

Deploying Oracle Banking Application on WebLogic
Oracle Banking Corporate Lending
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1. Deploying Oracle FLEXCUBE on WebLogic

1.1 Introduction

This chapter explains the steps to deploy Oracle FLEXCUBE UBS application into Oracle WebLogic application server in centralized and decentralized modes. In centralized mode, branch and host are setup in a single PC. In decentralized mode, branch and host are setup in different PCs.

1.2 Building Application

For building Oracle FLEXCUBE Application in centralized and decentralized modes, refer to the following chapters.

1.2.1 Building Application in Centralized Mode

Refer to the chapter 'Building Application in Centralized Mode'. This includes the following details:

- Creating Property File
- Building Centralized EAR File
- Configuring Plug-ins
- Loading Properties File

1.2.2 Building Application in Decentralized Mode

Refer to the chapter 'Building Application in Decentralized Mode'. This includes the following details:

- Creating Property File
- Building Decentralized EAR File
- Configuring Plug-ins
- Loading Properties File

1.3 Deploying Application in Oracle WebLogic

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

1.3.1 Deploying Integration Adapter EAR from WebLogic Administration Console

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

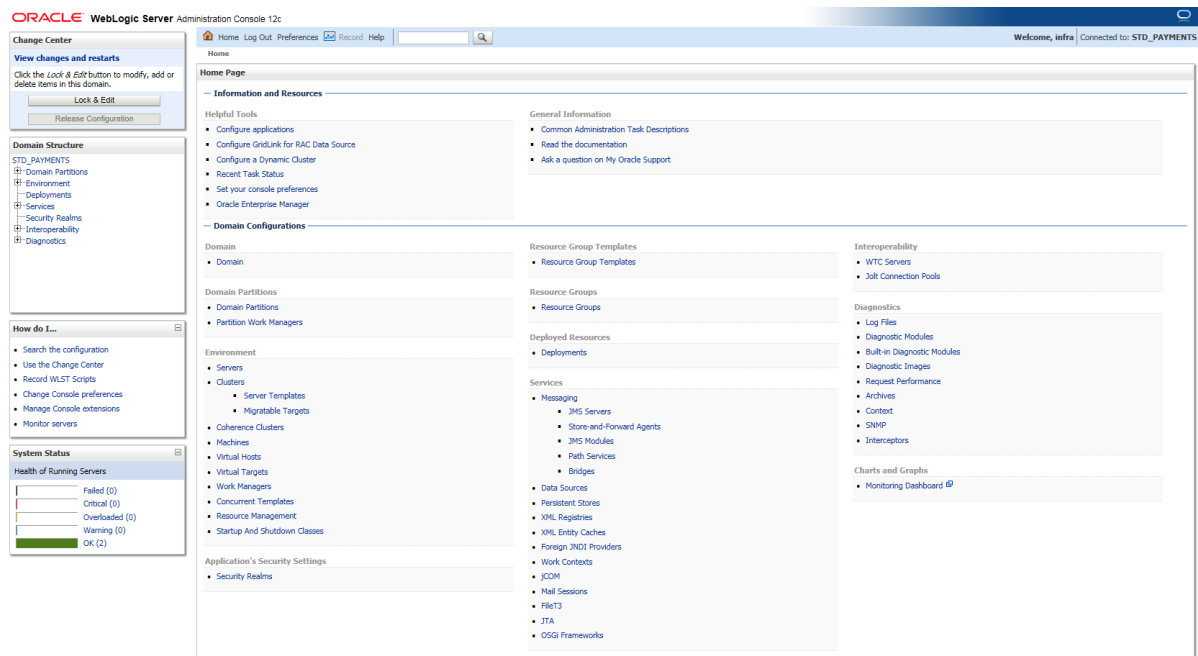
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser.

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

The following screen is displayed:



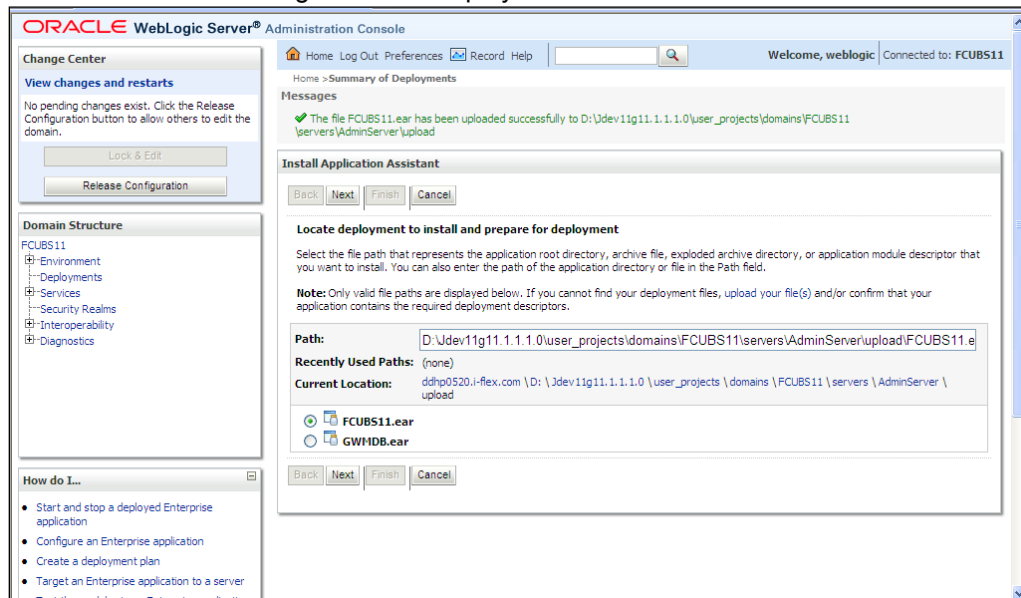
2. Specify the WebLogic administrator user name and password. Click 'Log In'.



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

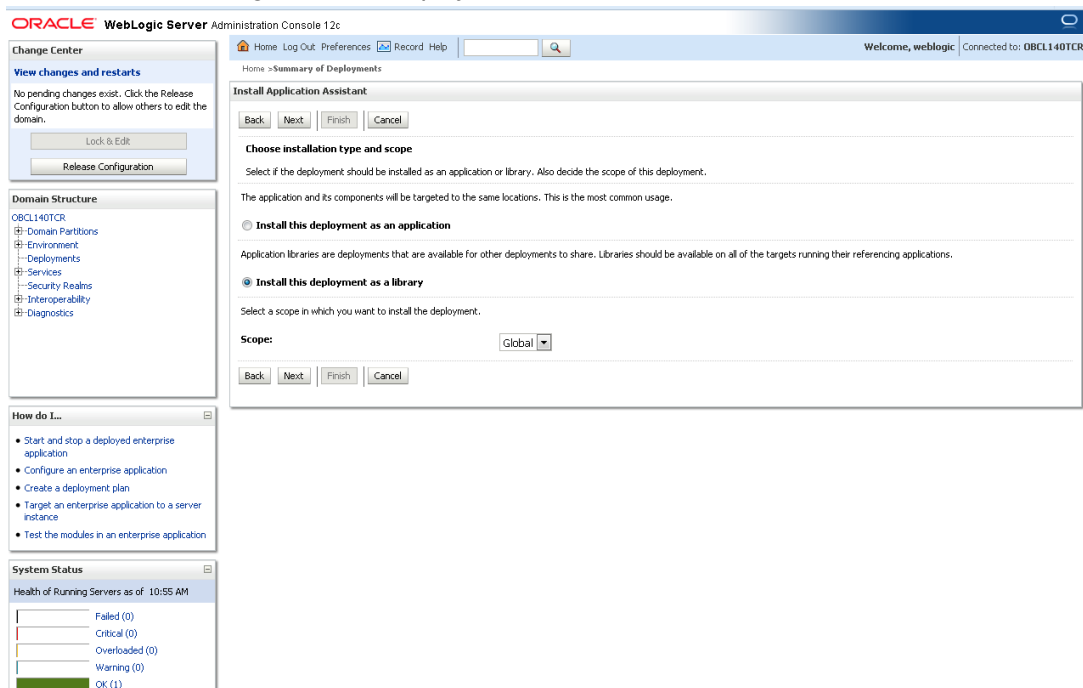
Click 'Lock & Edit' button to enable the buttons. This action enables the buttons.

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



8. Select the application Adapter EAR from the list.

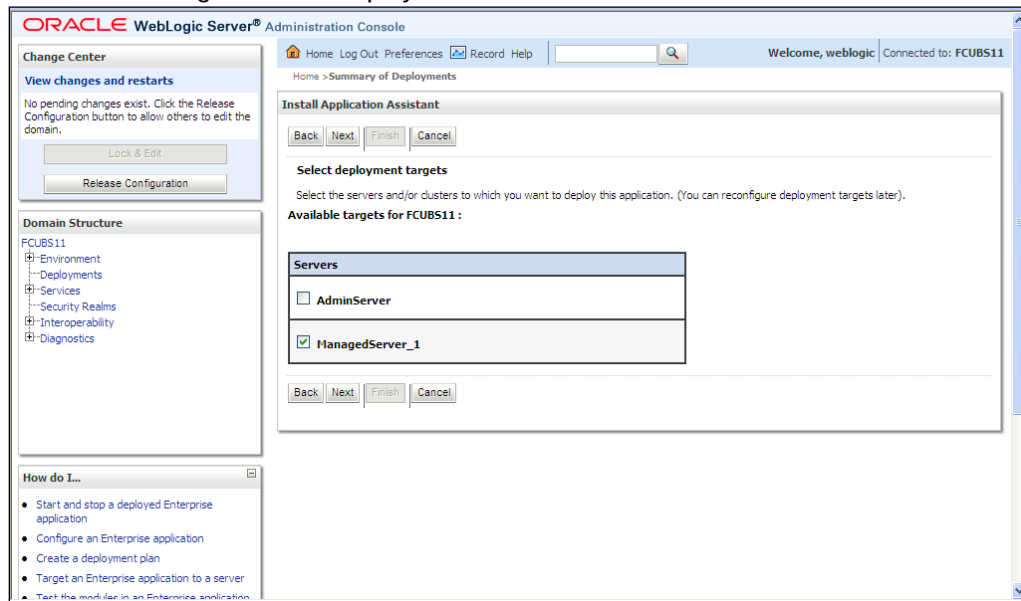
9. Click 'Next'. Following screen is displayed:



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

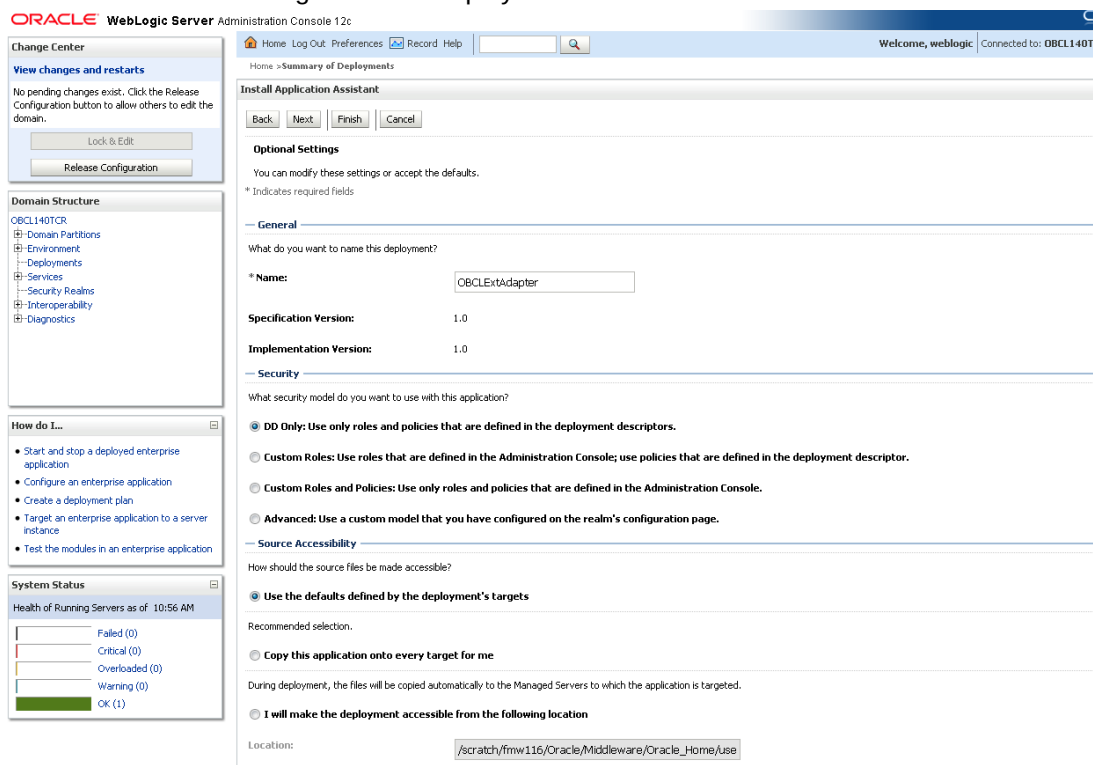
11. Click 'Next'.

