

Deploying Oracle FLEXCUBE Application on WebLogic
Oracle Banking Corporate Lending
Release 14.7.1.0.0
Part No. F79326-01
[July] [2023]



Table of Contents

- 1. DEPLOYING ORACLE FLEXCUBE ON WEBLOGIC1-1**
- 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* 1-10
 - 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.

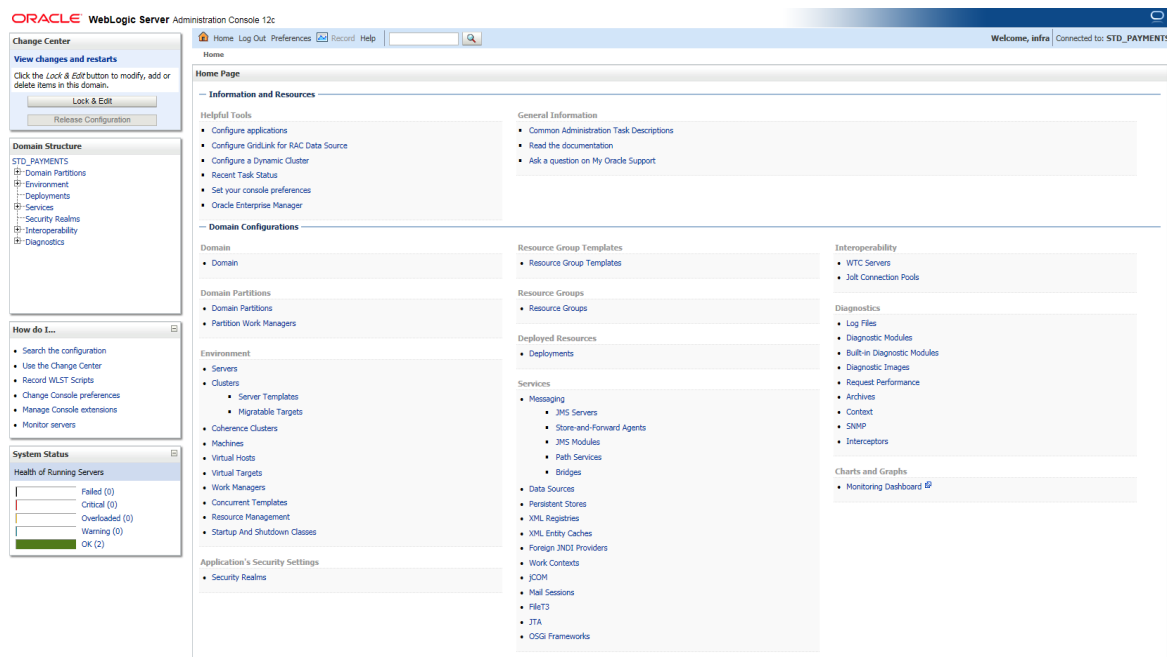
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser.

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

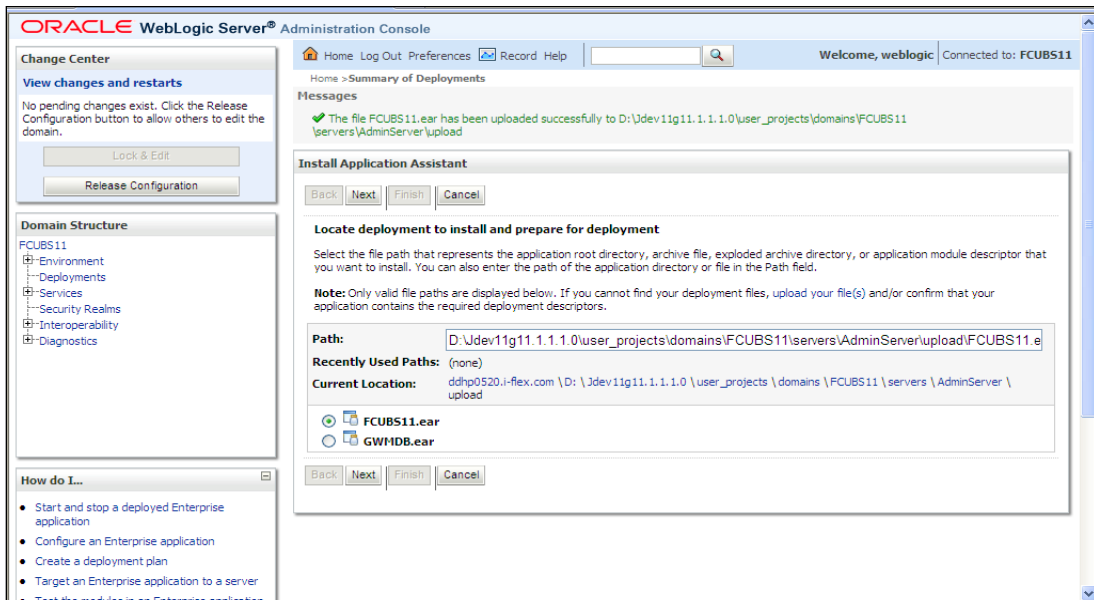
The following screen is displayed:



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



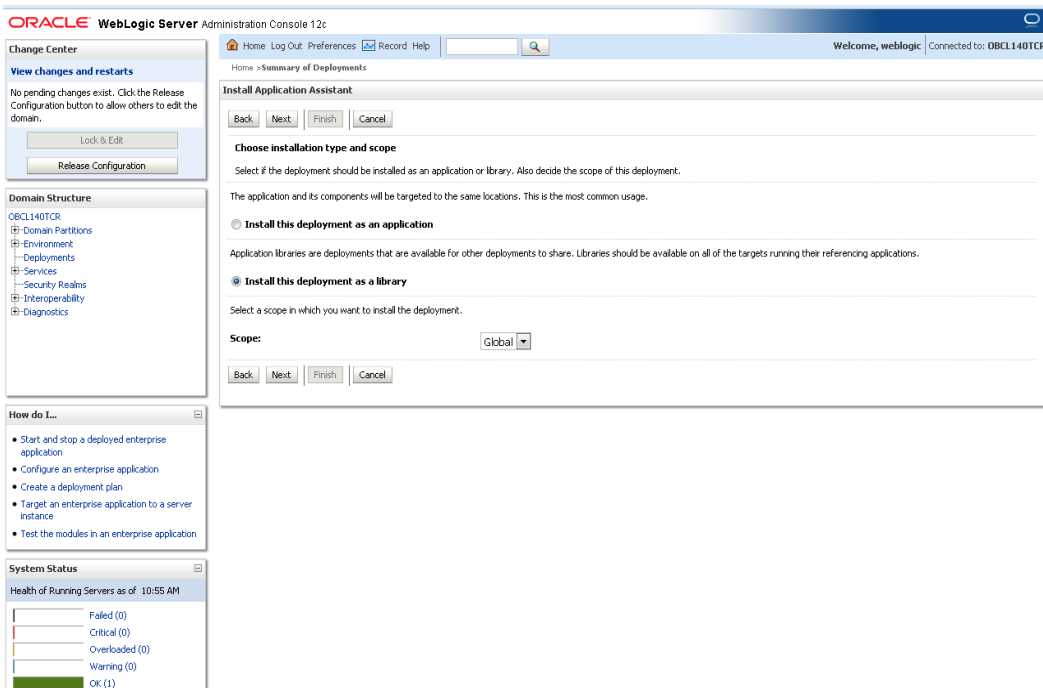
- You need to deploy an Integration adapter EAR. For e.g. 'OBCLExtAdapter.ear or ExtAdapter.ear'. Go to 'Deployment'.
- Click 'Lock & Edit' button to enable the buttons. This action enables the buttons.



9. Select the application Adapter EAR from the list.

10. Click 'Next'.

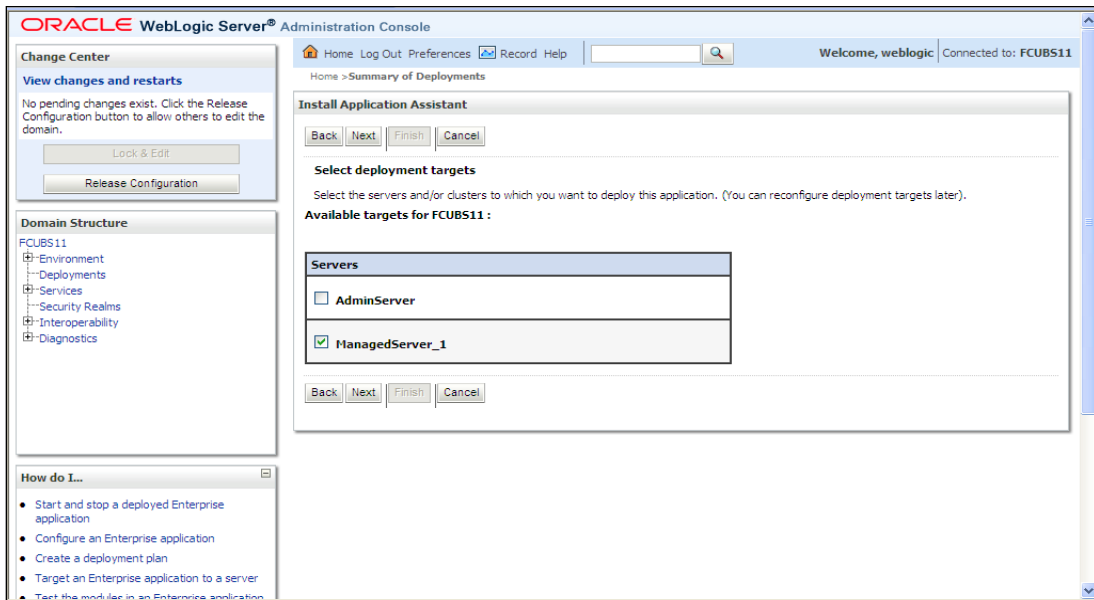
The following screen is displayed.



