

Deploying Oracle FLEXCUBE Application on WebLogic
Oracle FLEXCUBE Universal Banking
Release 14.4.0.2.0
[November] [2020]



Table of Contents

- 1. DEPLOYING ORACLE FLEXCUBE ON WEBLOGIC 1-1**
 - 1.1 INTRODUCTION 1-1
 - 1.2 BUILDING APPLICATION 1-1
 - 1.2.1 *Building Application in Centralized Mode* 1-1
 - 1.2.2 *Building Application in Decentralized Mode*..... 1-1
 - 1.3 DEPLOYING APPLICATION IN ORACLE WEBLOGIC 1-1
 - 1.3.1 *Deploying Integration Adapter EAR from WebLogic Administration Console* 1-1
 - 1.3.2 *Deploying Dependency Library “Jax-RS”* 1-7
 - 1.3.3 *Deploying FCUBS Application from WebLogic Administration Console* 1-11
 - 1.3.4 *Deploying Gateway/Scheduler Applications from WebLogic Administration Console* 1-19

1. Deploying Oracle FLEXCUBE on WebLogic

1.1 Introduction

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

1.2 Building Application

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

1.2.1 Building Application in Centralized Mode

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

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

1.2.2 Building Application in Decentralized Mode

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

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

1.3 Deploying Application in Oracle WebLogic

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

1.3.1 Deploying Integration Adapter EAR from WebLogic Administration Console

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

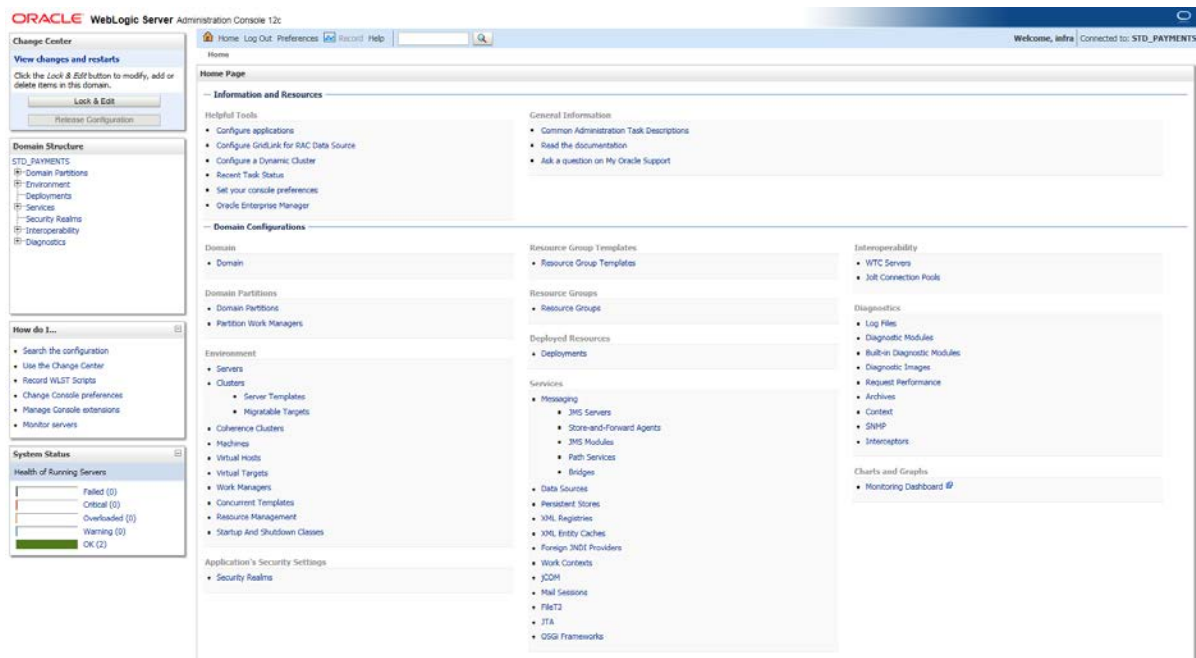
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser.

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

The following screen is displayed:

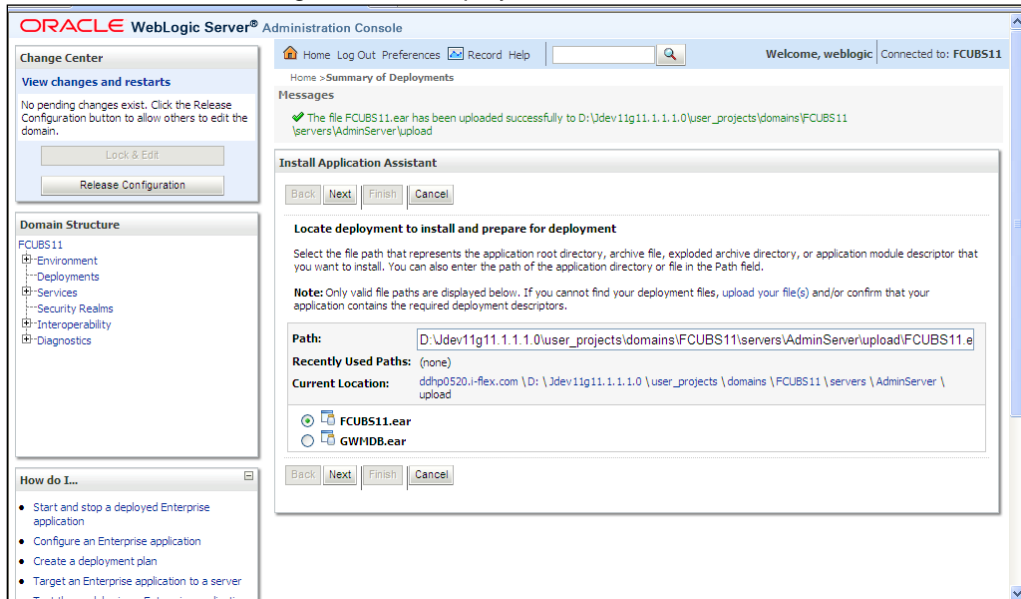


- Specify the WebLogic administrator user name and password. Click 'Log In'.



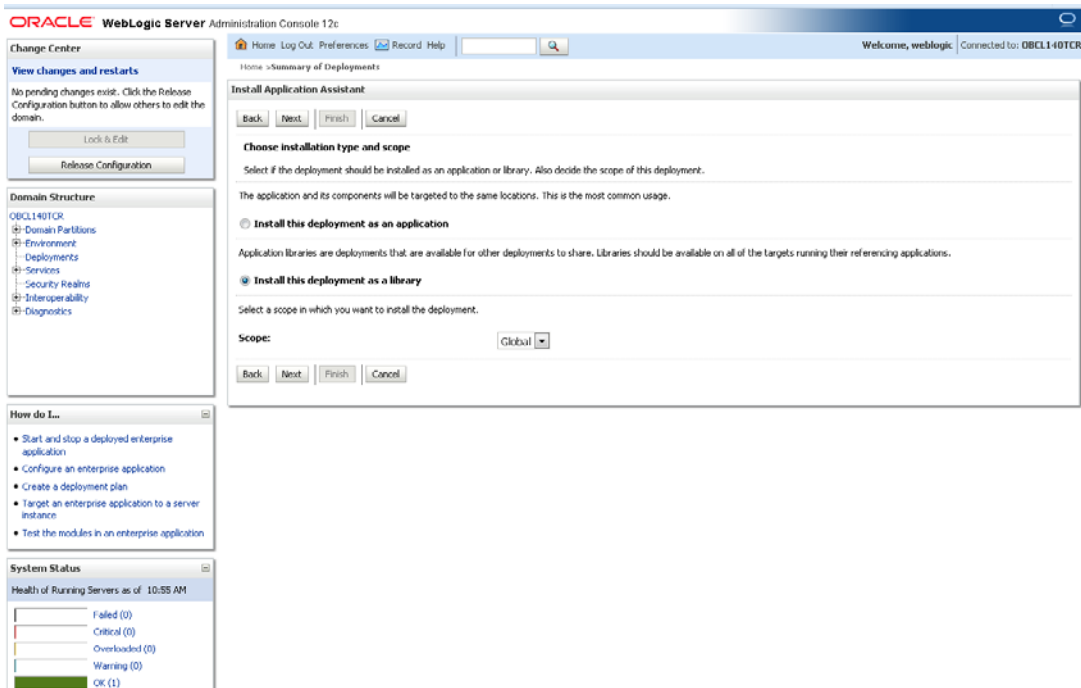
- You need to deploy an Integration adapter EAR. For e.g. 'OBCLExtAdapter.ear or ExtAdapter.ear'. Go to 'Deployment'.
Click 'Lock & Edit' button to enable the buttons. This action enables the buttons.

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



8. Select the application Adapter EAR from the list.

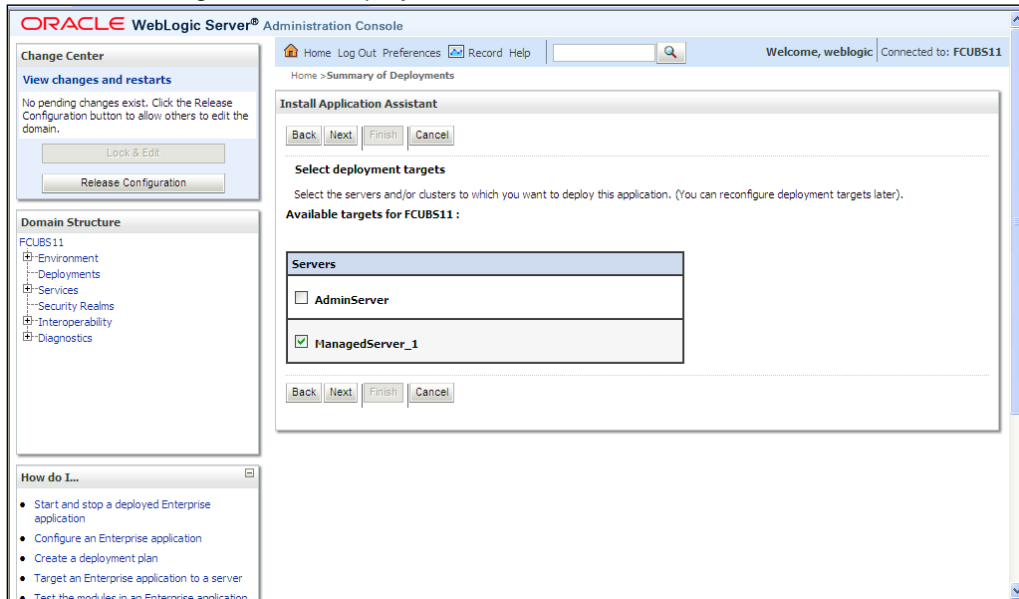
9. Click 'Next'. Following screen is displayed:



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

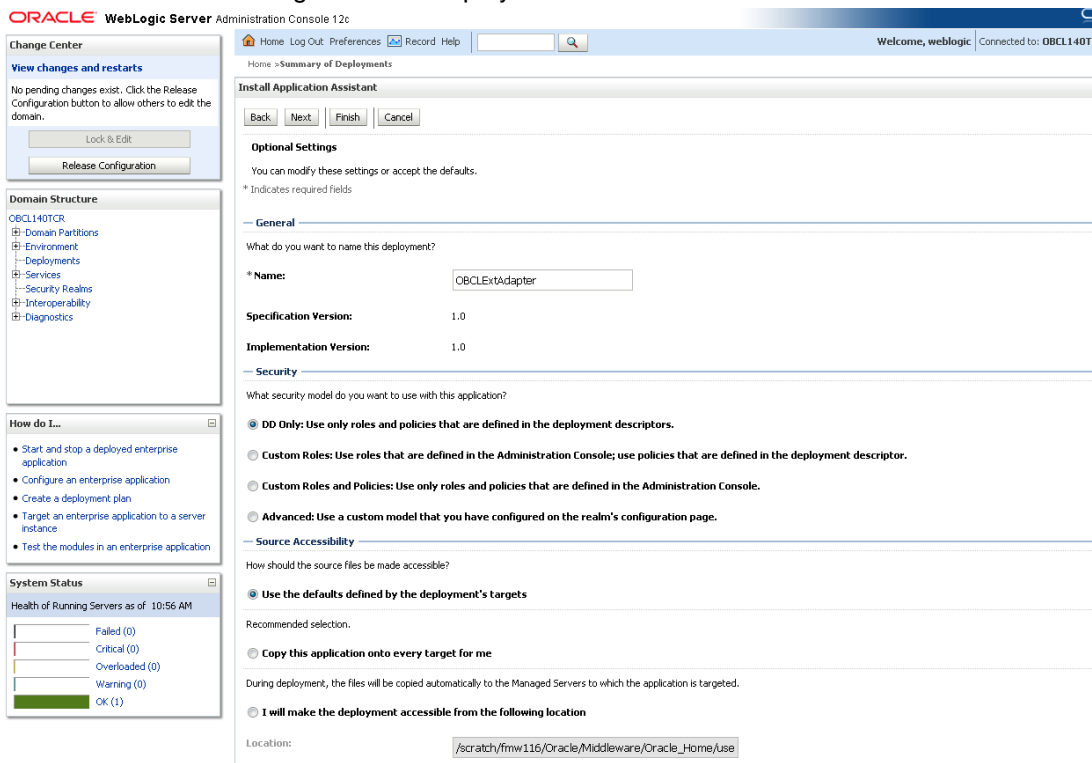
11. Click 'Next'.