12. The following screen is displayed



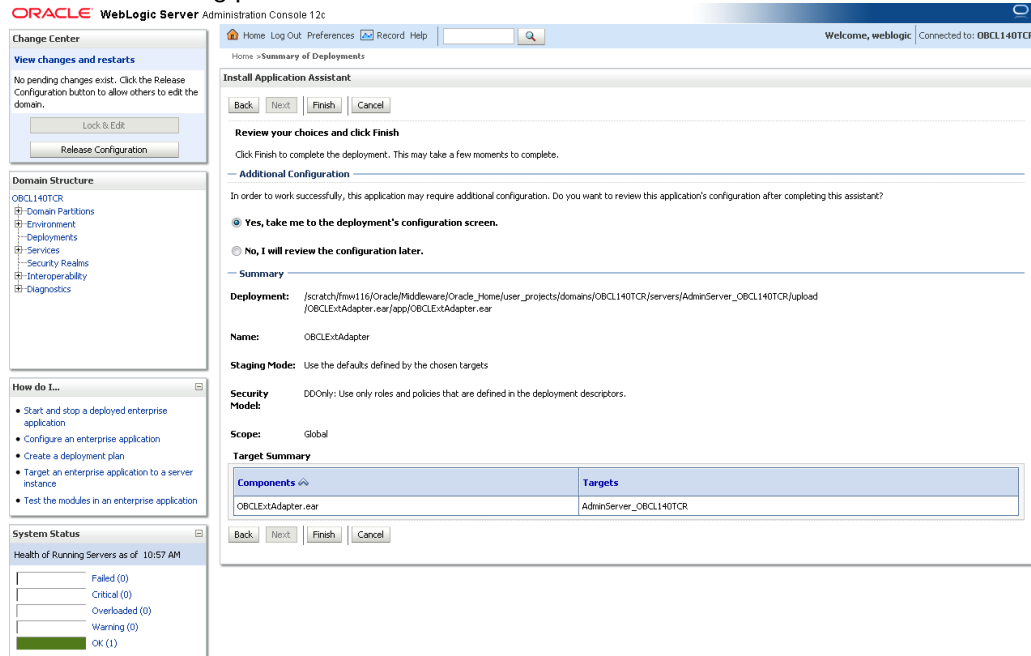
13. Select the target of the application. You can choose the server 'AdminServer' or 'Managed Server(s)'.

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

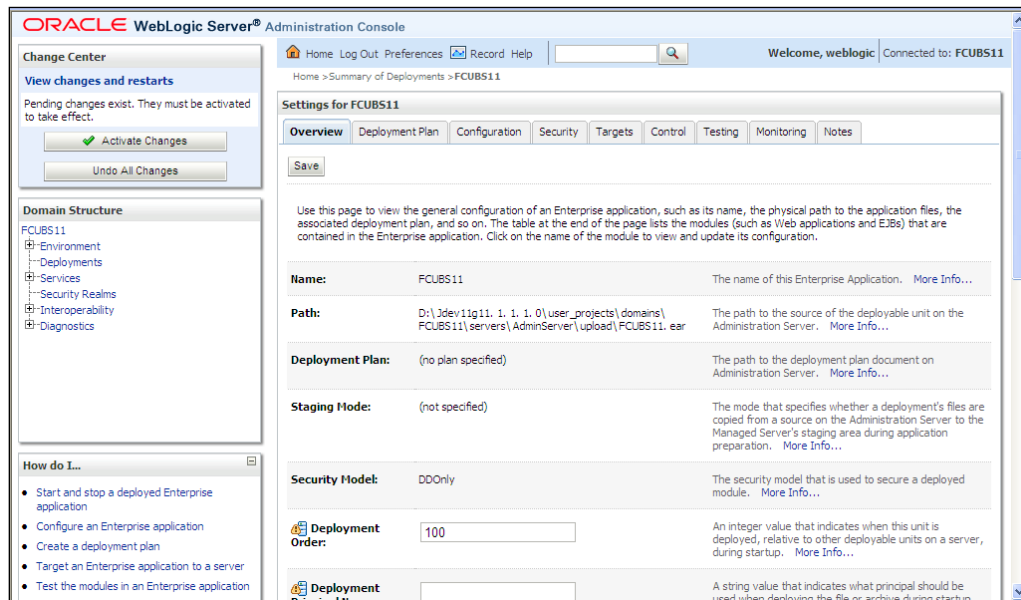


15. Check the deployment name.

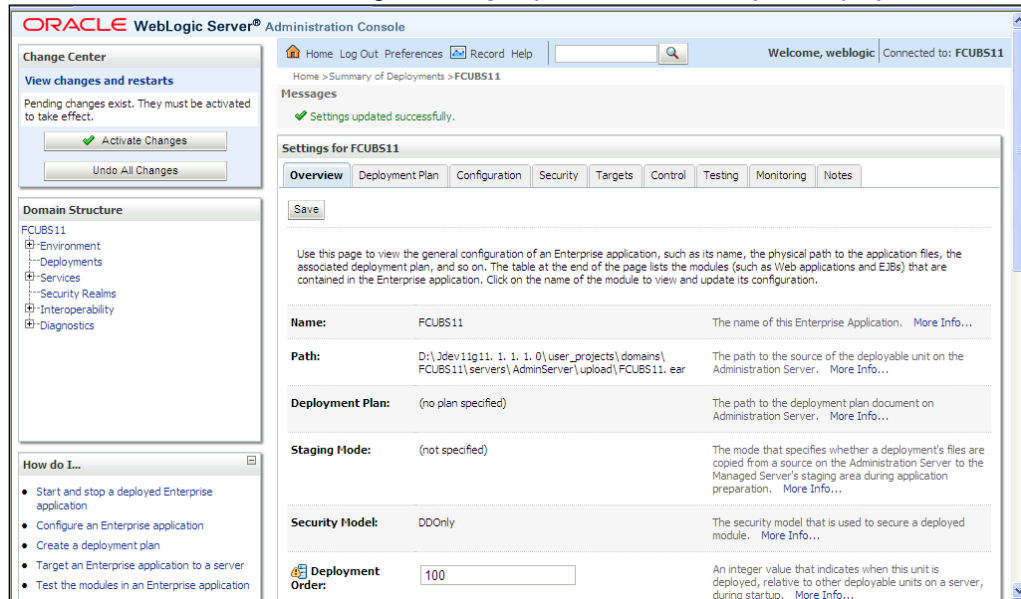
16. The remaining portion of the screen is shown below:



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



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



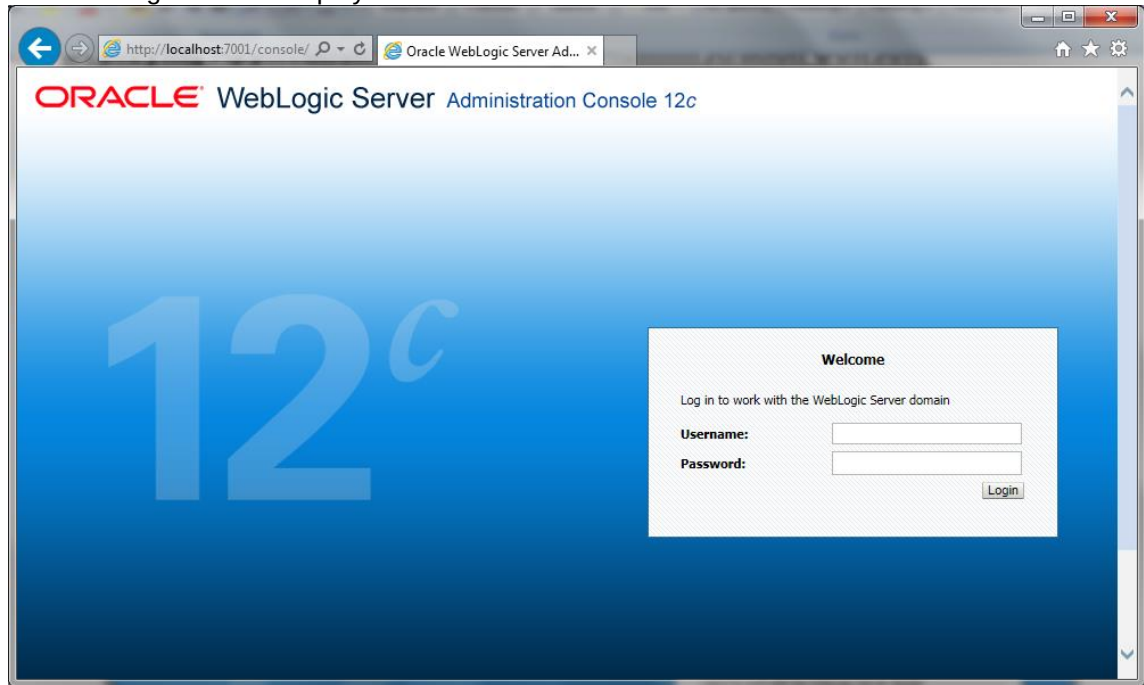
19. Click 'Activate Changes' button on the left pane. The message 'All the changes have been activated. No restarts are necessary' is displayed.