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

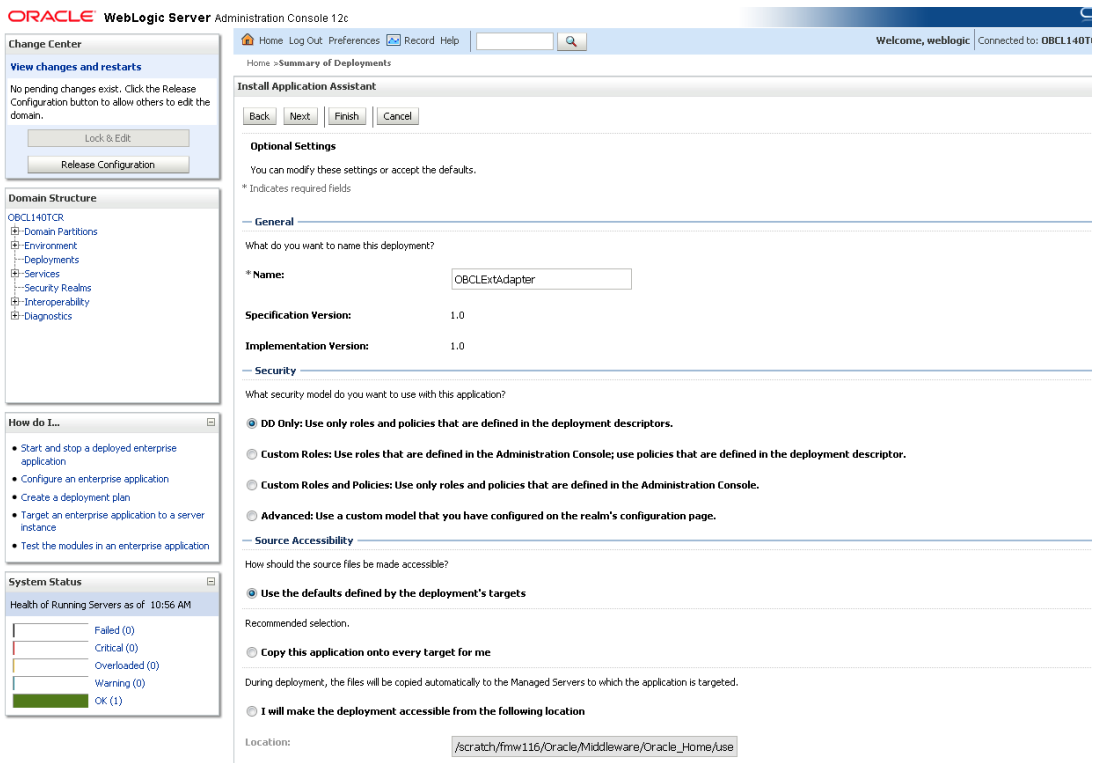
12. Click 'Next'.

The following screen is displayed.



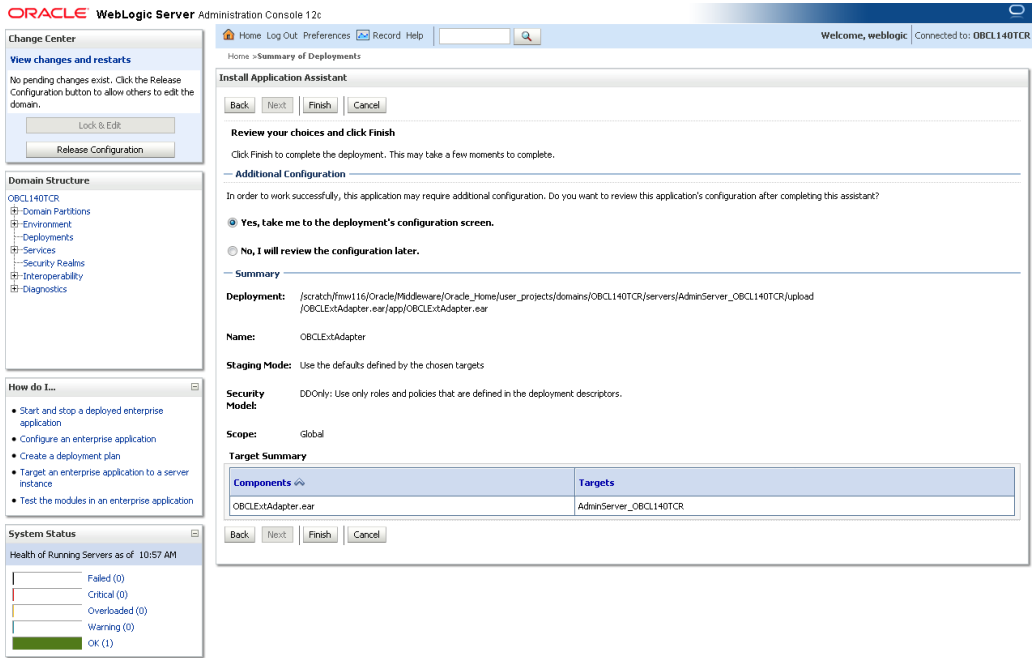
13. Select the target of the application. You can choose the server 'AdminServer' or 'Managed Server(s)'.

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



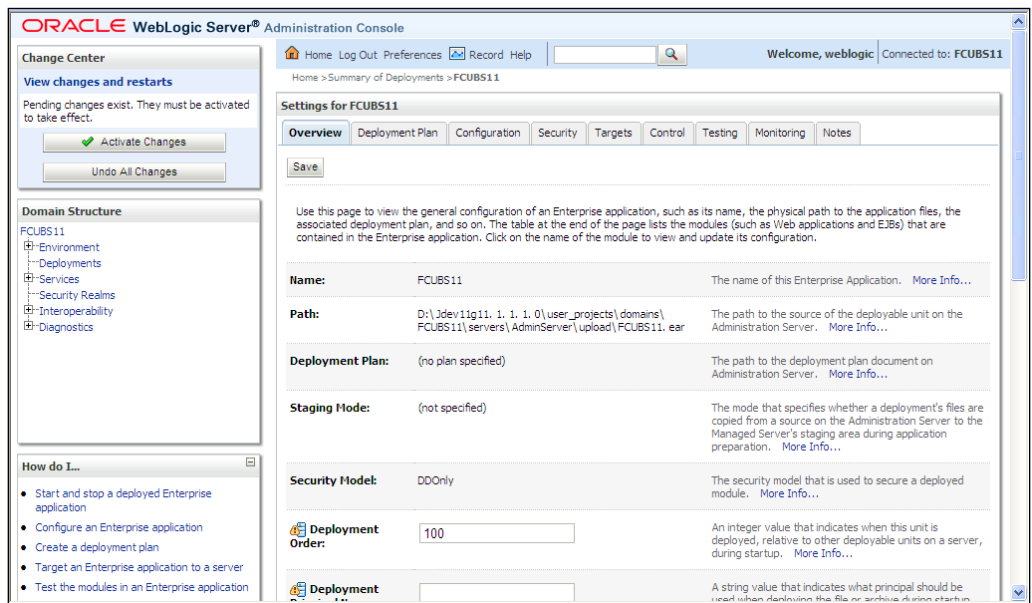
15. Check the deployment name.

The remaining portion of the screen is shown below:



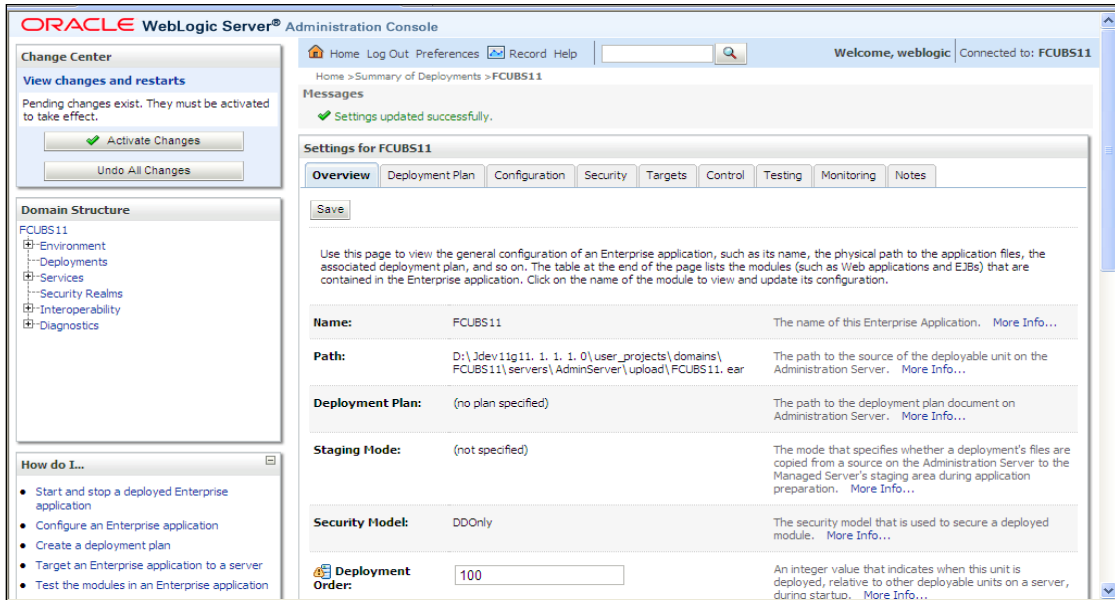
16. Click 'Finish' button.

The following screen is displayed.



17. Click 'Save' button.

The message 'Settings updated successfully' is displayed.



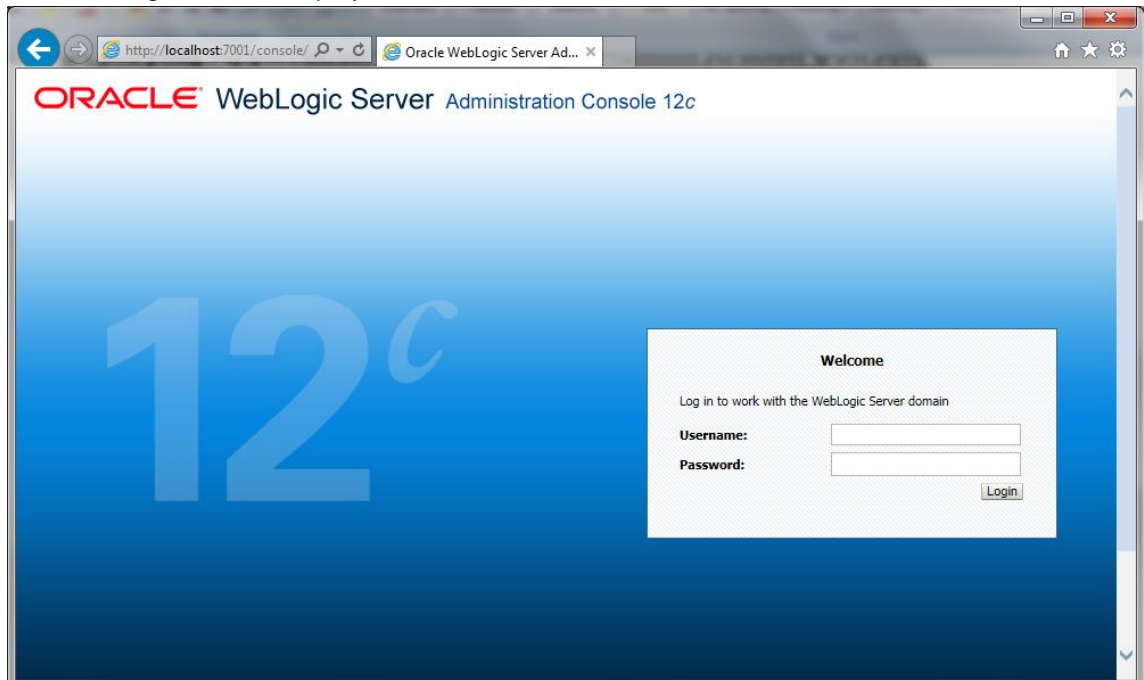
18. Click 'Activate Changes' button on the left pane. The message 'All the changes have been activated. No restarts are necessary' is displayed.