12. The following screen is displayed



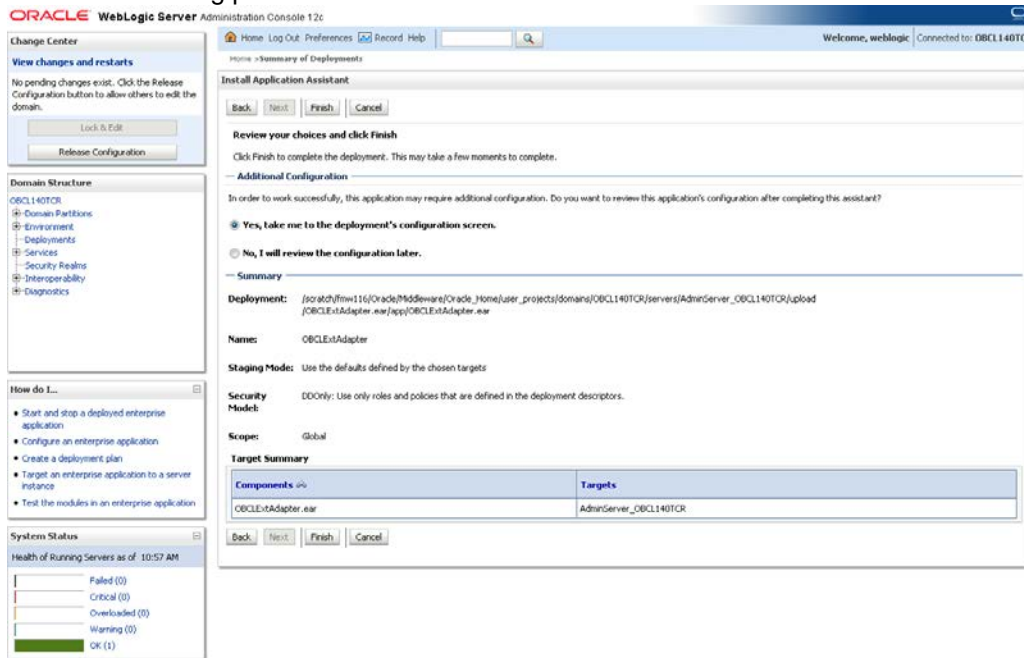
13. Select the target of the application. You can choose the server 'AdminServer' or 'Managed Server(s)'.

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

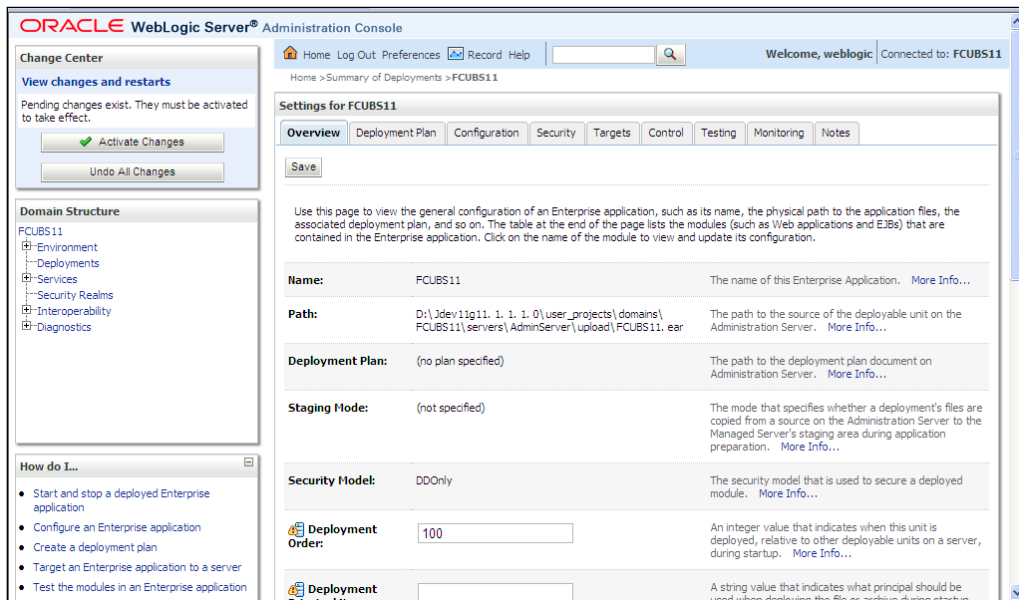


15. Check the deployment name.

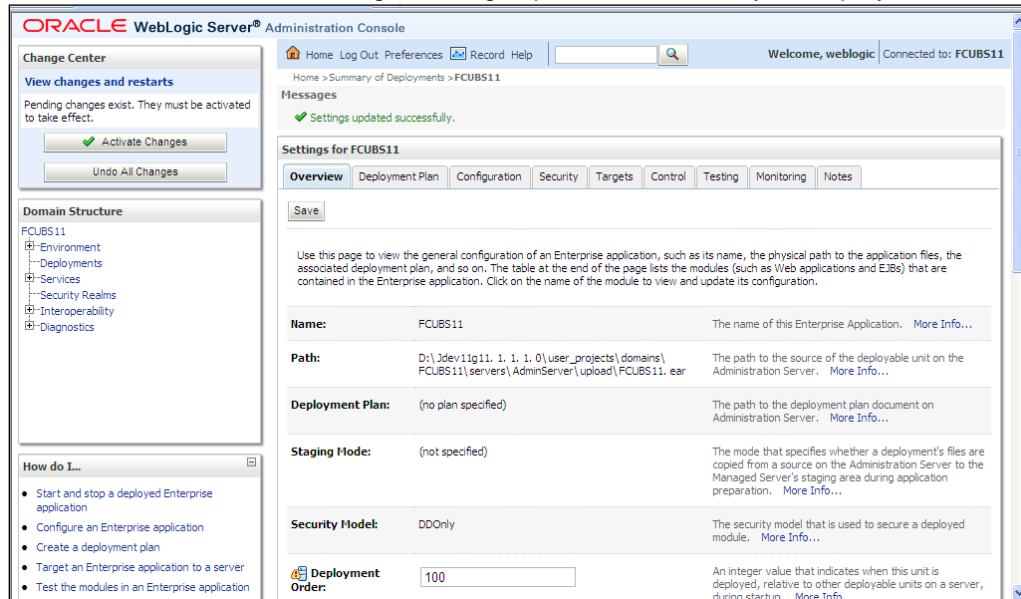
16. The remaining portion of the screen is shown below:



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



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



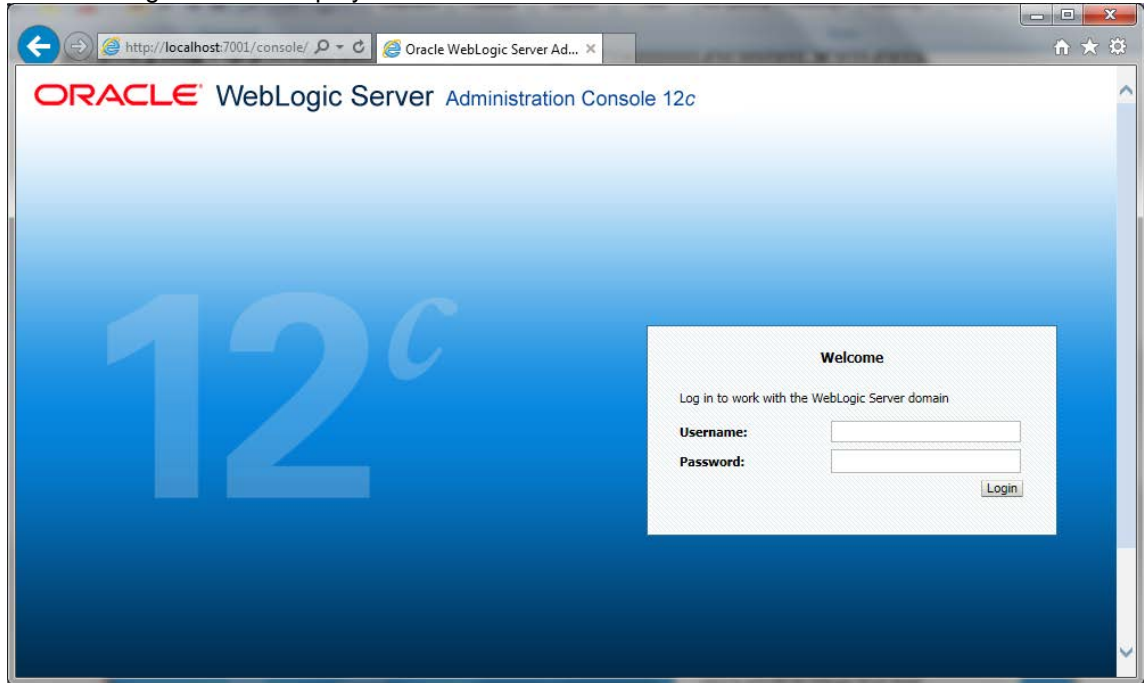
19. Click 'Activate Changes' button on the left pane. The message 'All the changes have been activated. No restarts are necessary' is displayed.

1.3.2 Deploying Dependency Library "Jax-RS"

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

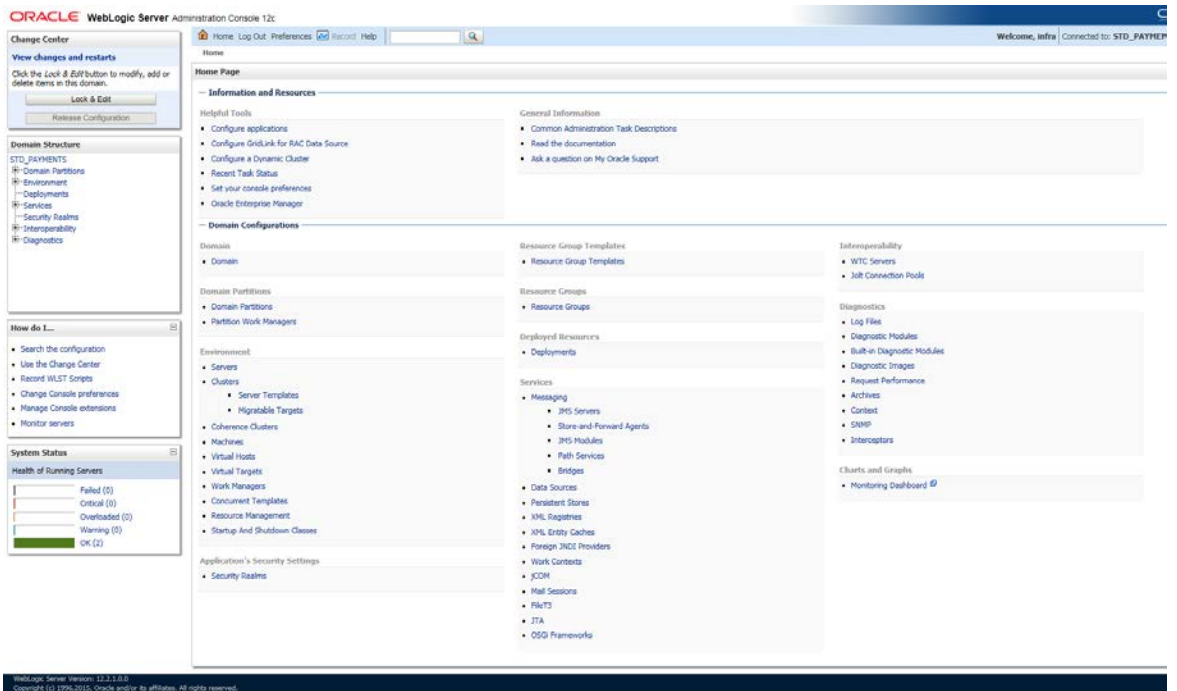
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser.
Eg: <http://10.10.10.10:1001/console>

