/jax-rs-2.0.war/app/jax-rs-2.0.war

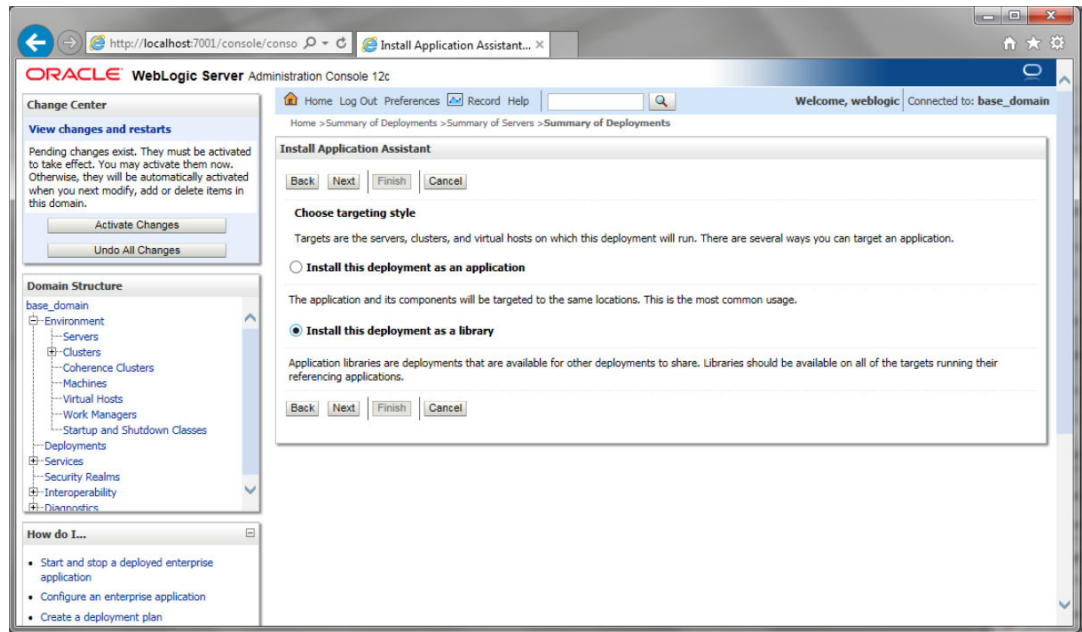
**Recently Used Paths:** /scratch/app/bpm12212/user\_projects/domains/SOADM3/servers/AdminServer/upload/FCLBS\_ear/app

**Current Location:** 10.184.158.197 / scratch / app / bpm12212 / user\_projects / domains / SOADM3 / servers / AdminServer / upload / jax-rs-2.0.war / app

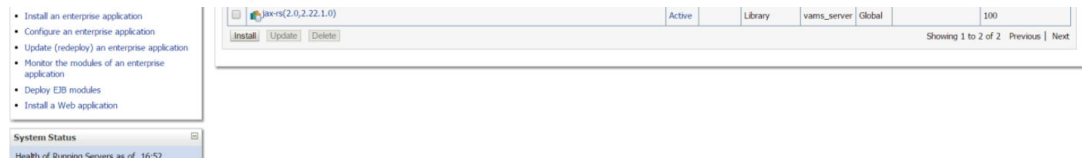
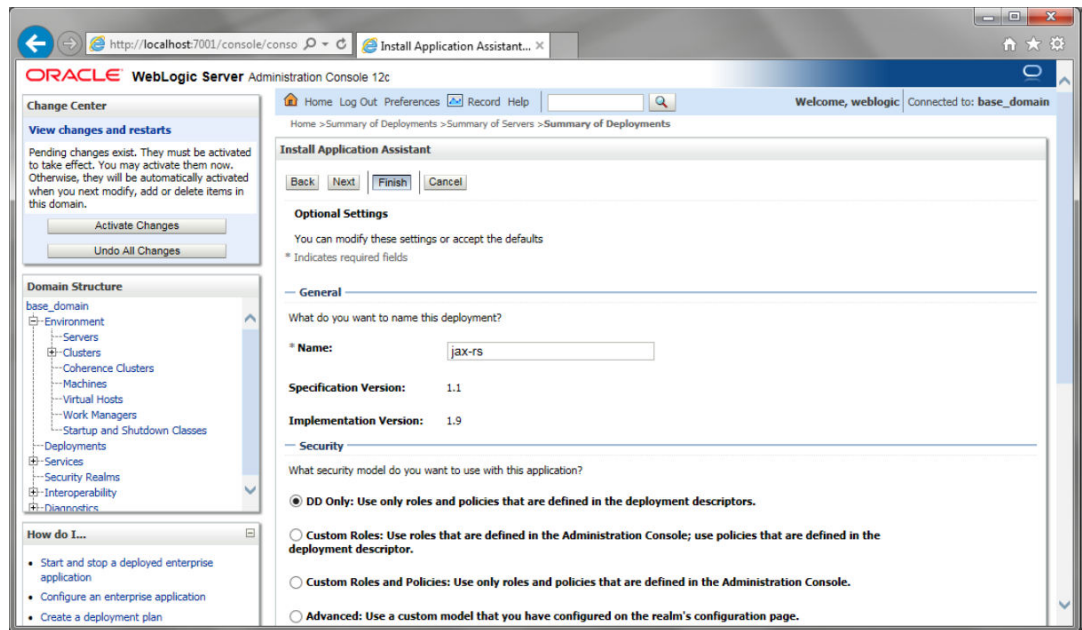
jax-rs-2.0.war

Back Next Finish Cancel

Navigate and select jersey bundle under the path “wlserver\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**.



This library must appear in the deployment with Type column as **'Library'**

 **Note:**

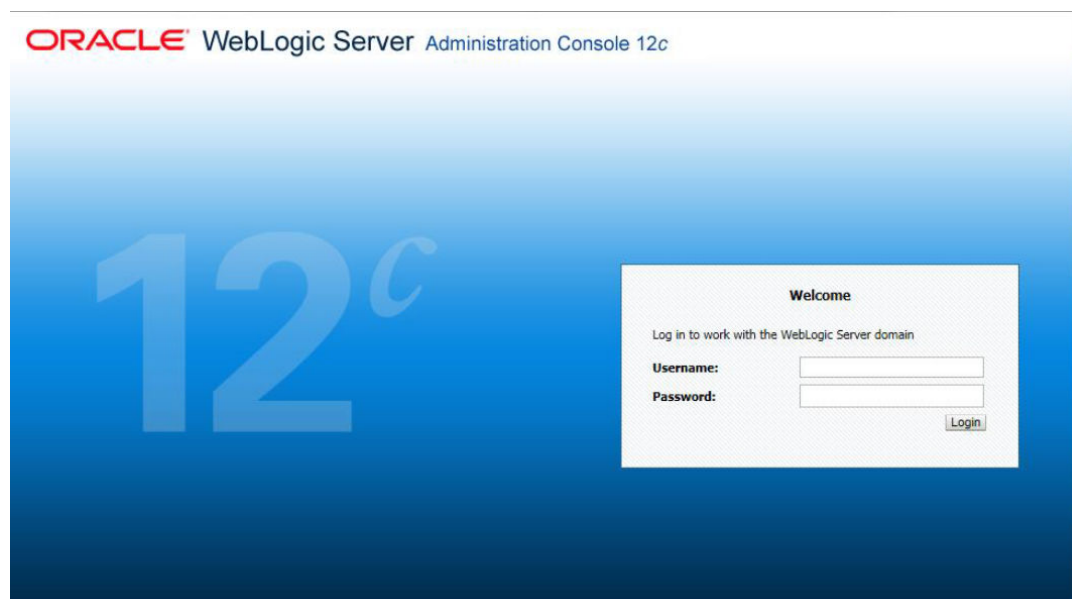
latest Jax-rs version will be jax-rs(2.0,2.22.1.0)

### 1.3.3 Deploying FCUBS Application from WebLogic Administration Console

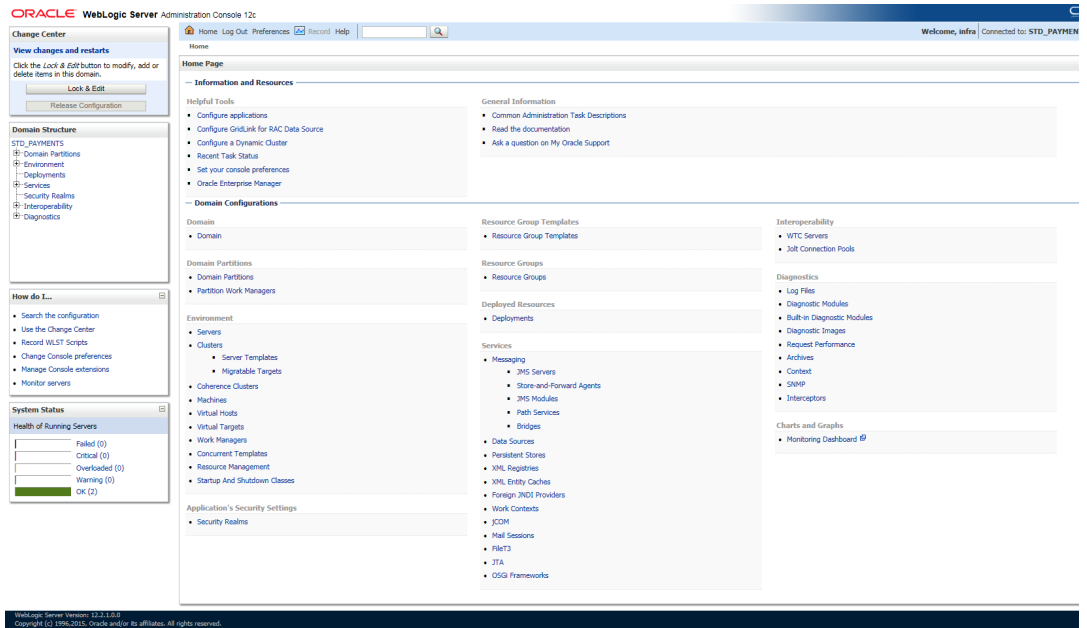
To deploy Oracle FLEXCUBE Application from Oracle WebLogic administration console, follow the steps given below.