1.3.2 Deploying Dependency Library "Jax-RS"

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

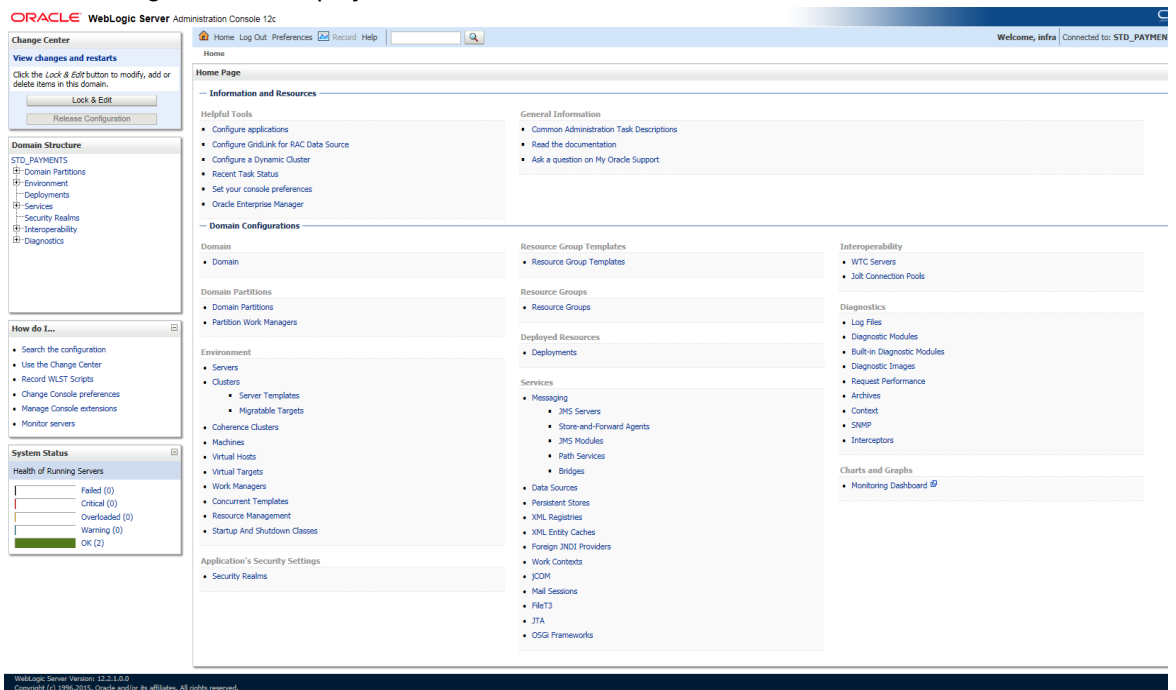
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser.
Eg: <http://10.10.10.10:1001/console>

2. The following screen is displayed:



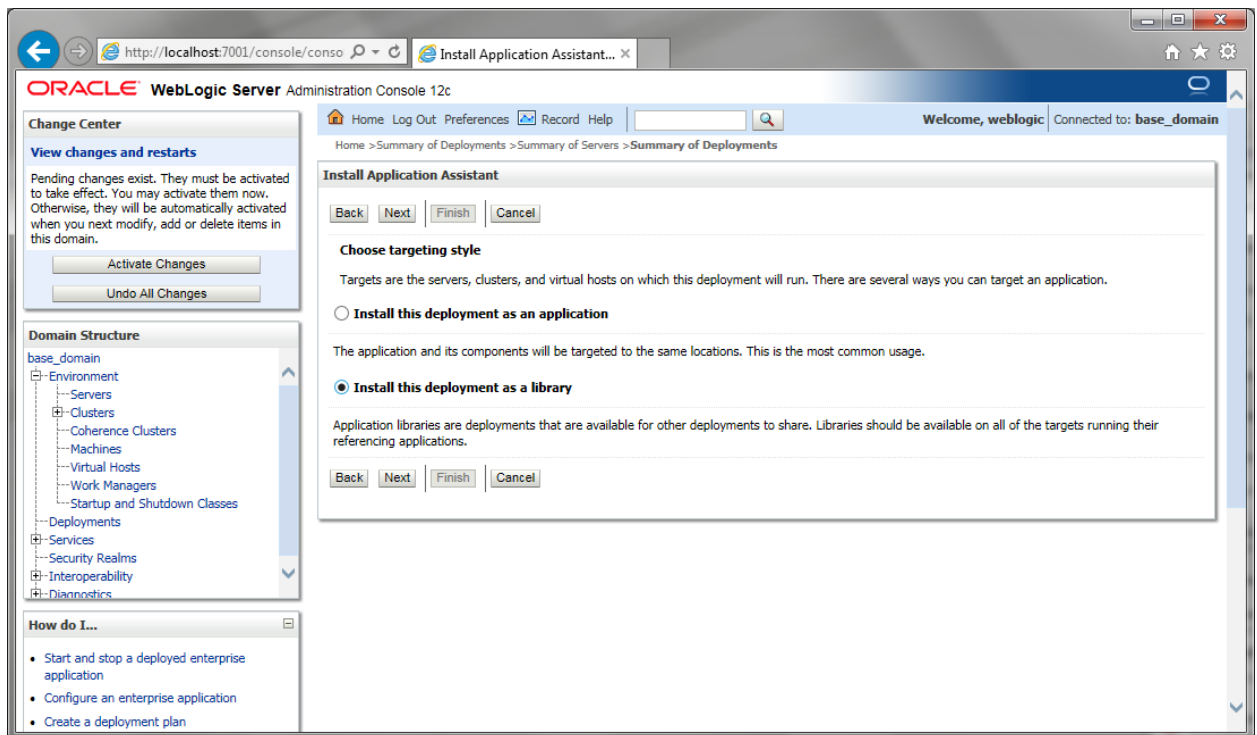
3. Specify the WebLogic administrator user name and password. Click 'Log In'.

The following screen is displayed:

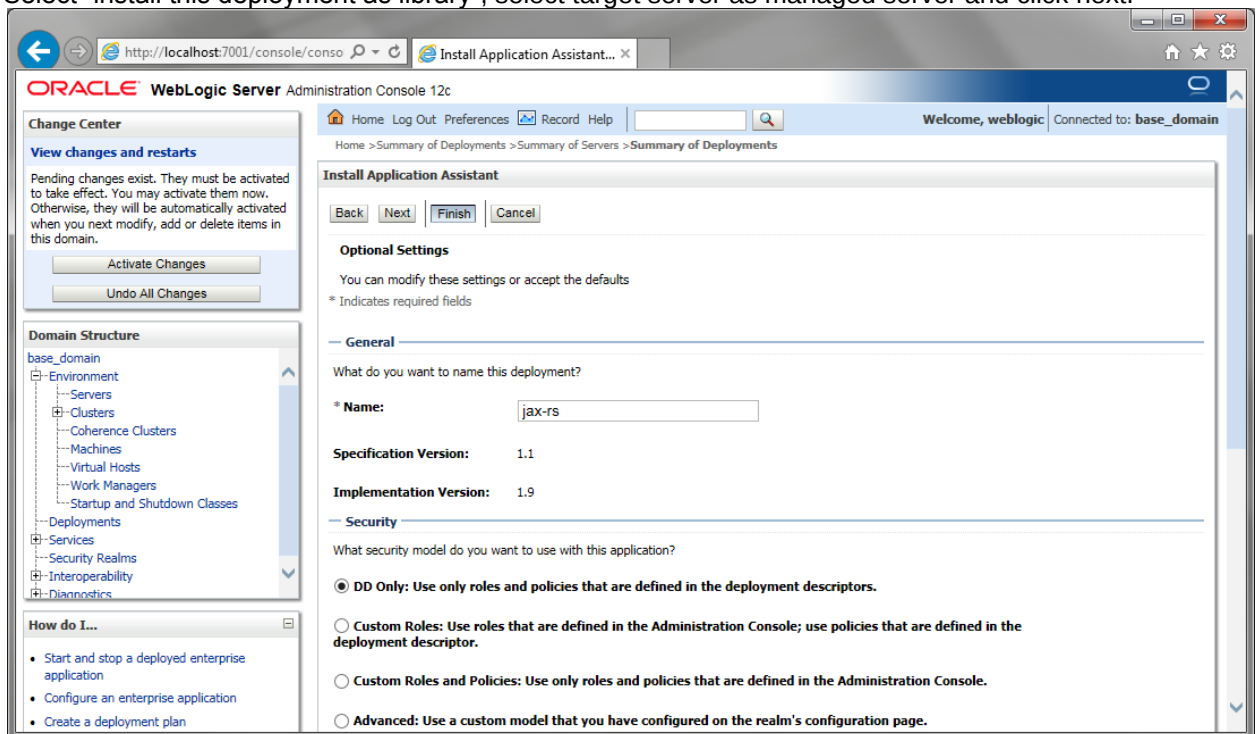


ORACLE®

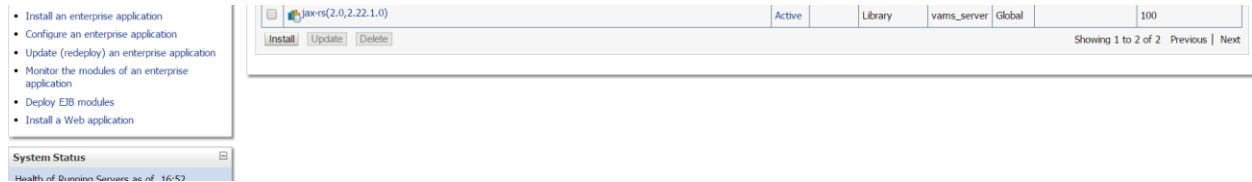
Navigate and select jersey bundle under the path “w\server\common\deployable-libraries\jax-rs-2.0.war” and click next



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”

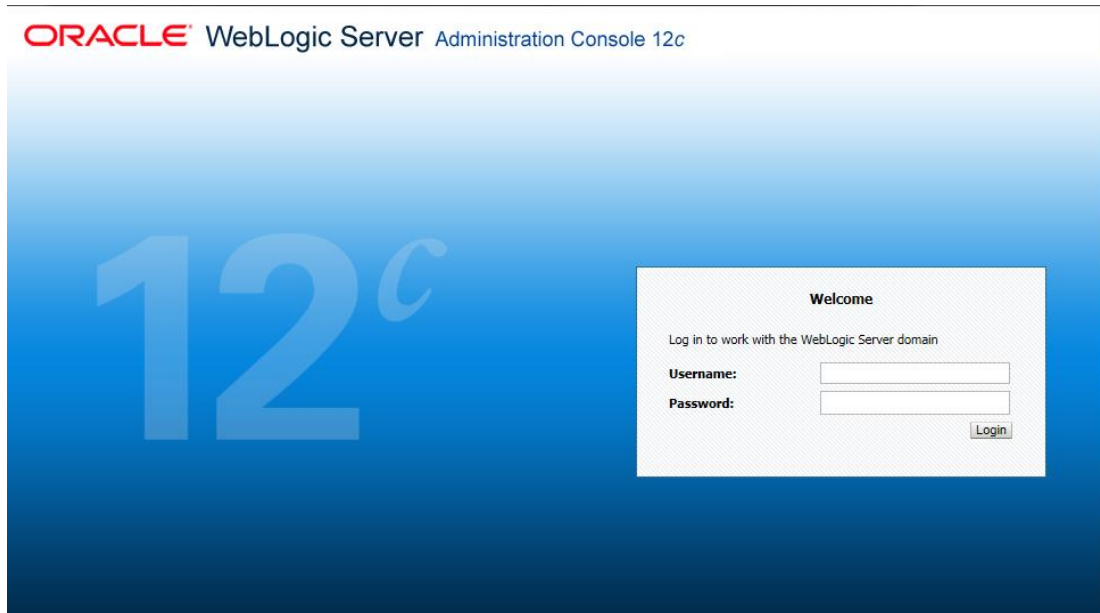
Note :- latest Jax-rs version will be Jax-rs(2.0,2.22.1.0)

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’.

WebLogic Server Administration Console 12c

[Home](#)
[Log Out](#)
[Preferences](#)
[Record](#)
[Help](#)

Change Center

View changes and restarts
 Click the **Lock & Edit** button to modify, add or delete items in this domain.