2. The following screen is displayed:

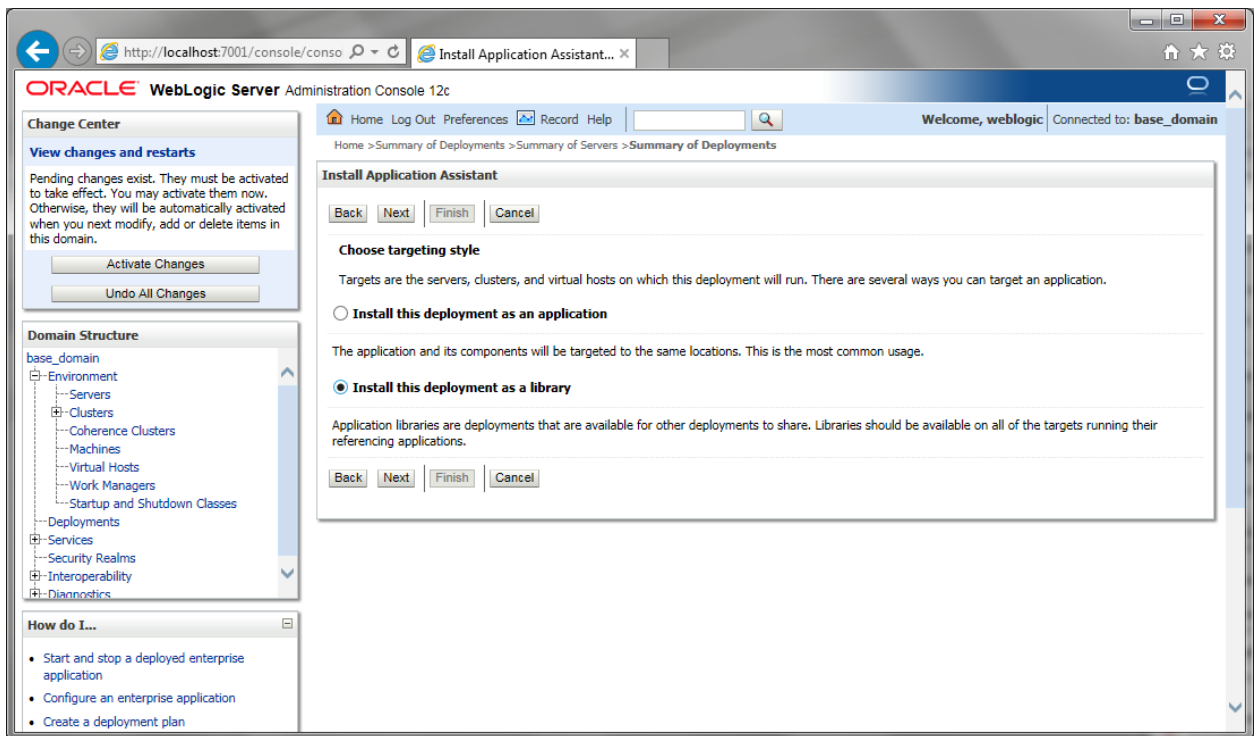


3. Specify the WebLogic administrator user name and password. Click 'Log In'.

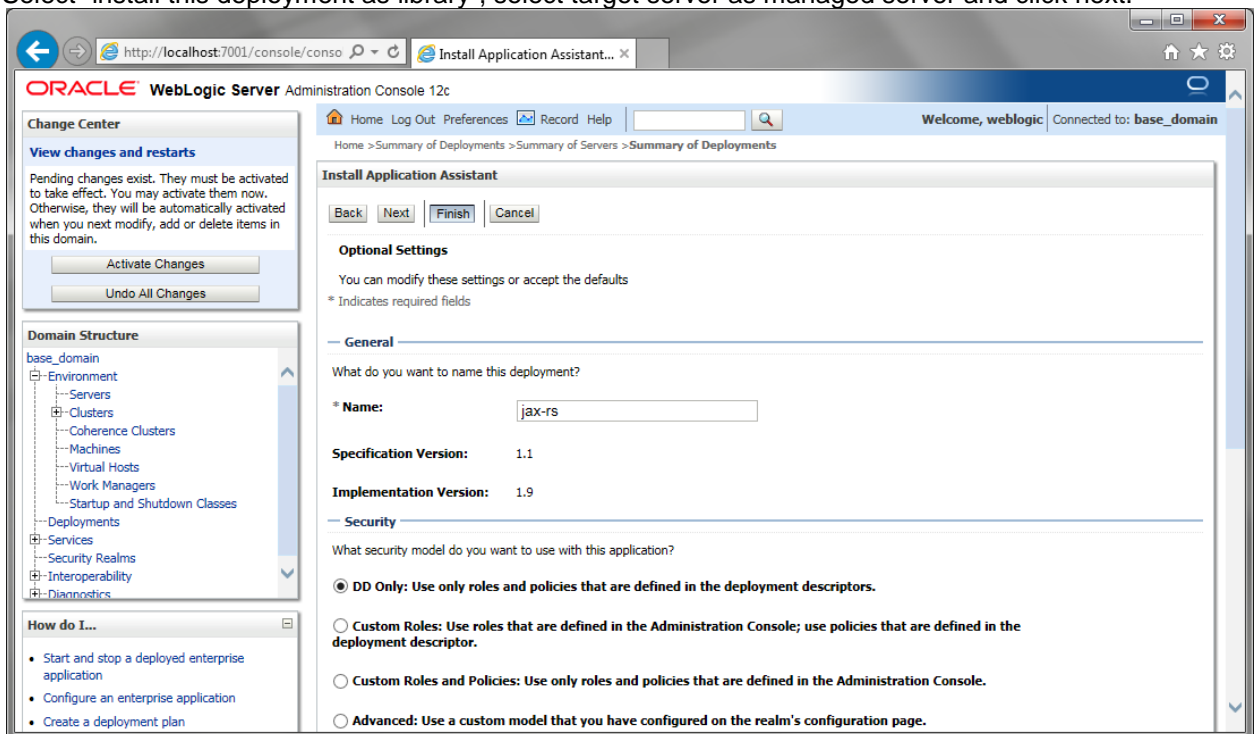
The following screen is displayed:



4. Click install button



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.

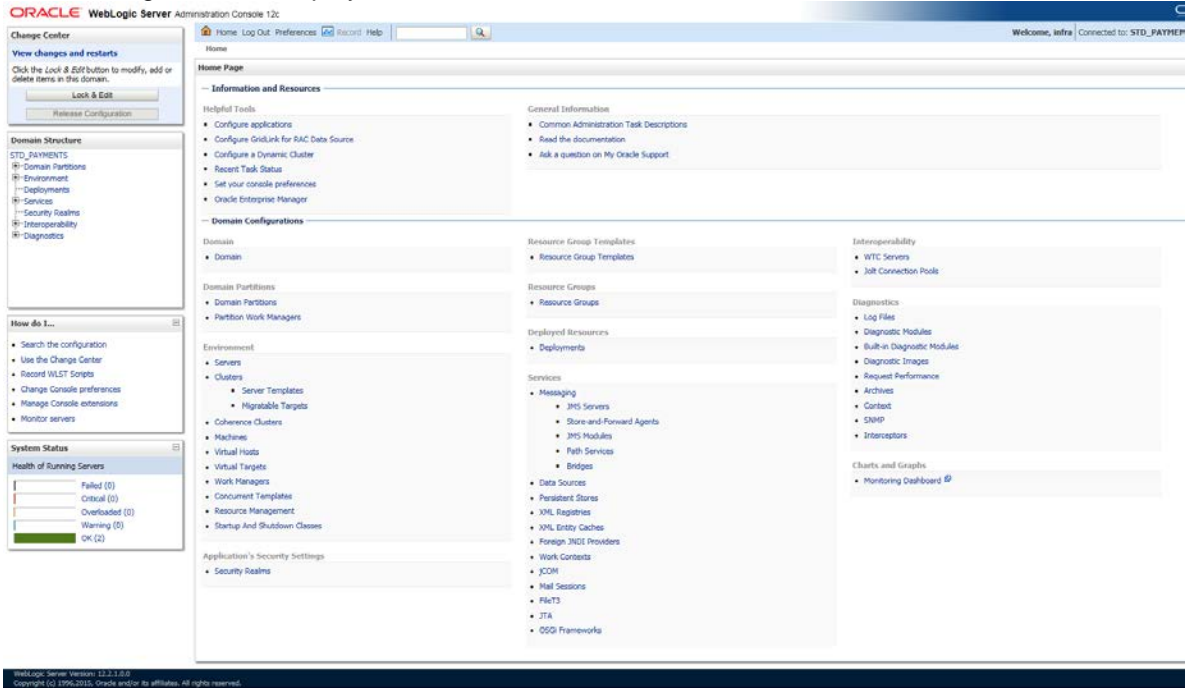
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser.
Eg: <http://10.10.10.10:1001/console>

The following screen is displayed:



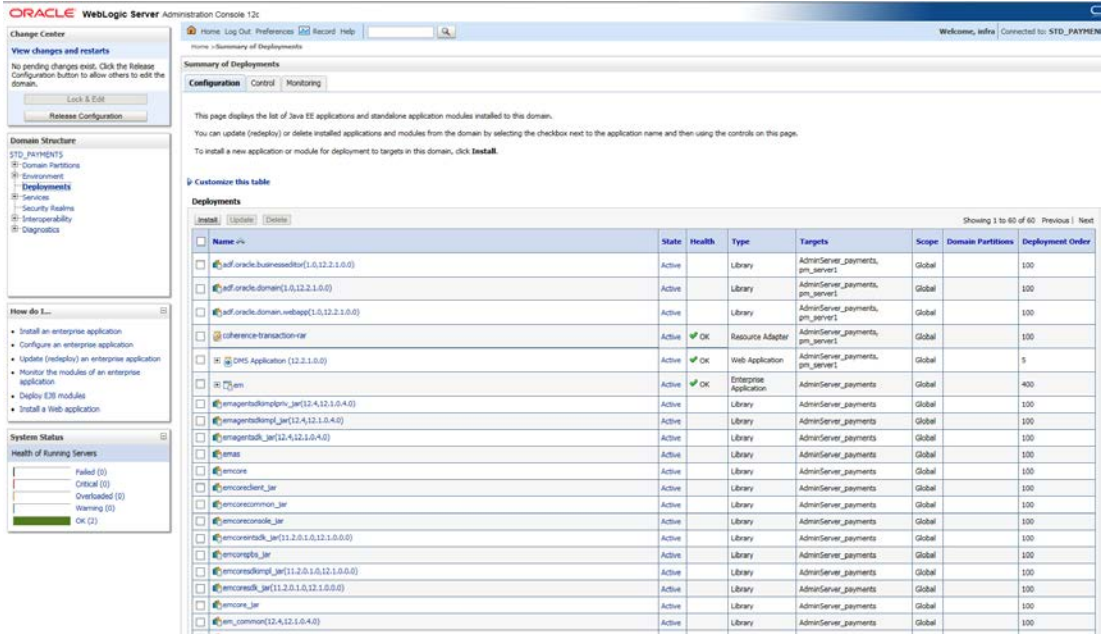
2. Specify the WebLogic administrator user name and password. Click ‘Log In’.