1.3.2 Deploying Dependency Library "Jax-RS"

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

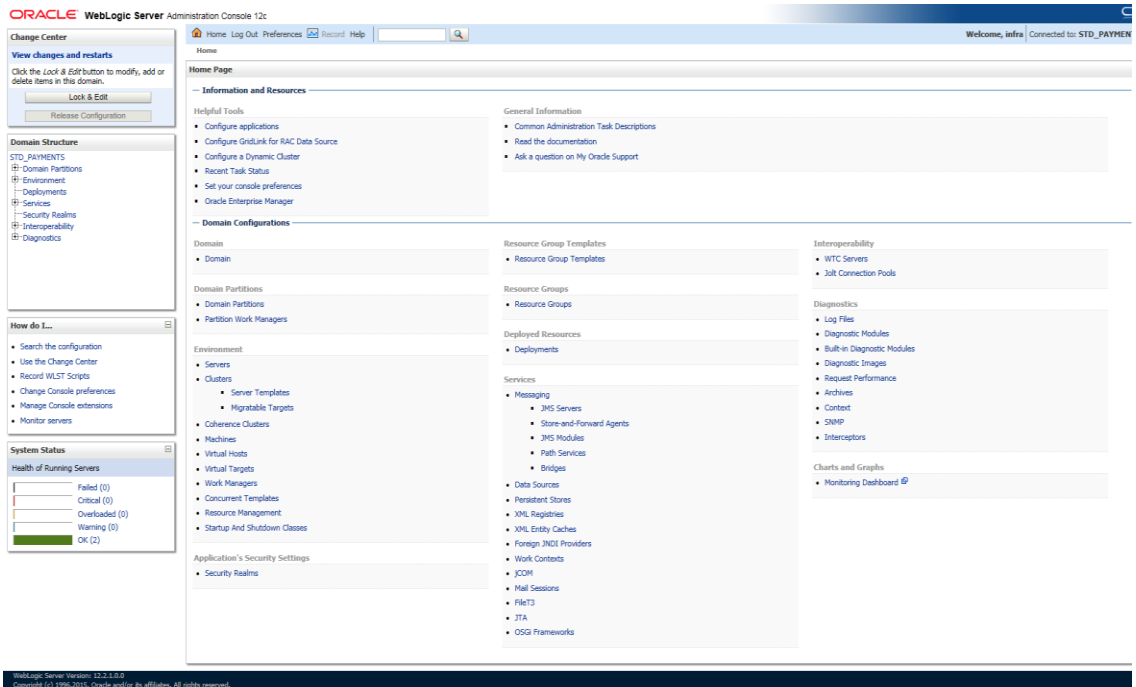
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser. Eg: `http://10.10.10.10:1001/console`

The following screen is displayed:

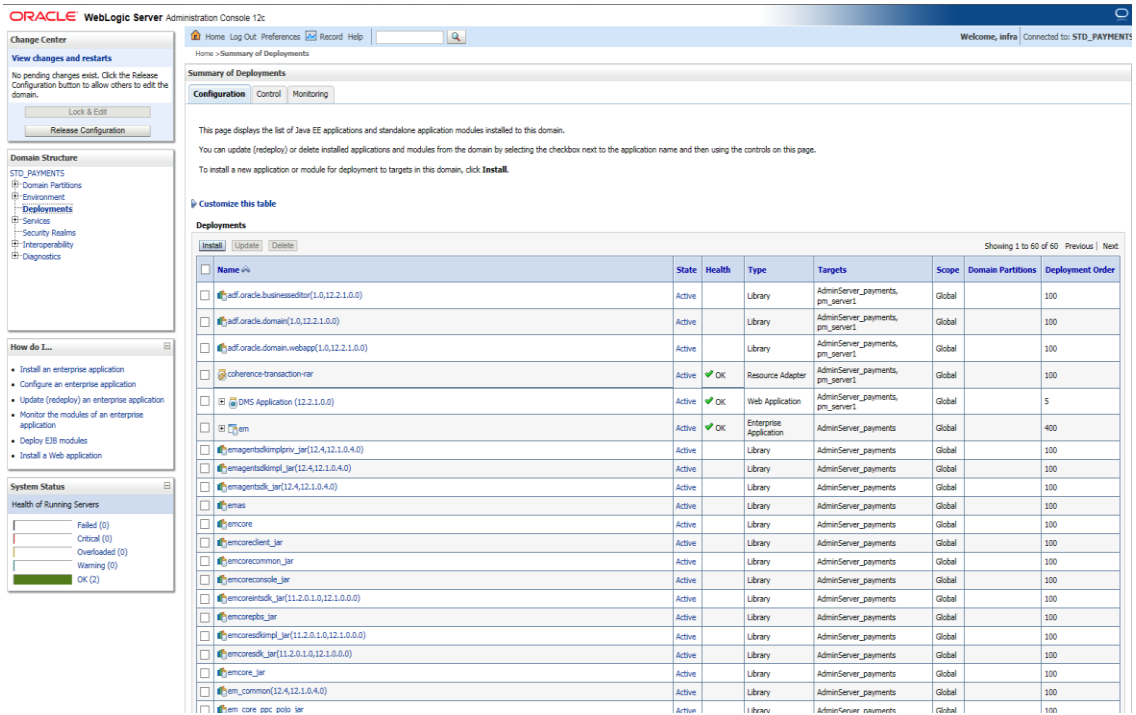


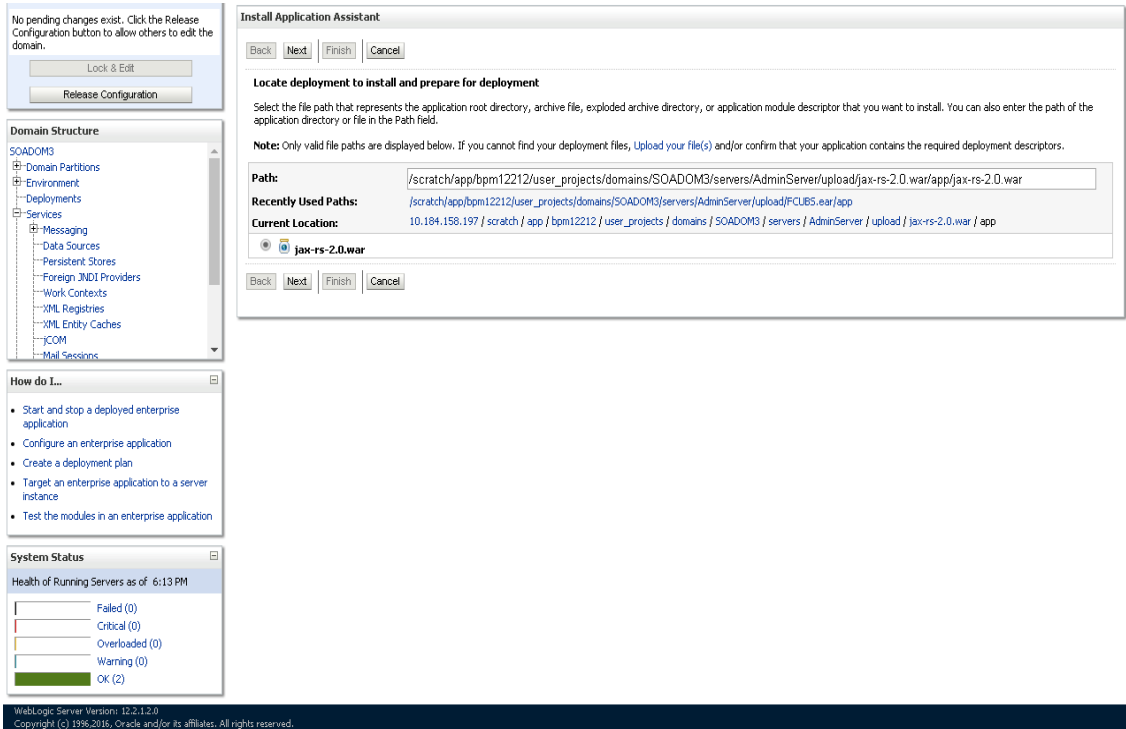
2. Specify the WebLogic administrator user name and password. Click 'Log In'.

The following screen is displayed:

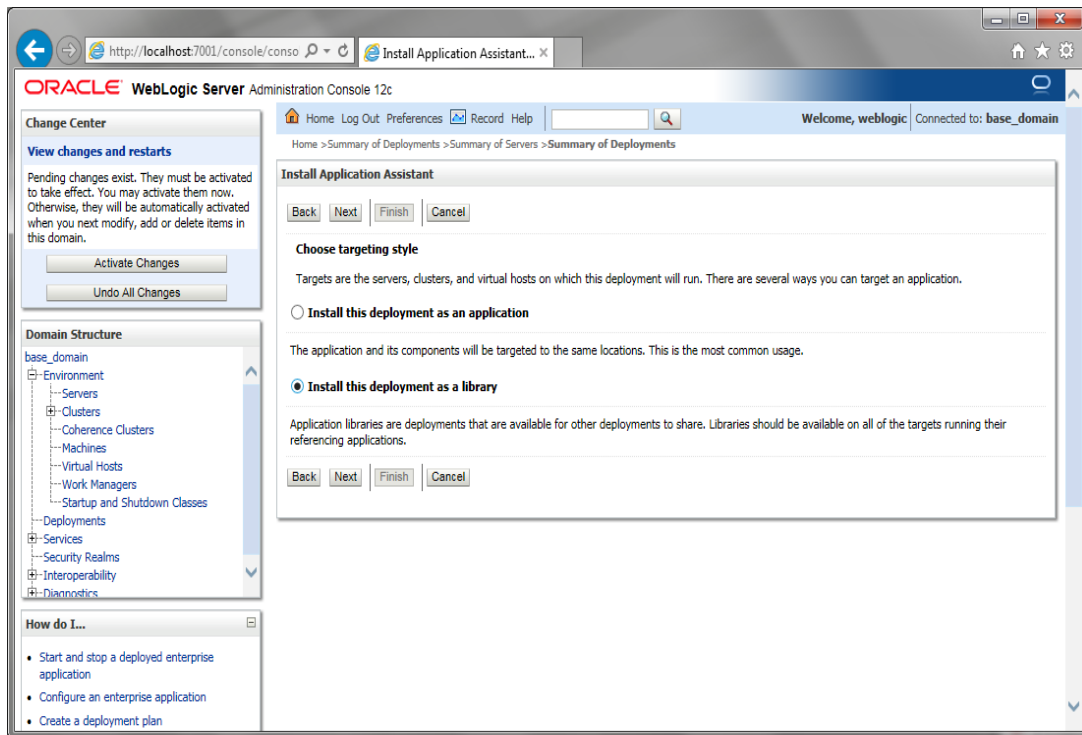


3. Click Install button.

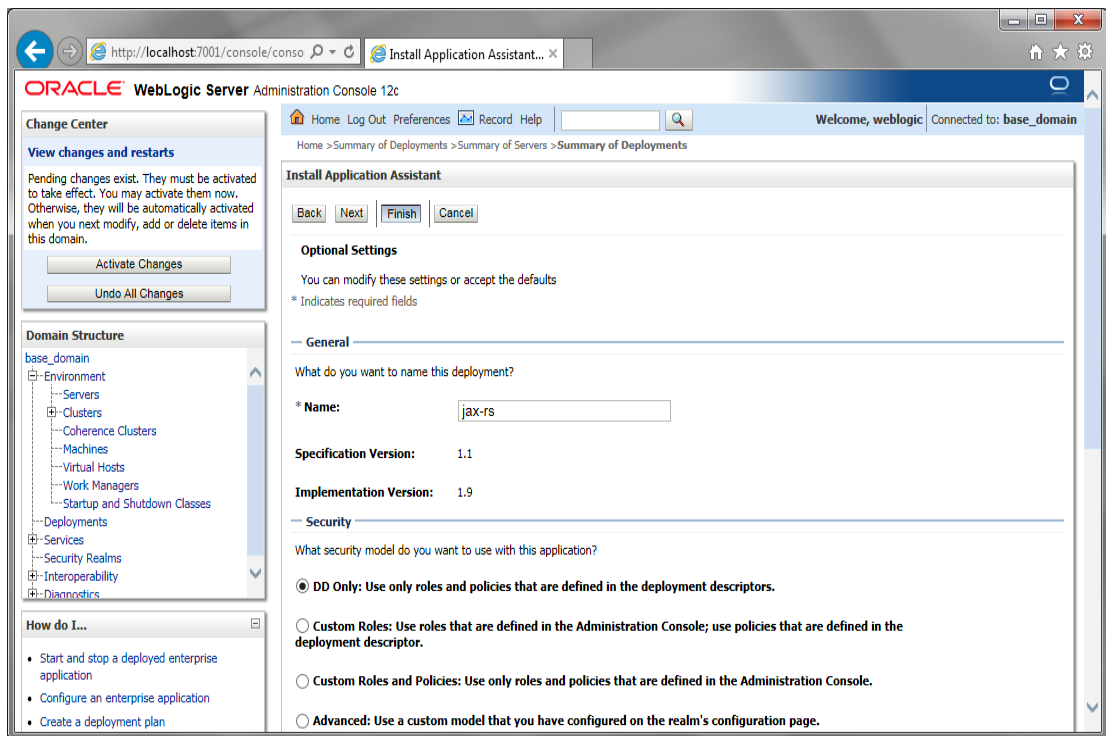




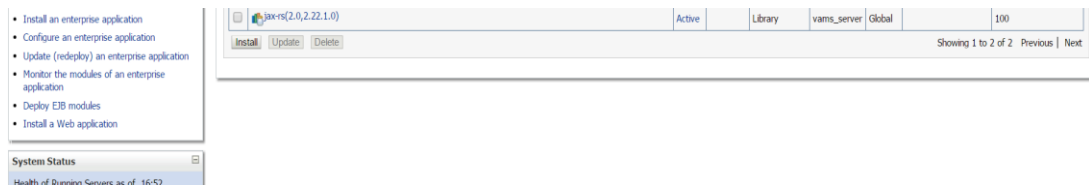
- Navigate and select jersey bundle under the path “w\server\common\deployable-libraries\jax-rs-2.0.war” and click next.



- Select “install this deployment as library”, select target server as managed server and click next.



6. Click finish button.



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

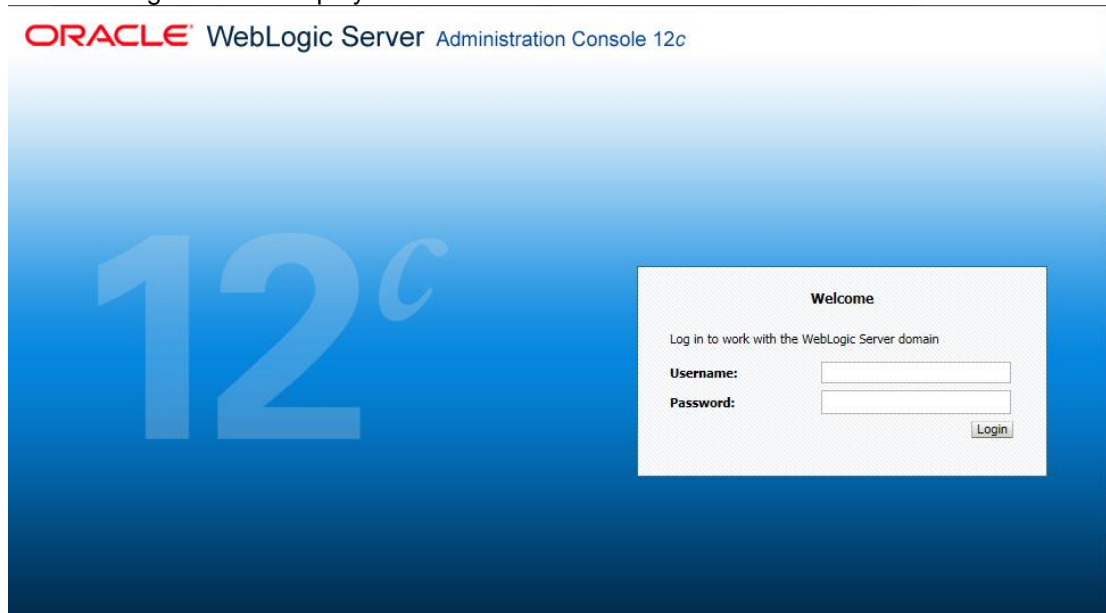
Note : Latest Jax-rs version will be jax-rs(2.0,2.22.1.0).

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.

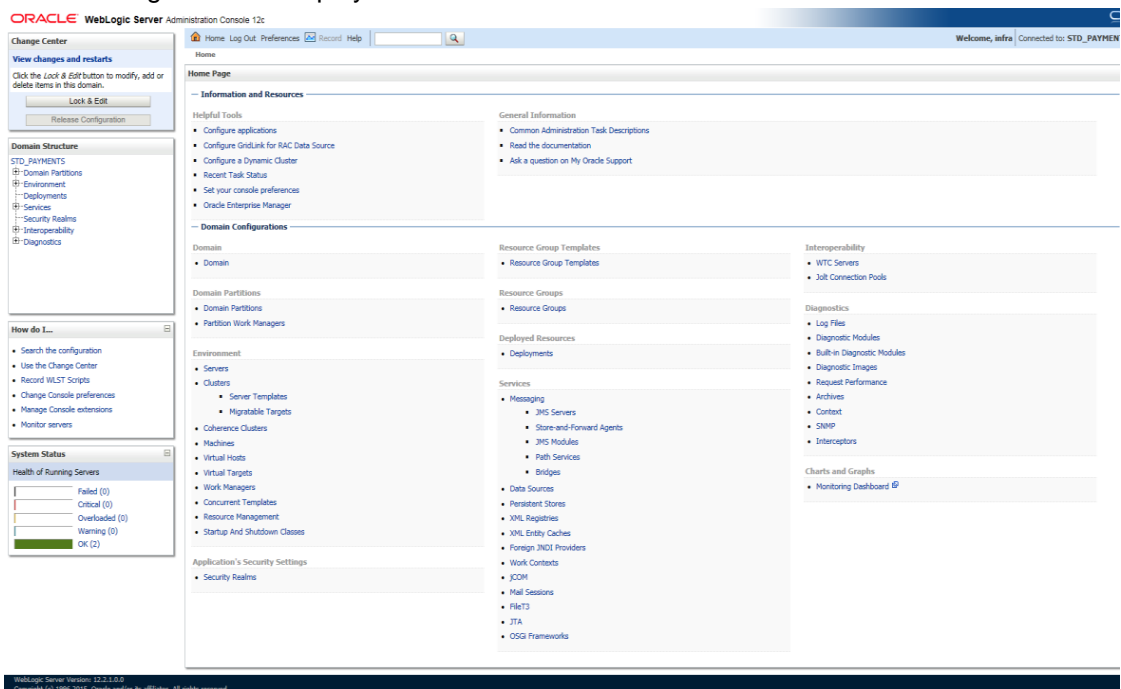
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser. Eg: <http://10.10.10.10:1001/console>

The following screen is displayed:

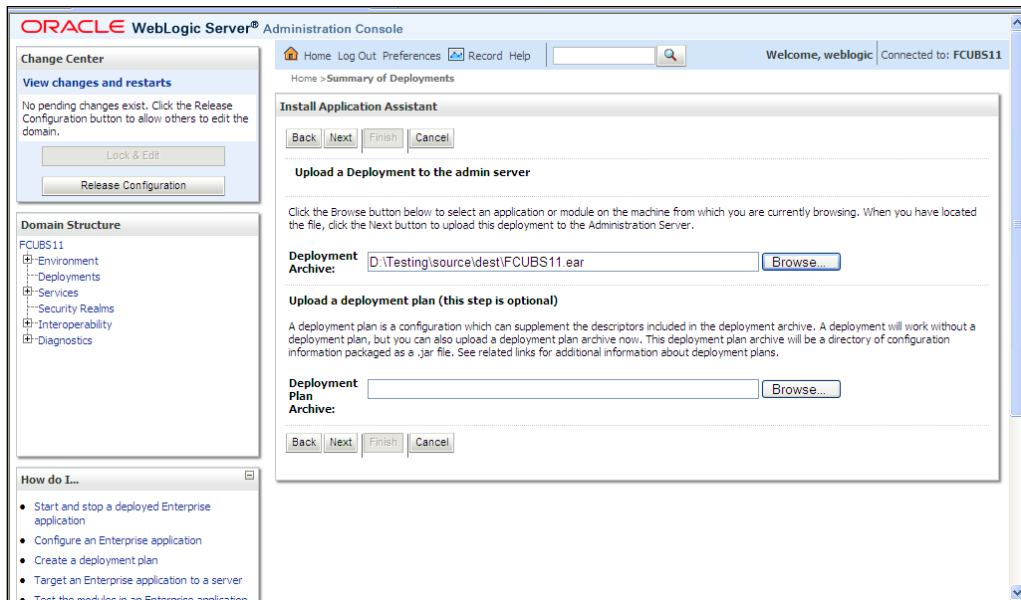


2. Specify the WebLogic administrator user name and password. Click 'Log In'.

The following screen is displayed:



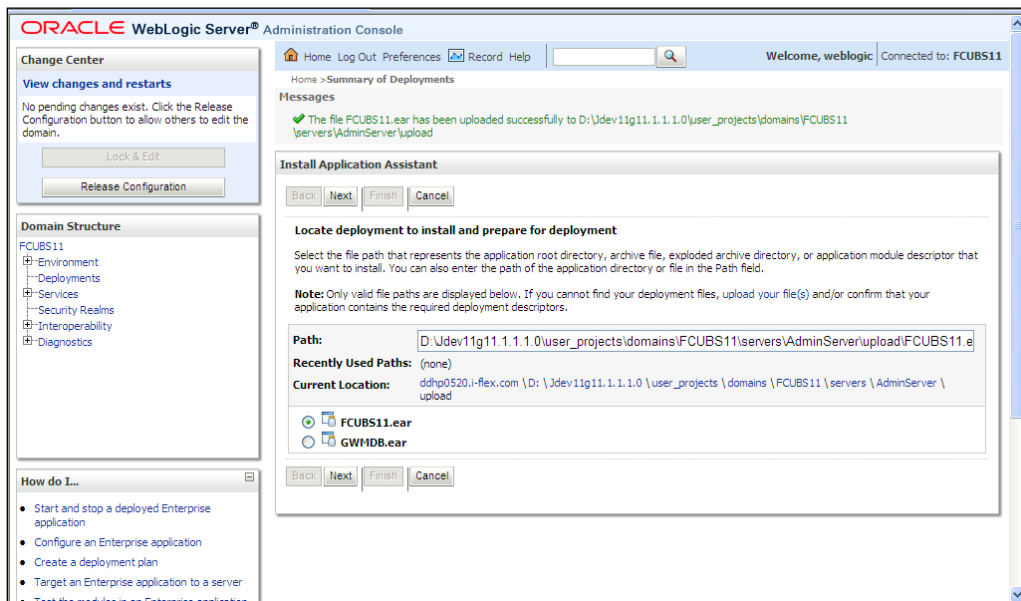
3. You need to deploy an EAR. For e.g. 'FCUBSApp.ear'. Go to 'Deployment'.