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.

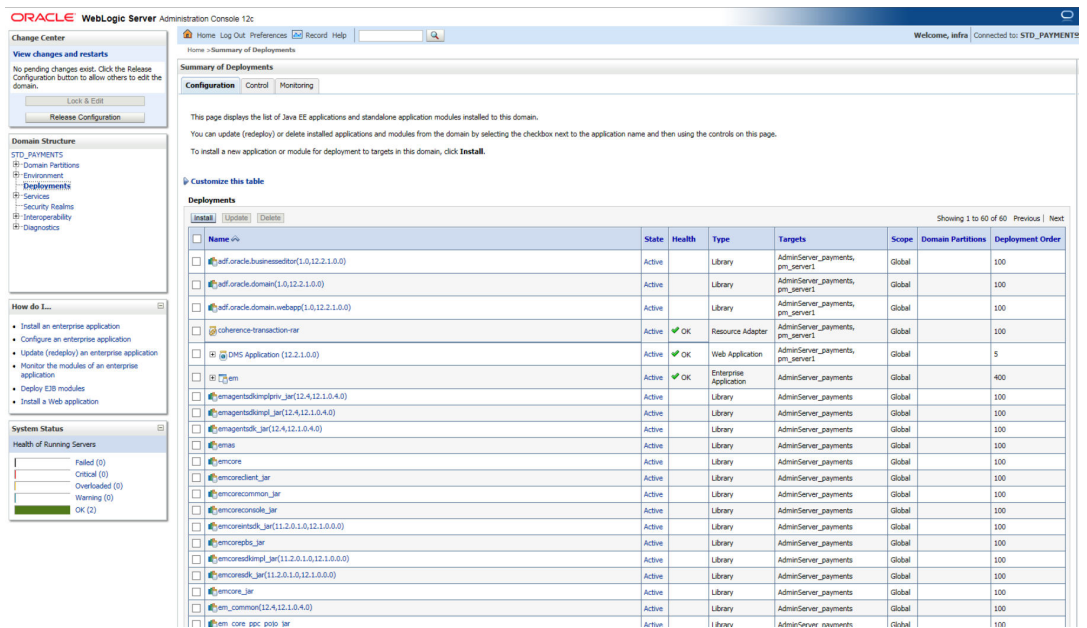
Example: `http://10.10.10.10:1001/console`



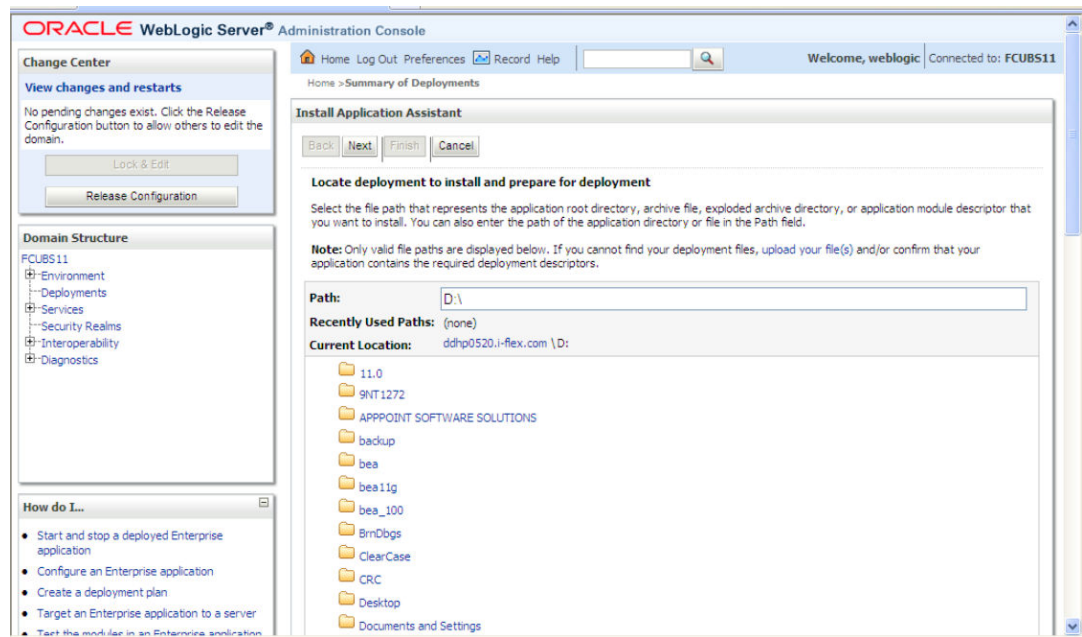
2. Specify the WebLogic administrator user name and password. Click '**Log In**'. The following screen is displayed:



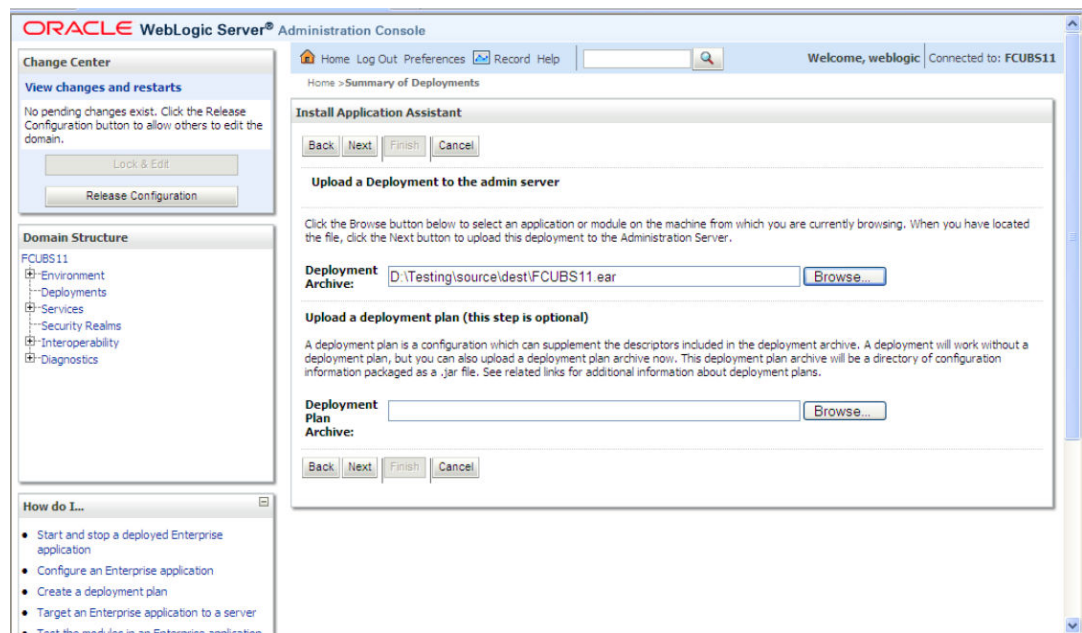
3. You need to deploy an EAR. For example 'FCUBSApp.ear'. Go to 'Deployment'. Click 'Lock & Edit' button to enable the buttons. This action enables the buttons.



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

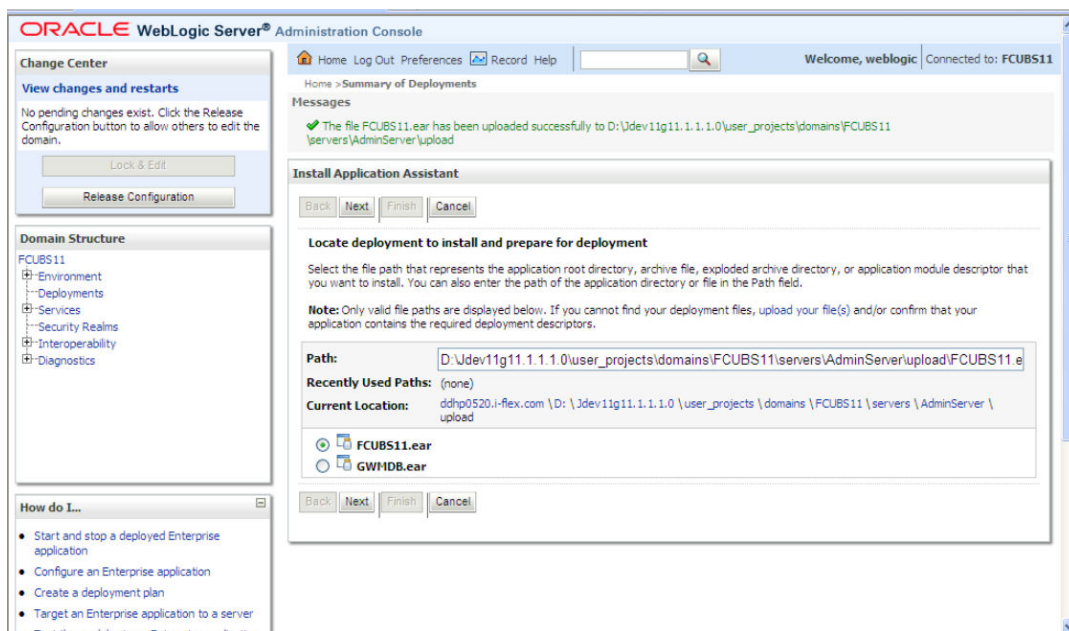


5. In order to specify the path/location of the enterprise archive file, click the link '**Upload your file(s)**'.
6. Click '**Next**'. The following screen is displayed:

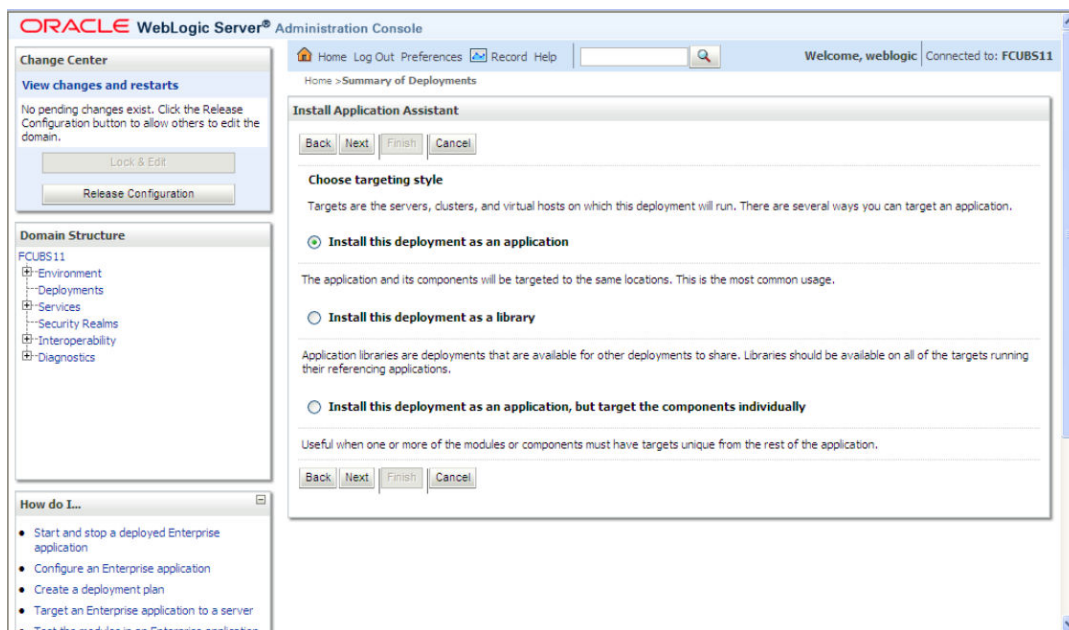


7. Specify the EAR file path. You can use the '**Browse**' button to locate the file.
8. Click '**Next**'. The following screen is displayed.

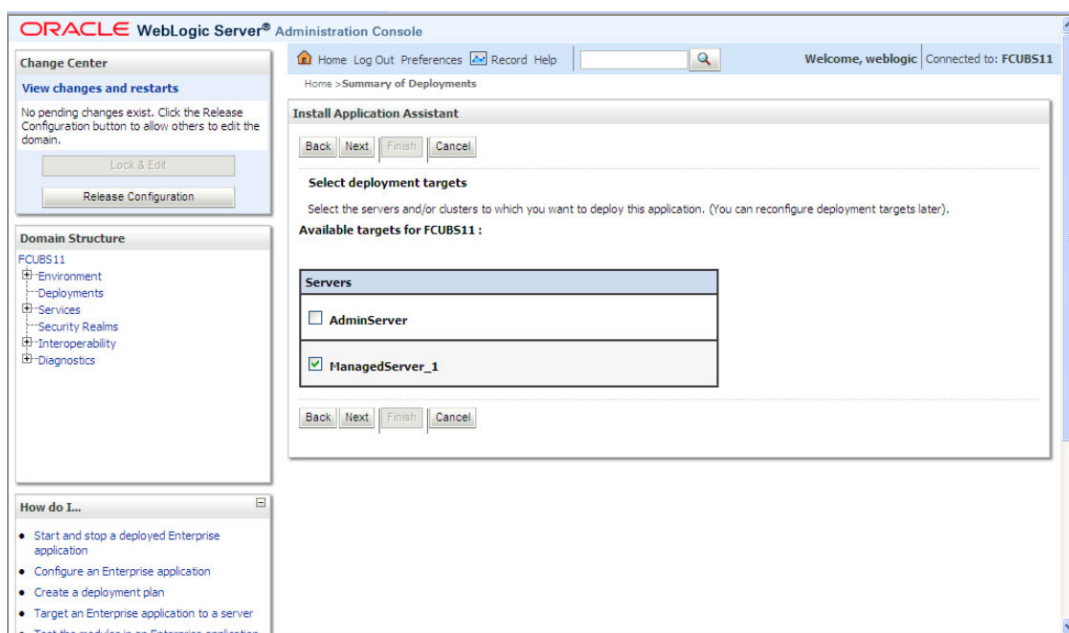




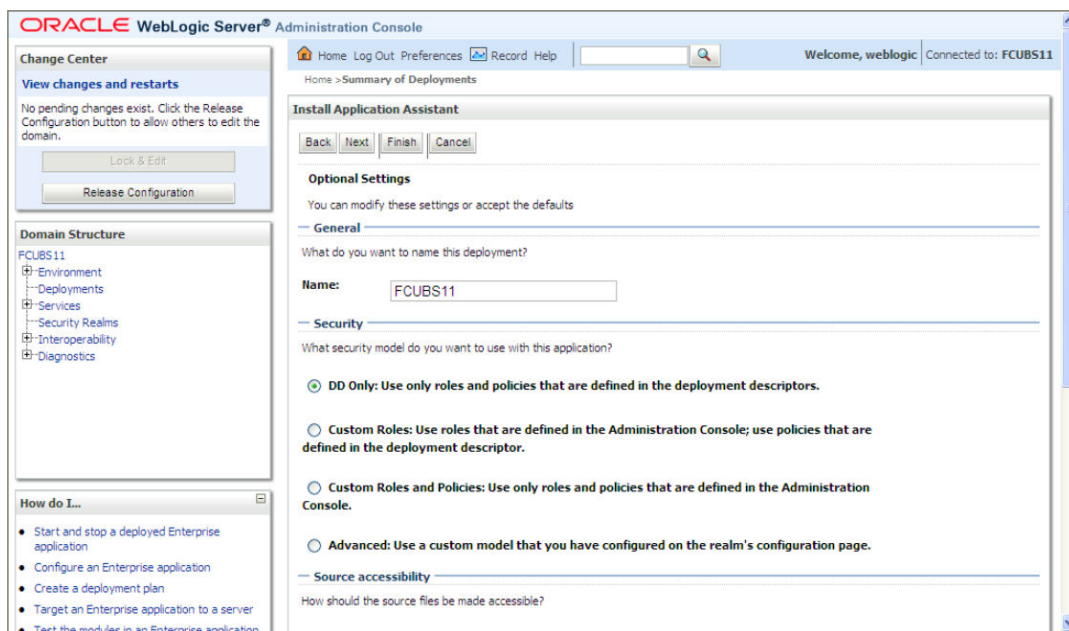
9. Select the application FCUBS EAR from the list.
10. Click 'Next'. Following screen is displayed:



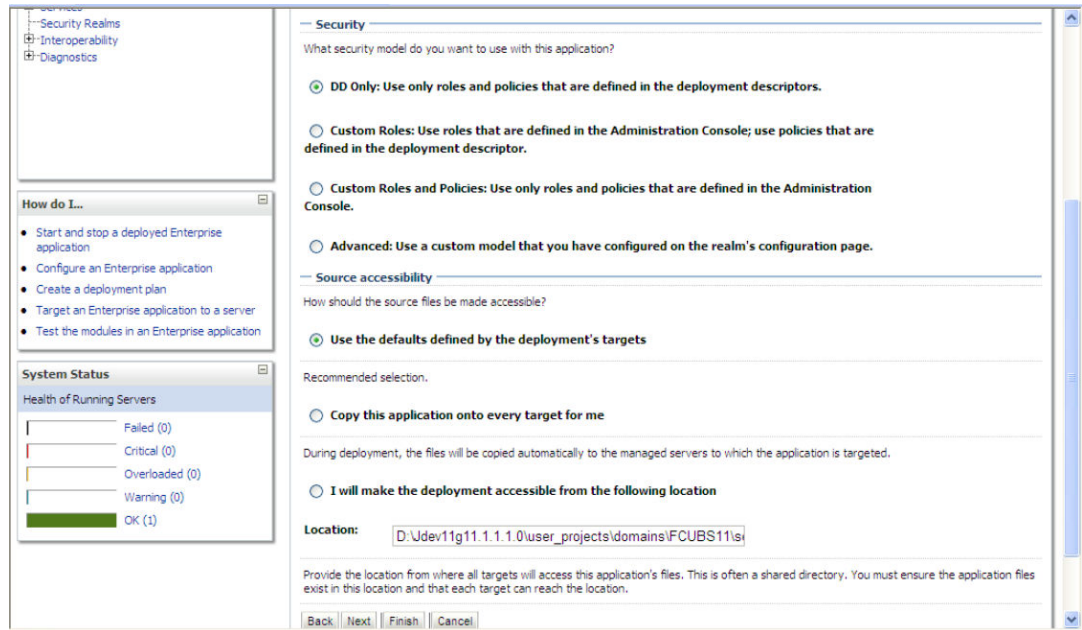
11. Choose the targeting style 'Install this deployment as an application'.
12. Click 'Next'. The following screen is displayed:



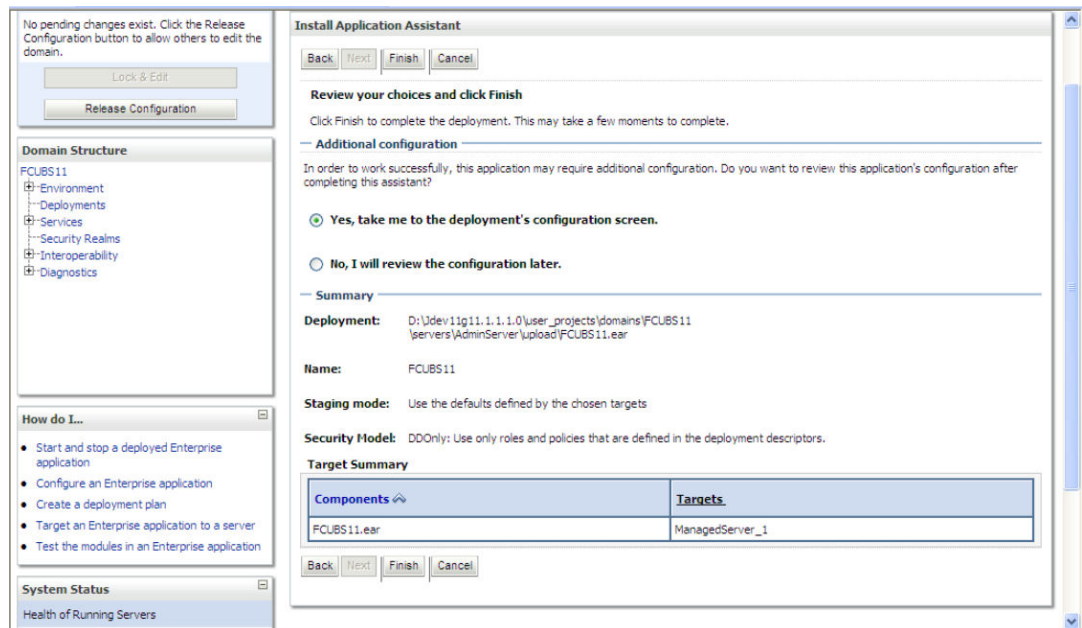
13. Select the target of the application. You can choose the server '**AdminServer**' or '**Managed Server(s)**'.
14. Click '**Next**'. The following screen appears.



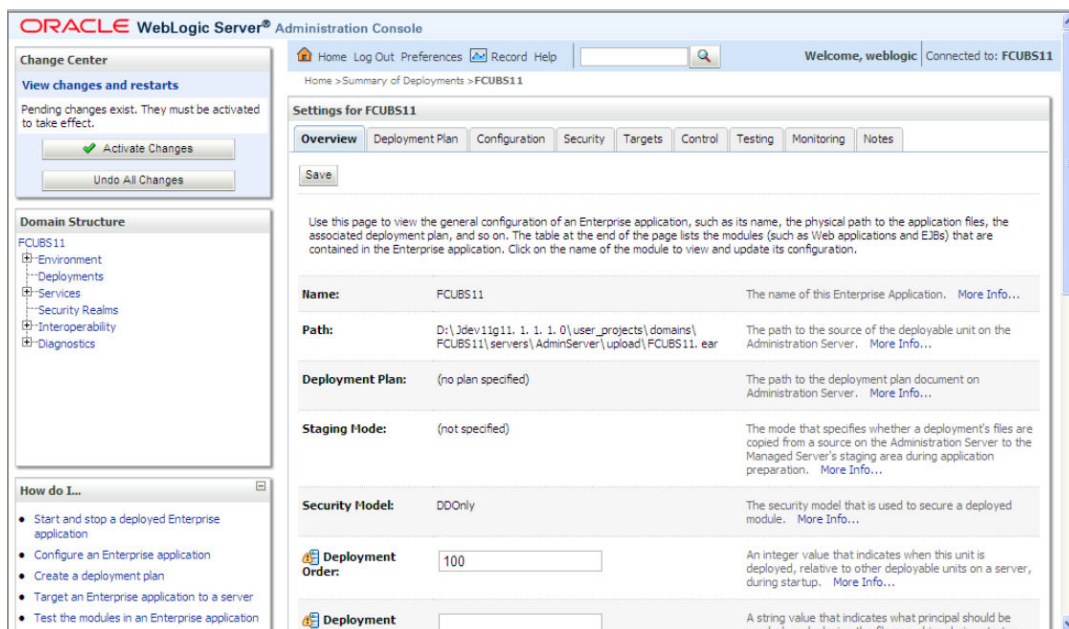
15. Check the deployment name.  
The remaining portion of the screen is shown below:



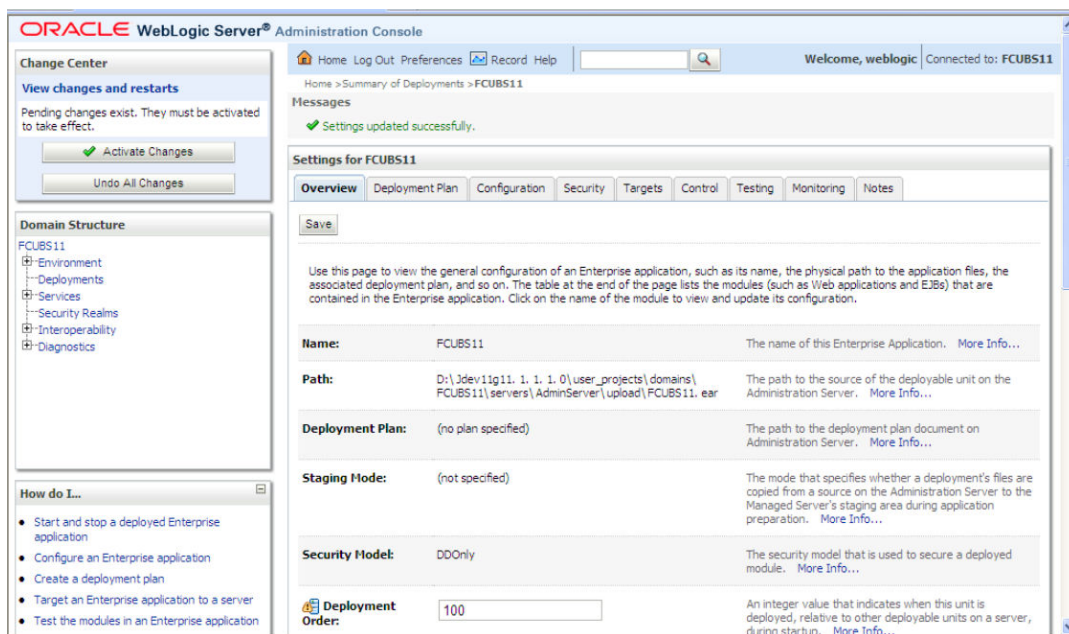
16. Check whether the deployment location is accessible or not.  
The following screen is displayed.



17. Click 'Finish' button. The following screen is displayed.  
Change **Deployment Order** to **400** if the application includes **BPEL plug-in**.