The following screen is displayed:

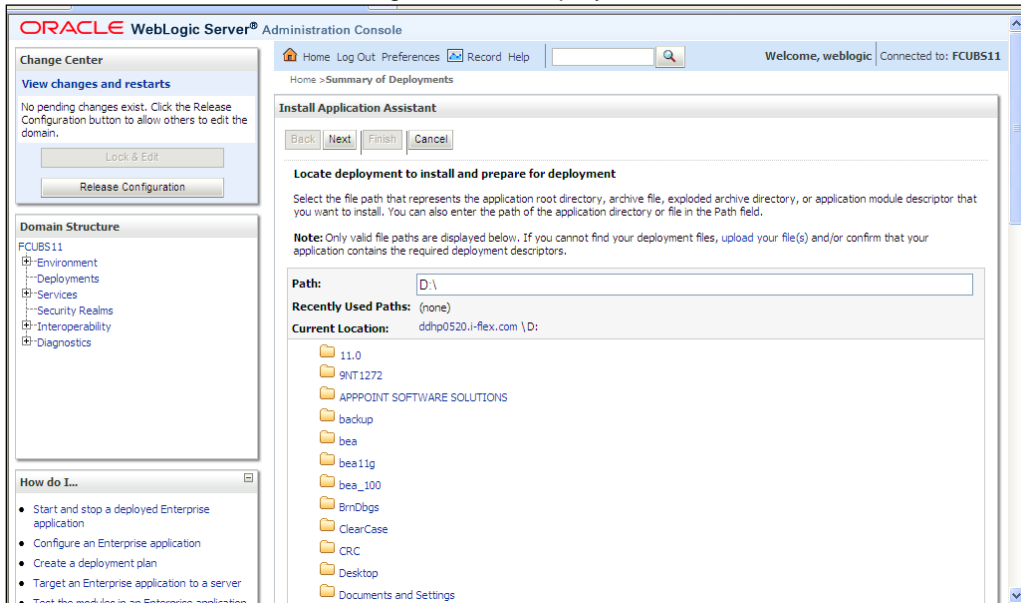


3. You need to deploy an EAR. For e.g. 'FCUBSApp.ear'. Go to 'Deployment'.

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

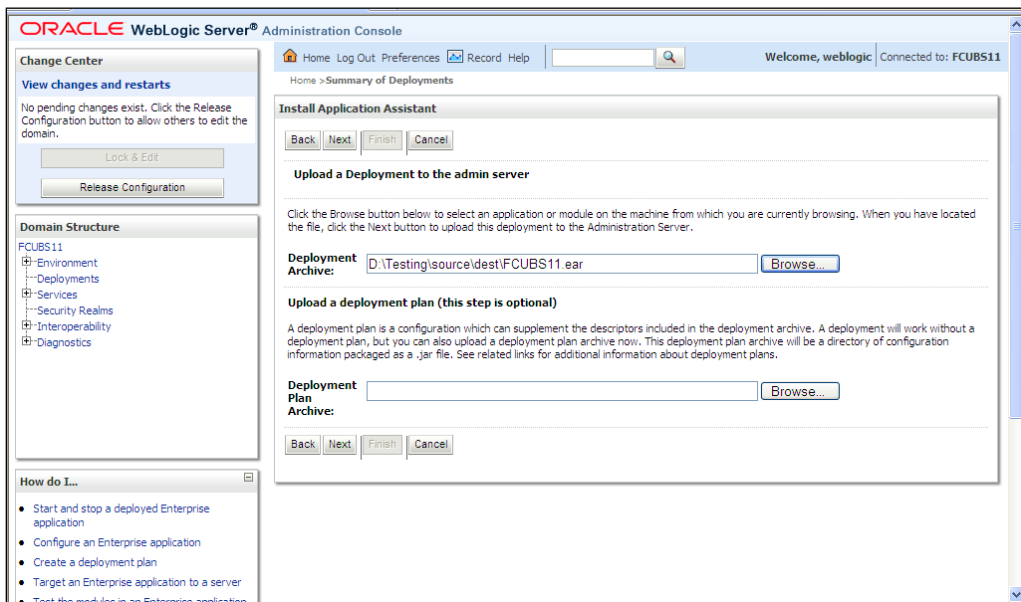


4. Click 'Install' button. The following screen is displayed:



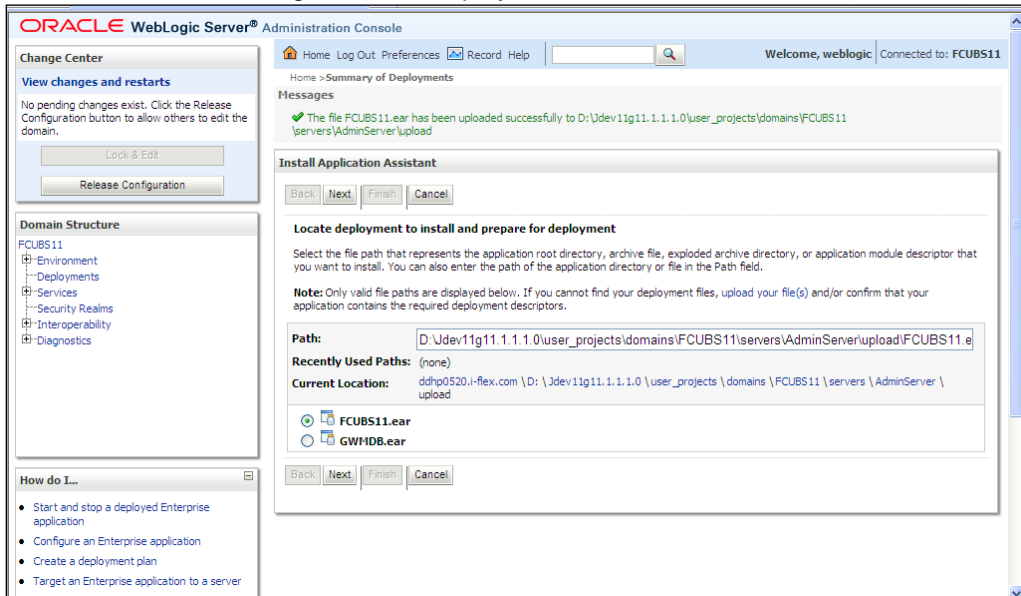
5. In order to specify the path/location of the enterprise archive file, click the link 'upload your file(s)'.

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



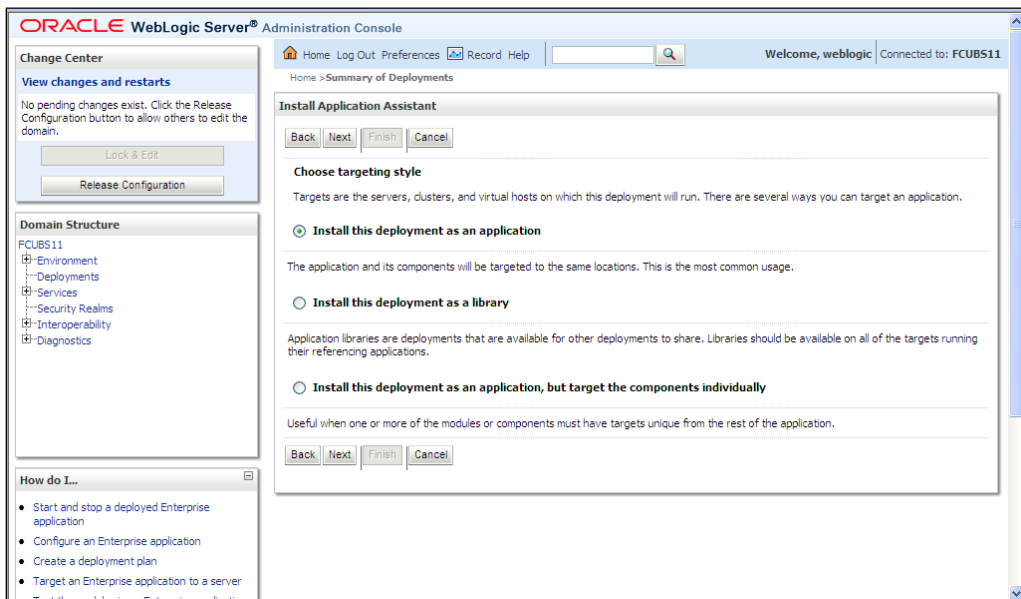
7. Specify the EAR file path. You can use the 'Browse' button to locate the file.

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



9. Select the application FCUBS EAR from the list.

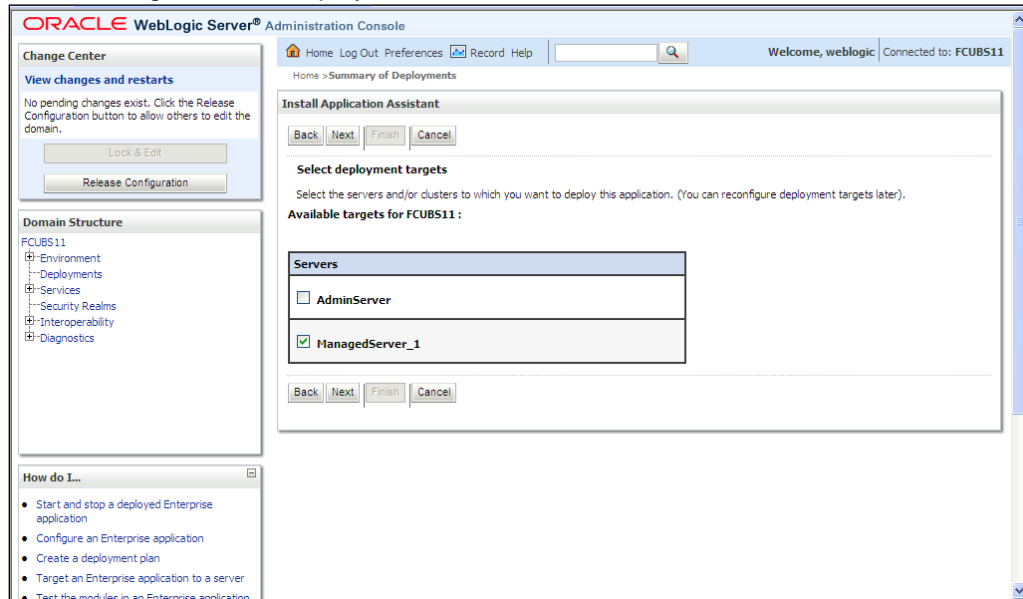
10. Click 'Next'. Following screen is displayed:



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

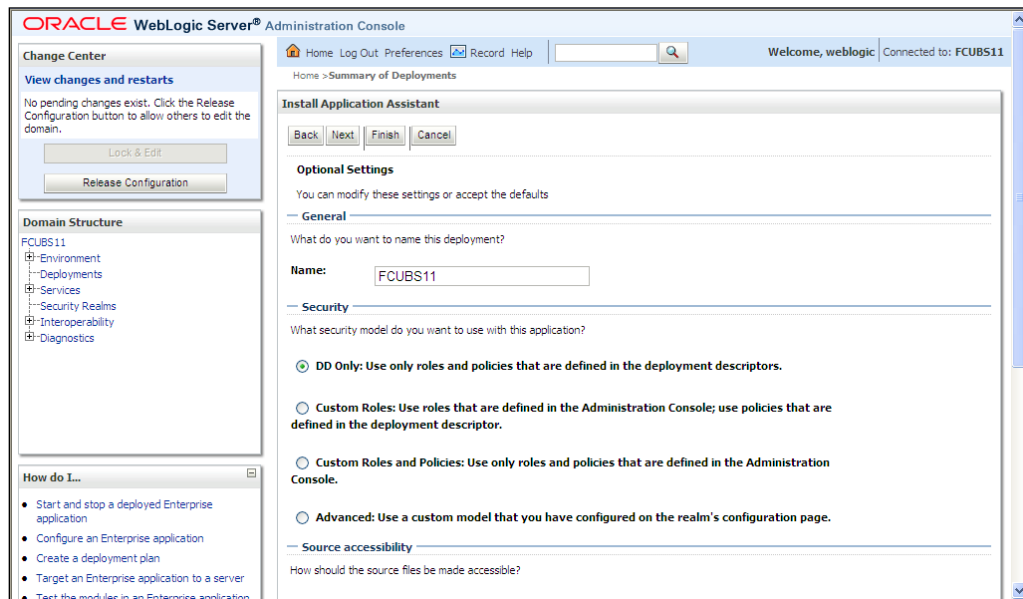
12. Click 'Next'.