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

9. Click 'Next'.

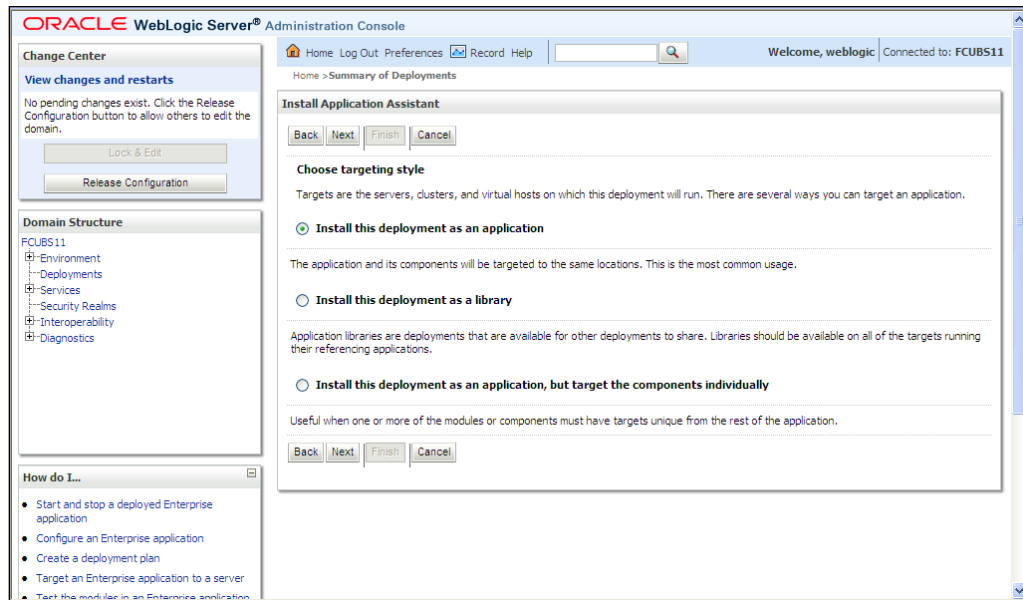
The following screen is displayed.



10. Select the application FCUBS EAR from the list.

11. Click 'Next'.

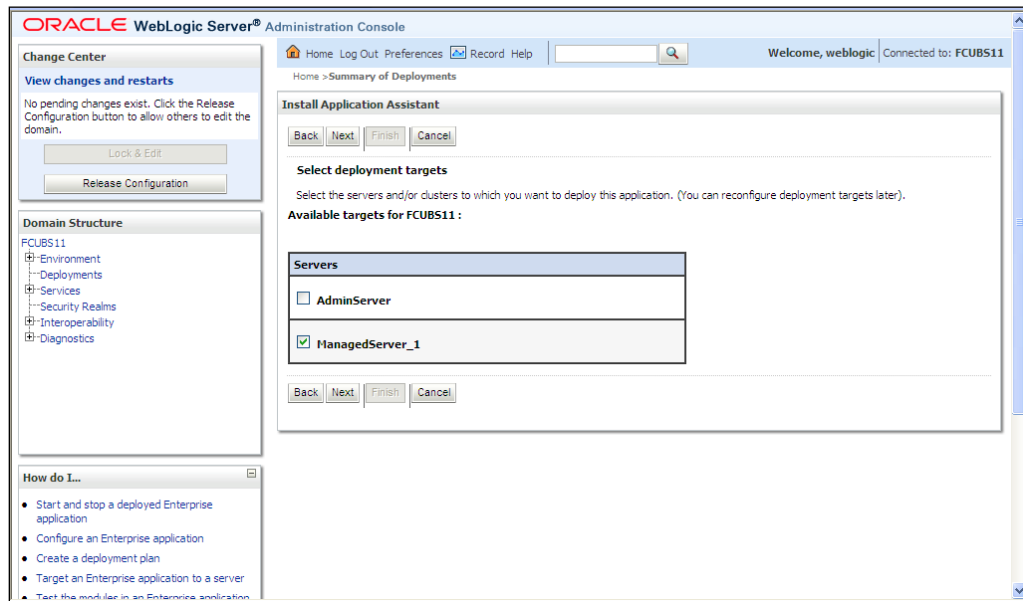
The following screen is displayed:



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

13. Click 'Next'.

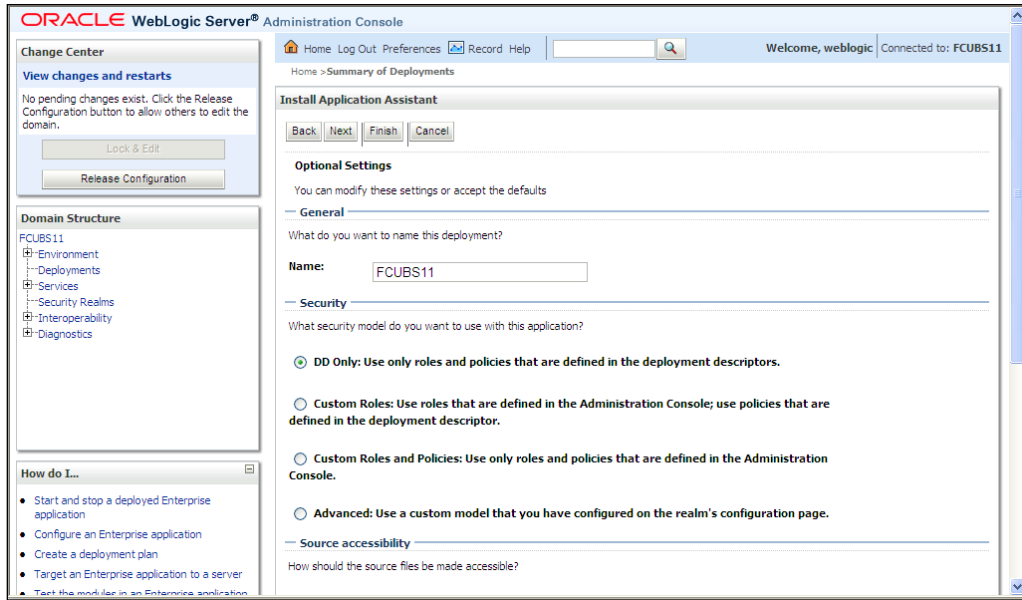
The following screen is displayed



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

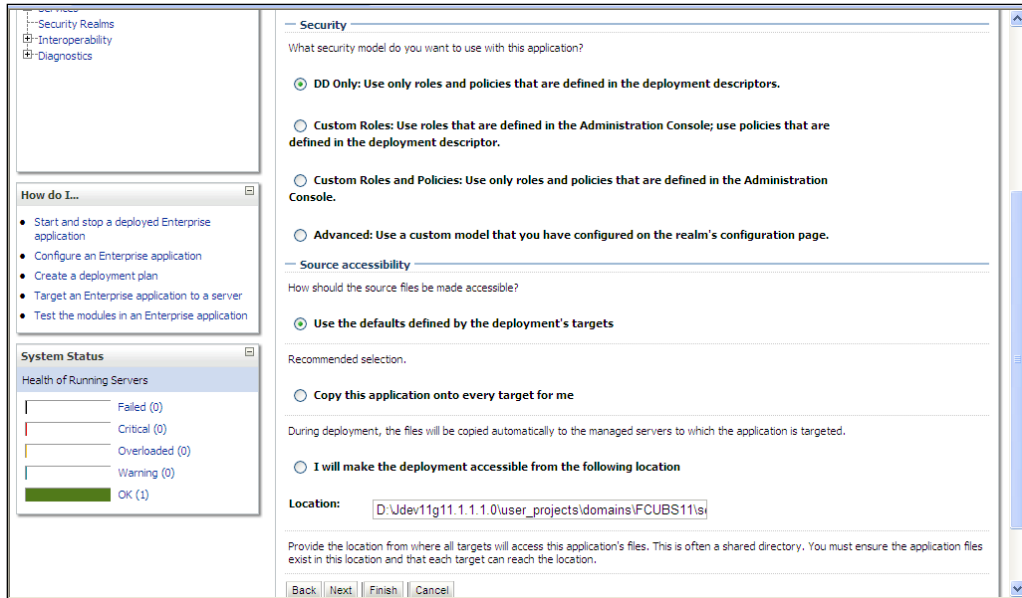
15. Click 'Next'.

The following screen appears.



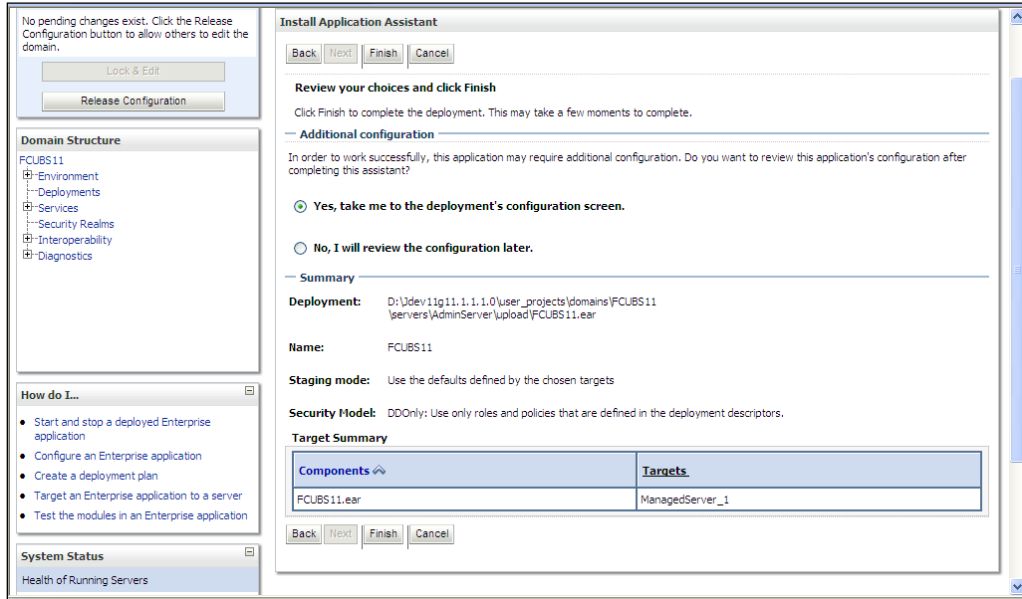
16. Check the deployment name.