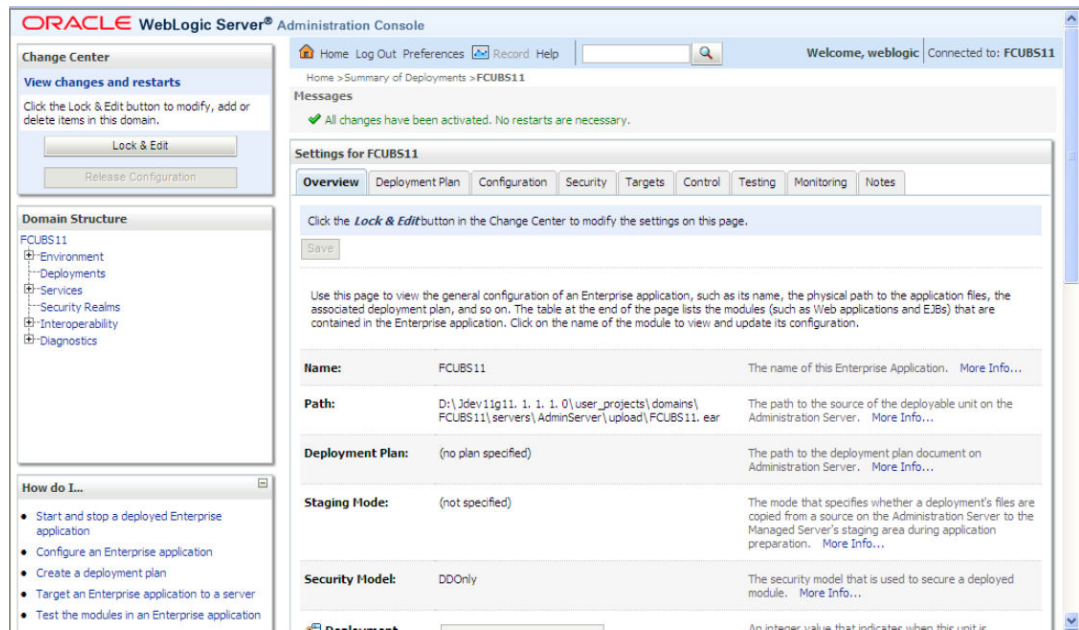


18. Click 'Save' button. The message 'Settings updated successfully' is displayed.

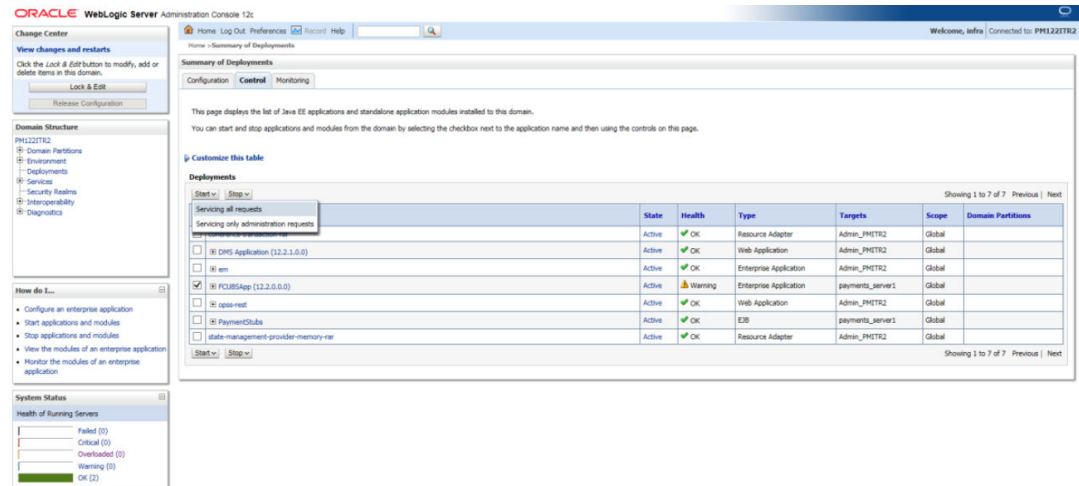


19. Click 'Activate Changes' button on the left pane. The message 'All the changes have been activated. No restarts are necessary' is displayed.

The screen is given below:

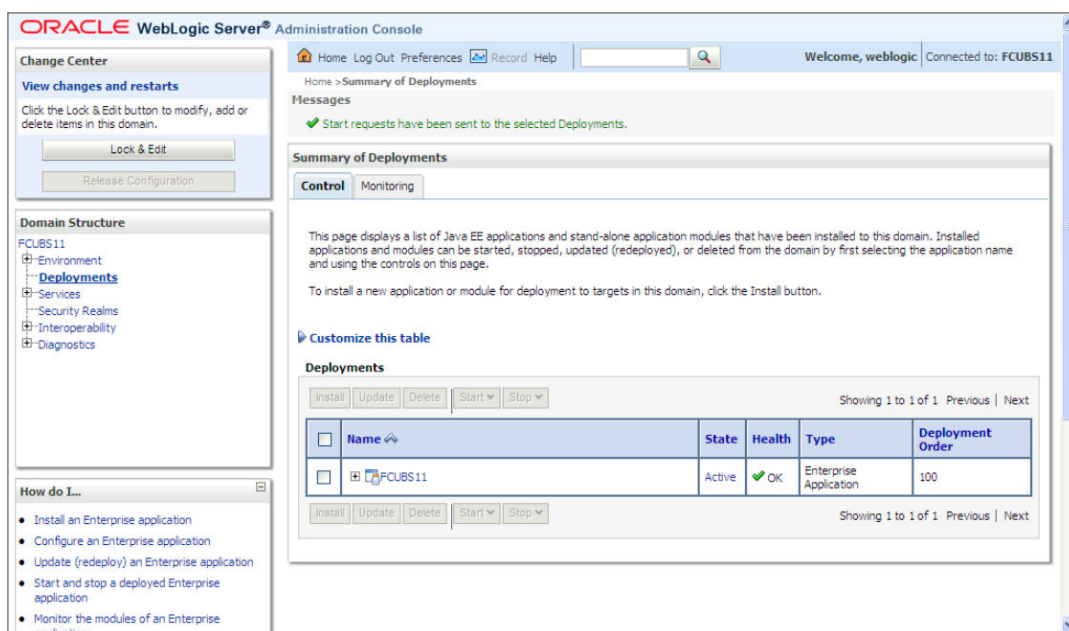
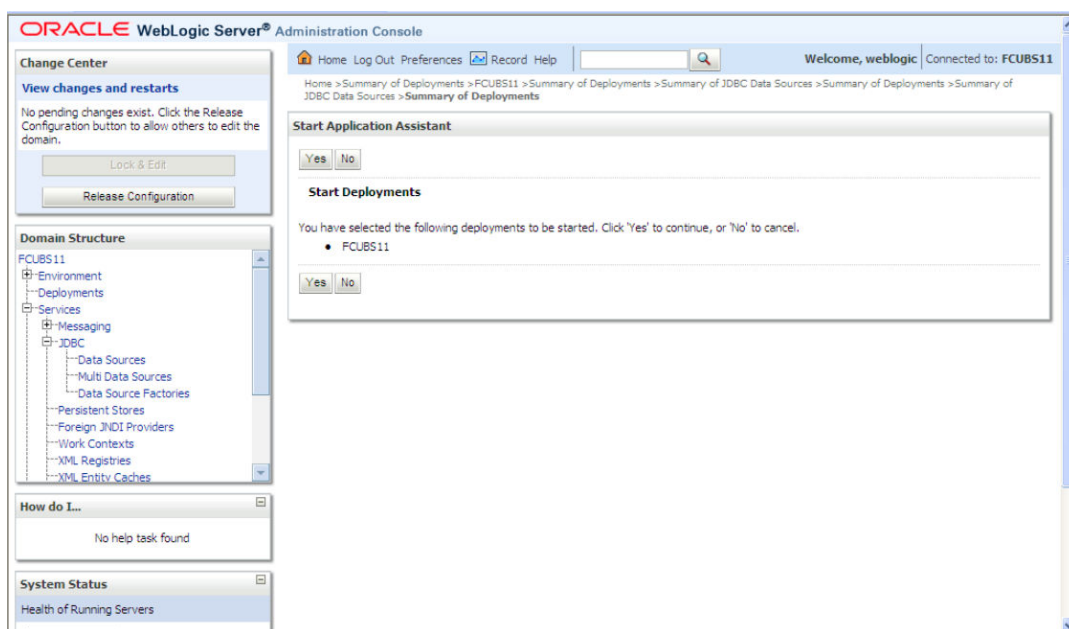


Click **'Deployment'** on the left pane. Switch to Control tab. The following screen is displayed.



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.

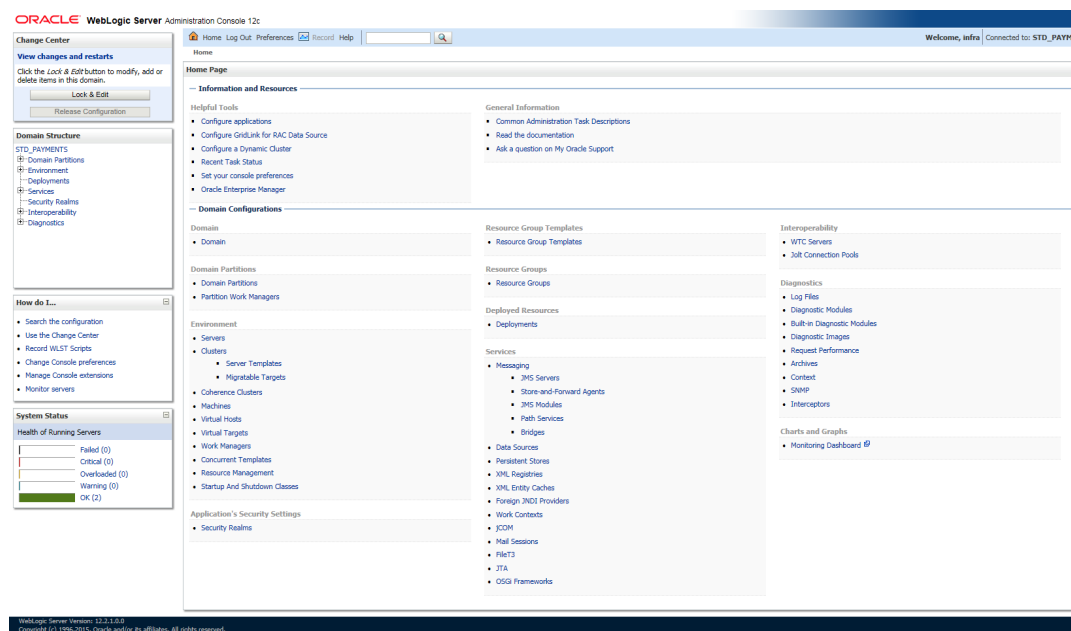
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser.

