

Deploying Oracle FLEXCUBE
Investor Servicing Application on WebLogic
Oracle FLEXCUBE Investor Servicing
Release 14.7.2.0.0
[May] [2023]



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1. Deploying Oracle FLEXCUBE Investor Servicing on WebLogic

1.1 Introduction

This chapter explains the steps to deploy Oracle FCIS application into Oracle WebLogic application server.

1.2 Building Application

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

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

1.3 Deploying Application in Oracle WebLogic

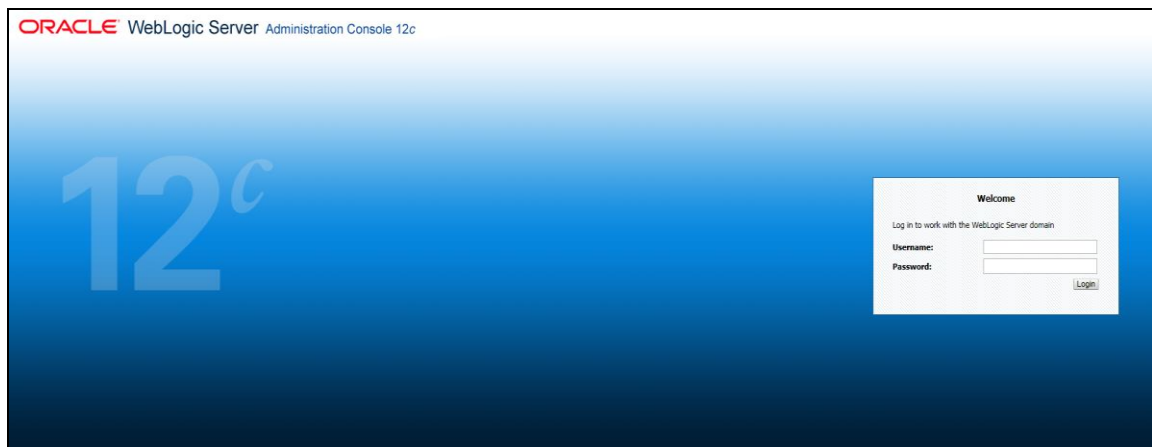
This section explains the method of deploying Oracle FLEXCUBE Investor Servicing Application Oracle WebLogic application server. Before deployment, all the resources mentioned in the document "Resources To be Created" have to be created.

1.3.1 Deploying Dependency Library "Jersey-bundle"

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

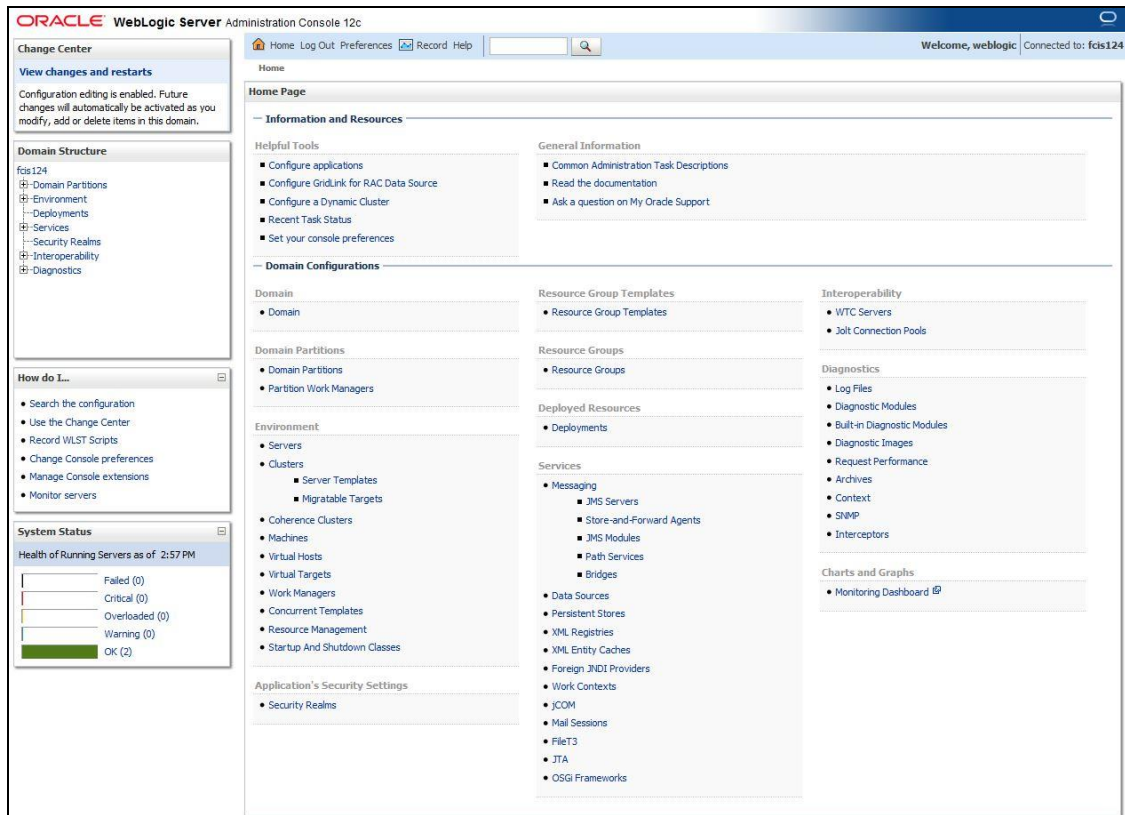
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser.
Eg: <http://10.10.10.10:1001/console>

The following screen is displayed:

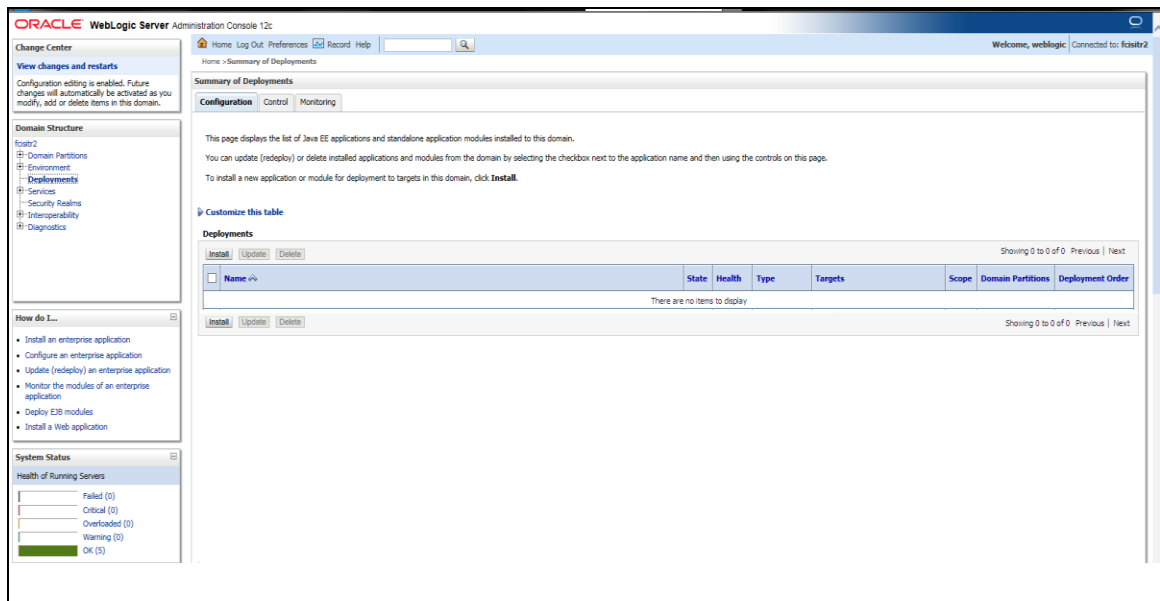


2. Specify the WebLogic administrator user name and password. Click 'Log In'.

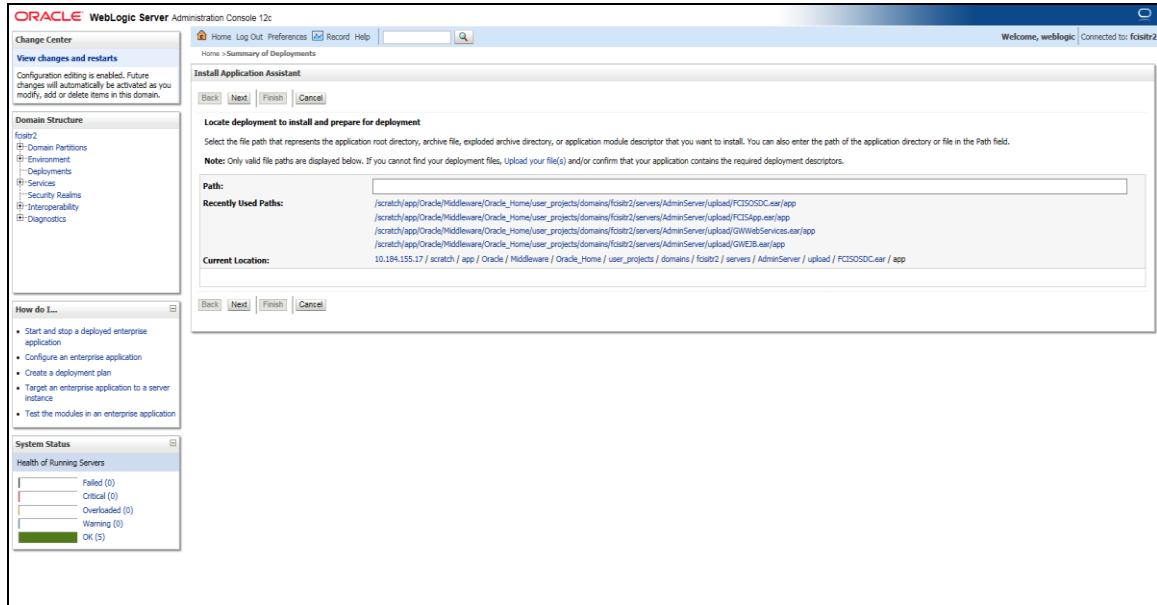
The following screen is displayed:



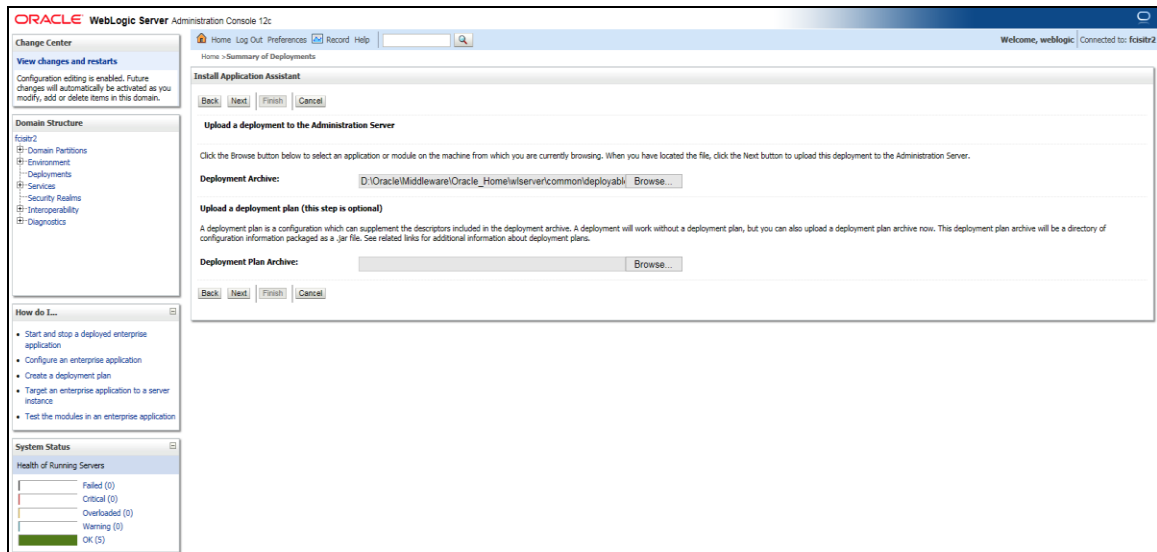
Click 'Deployments' button on the left hand side of the 'Weblogic Server' screen. The following screen is displayed:



3. Click install button. The following screen will be displayed.



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



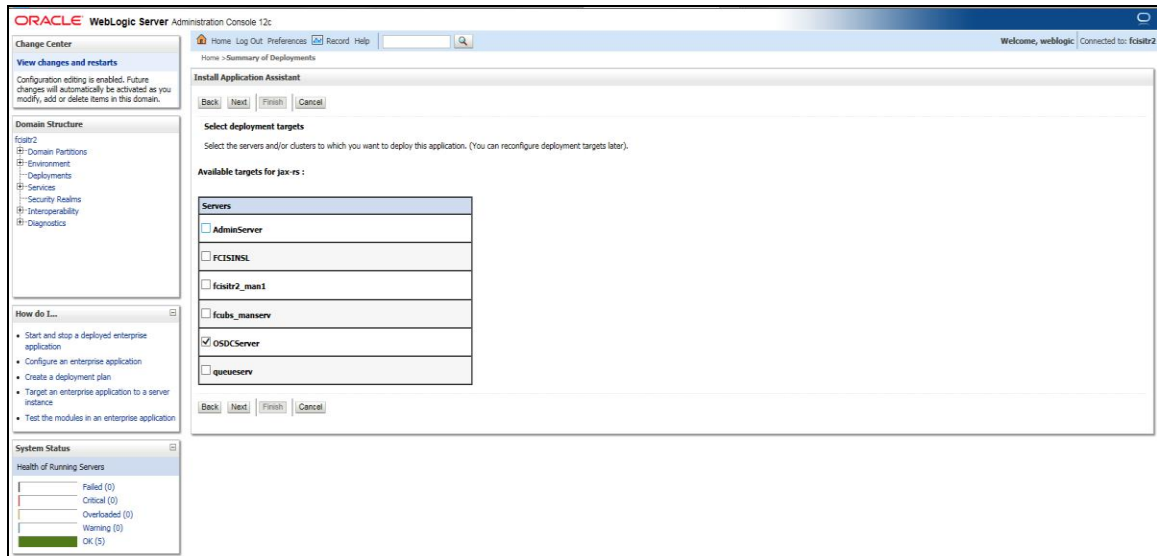
5. Click Browse in Deployment Archive and select jersey bundle under the path “*wlserver\common\deployable-libraries\jax-rs-x.x.war*” and click next.

The screenshot shows the 'Install Application Assistant' dialog box. On the left, there is a sidebar with 'Domain Structure' (base_domain, 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), and 'System Status' (Health of Running Servers as of 1:25 PM). The main area is titled 'Install Application Assistant' and has 'Back', 'Next', 'Finish', and 'Cancel' buttons. Below the title is the section 'Locate deployment to install and prepare for deployment'. It contains instructions: '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.' and a note: '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.' The 'Path:' field contains '/scratch/software/Oracle/Middleware/Oracle_Home/wlserver/common/deployable-libraries/jax-rs-2.0.war'. Below it, 'Recently Used Paths:' lists several paths. The 'Current Location:' is 'whf00csk / scratch / software / Oracle / Middleware / Oracle_Home / wlserver / common / deployable-libraries'. A list of files is shown with radio buttons: 'active-cache_1.0.jar', 'jax-rs-2.0.war' (selected), 'jsf-1.2.war', 'jsf-2.0.war', 'jsr311-api-1.1.1.war', 'jstl-1.2.war', 'pubsub-1.0.war', and 'weblogic-sca-1.2.war'. At the bottom are 'Back', 'Next', 'Finish', and 'Cancel' buttons.