Lock & Edit

Release Configuration

Domain Structure
 STD_PAYMENTS
 + Domain Partitions
 + Environment
 + Deployments
 + Services
 + Security Realms
 + Interoperability
 + Diagnostics

How do I...
 • Search the configuration
 • Use the Change Center
 • Record WLST Scripts
 • Change Console preferences
 • Manage Console extensions
 • Monitor servers

System Status
Health of Running Servers

Home

Home Page
 — Information and Resources
 Helpful Tools
 • Configure applications
 • Configure GridLink for RAC Data Source
 • Configure a Dynamic Cluster
 • Recent Task Status
 • Set your console preferences
 • Oracle Enterprise Manager
 — Domain Configurations
 Domain
 • Domain
 Domain Partitions
 • Domain Partitions
 • Partition Work Managers
 Environment
 • Servers
 • Clusters
 • Server Templates
 • Migratable Targets
 • Coherence Clusters
 • Machines
 • Virtual Hosts
 • Virtual Targets
 • Work Managers
 • Concurrent Templates
 • Resource Management
 • Startup And Shutdown Classes
 Application's Security Settings
 • Security Realms

General Information
 • Common Administration Task Descriptions
 • Read the documentation
 • Ask a question on My Oracle Support
 Resource Group Templates
 • Resource Group Templates
 Resource Groups
 • Resource Groups
 Deployed Resources
 • Deployments
 Services
 • Messaging
 • JMS Servers
 • Store-and-Forward Agents
 • JMS Modules
 • Path Services
 • Bridges
 • Data Sources
 • Persistent Stores
 • XML Registries
 • XML Entity Caches
 • Foreign JNDI Providers
 • Work Contexts
 • JCOB
 • Mail Sessions
 • FileT3
 • JTA
 • OSGi Frameworks

Interoperability
 • WTC Servers
 • Jolt Connection Pools
 Diagnostics
 • Log Files
 • Diagnostic Modules
 • Built-in Diagnostic Modules
 • Diagnostic Images
 • Request Performance
 • Archives
 • Context
 • SNMP
 • Interceptors
 Charts and Graphs
 • Monitoring Dashboard

WebLogic Server Version: 12.2.1.0.0
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Click 'Lock & Edit' button to enable the buttons. This action enables the buttons.

ORACLE WebLogic Server Administration Console 12c

Welcome, jafsa | Connected to STD_PAYMENT

Change Center

Home > Home Log Out Preferences > Record Help [Search]

View changes and restarts

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

[Lock & Edit] [Release Configuration]

Domains Structure

- STD_PAYMENTS
 - Domain Partitions
 - Environment
 - Deployments
 - Services
 - Security Realms
 - Interoperability
 - Diagnostics

How do I...

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

System Status

Health of Running Servers

Status	Count
Failed	(0)
Critical	(0)
Overloaded	(0)
Warning	(0)
OK	(2)

Servers Summary

Summary of Deployments

Configuration Control Monitoring

This page displays the list of Java EE applications and standalone application modules installed to the domain.

You can update (redploy) 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

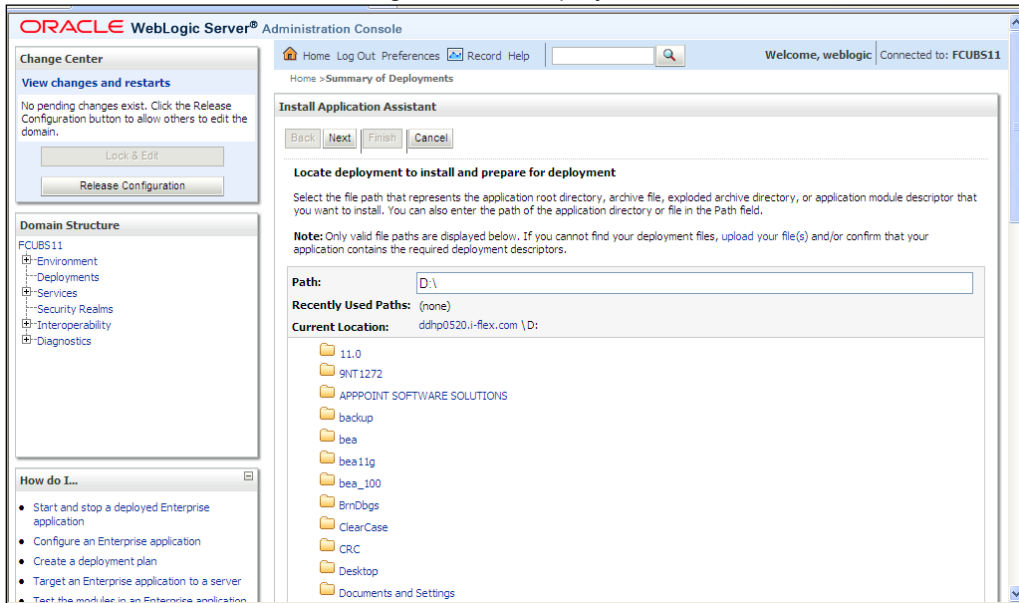
Deployments

[Install] [Update] [Delete]

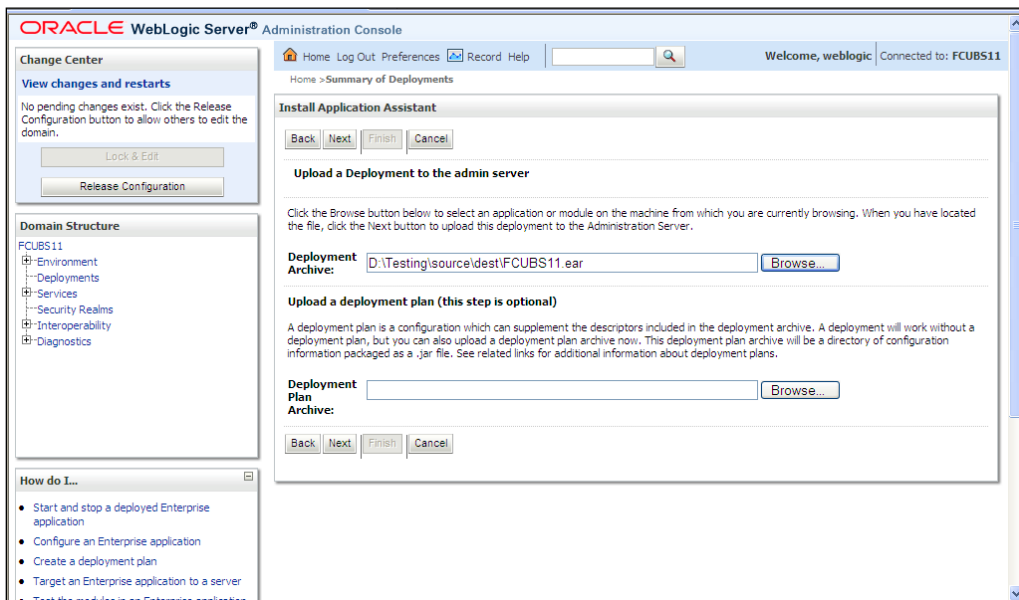
Showing 1 to 60 of 60 Previous | Next

Name	Type	State	Health	Targets	Scope	Domain Partitions	Deployment Order
☐ self.oracle.businesseditor(1.0,12.2.1.0.0)	Library	Active		AdminServer_payments_gm_server1	Global		100
☐ self.oracle.domain(1.0,12.2.1.0.0)	Library	Active		AdminServer_payments_gm_server1	Global		100
☐ self.oracle.domain.webapp(1.0,12.2.1.0.0)	Library	Active		AdminServer_payments_gm_server1	Global		100
☐ coherence-transaction-rar	Resource Adapter	Active	✓ OK	AdminServer_payments_gm_server1	Global		100
☐ OHS Application (12.2.1.0.0)	Web Application	Active	✓ OK	AdminServer_payments_gm_server1	Global		5
☐ em	Enterprise Application	Active	✓ OK	AdminServer_payments	Global		400
☐ emagentstdimplr_jar(12.4.12.1.0.4.0)	Library	Active		AdminServer_payments	Global		100
☐ emagentstdimpl_jar(12.4.12.1.0.4.0)	Library	Active		AdminServer_payments	Global		100
☐ emagentstdk_jar(12.4.12.1.0.4.0)	Library	Active		AdminServer_payments	Global		100
☐ emas	Library	Active		AdminServer_payments	Global		100
☐ emcas	Library	Active		AdminServer_payments	Global		100
☐ emconcurrent_jar	Library	Active		AdminServer_payments	Global		100
☐ emconcommon_jar	Library	Active		AdminServer_payments	Global		100
☐ emconconsole_jar	Library	Active		AdminServer_payments	Global		100
☐ emconstdk_jar(11.2.0.1.0,12.1.0.0.0)	Library	Active		AdminServer_payments	Global		100
☐ emconstdpl_jar	Library	Active		AdminServer_payments	Global		100
☐ emconstdimpl_jar(11.2.0.1.0,12.1.0.0.0)	Library	Active		AdminServer_payments	Global		100
☐ emconstdl_jar(11.2.0.1.0,12.1.0.0.0)	Library	Active		AdminServer_payments	Global		100
☐ emcons_jar	Library	Active		AdminServer_payments	Global		100
☐ em_concommon(12.4.12.1.0.4.0)	Library	Active		AdminServer_payments	Global		100

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

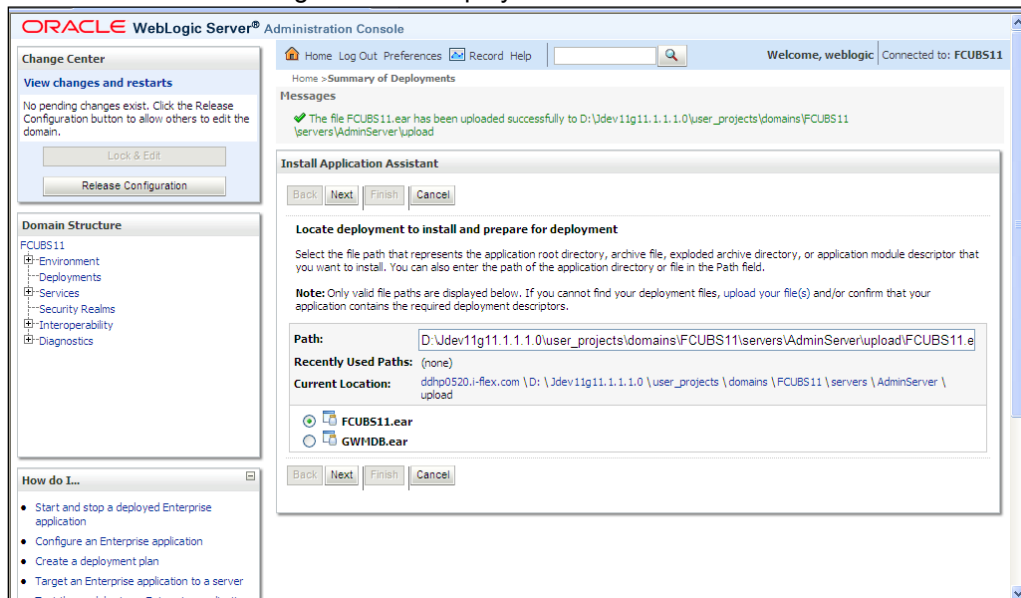


5. In order to specify the path/location of the enterprise archive file, click the link 'upload your file(s)'.
6. Click 'Next'. The following screen is displayed:



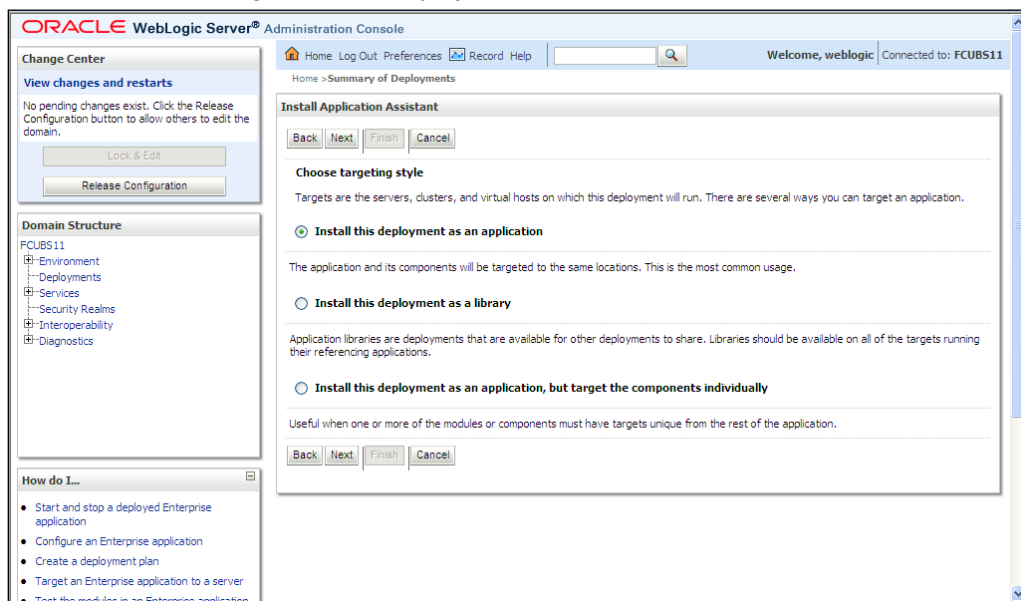
7. Specify the EAR file path. You can use the 'Browse' button to locate the file.