Example: <http://10.10.10.10:1001/console>  
The following screen is displayed:

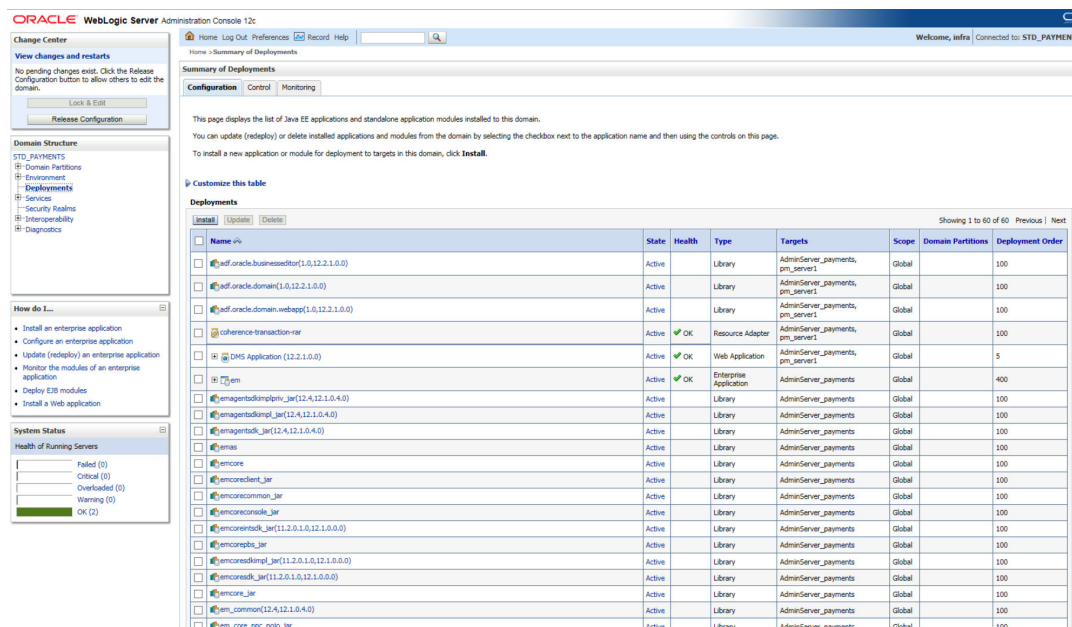


- Specify the WebLogic administrator user name and password. Click **'Log In'**.

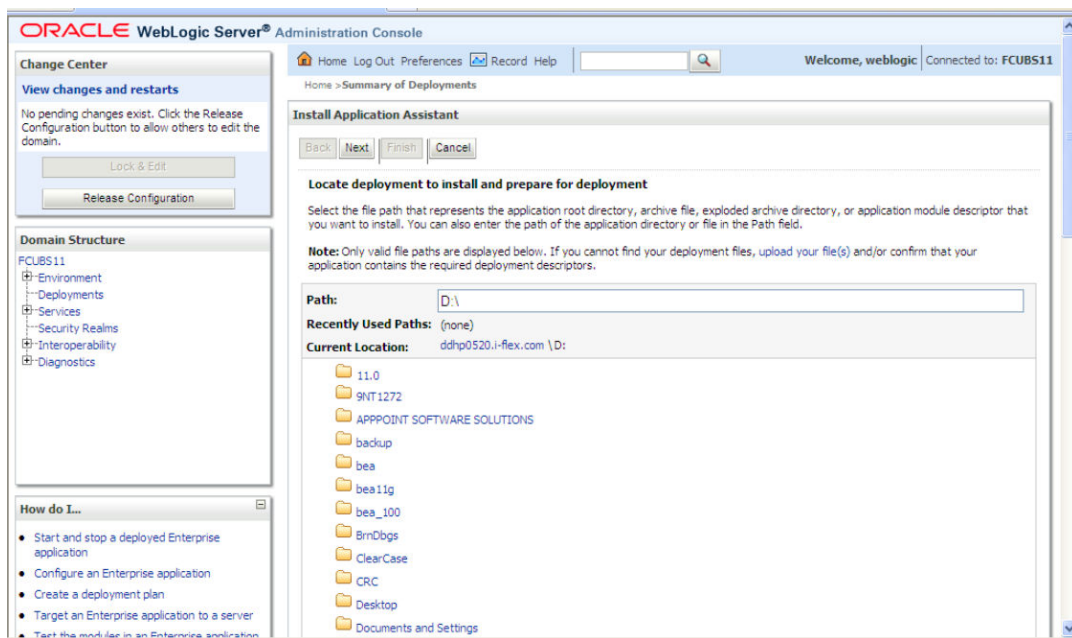
The following screen is displayed:



- You need to deploy an EAR. For example 'GWEJB.ear'. Go to **'Deployment'**.  
Click **'Lock & Edit'** button to enable the buttons. This action enables the buttons.



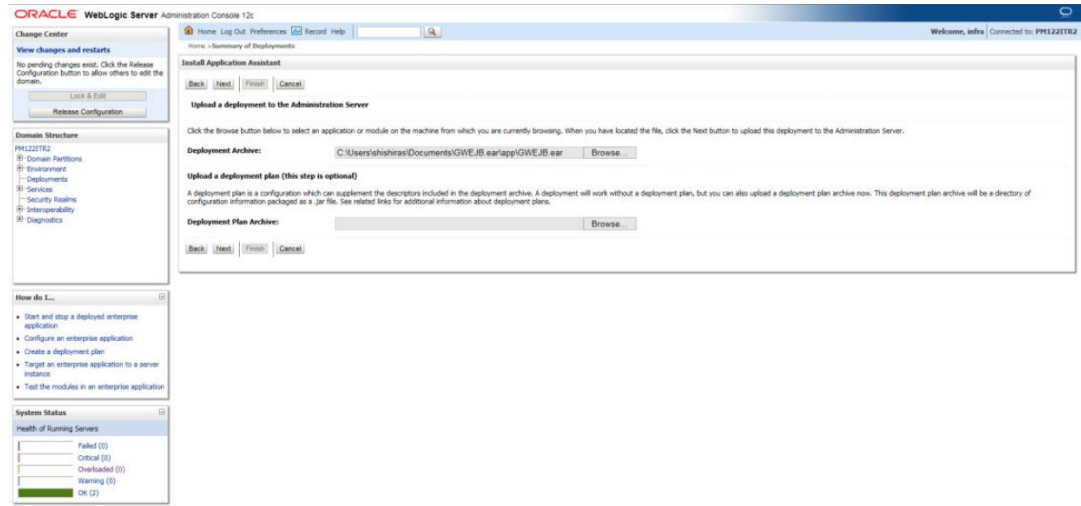
4. Click 'Install' button. The following screen is displayed:



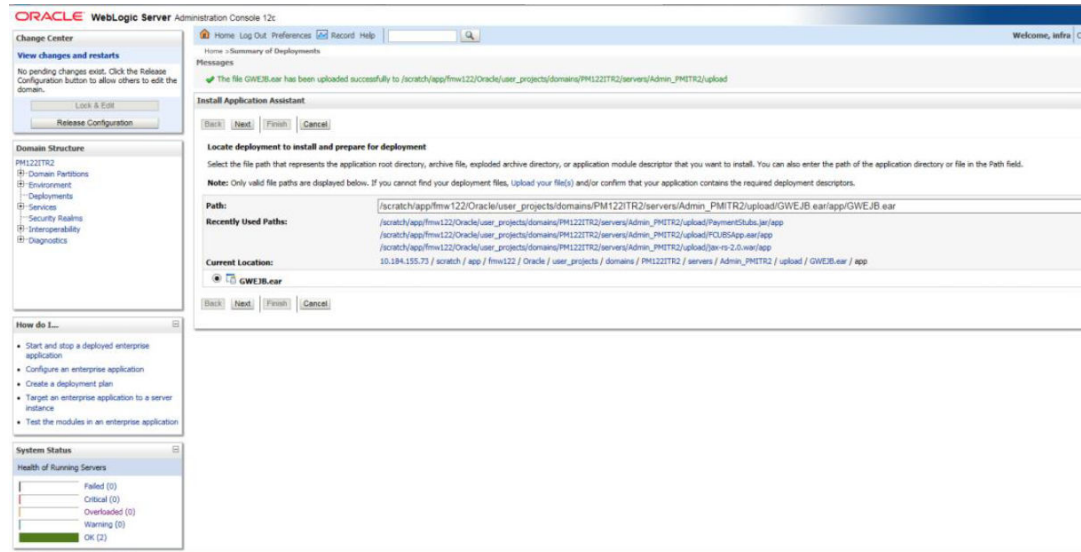
5. In order to specify the path/location of the enterprise archive file, click the link 'upload your file(s)'.

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

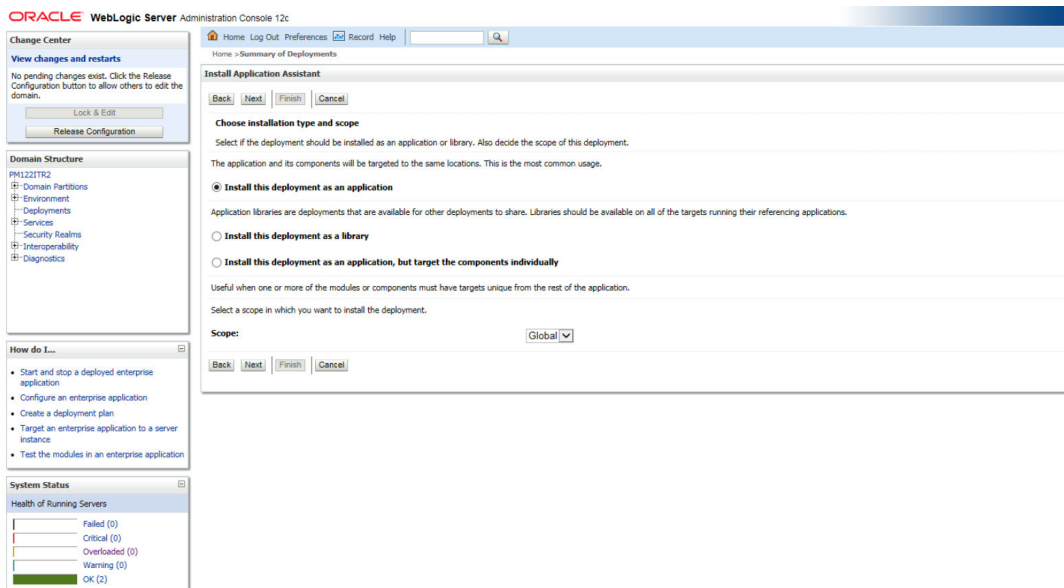




7. Specify the EAR file path. You can use the '**Browse**' button to locate the file.
8. Click '**Next**'. The following screen is displayed.