6. Click Next and the following screen will be displayed.

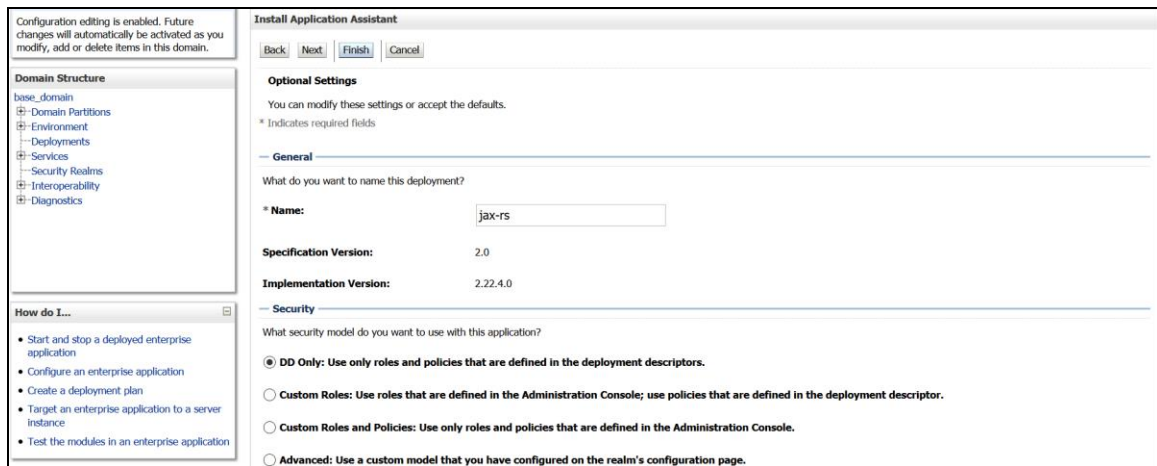
The screenshot shows the 'Install Application Assistant' dialog box at the 'Choose installation type and scope' step. The sidebar is the same as in the previous screenshot. The main area is titled 'Install Application Assistant' and has 'Back', 'Next', 'Finish', and 'Cancel' buttons. Below the title is the section 'Choose installation type and scope'. It contains instructions: 'Select if the deployment should be installed as an application or library. Also decide the scope of this deployment. The application and its components will be targeted to the same locations. This is the most common usage.' There are two radio buttons: 'Install this deployment as an application' and 'Install this deployment as a library' (selected). Below the radio buttons is the text: 'Application libraries are deployments that are available for other deployments to share. Libraries should be available on all of the targets running their referencing applications.' Below this is the text: 'Select a scope in which you want to install the deployment.' and a 'Scope:' dropdown menu set to 'Global'. At the bottom are 'Back', 'Next', 'Finish', and 'Cancel' buttons.

7. Select “install this deployment as library” and click next.

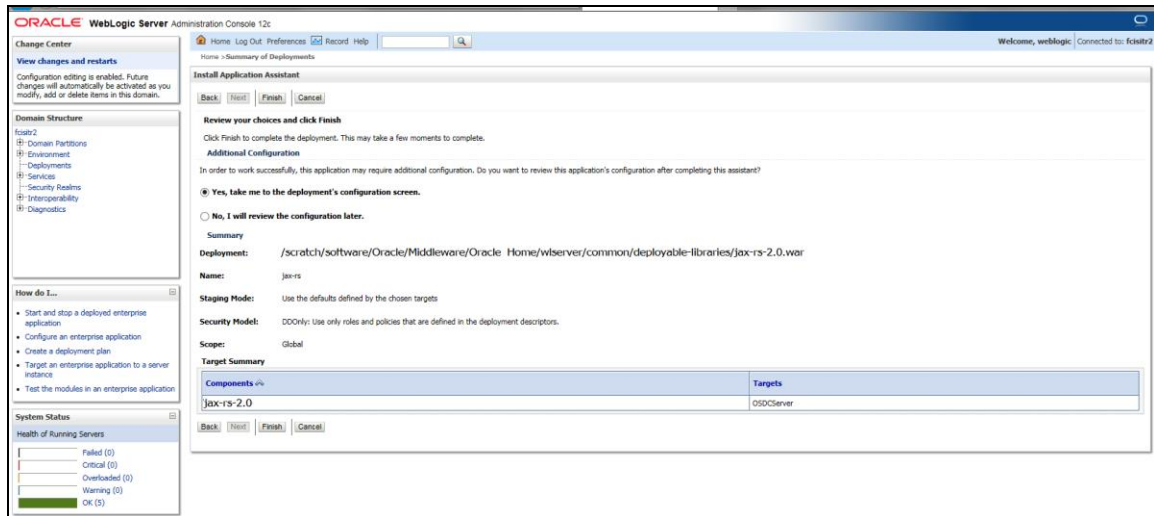


8. Select the target of the application. You can choose the server 'AdminServer' or 'Managed Server(s)'.

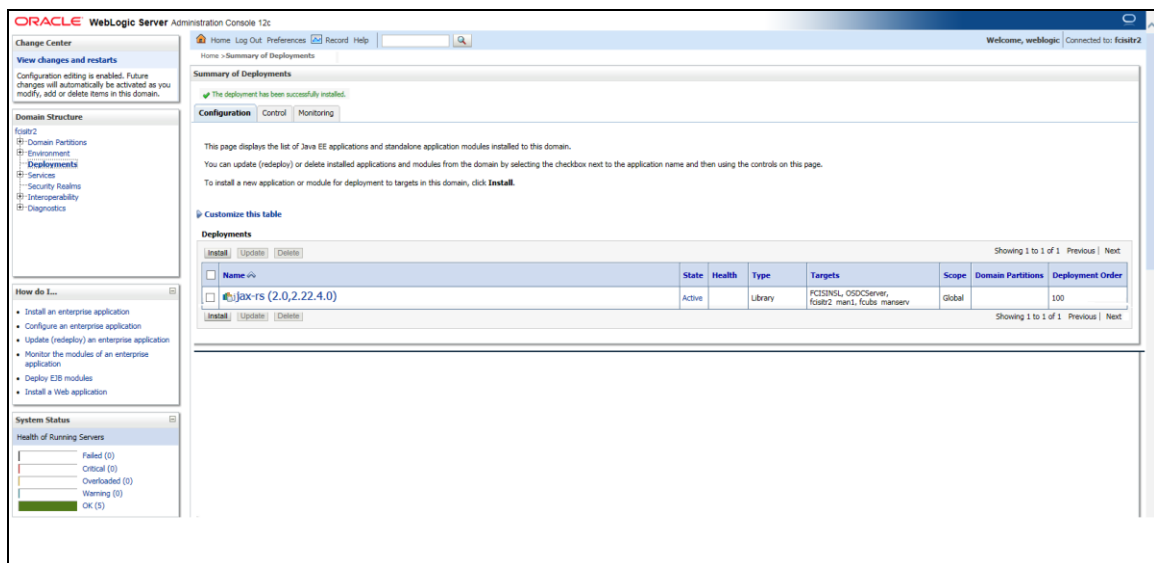
Click of 'Next' the following screen will be displayed.