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



9. Select the application FCUBS EAR from the list.

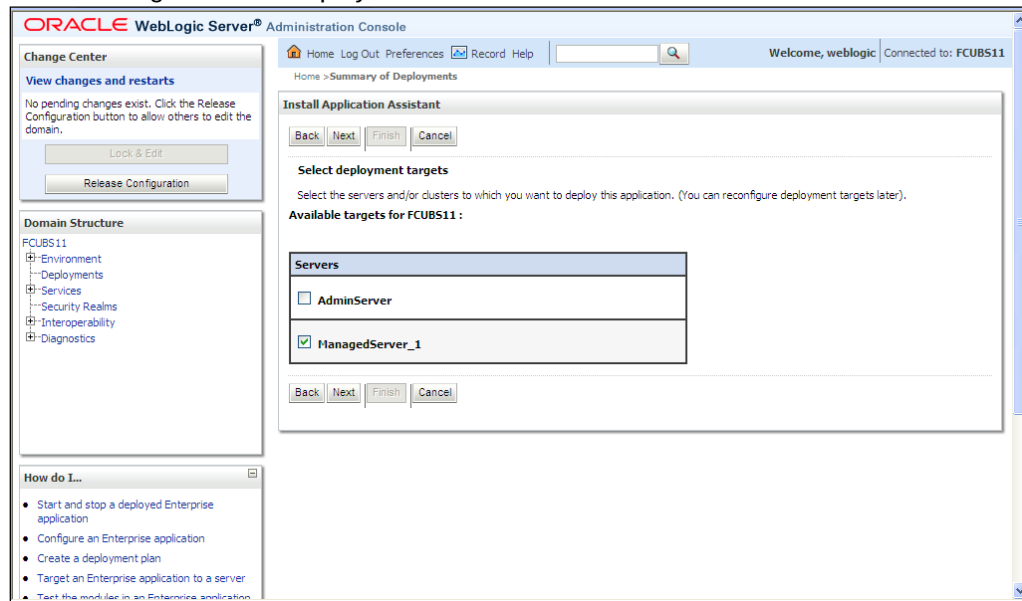
10. Click 'Next'. Following screen is displayed:



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

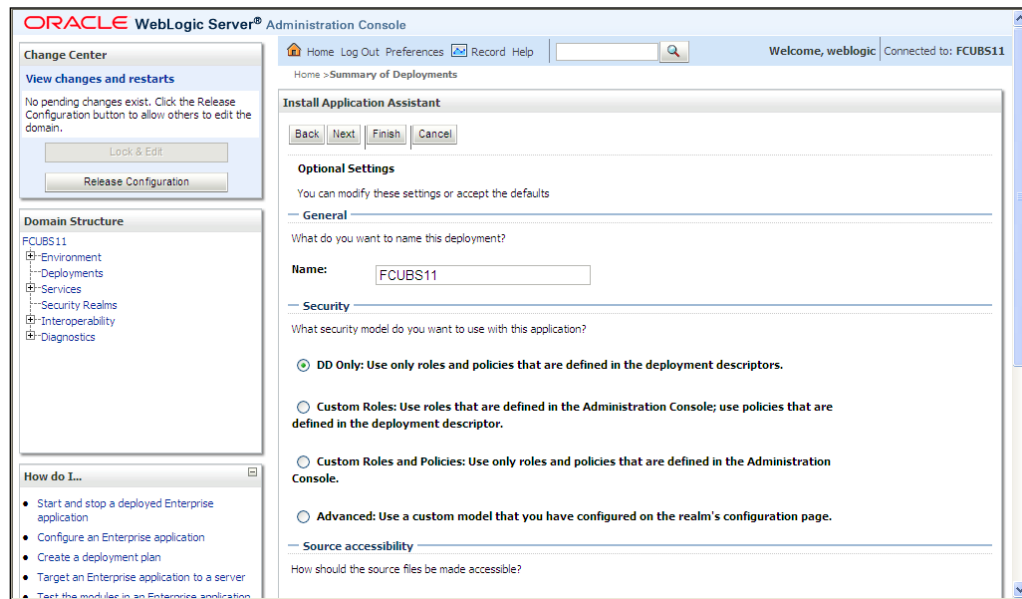
12. Click 'Next'.

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:

The screenshot shows the Oracle Enterprise Manager console with the following sections:

- Left Navigation Panel:**
 - Security Realms
 - Interoperability
 - Diagnostics
- 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
 - Test the modules in an Enterprise application
- System Status:**
 - Health of Running Servers
 - Failed (0)
 - Critical (0)
 - Overloaded (0)
 - Warning (0)
 - OK (1)
- Main Content Area:**
 - Security:** What security model do you want to use with this application?
 - ☒ **DD Only:** Use only roles and policies that are defined in the deployment descriptors.
 - ☐ **Custom Roles:** Use roles that are defined in the Administration Console; use policies that are defined in the deployment descriptor.
 - ☐ **Custom Roles and Policies:** Use only roles and policies that are defined in the Administration Console.
 - ☐ **Advanced:** Use a custom model that you have configured on the realm's configuration page.
 - Source accessibility:** How should the source files be made accessible?
 - ☒ **Use the defaults defined by the deployment's targets**
 - ☐ **Copy this application onto every target for me**
 - ☐ **I will make the deployment accessible from the following location**
 - Location:** D:\dev11g11.1.1.0\user_projects\domains\FCUBS11\src

Provide the location from where all targets will access this application's files. This is often a shared directory. You must ensure the application files exist in this location and that each target can reach the location.

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

The following screen is displayed.

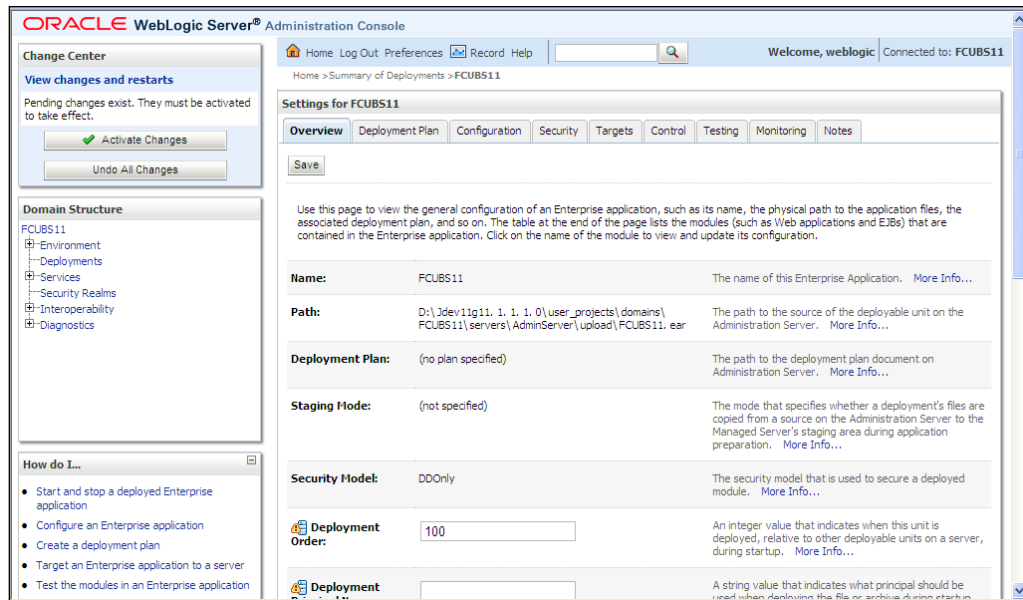
The screenshot shows the Oracle Enterprise Manager console with the following sections:

- Left Navigation Panel:**
 - FCUBS11
 - Environment
 - Deployments
 - Services
 - Security Realms
 - Interoperability
 - Diagnostics
- 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
 - Test the modules in an Enterprise application
- System Status:**
 - Health of Running Servers
- Main Content Area:**
 - Install Application Assistant:**
 - 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:** D:\dev11g11.1.1.0\user_projects\domains\FCUBS11\servers\AdminServer\upload\FCUBS11.ear
 - Name:** FCUBS11
 - Staging mode:** Use the defaults defined by the chosen targets
 - Security Model:** DDOnly: Use only roles and policies that are defined in the deployment descriptors.
 - Target Summary:**

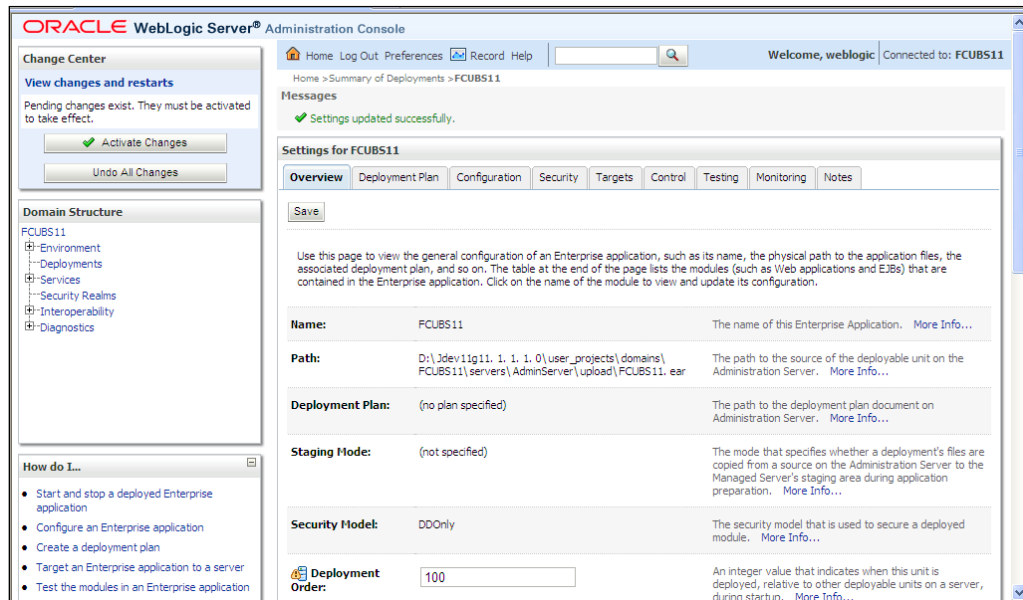
Components	Targets
FCUBS11.ear	ManagedServer_1