The following screen is displayed



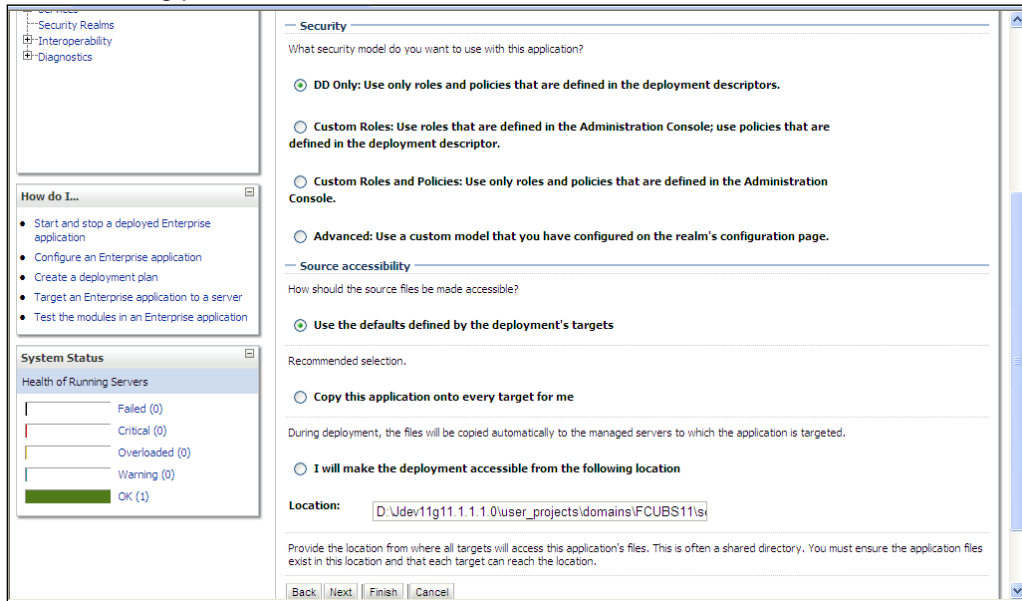
13. Select the target of the application. You can choose the server 'AdminServer' or 'Managed Server(s)'.

14. Click 'Next'. The following screen appears.



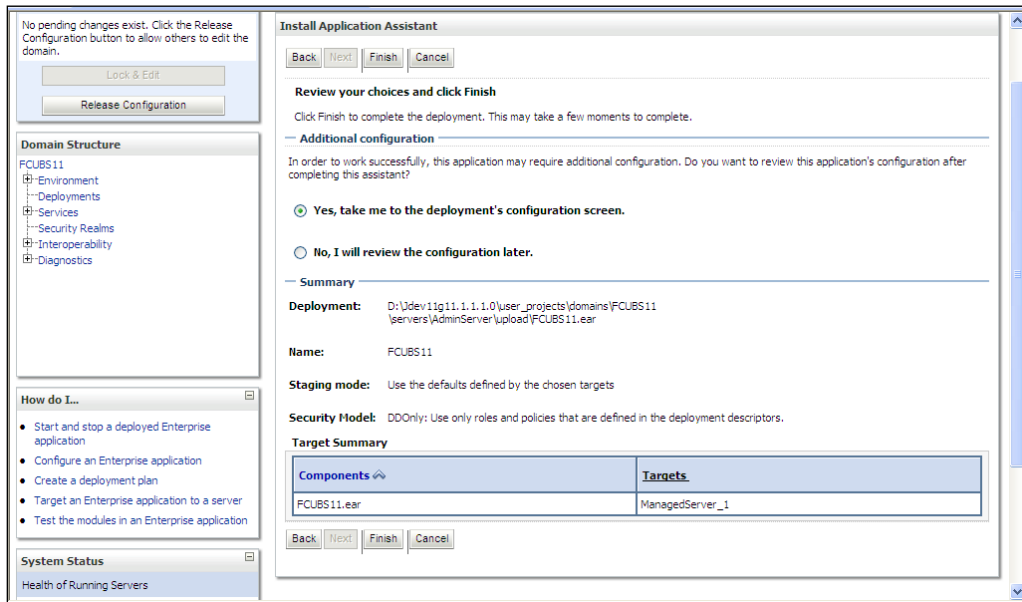
15. Check the deployment name.

The remaining portion of the screen is shown below:



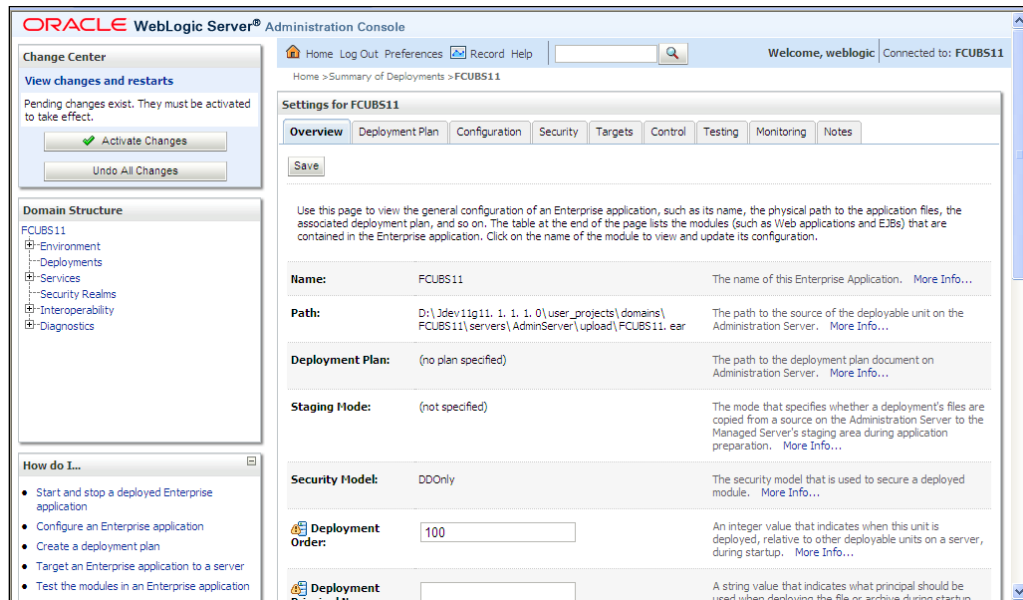
16. Check whether the deployment location is accessible or not.

The following screen is displayed.

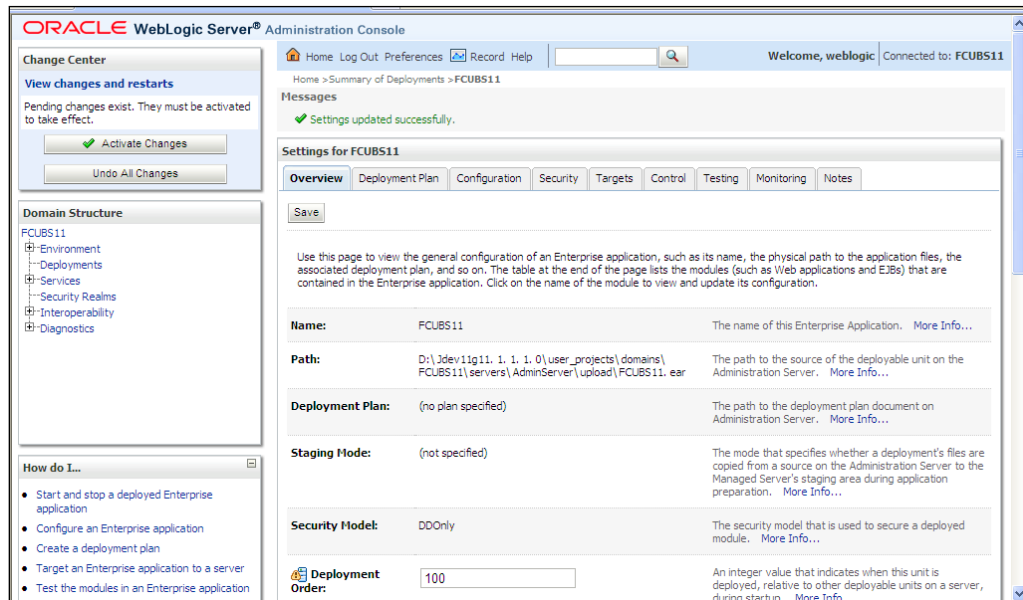


17. Click 'Finish' button. The following screen is displayed.

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

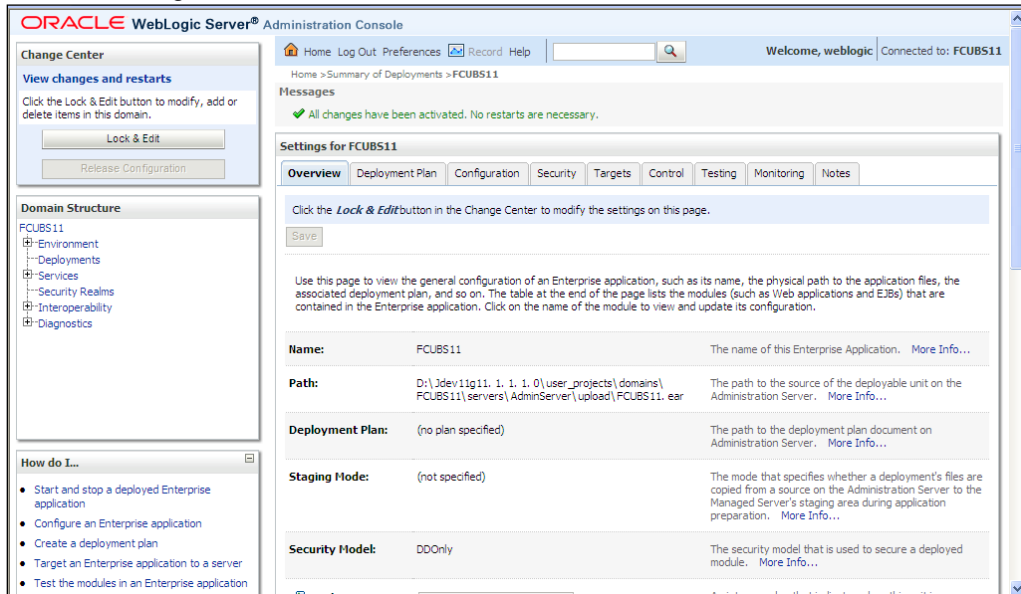


18. Click 'Save' button. The message 'Settings updated successfully' is displayed.

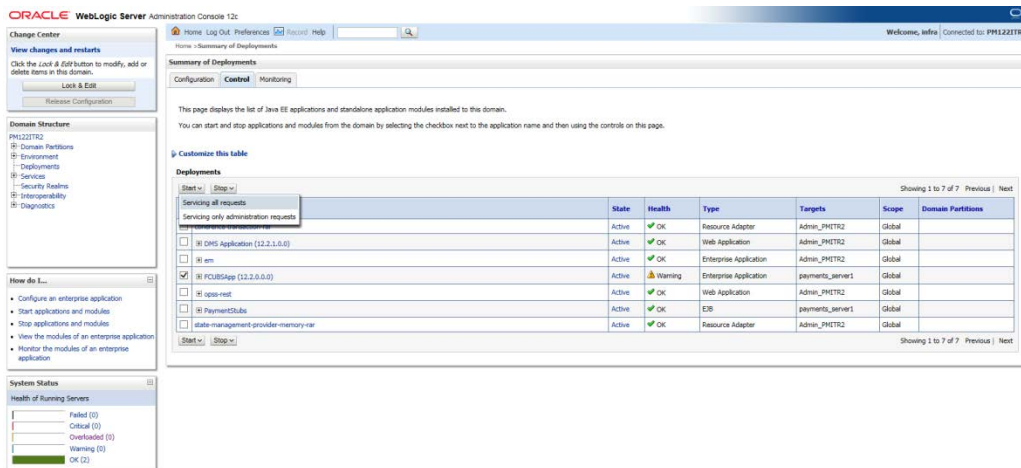


19. Click 'Activate Changes' button on the left pane. The message 'All the changes have been activated. No restarts are necessary' is displayed.