The remaining portion of the screen is shown below:



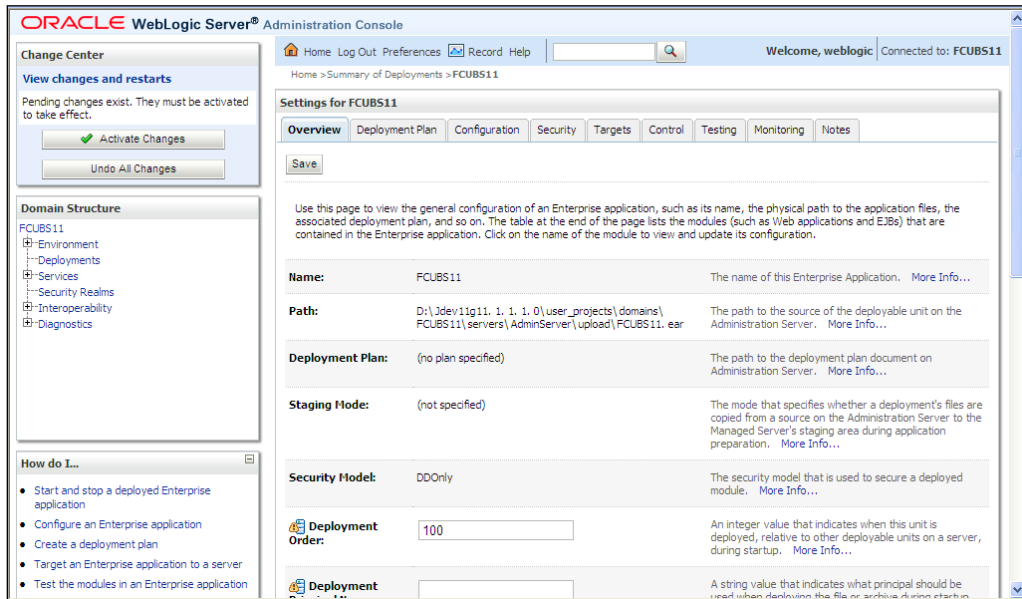
17. Check whether the deployment location is accessible or not.

The following screen is displayed.

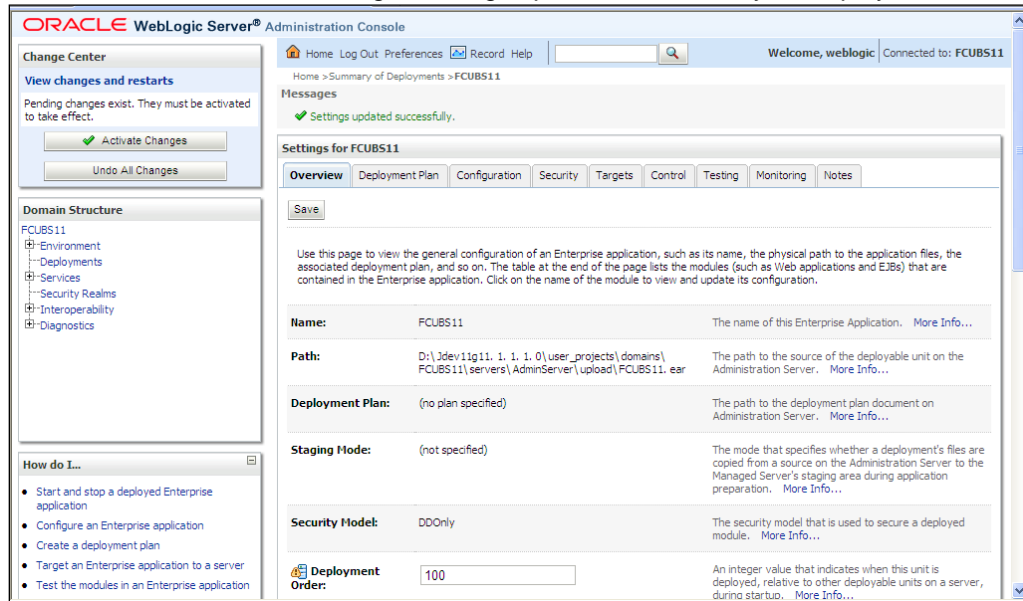


18. Click 'Finish' button. The following screen is displayed.

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

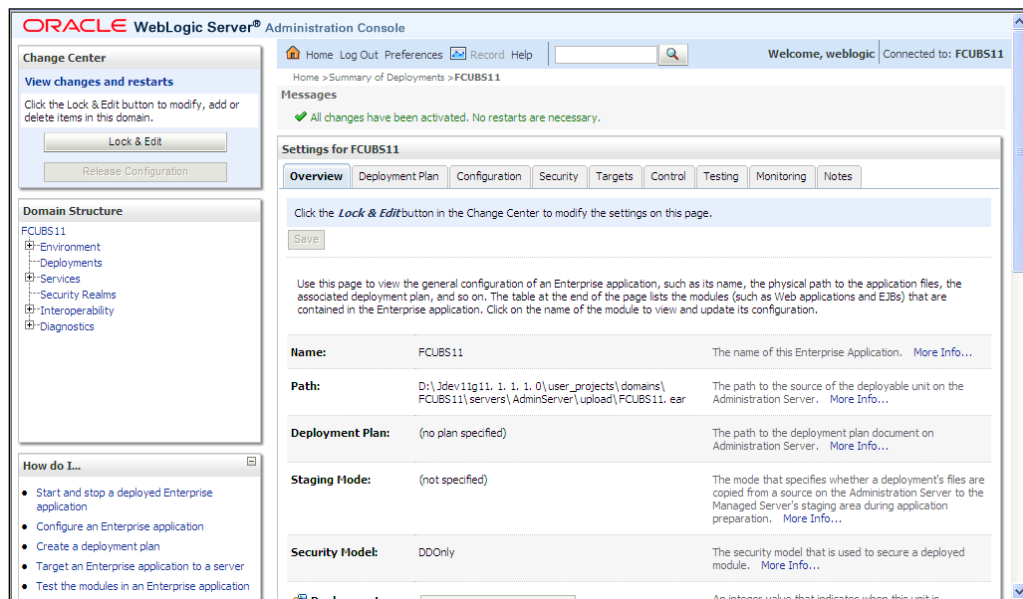


19. Click 'Save' button. The message 'Settings updated successfully' is displayed.

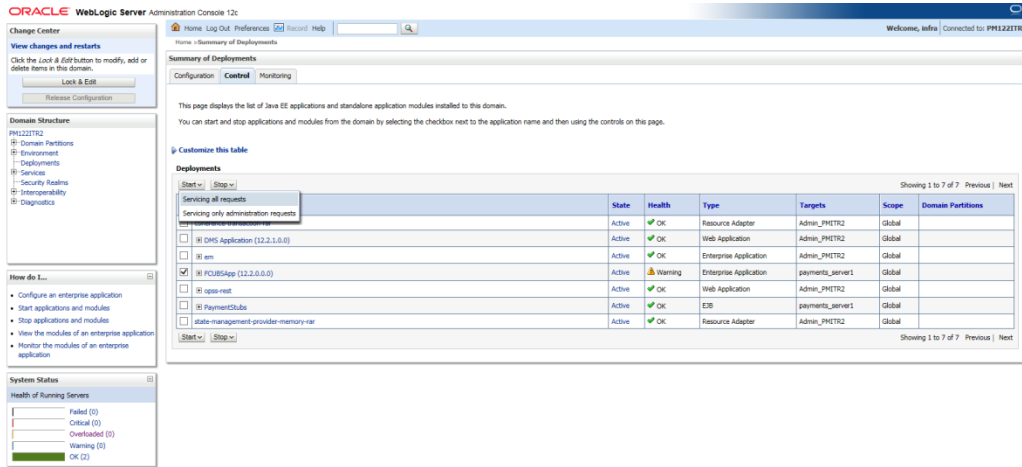


20. Click 'Activate Changes' button on the left pane. The message 'All the changes have been activated. No restarts are necessary' is displayed.

The screen is given below:

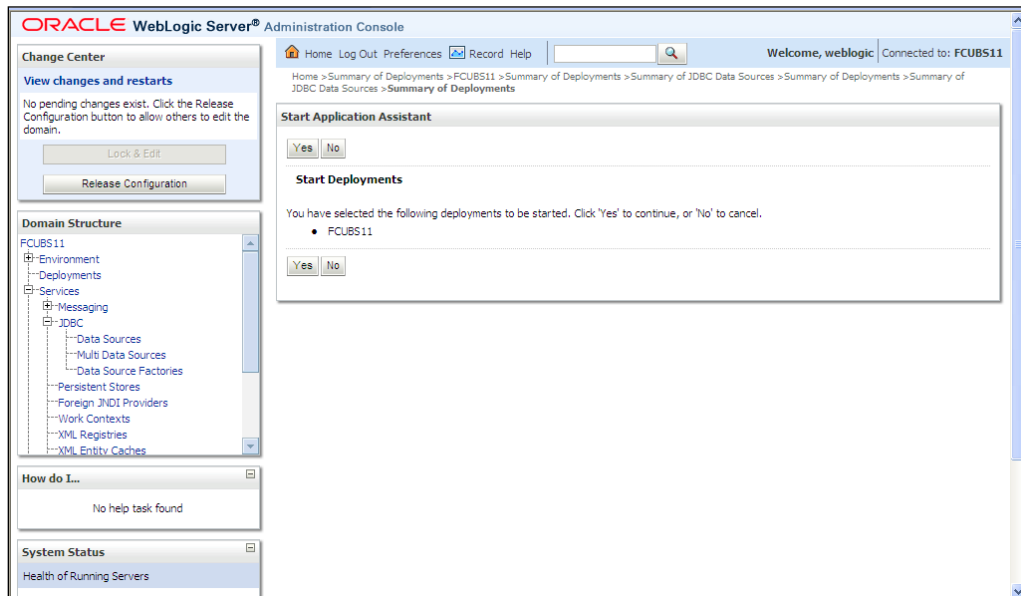


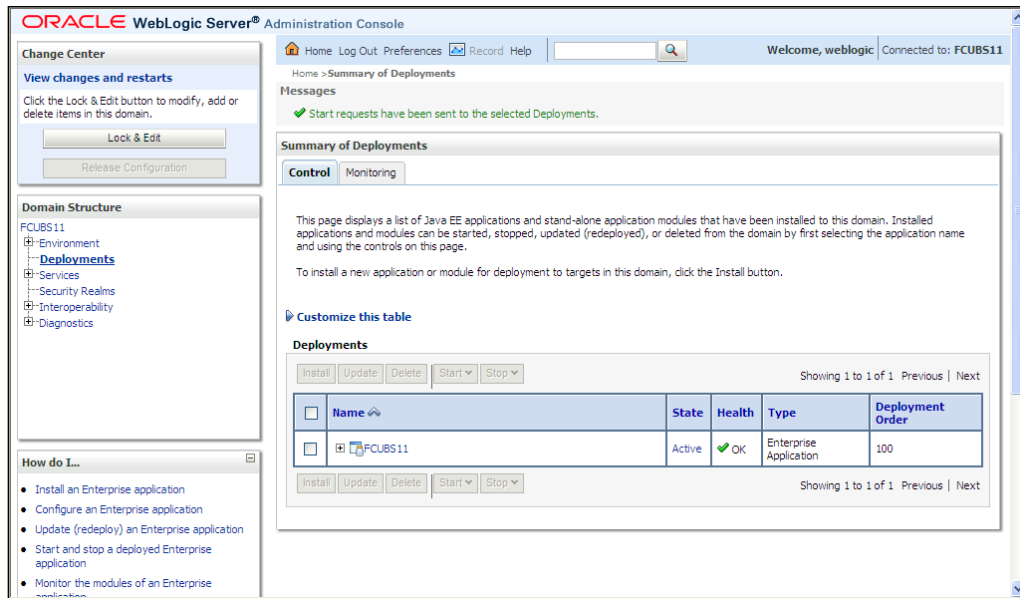
21. Click 'Deployment' on the left pane. Switch to Control tab .The following screen is displayed.



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

The following screen is displayed.





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

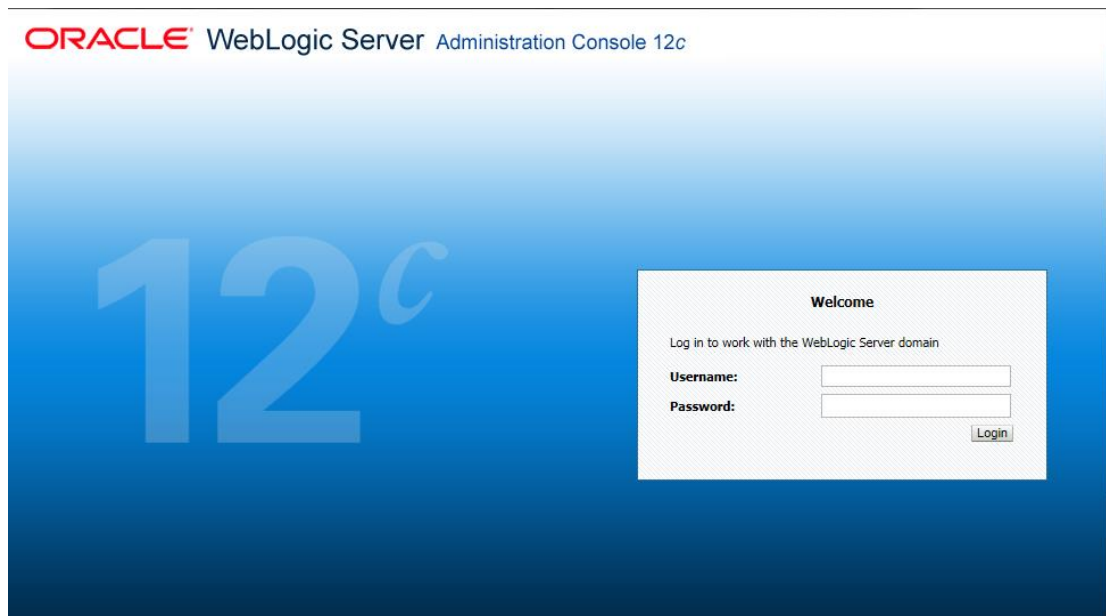
This completes the deployment process.

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.

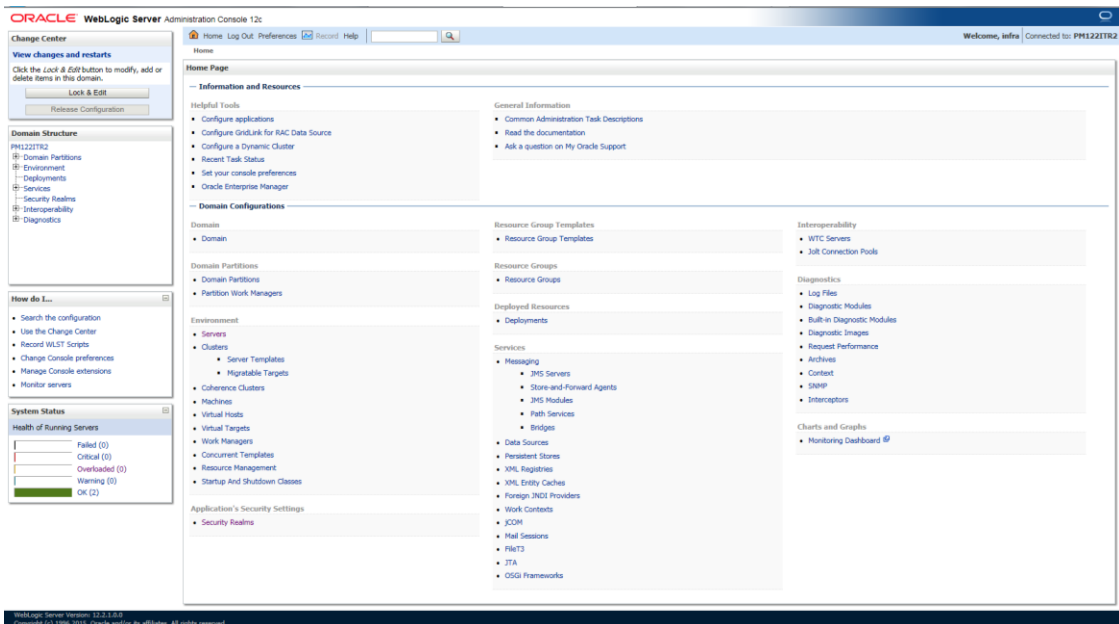
1. Launch Administrative Console of WebLogic application server. You can launch this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser. Eg: <http://10.10.10.10:1001/console>

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. 'GWEJB.ear'. Go to 'Deployment'.

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

The screenshot shows the Oracle WebLogic Server Administration Console. On the left, the 'Change Center' panel has the 'Lock & Edit' button highlighted. The main content area is titled 'Summary of Deployments' and contains a table of installed applications and modules.

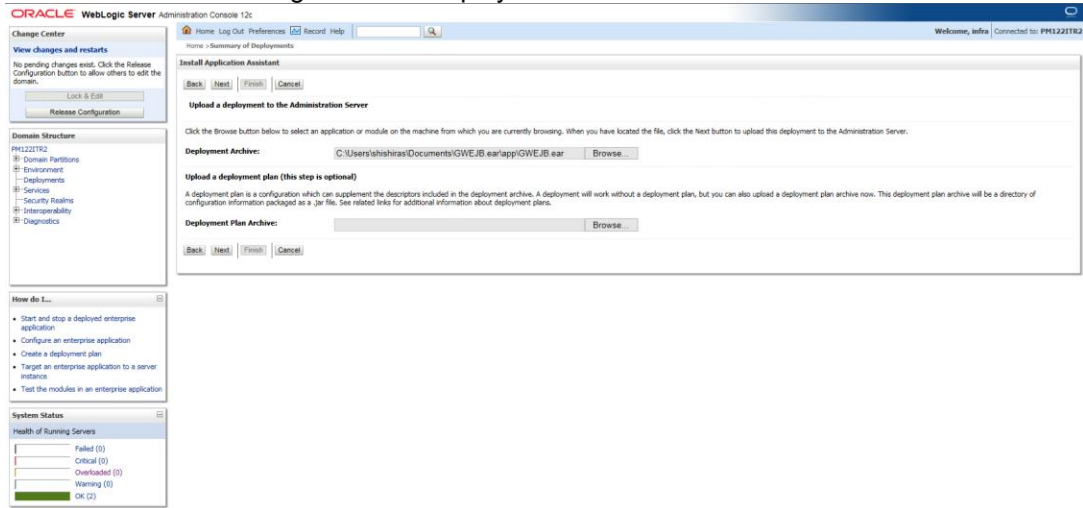
Name	State	Health	Type	Targets	Scope	Domain Partitions	Previous	Deployment Order
adf.oracle.businesseditor(1.0,12.2.1.0.0)	Active		Library	AdminServer_payments, pm_server1	Global		100	
adf.oracle.domain(1.0,12.2.1.0.0)	Active		Library	AdminServer_payments, pm_server1	Global		100	
adf.oracle.domain.webapp(1.0,12.2.1.0.0)	Active		Library	AdminServer_payments, pm_server1	Global		100	
coherence-transaction-iar	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	
emagentdkmpjrv_jar(12.4,12.1.0.4.0)	Active		Library	AdminServer_payments	Global		100	
emagentdkmpj_jar(12.4,12.1.0.4.0)	Active		Library	AdminServer_payments	Global		100	
emagentdb_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	
emcoretask_jar(11.2.0.1.0,12.1.0.0.0)	Active		Library	AdminServer_payments	Global		100	
emcorepb_jar	Active		Library	AdminServer_payments	Global		100	
emcoresdkmpj_jar(11.2.0.1.0,12.1.0.0.0)	Active		Library	AdminServer_payments	Global		100	
emcoresd_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_cms_rpc_pgjo_jar	Active		Library	AdminServer_payments	Global		100	

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

The screenshot shows the 'Install Application Assistant' dialog box. The 'Path' field is set to 'D:\'. Below the path field, a file browser is open, showing a directory tree with folders like '11.0', '9NT 1272', 'APPOINT SOFTWARE SOLUTIONS', 'backup', 'bea', 'bea11g', 'bea_100', 'BrndBgs', 'ClearCase', 'CRC', 'Desktop', and 'Documents and Settings'.