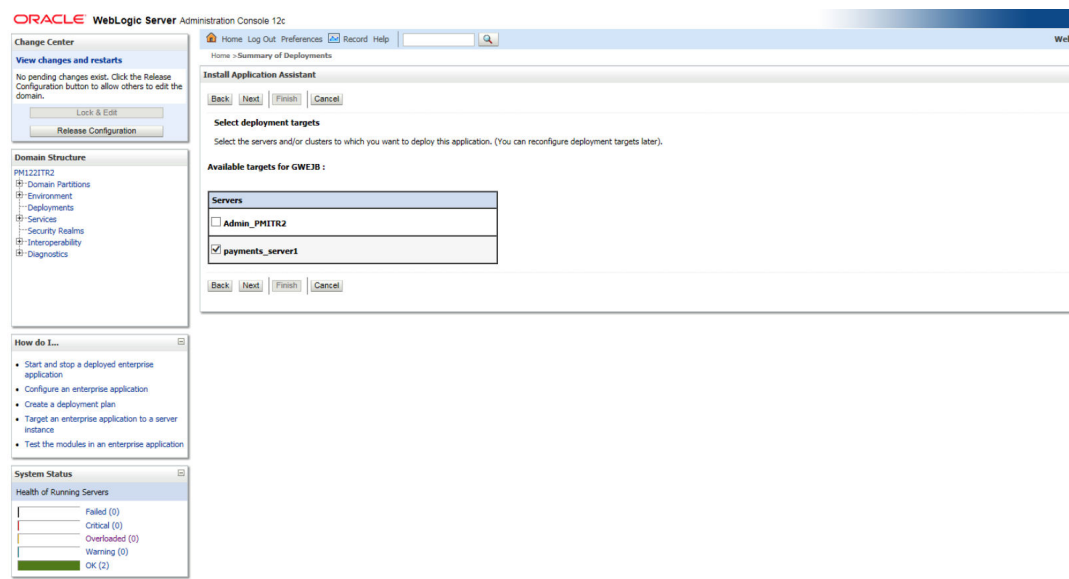


9. Select the application from the list.
10. Click '**Next**'. Following screen is displayed:

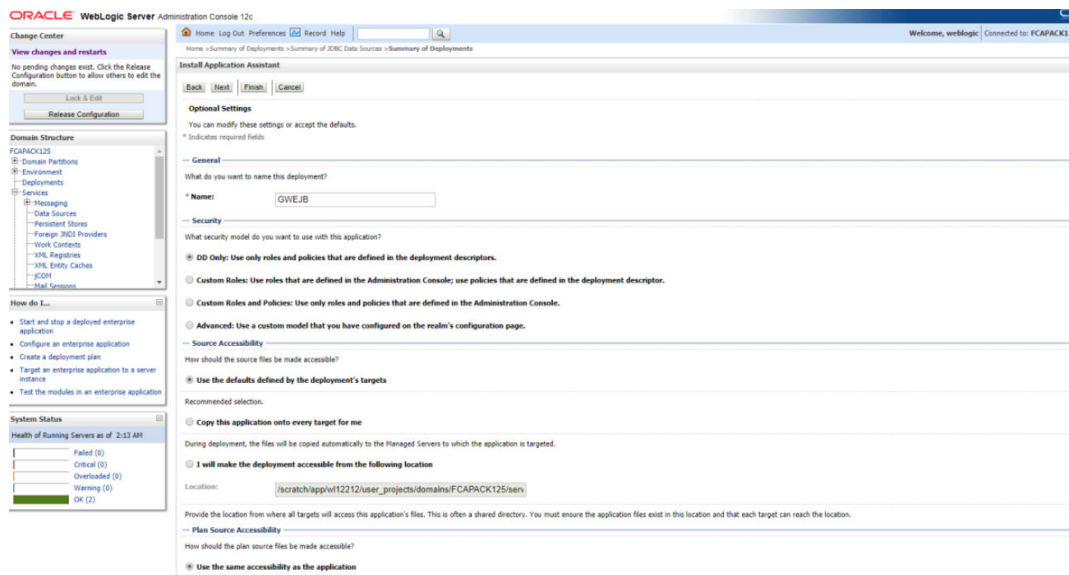


11. Choose the targeting style 'Install this deployment as an application'.
12. Click 'Next'.

The following screen is displayed.

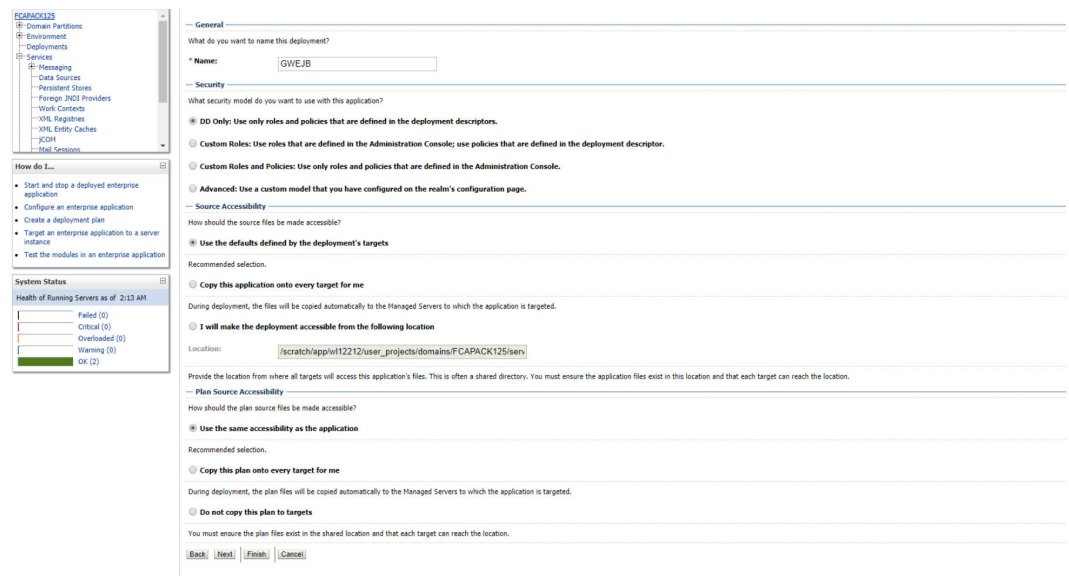


13. Select the target of the application. You can choose the server 'AdminServer' or 'Managed Server(s)'.
14. Click 'Next'. The following screen is displayed.



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.

**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

Components	Targets
GWEJB-ear	payments_server1

Back Next Finish Cancel

17. 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 Control

**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 as 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 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...

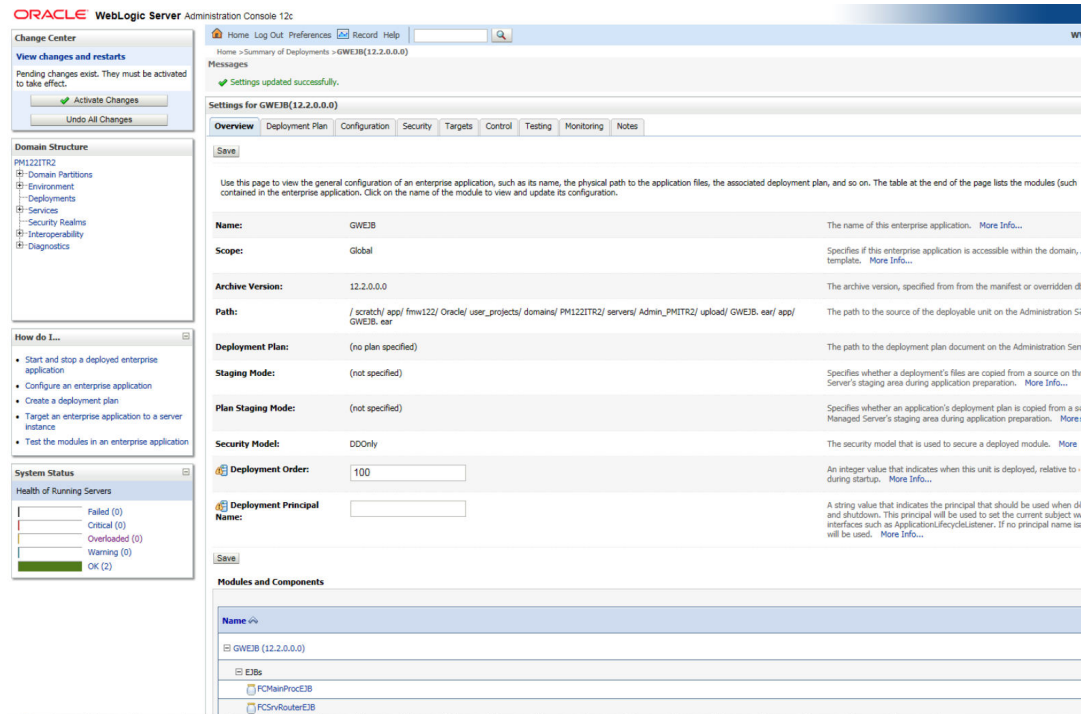
**Deployment Principal Name:** A string value that indicates the principal that should be used when deploying the file or arc and shutdown. This principal will be used to set the current subject when calling out into J2C interfaces such as ApplicationLifecycleListener. If no principal name is specified, then the arc will be used. More Info...