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

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

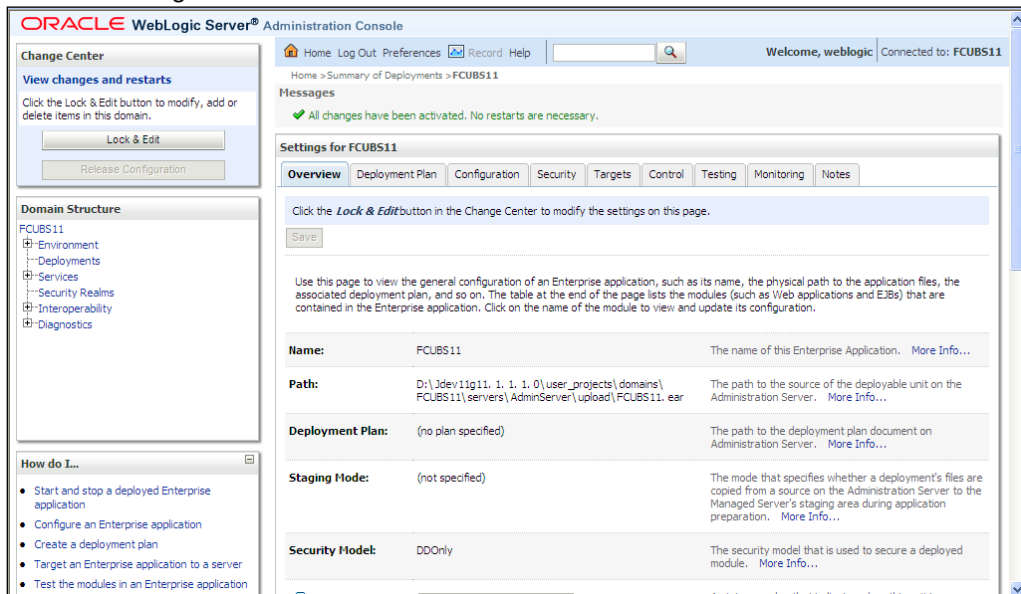


18. Click 'Save' button. The message 'Settings updated successfully' is displayed.

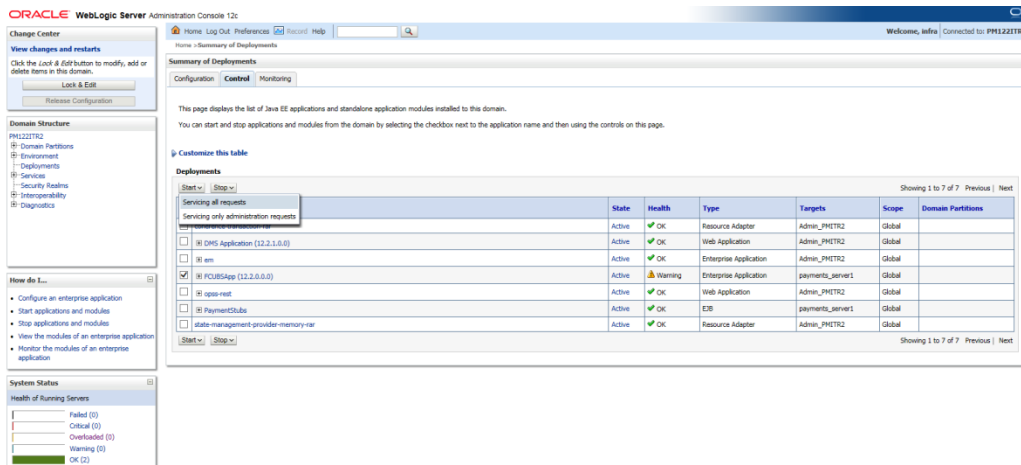


19. Click 'Activate Changes' button on the left pane. The message 'All the changes have been activated. No restarts are necessary' is displayed.

The screen is given below:

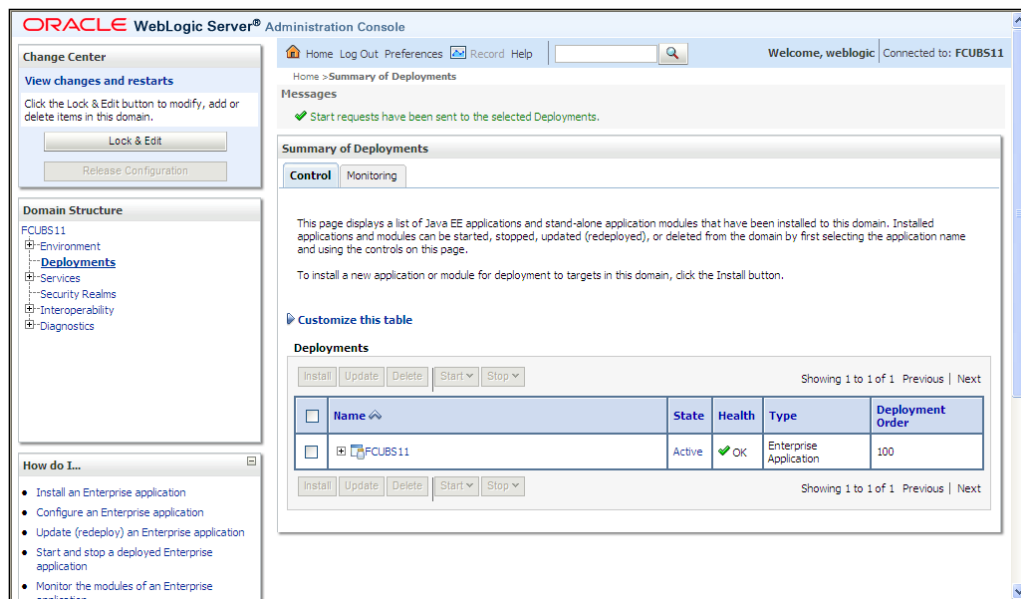
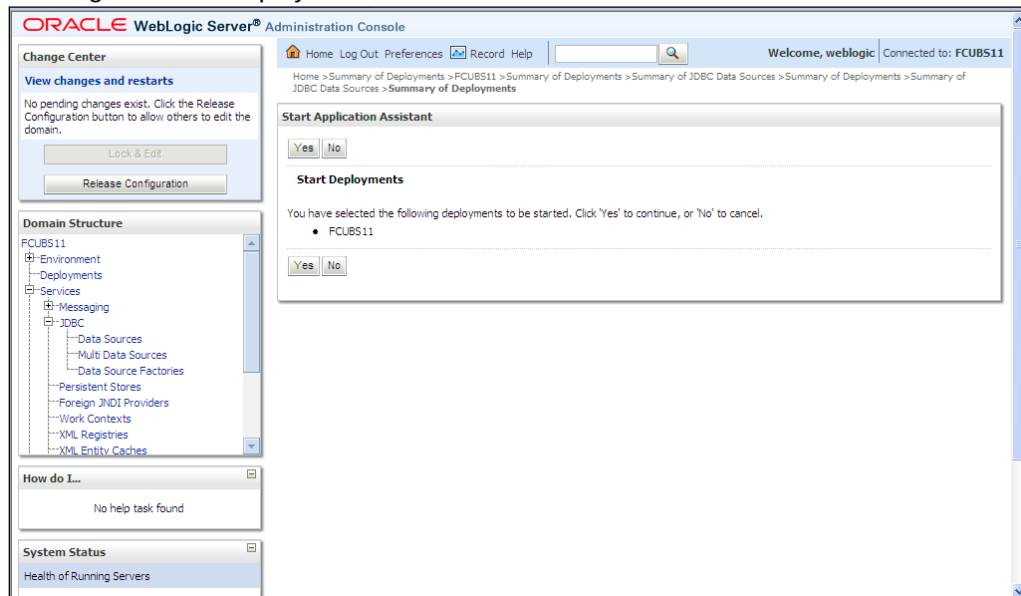


Click 'Deployment' on the left pane. Switch to Control tab .The following screen is displayed.



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.

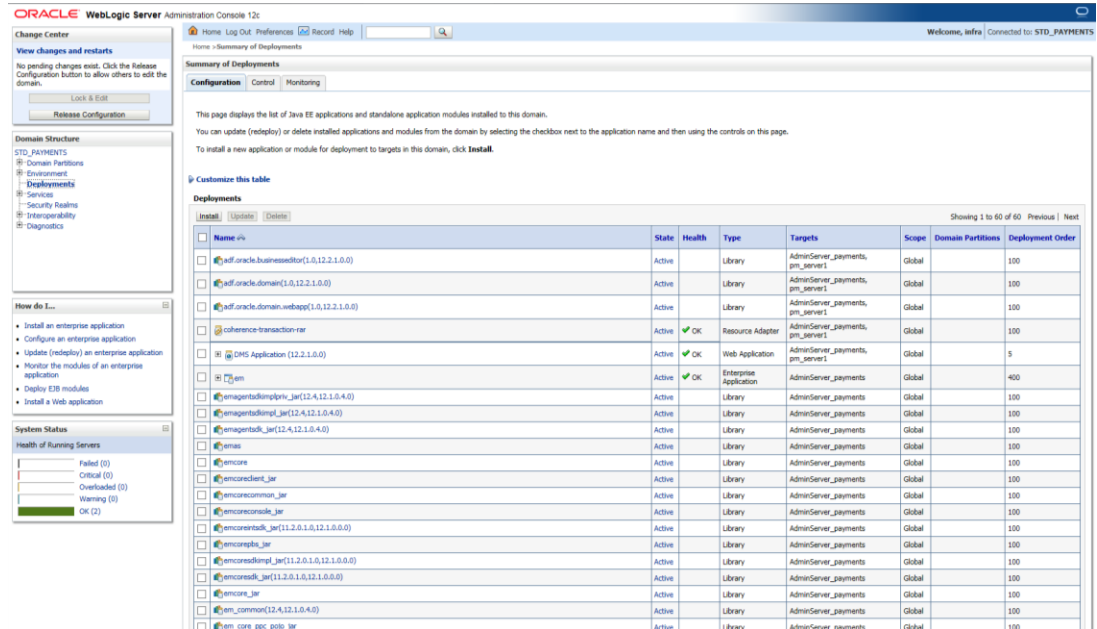
1. Launch Administrative Console of WebLogic application server. You can launch this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser.
Eg: `http://10.10.10.10:1001/console`
22. The following screen is displayed:



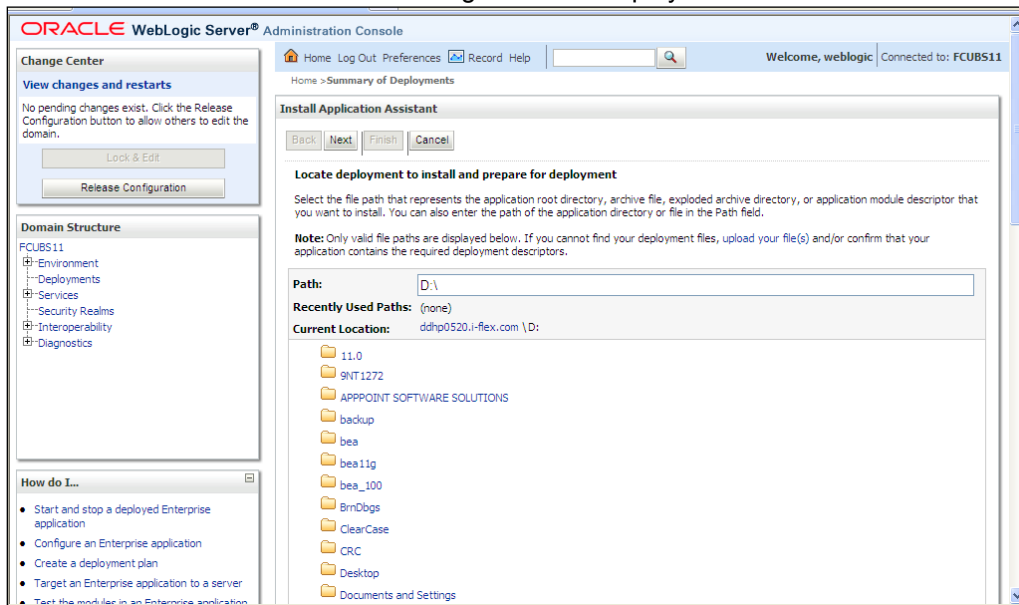
23. Specify the WebLogic administrator user name and password. Click 'Log In'.