The screen is given below:

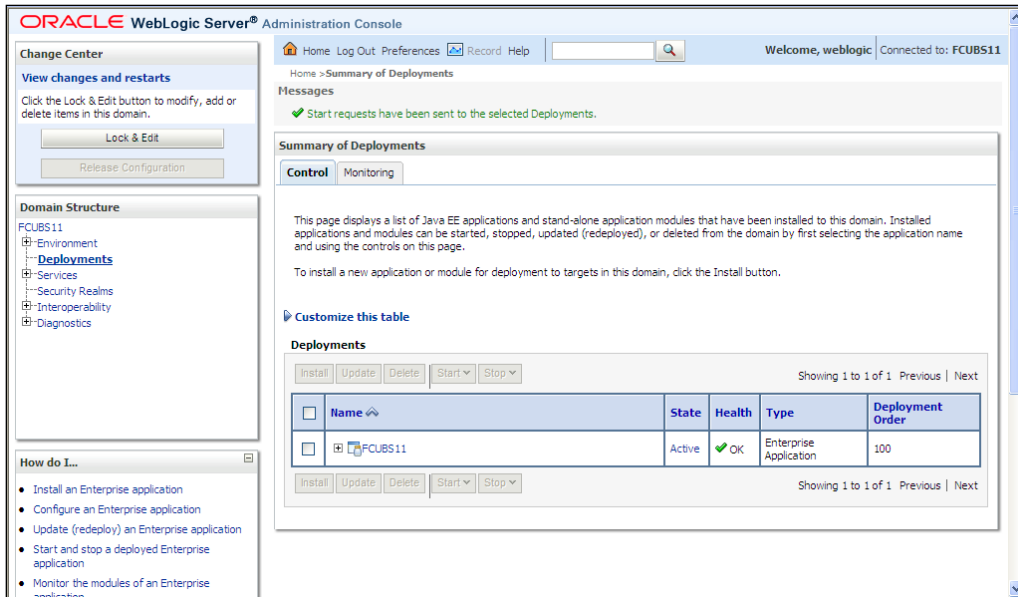
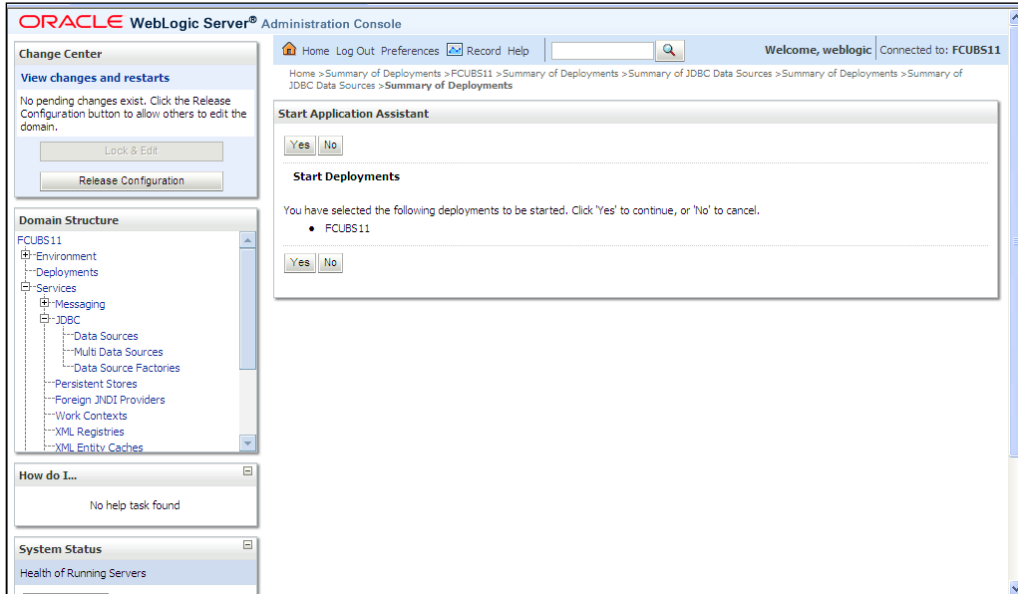


Click 'Deployment' on the left pane. Switch to Control tab .The following screen is displayed.



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.

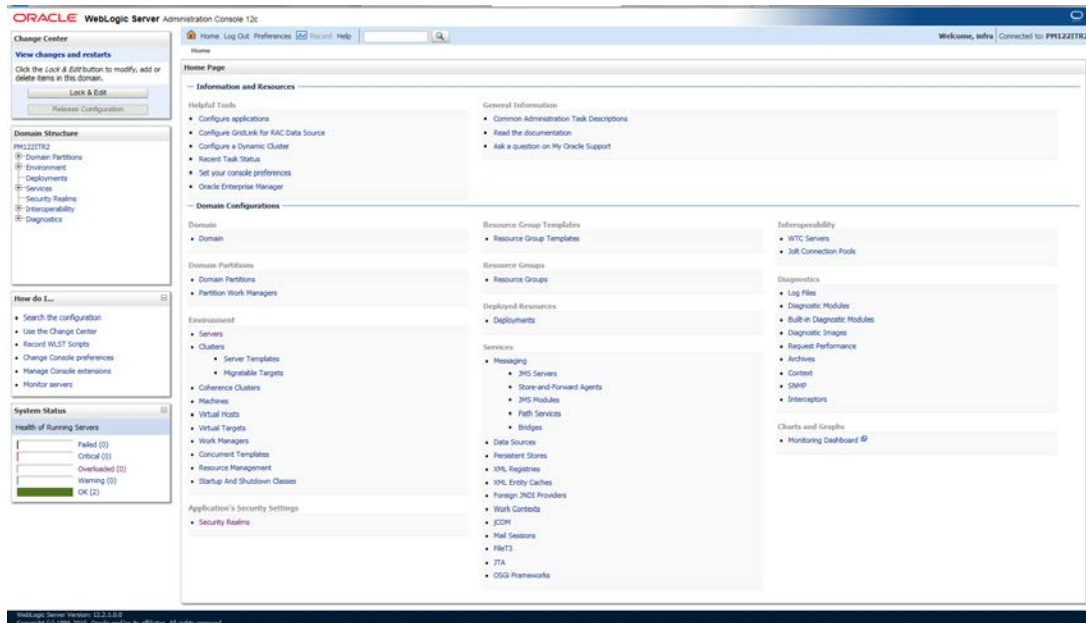
1. Launch Administrative Console of WebLogic application server. You can launch this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser.
Eg: `http://10.10.10.10:1001/console`

22. The following screen is displayed:



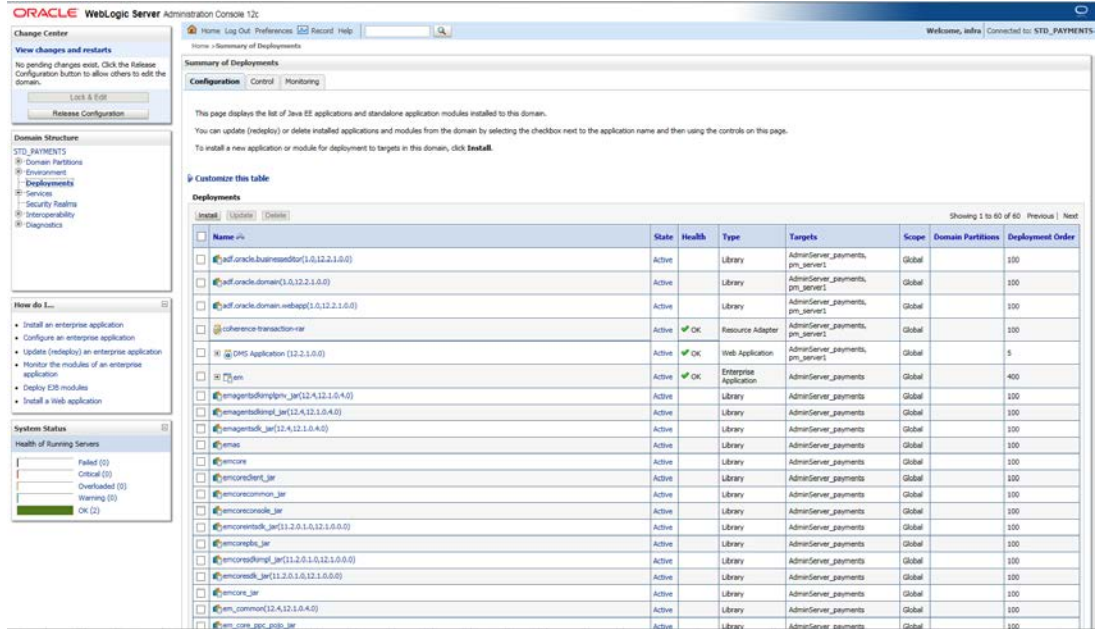
23. Specify the WebLogic administrator user name and password. Click 'Log In'.

The following screen is displayed:

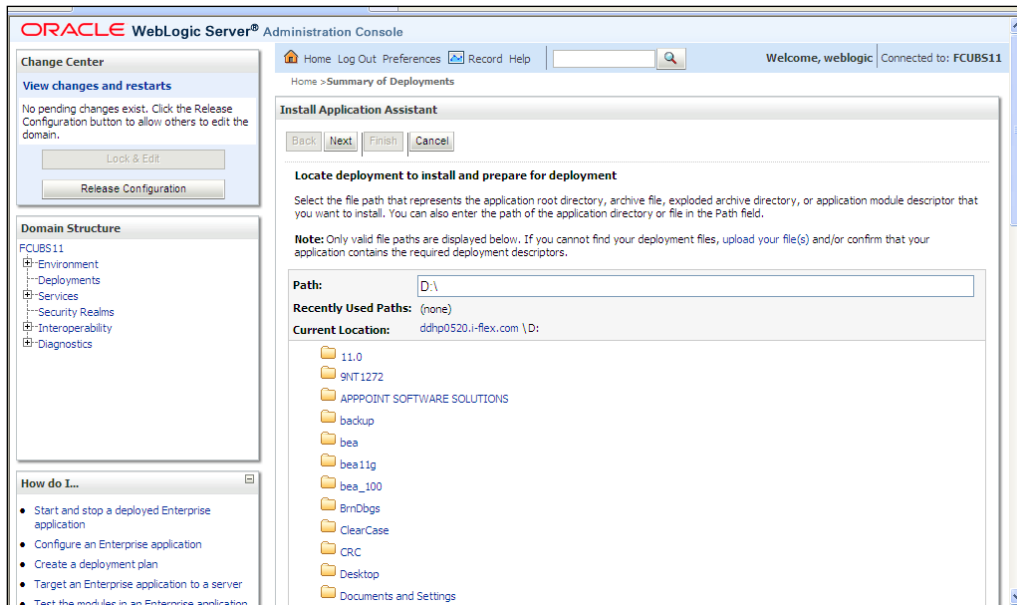


24. You need to deploy an EAR. For e.g. 'GWEJB.ear'. Go to 'Deployment'.

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

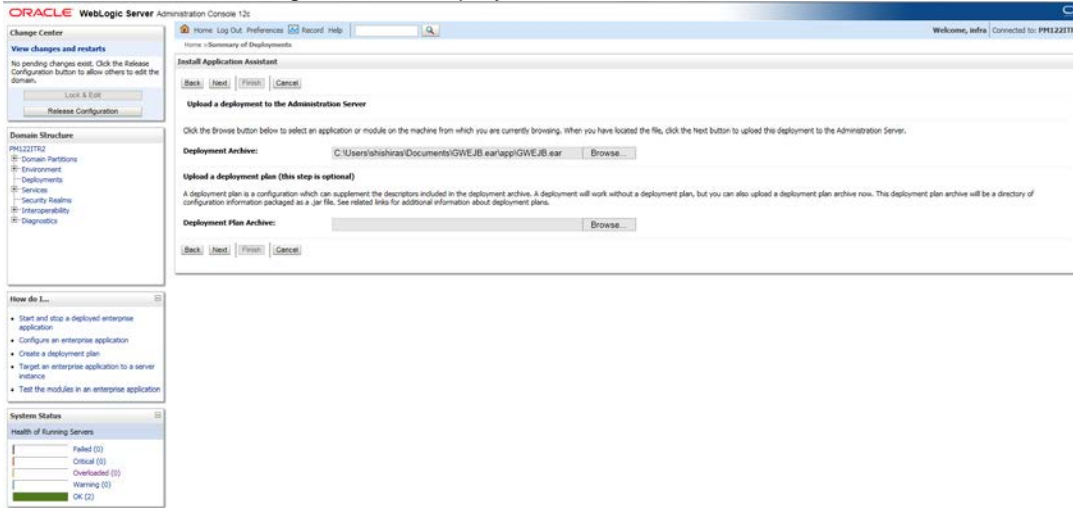


25. Click 'Install' button. The following screen is displayed:



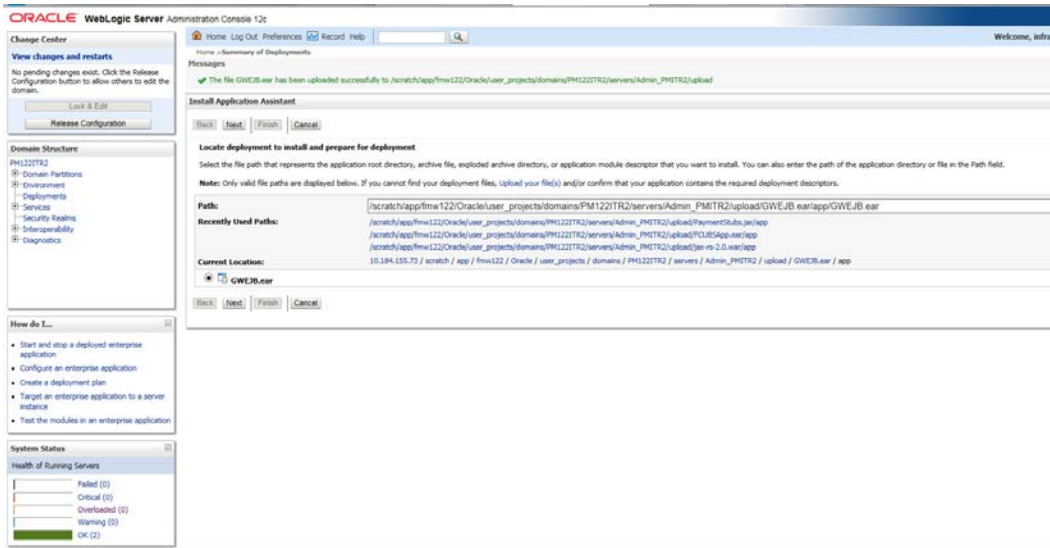
26. In order to specify the path/location of the enterprise archive file, click the link 'upload your file(s)'.

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



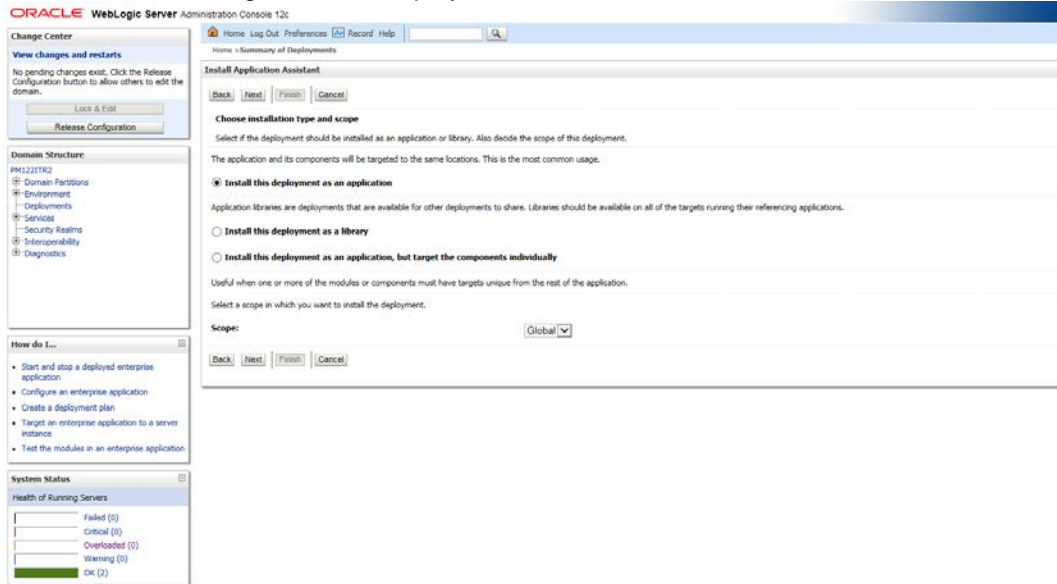
28. Specify the EAR file path. You can use the 'Browse' button to locate the file.

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



30. Select the application from the list.

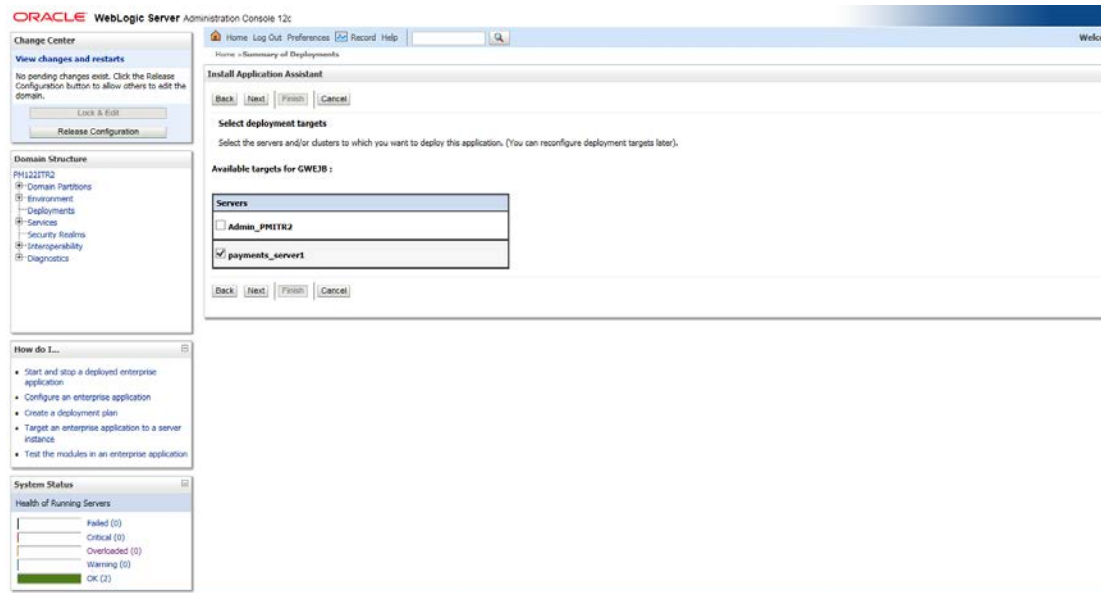
31. Click 'Next'. Following screen is displayed:



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

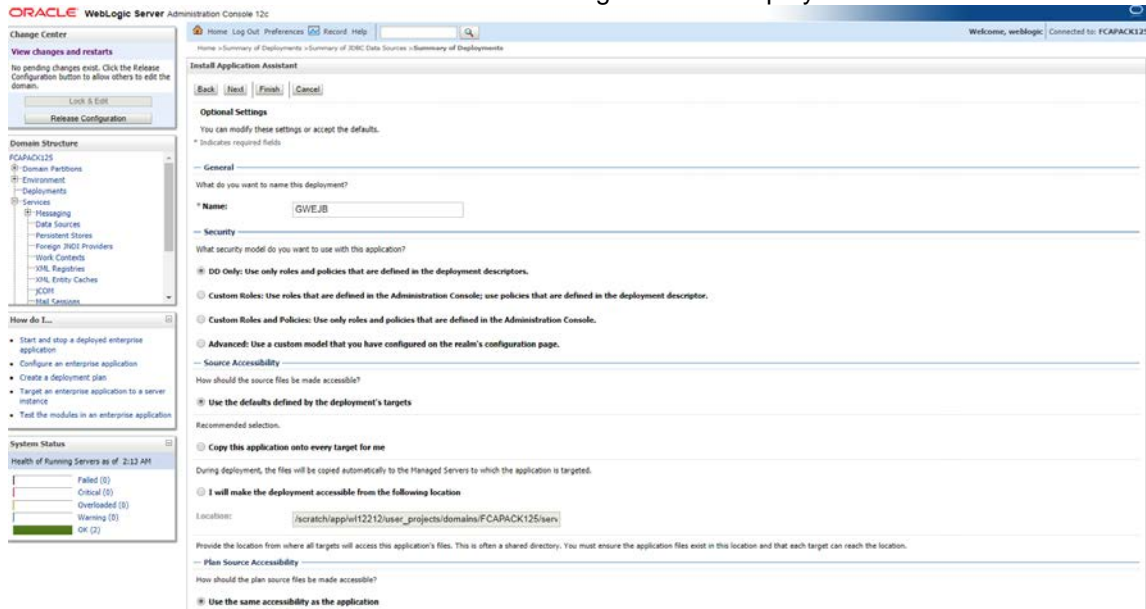
33. Click 'Next'.

The following screen is displayed



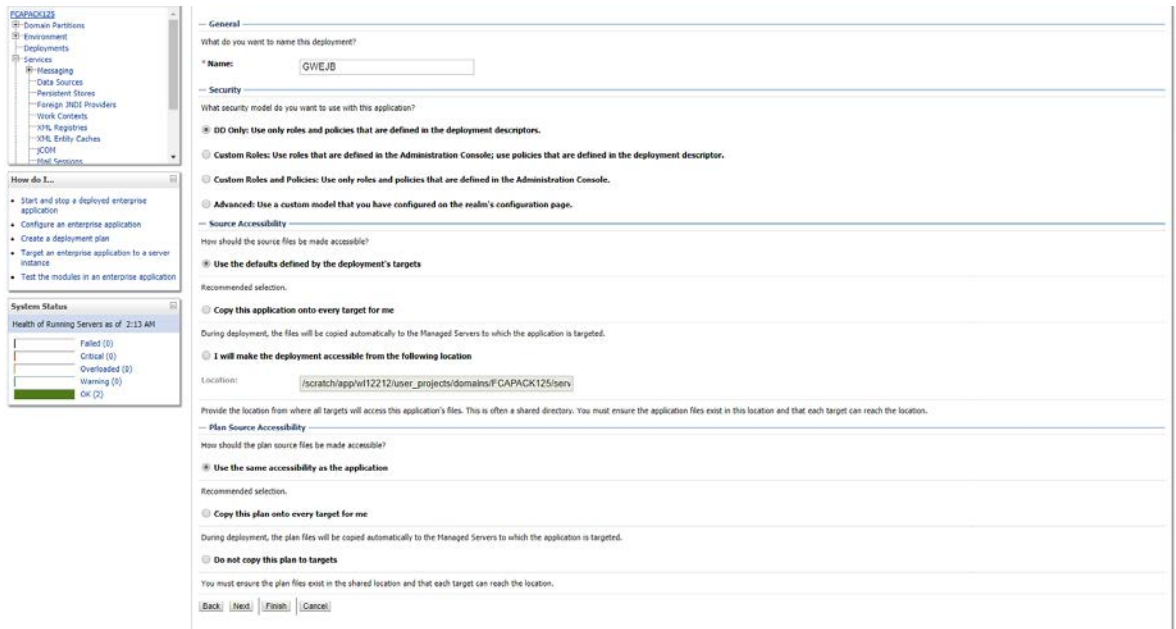
34. Select the target of the application. You can choose the server 'AdminServer' or 'Managed Server(s)'.