Save

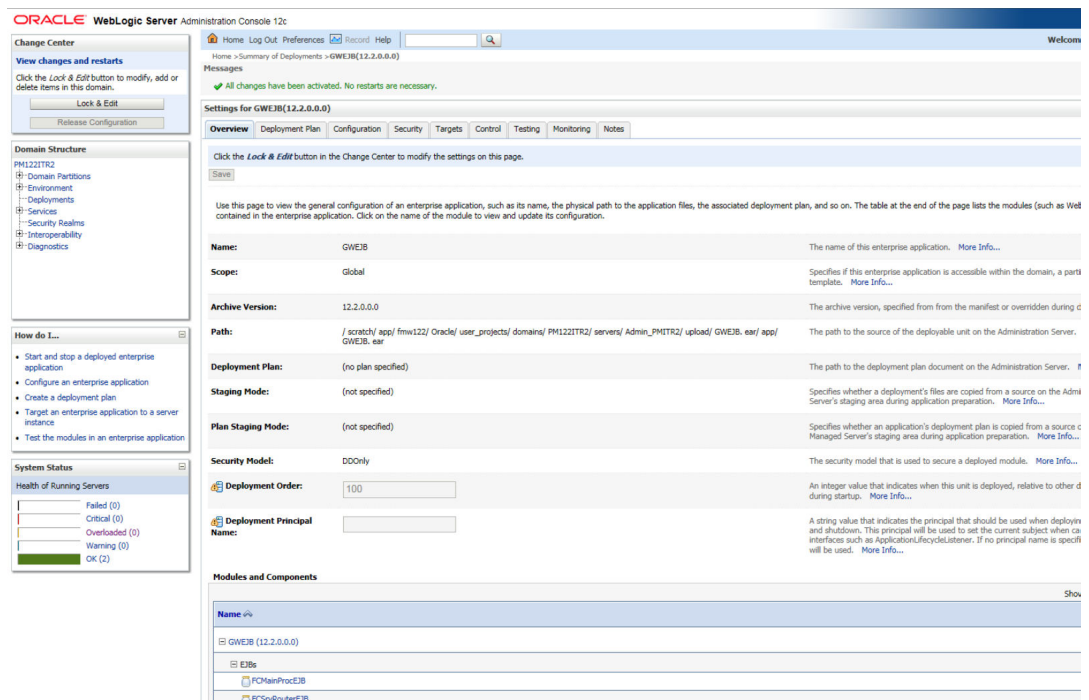
**Modules and Components** Showing 1 to 1 of 11

Name
GWEJB (12.2.0.0.0)
EJBs
FCMProcEJB
FCServletEJB
GWEJB

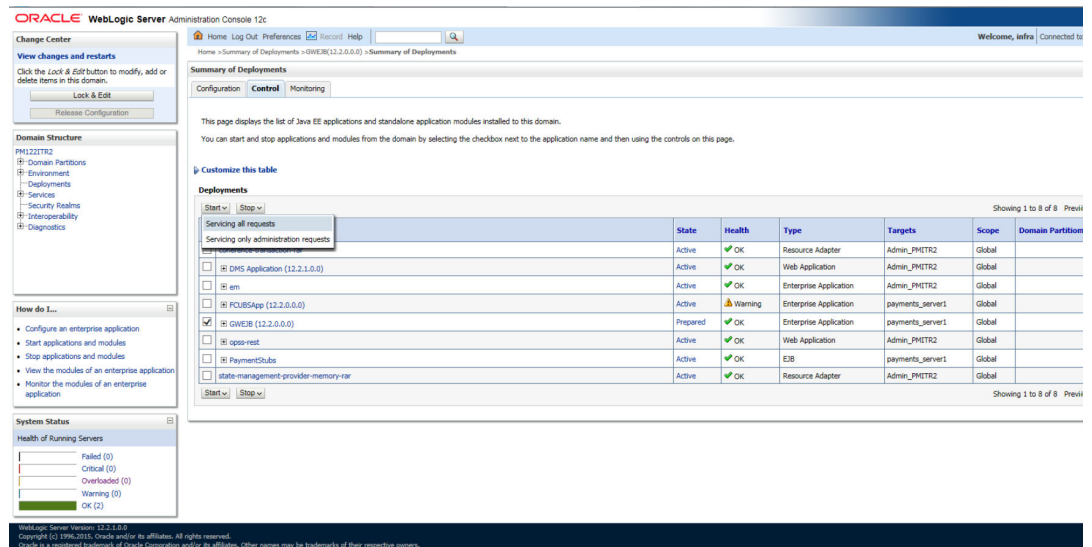
18. Click **Save** button. The message 'Settings updated successfully' is displayed.



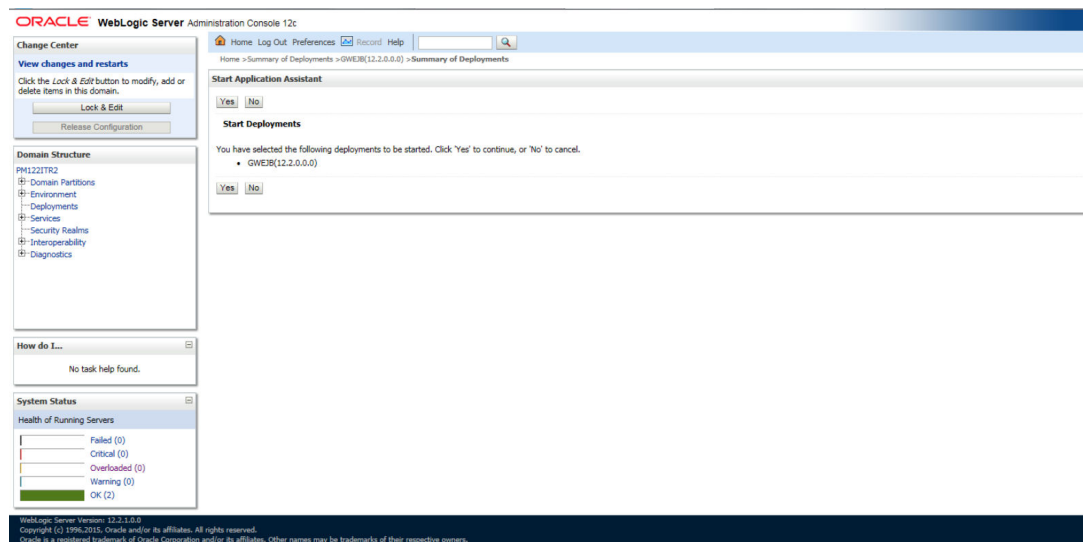
- Click 'Activate Changes' button on the left pane. The message 'All the changes have been activated. No restarts are necessary' is displayed.



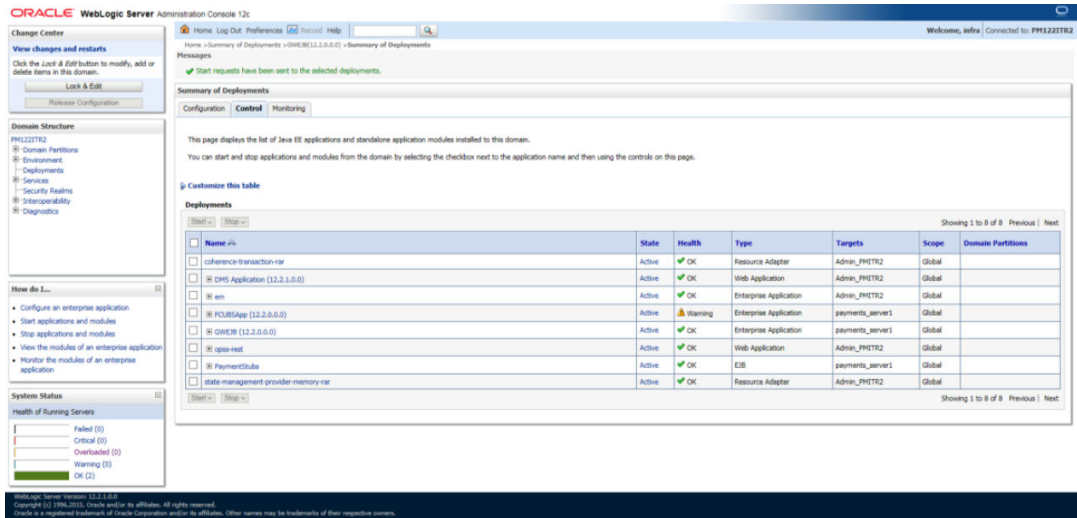
- Click 'Deployment' on the left pane. Switch to Control tab. The following screen is displayed.



20. Click 'Start' drop-down button and select 'Servicing all requests'.
21. The following screen is displayed.



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



This completes the deployment process.

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

# Glossary



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