[illegible]

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

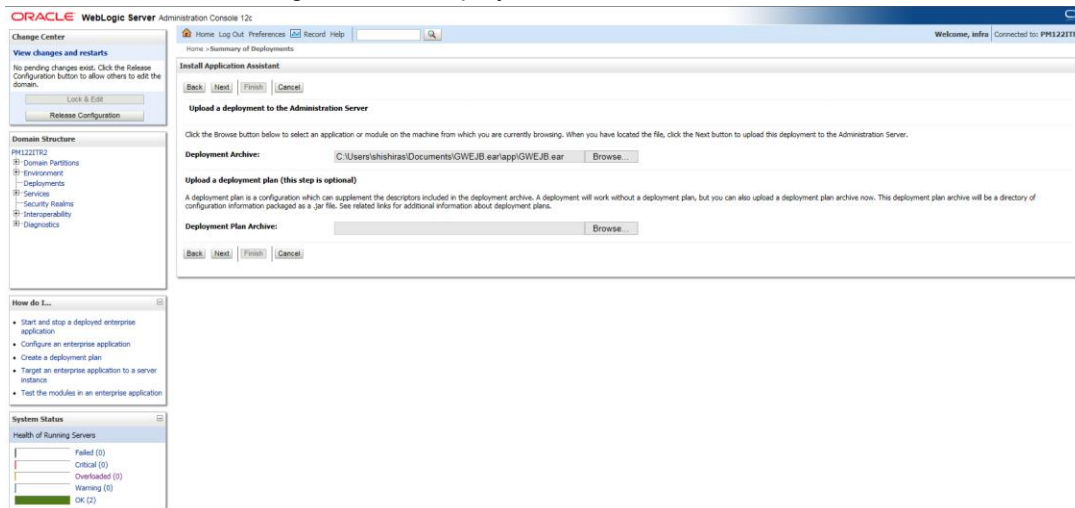


25. Click 'Install' button. The following screen is displayed:



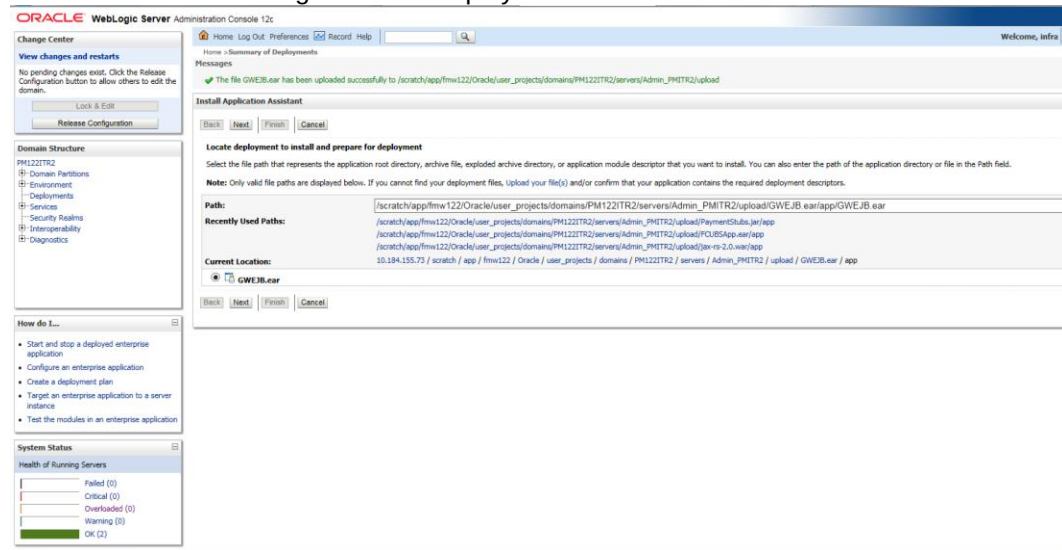
26. In order to specify the path/location of the enterprise archive file, click the link 'upload your file(s)'.

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



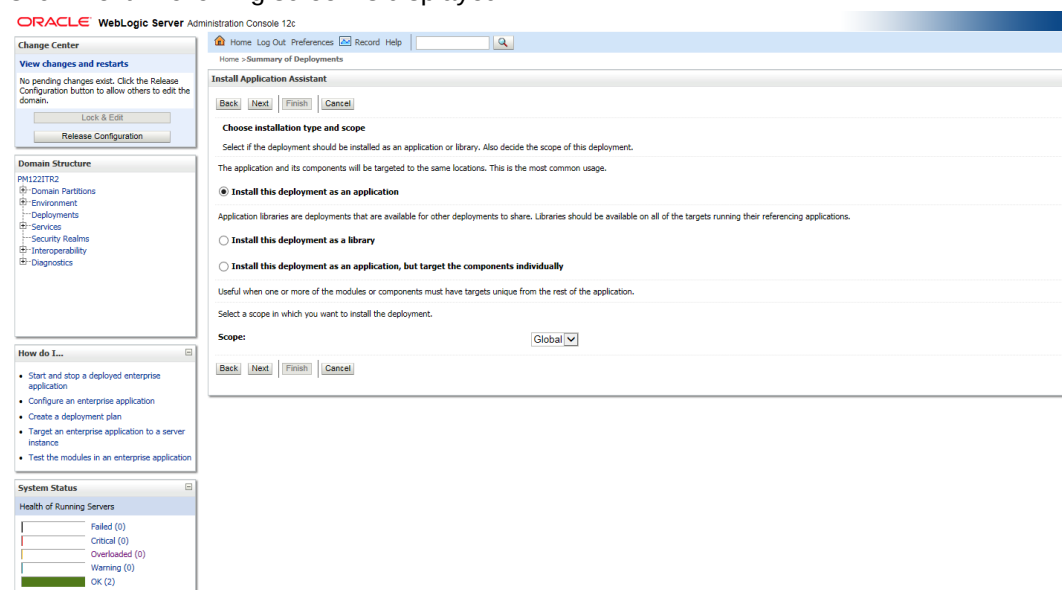
28. Specify the EAR file path. You can use the 'Browse' button to locate the file.

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



30. Select the application from the list.

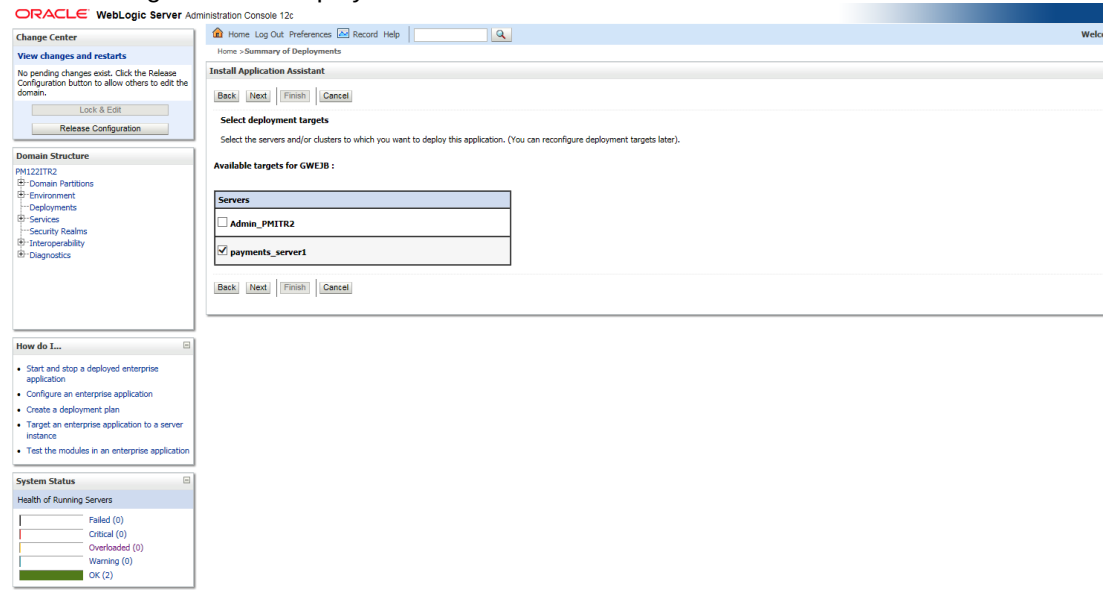
31. Click 'Next'. Following screen is displayed:



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

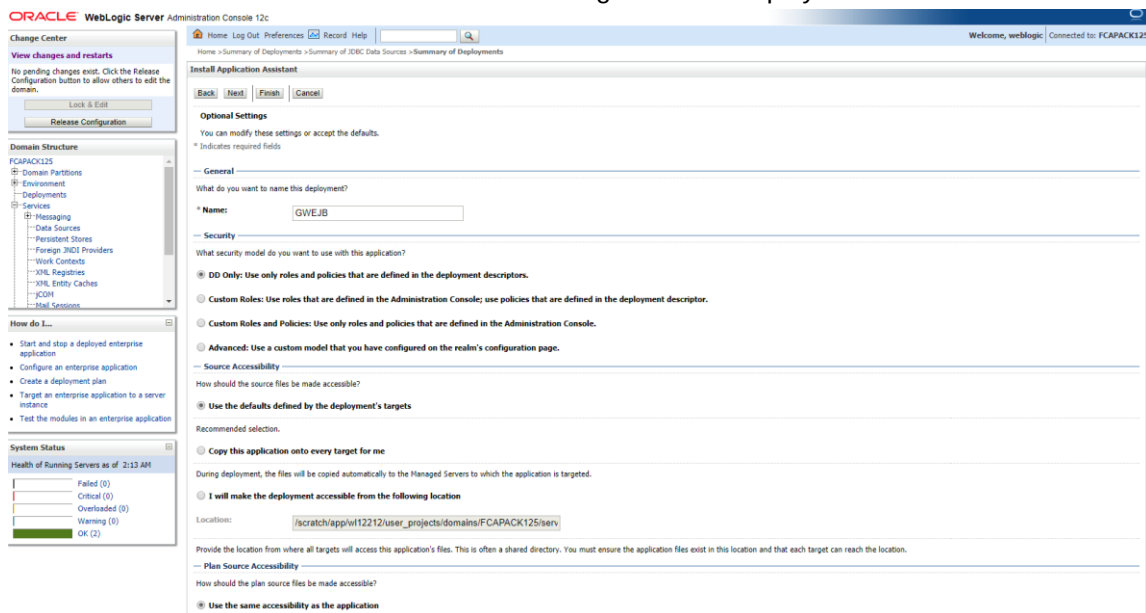
33. Click 'Next'.

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:

General

What do you want to name this deployment?

Name:

Security

What security model do you want to use with this application?

☒ **DD Only:** Use only roles and policies that are defined in the deployment descriptors.

☐ **Custom Roles:** Use roles that are defined in the Administration Console; use policies that are defined in the deployment descriptor.

☐ **Custom Roles and Policies:** Use only roles and policies that are defined in the Administration Console.

☐ **Advanced:** Use a custom model that you have configured on the realm's configuration page.

Source Accessibility

How should the source files be made accessible?

☒ **Use the defaults defined by the deployment's targets**

Recommended selection.

☐ **Copy this application onto every target for me**

During deployment, the files will be copied automatically to the Managed Servers to which the application is targeted.

☐ **I will make the deployment accessible from the following location**

Locations:

Provide the location from where all targets will access this application's files. This is often a shared directory. You must ensure the application files exist in this location and that each target can reach the location.

Plan Source Accessibility

How should the plan source files be made accessible?

☒ **Use the same accessibility as the application**

Recommended selection.

☐ **Copy this plan onto every target for me**

During deployment, the plan files will be copied automatically to the Managed Servers to which the application is targeted.

☐ **Do not copy this plan to targets**

You must ensure the plan files exist in the shared location and that each target can reach the location.