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



36. Check the deployment name.

The remaining portion of the screen is shown below:



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

The screenshot shows the Oracle WebLogic Server Administration Console interface. The main content area is titled "Install Application Assistant" and displays the following information:

- Deployment:** (/scratch/app/fmw122/Oracle/user_projects/domains/PM122TR2/servers/Admin_PM122TR2/upload/GWE3B.ear/app/GWE3B.ear)
- Name:** GWE3B
- Staging Mode:** Use the defaults defined by the chosen targets
- Plan Staging Mode:** Use the same accessibility as the application
- Security Mode:** DOOnly: Use only roles and policies that are defined in the deployment descriptors.
- Scope:** Global

The **Target Summary** table is as follows:

Components	Targets
GWE3B.ear	payments_server1

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

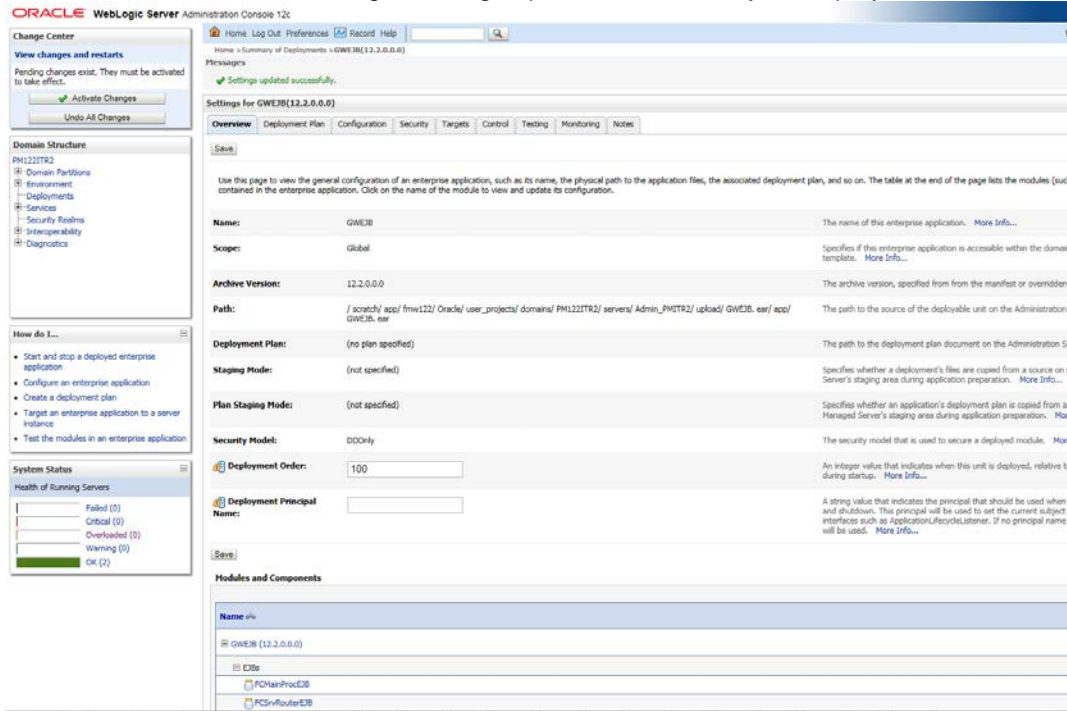
The screenshot shows the Oracle WebLogic Server Administration Console interface for the "Settings for GWE3B(12.2.0.0.0)" screen. The screen displays the following configuration options:

- Name:** GWE3B
- Scope:** Global
- Archive Version:** 12.2.0.0.0
- Path:** /scratch/app/fmw122/Oracle/user_projects/domains/PM122TR2/servers/Admin_PM122TR2/upload/GWE3B.ear/app/GWE3B.ear
- Deployment Plan:** (no plan specified)
- Staging Mode:** (not specified)
- Plan Staging Mode:** (not specified)
- Security Mode:** DOOnly
- Deployment Order:** 100
- Deployment Principal Name:** (empty)

The **Modules and Components** section shows the following components:

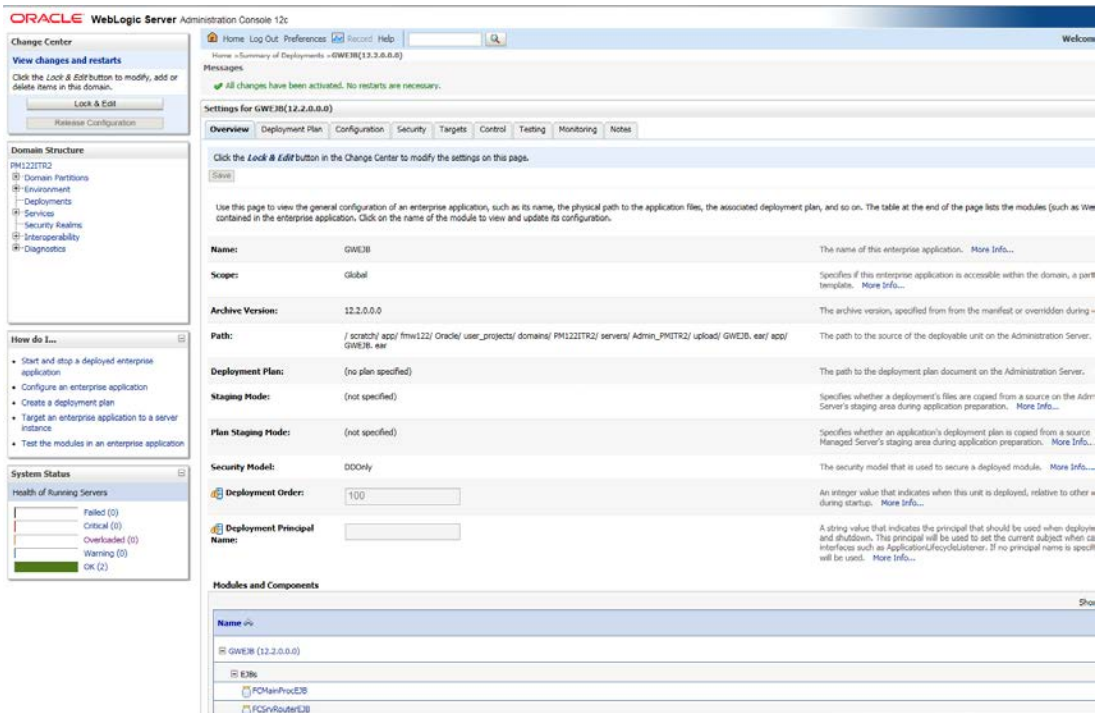
- GWE3B (12.2.0.0.0)
 - ESB
 - PCInProcESB
 - PCInRouterESB
 - GWE3B

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

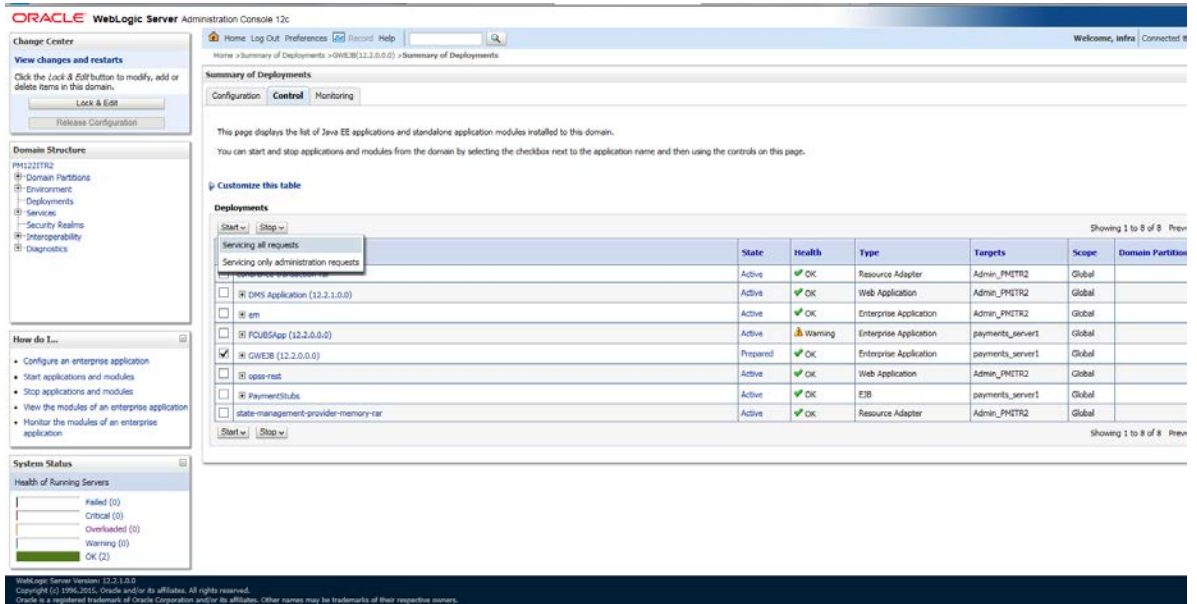


39. Click 'Activate Changes' button on the left pane. The message 'All the changes have been activated. No restarts are necessary' is displayed.

The screen is given below:

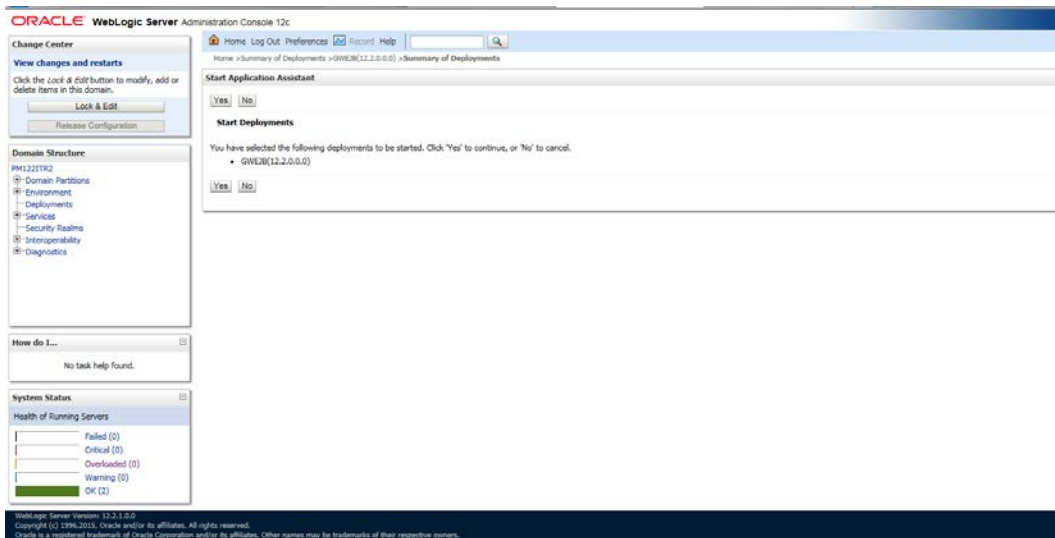


Click 'Deployment' on the left pane. Switch to Control tab. The following screen is displayed.



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.

The screenshot shows the Oracle WebLogic Server Administration Console interface. The main content area is titled "Summary of Deployments" and contains a table of installed Java EE applications and standalone application modules. The table has the following columns: Name, State, Health, Type, Targets, Scope, and Domain Partitions. The table lists 8 items, with the following details:

Name	State	Health	Type	Targets	Scope	Domain Partitions
coherence-transaction-iar	Active	OK	Resource Adapter	Admin_PMTSR2	Global	
GWS Application (12.2.1.0.0)	Active	OK	Web Application	Admin_PMTSR2	Global	
em	Active	OK	Enterprise Application	Admin_PMTSR2	Global	
JPSApplication (12.2.0.0.0)	Active	Warning	Enterprise Application	payments_server1	Global	
OWS (12.2.0.0.0)	Active	OK	Enterprise Application	payments_server1	Global	
jps-ssl	Active	OK	Web Application	Admin_PMTSR2	Global	
PaymentGateway	Active	OK	EJB	payments_server1	Global	
state-management-provider-memory-iar	Active	OK	Resource Adapter	Admin_PMTSR2	Global	

This completes the deployment process.

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



Deploying Oracle FLEXCUBE on WebLogic
[November] [2020]
Version 14.4.0.2.0

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>

Copyright © [2007], [2020], Oracle and/or its affiliates. All rights reserved.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate failsafe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

This software or hardware and documentation may provide access to or information on content, products and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services.