9. Click Next



10. Click Finish button



This library must appear in the deployment with Type column as "Library".

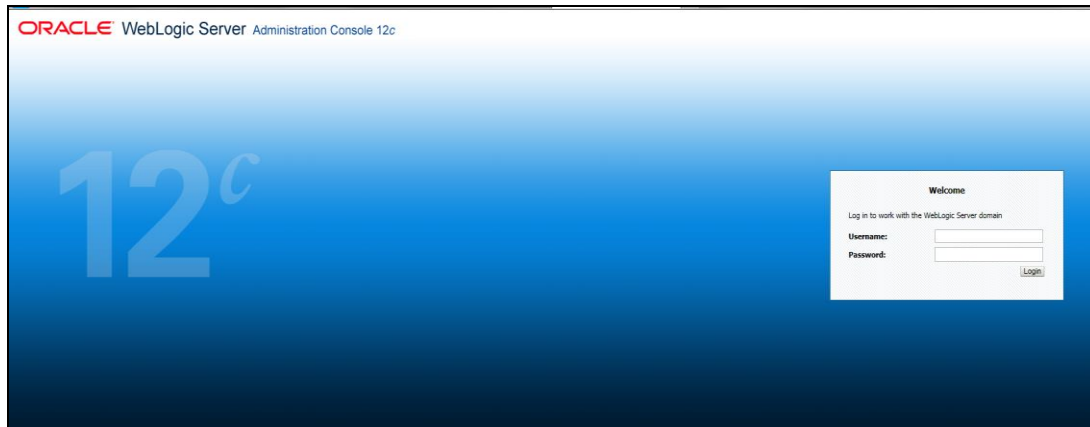
Note :- latest jax-rs version will be jax-rs(2.0,2.22.4.0)

1.3.2 Deploying Application from WebLogic Administration Console

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

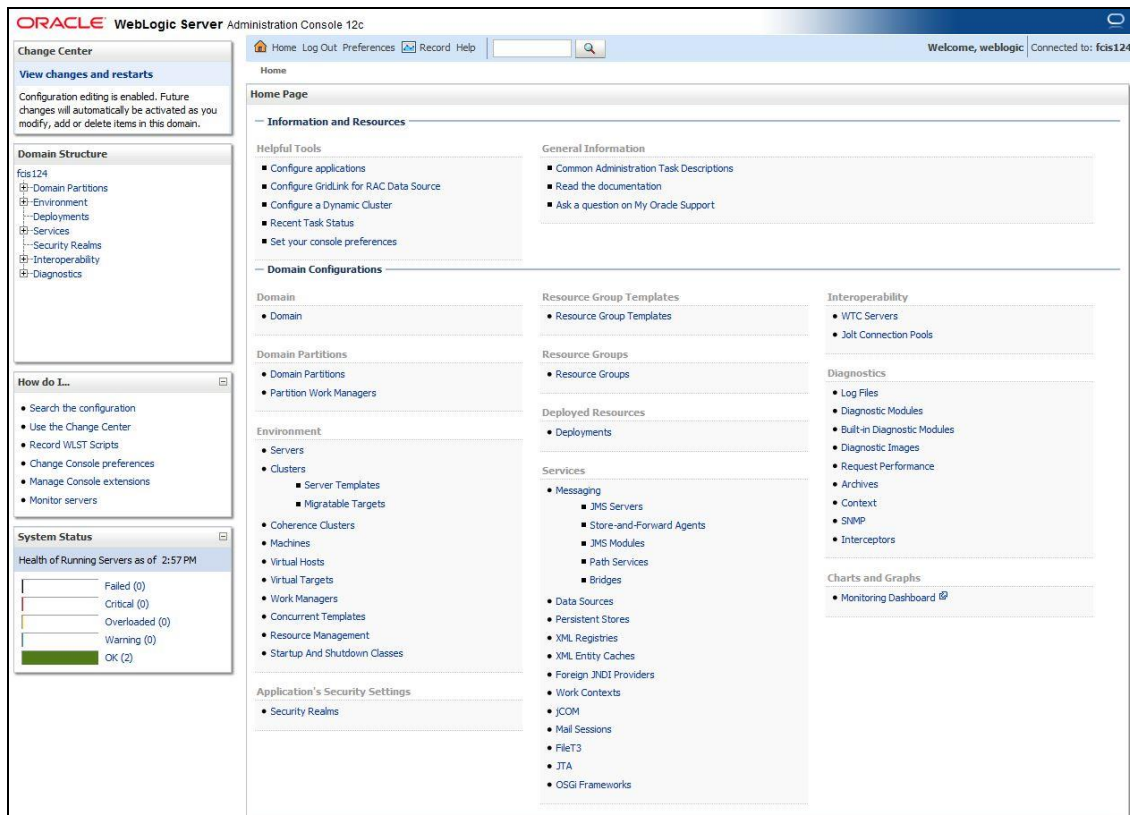
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser.
Eg: <http://10.10.10.10:1001/console>

The following screen is displayed:

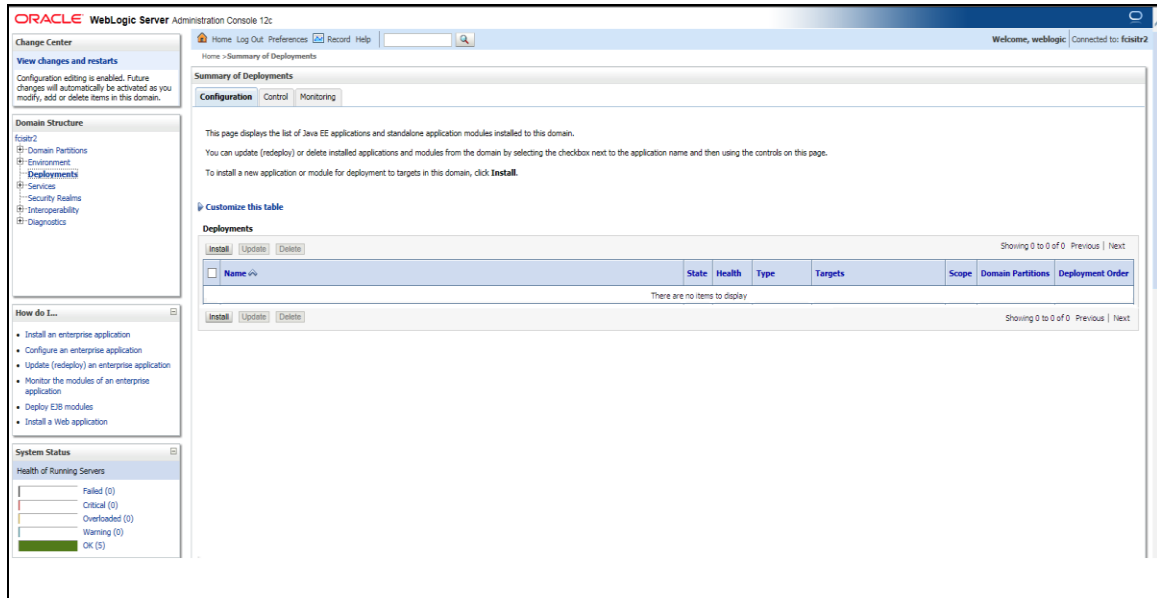


2. Specify the WebLogic administrator user name and password. Click 'Log In'.

The following screen is displayed:

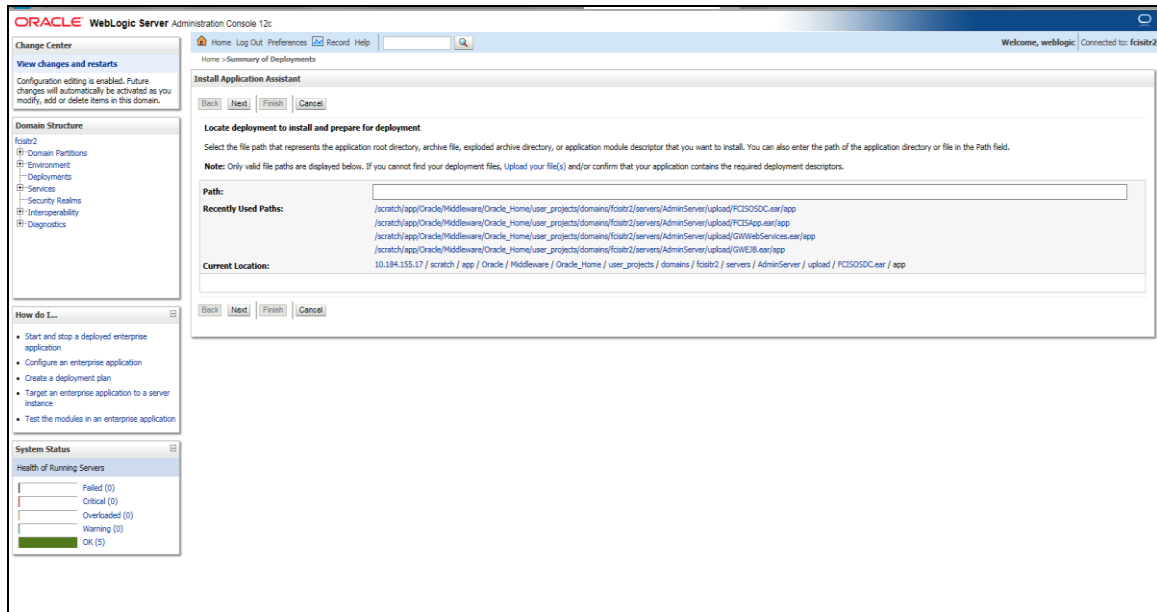


Click 'Deployments' button on the left hand side of the 'Weblogic Server' screen. The following screen is displayed:

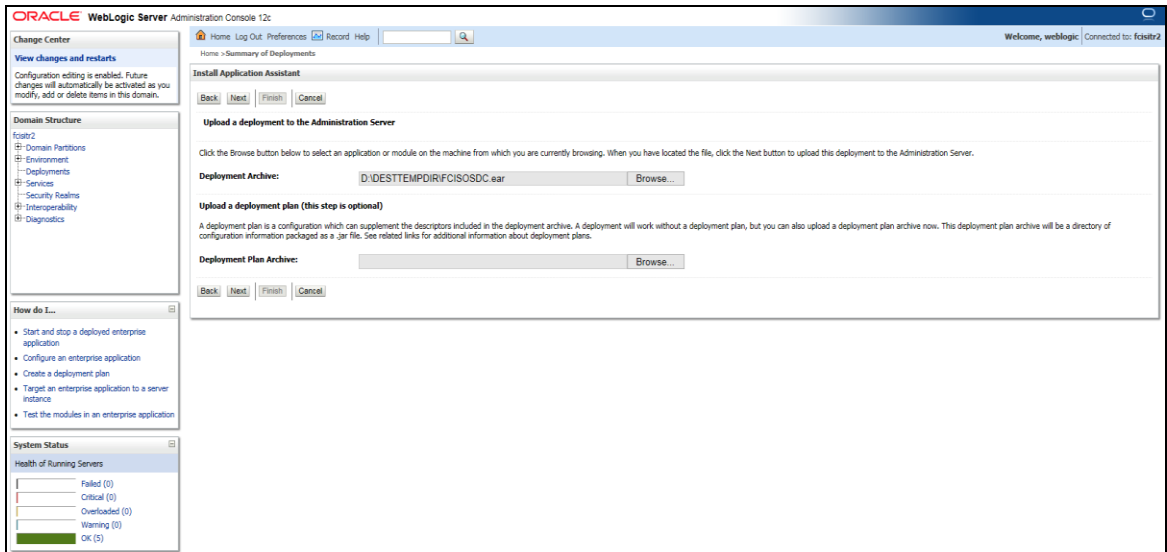


You need to deploy an EAR. For instance, 'FCISApp.ear'. Go to 'Deployment'.

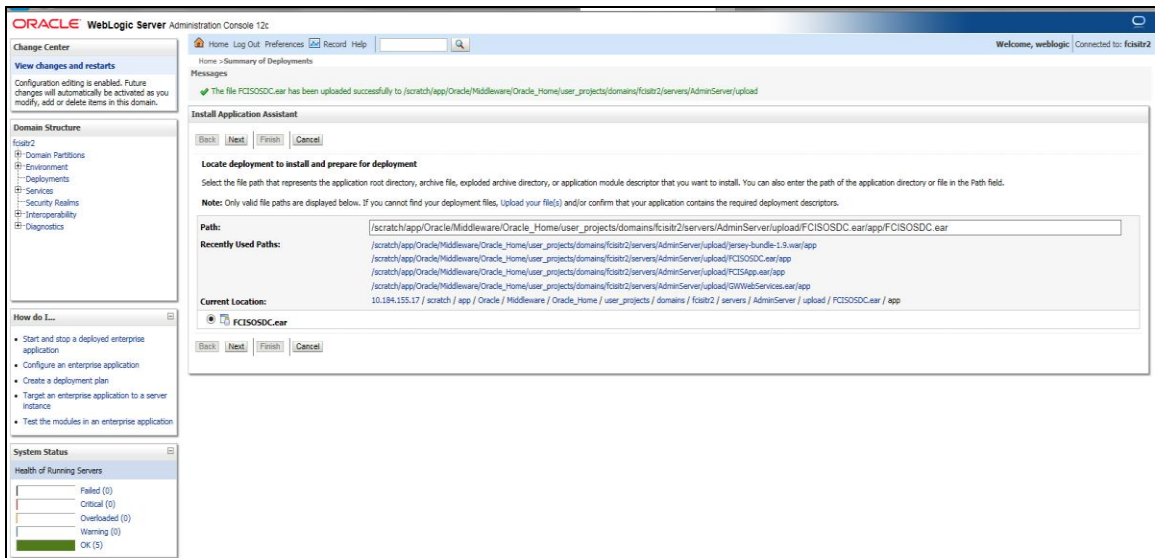
3. Click 'Install' button. The following screen is displayed:



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

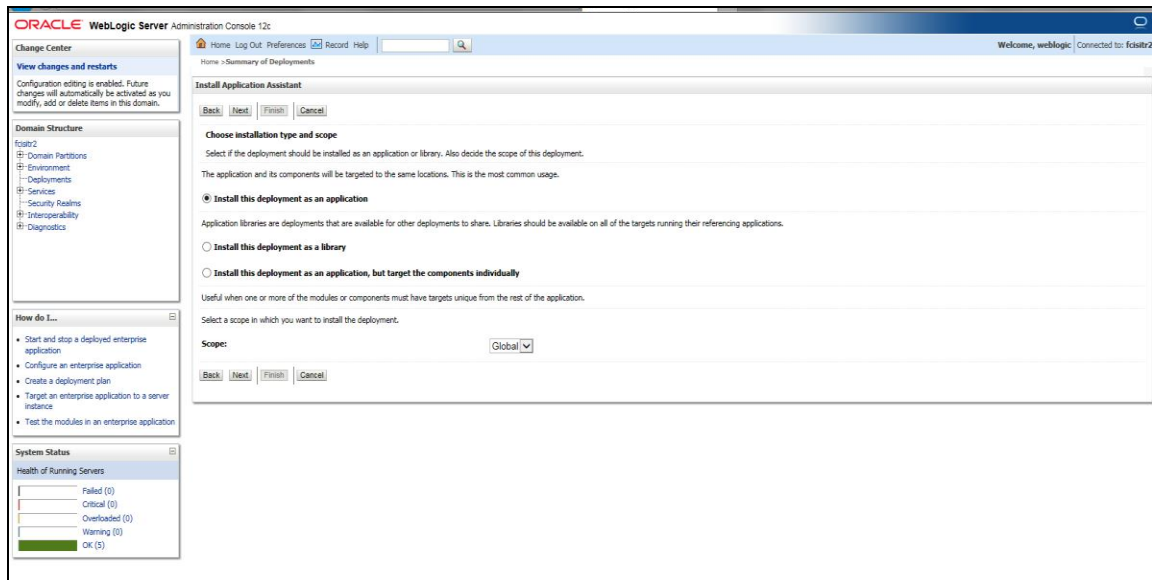


4. Specify the EAR file path. You can use the ‘Browse’ button to locate the file.
5. Click ‘Next’. The following screen is displayed.