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

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Home > Summary of Deployments

Install Application Assistant

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/PM12212R2/servers/Admin_PM12212R2/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

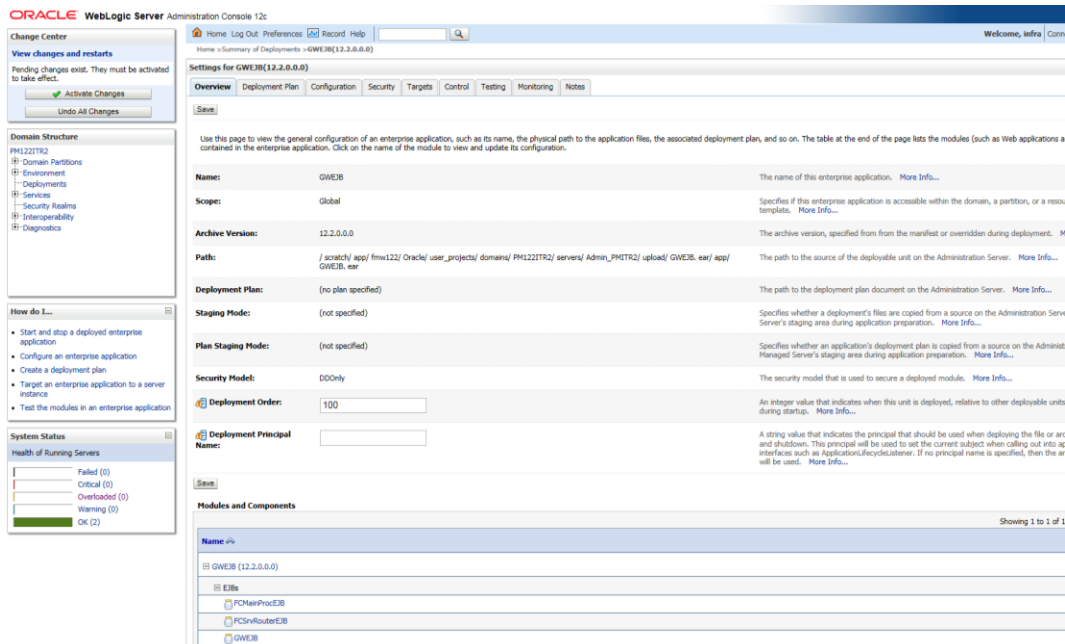
Security Model: DDOnly: Use only roles and policies that are defined in the deployment descriptors.

Scope: Global

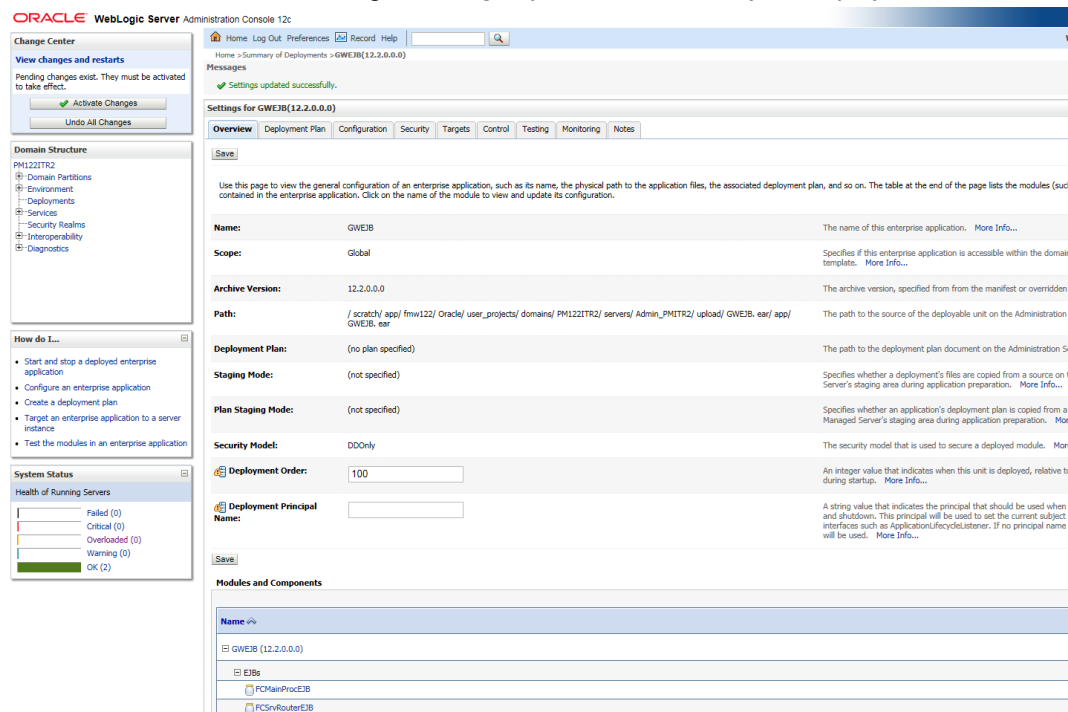
Target Summary

Components	Targets
GWEJB.ear	payments_server1

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



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



39. 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:

Change Center
View changes and restarts
Click the **Lock & Edit** button to modify, add or delete items in this domain.
Lock & Edit
Release Configuration

Domain Structure
PM1221TR2
Domain Partitions
Environment
Deployments
Services
Security Realms
Interoperability
Diagnostics

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

Settings for GWEJB(12.2.0.0.0)
Overview | Deployment Plan | Configuration | Security | Targets | Control | Testing | Monitoring | Notes
Click the **Lock & Edit** button in the Change Center to modify the settings on this page.
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 WebContainer) 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 part template. More Info...
Archive Version:	12.2.0.0.0	The archive version, specified from the manifest or overridden during deployment.
Path:	/scratch/app/finw122/Oracle/user_projects/domains/PM1221TR2/servers/Admin_PMTIR2/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.
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:	DOOnly	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 units during startup. More Info...
Deployment Principal Name:		A string value that indicates the principal that should be used when deploying and shutdown. This principal will be used to set the current subject when calling interfaces such as ApplicationLifecycleListener. If no principal name is specified, the default principal will be used. More Info...

Modules and Components
Show

Name
GWEJB (12.2.0.0.0)
EJBs
PCMainProcEJB
PCSVRouterEJB

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

Change Center
View changes and restarts
Click the **Lock & Edit** button to modify, add or delete items in this domain.
Lock & Edit
Release Configuration

Domain Structure
PM1221TR2
Domain Partitions
Environment
Deployments
Services
Security Realms
Interoperability
Diagnostics

How do I...
Configure an enterprise application
Start applications and modules
Stop applications and modules
View the modules of an enterprise application
Monitor the modules of an enterprise 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 start and stop applications and modules from the domain by selecting the checkbox next to the application name and then using the controls on this page.

Customize this table

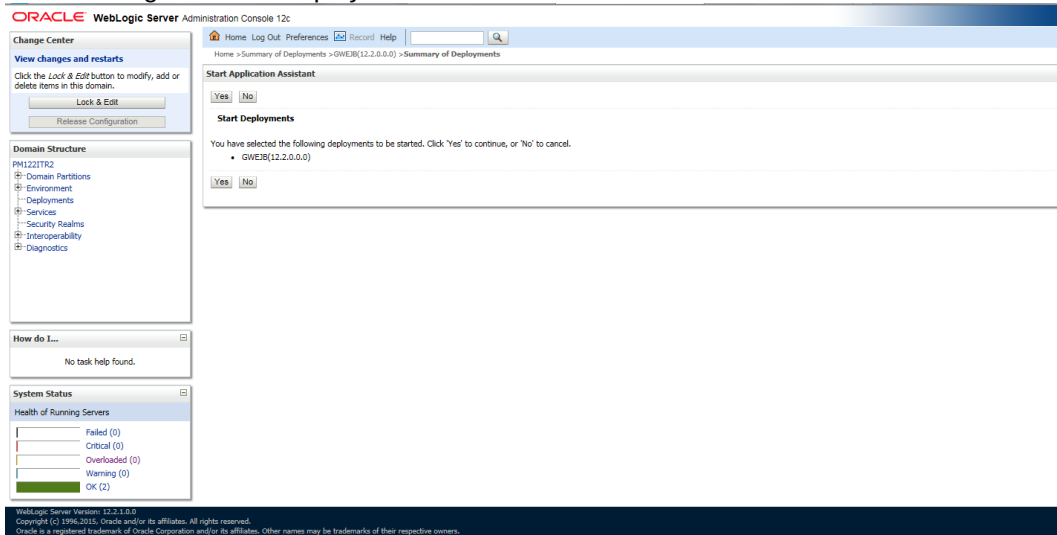
Deployments
Start | Stop | Showing 1 to 8 of 8 | Prev

Name	State	Health	Type	Targets	Scope	Domain Partition
Servicing all requests	Active	OK	Resource Adapter	Admin_PMTIR2	Global	
Servicing only administration requests	Active	OK	Web Application	Admin_PMTIR2	Global	
DMS Application (12.2.1.0.0)	Active	OK	Enterprise Application	Admin_PMTIR2	Global	
en	Active	OK	Enterprise Application	payments_server1	Global	
FCUBSApp (12.2.0.0.0)	Active	Warning	Enterprise Application	payments_server1	Global	
GWEJB (12.2.0.0.0)	Prepared	OK	Enterprise Application	payments_server1	Global	
opss-rest	Active	OK	Web Application	Admin_PMTIR2	Global	
PaymentStubs	Active	OK	EJB	payments_server1	Global	
state-management-provider-memory-rar	Active	OK	Resource Adapter	Admin_PMTIR2	Global	

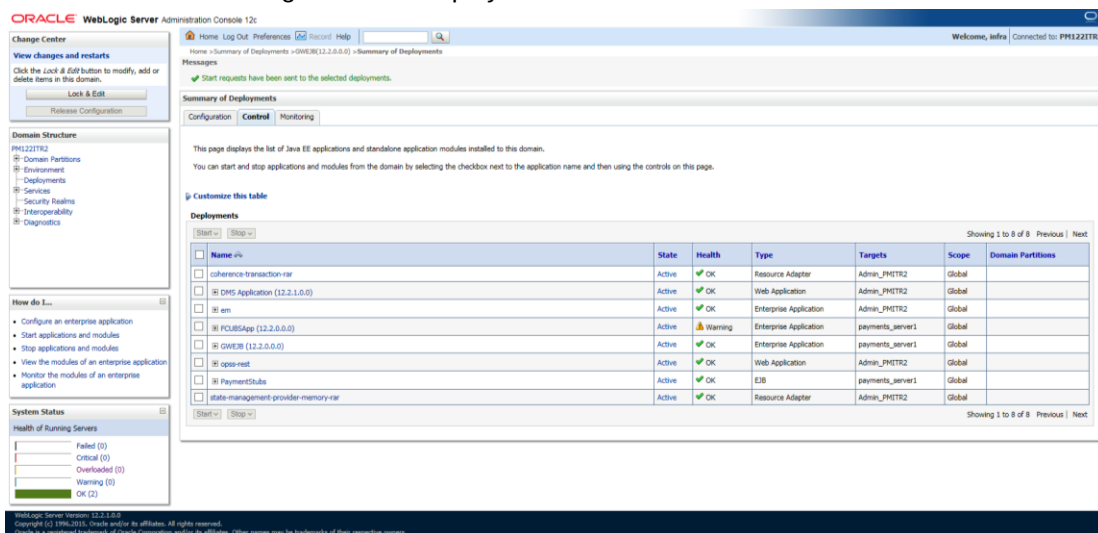
Showing 1 to 8 of 8 | Prev

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

41. The following screen is displayed.



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



This completes the deployment process.

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



Deploying Oracle FLEXCUBE on WebLogic
[May] [2020]
Version 14.4.0.0.0

Oracle Financial Services Software Limited
Oracle Park
Off Western Express Highway
Goregaon (East)
Mumbai, Maharashtra 400 063
India

Worldwide Inquiries:
Phone: +91 22 6718 3000
Fax: +91 22 6718 3001
<https://www.oracle.com/industries/financial-services/index.html>

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