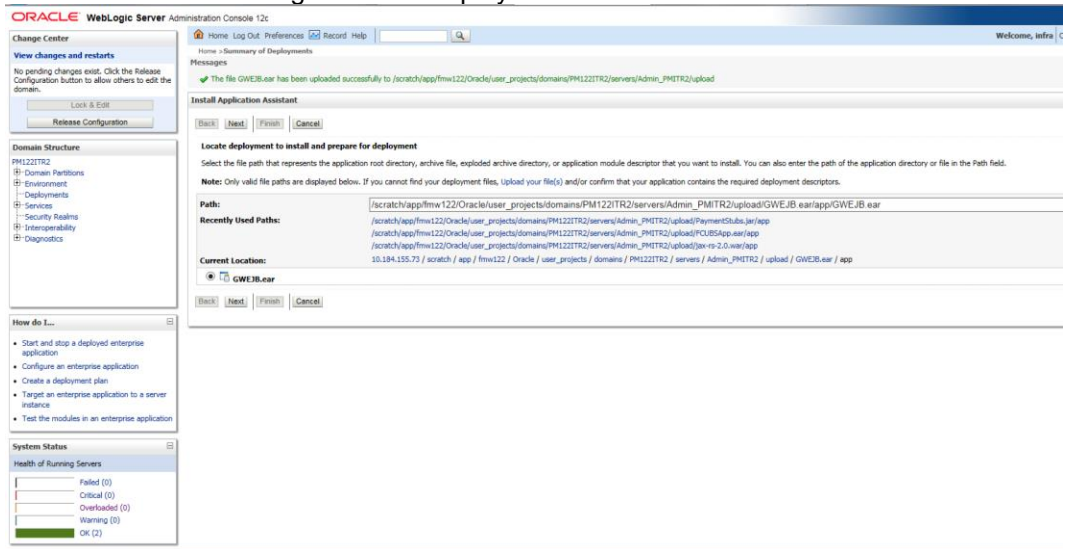
- In order to specify the path/location of the enterprise archive file, click the link 'upload your file(s)'.

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



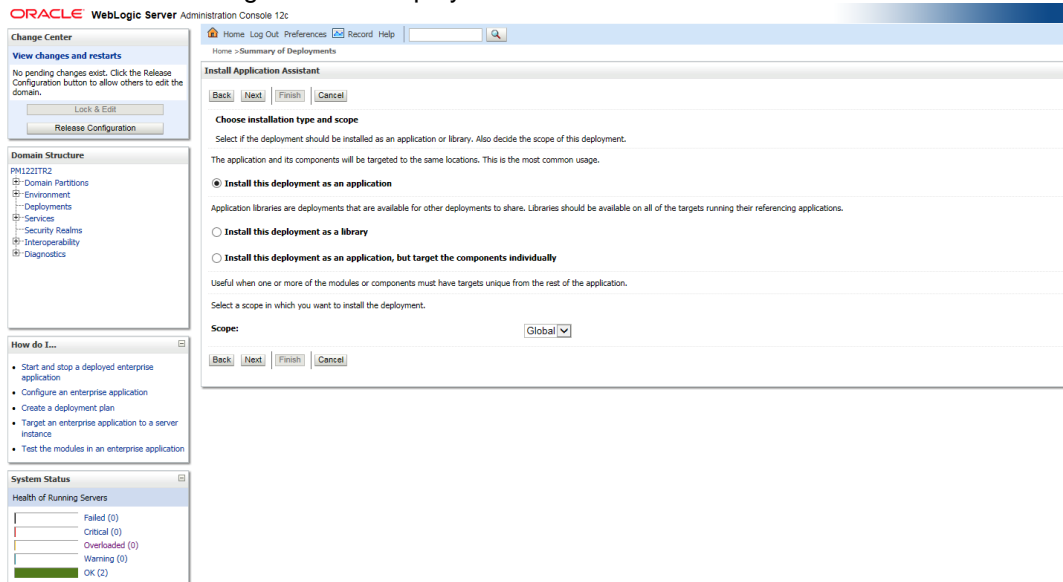
8. Specify the EAR file path. You can use the 'Browse' button to locate the file.

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



10. Select the application from the list.

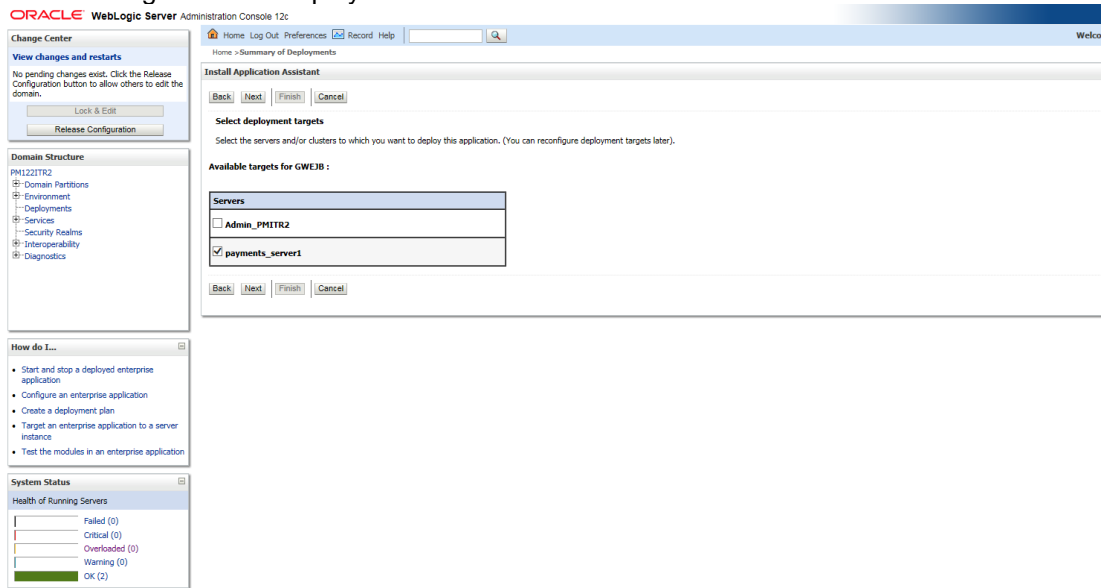
11. Click 'Next'. Following screen is displayed:



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

13. Click 'Next'.

The following screen is displayed



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

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

16. Check the deployment name.

The remaining portion of the screen is shown below:

17. 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 includes a "Review your choices and click Finish" section. Below this, there is an "Additional Configuration" section with a radio button selected for "Yes, take me to the deployment's configuration screen." A "Summary" section follows, listing various configuration parameters:

- Deployment:** /scratch/app/fmw122/Oracle/user_projects/domains/PH122TR2/servers/Admin_PMTIR2/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:** DDOOnly: Use only roles and policies that are defined in the deployment descriptors.
- Scope:** Global

At the bottom, a "Target Summary" table is displayed:

Components	Targets
GWEJB.ear	payments_server1

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

The screenshot shows the Oracle WebLogic Server Administration Console interface for the "Settings for GWEJB(12.2.0.0.0)" screen. The main content area displays a detailed configuration overview for the application. The "Overview" tab is selected, showing various configuration parameters:

- Name:** GWEJB
- Scope:** Global
- Archive Version:** 12.2.0.0.0
- Path:** /scratch/app/fmw122/Oracle/user_projects/domains/PH122TR2/servers/Admin_PMTIR2/upload/GWEJB.ear/app/GWEJB.ear
- Deployment Plan:** (no plan specified)
- Staging Mode:** (not specified)
- Plan Staging Mode:** (not specified)
- Security Model:** DDOOnly
- Deployment Order:** 100
- Deployment Principal Name:** (empty)

At the bottom, a "Modules and Components" section is visible, showing a list of components:

- GWEJB (12.2.0.0.0)
- PC3nPrxvEJB
- PC3nRouterEJB
- GWEJB

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

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area displays the 'Settings for GWEJB(12.2.0.0.0)' page. At the top, a message states 'Settings updated successfully'. Below this, there are tabs for 'Overview', 'Deployment Plan', 'Configuration', 'Security', 'Targets', 'Control', 'Testing', 'Monitoring', and 'Notes'. The 'Overview' tab is active, showing a list of configuration parameters such as Name, Scope, Archive Version, Path, Deployment Plan, Staging Mode, Plan Staging Mode, Security Model, Deployment Order, and Deployment Principal. A 'Save' button is visible at the top left of the settings area. On the left-hand side, the 'Change Center' pane is visible, with the 'Activate Changes' button highlighted in green.

20. 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:

This screenshot shows the Oracle WebLogic Server Administration Console after clicking 'Activate Changes'. The main content area displays the 'Settings for GWEJB(12.2.0.0.0)' page. At the top, a message states 'All changes have been activated. No restarts are necessary.' The 'Save' button is now disabled. On the left-hand side, the 'Change Center' pane is visible, with the 'Release Configuration' button highlighted in green. The rest of the console interface, including the tabs and configuration parameters, remains the same as in the previous screenshot.

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

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, infra Connected to

Home > Summary of Deployments > GWEJB(12.2.0.0.0) > 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 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

Start	Stop	State	Health	Type	Targets	Scope	Domain Partition
<input checked="" type="checkbox"/>	<input type="checkbox"/>	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	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

Showing 1 to 8 of 8 Prev

WebLogic Server Version: 12.2.1.0.0
Copyright (c) 1996-2015, Oracle and/or its affiliates. All rights reserved.
Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

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

The following screen is displayed.

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Home > Summary of Deployments > GWEJB(12.2.0.0.0) > Summary of Deployments

Start Application Assistant

Yes No

Start Deployments

You have selected the following deployments to be started. Click 'Yes' to continue, or 'No' to cancel.

- GWEJB(12.2.0.0.0)

Yes No

WebLogic Server Version: 12.2.1.0.0
Copyright (c) 1996-2015, Oracle and/or its affiliates. All rights reserved.
Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

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

ORACLE WebLogic Server Administration Console 12c

Home | Log Out | Preferences | Record | Help

Welcome, infra | Connected to: PH1221TR2

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 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-rar	Active	OK	Resource Adapter	Admin_PMTTR2	Global	
<input type="checkbox"/> OMS Application (12.2.1.0.0)	Active	OK	Web Application	Admin_PMTTR2	Global	
<input type="checkbox"/> em	Active	OK	Enterprise Application	Admin_PMTTR2	Global	
<input type="checkbox"/> FCMApp (12.2.0.0.0)	Active	Warning	Enterprise Application	payments_server1	Global	
<input type="checkbox"/> GWESB (12.2.0.0.0)	Active	OK	Enterprise Application	payments_server1	Global	
<input type="checkbox"/> opss-rest	Active	OK	Web Application	Admin_PMTTR2	Global	
<input type="checkbox"/> PaymentStub	Active	OK	EJB	payments_server1	Global	
<input type="checkbox"/> state-management-provider-memory-rar	Active	OK	Resource Adapter	Admin_PMTTR2	Global	

Showing 1 to 8 of 8 Previous Next

Health of Running Servers

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

WebLogic Server Version: 12.2.1.0.0
Copyright © 1996-2010, Oracle and/or its affiliates. All rights reserved.
Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

This completes the deployment process.

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



Deploying Oracle FLEXCUBE Application on WebLogic
[July] [2023]
Version 14.7.1.0.0

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>

Copyright © [2007], [2023], 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.