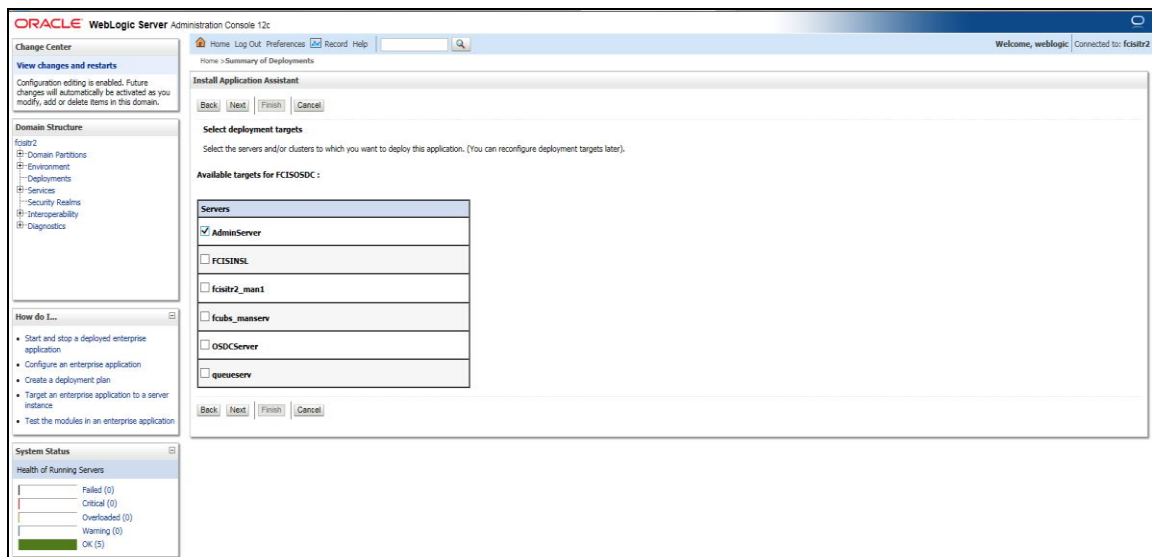
6. Select the application ‘FCISApp.ear’ from the list.

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



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

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



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

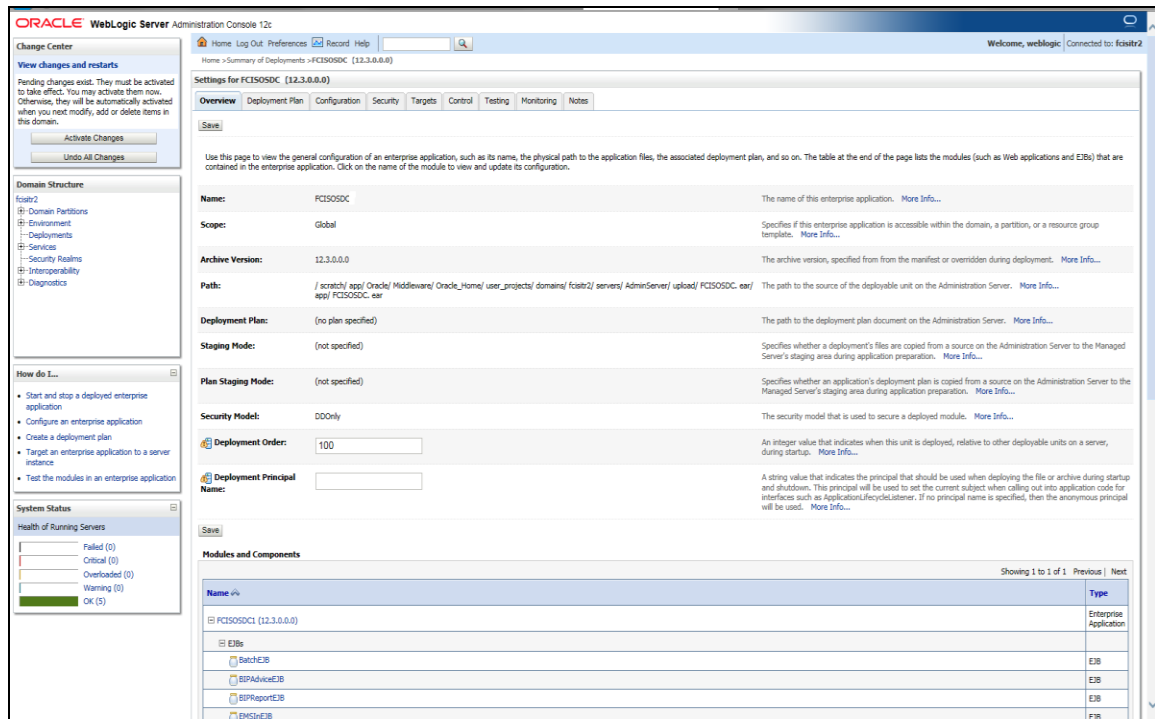
11. Click 'Next'. The following screen is displayed.

The screenshot shows the Oracle WebLogic Server Administration Console. The left sidebar contains the 'Change Center' with a 'View changes and restarts' link, a 'Domain Structure' tree, and a 'System Status' section showing 'Health of Running Servers' with a green bar indicating 'OK (3)'. The main content area is titled 'Install Application Assistant' and shows the 'Optional Settings' page. The 'General' section has a 'Name' field with the value 'FCISOSDC' and an 'Archive Version' field with the value '12.3.0.0.0'. The 'Security' section has a 'What security model do you want to use with this application?' question with three radio button options: 'DD Only: Use only roles and policies that are defined in the deployment descriptors.' (selected), 'Custom Roles: Use roles that are defined in the Administration Console; use policies that are defined in the deployment descriptor.', and 'Advanced: Use a custom model that you have configured on the realm's configuration page.'. The 'Source Accessibility' section has a 'How should the source files be made accessible?' question with two radio button options: 'Use the defaults defined by the deployment's targets' (selected) and 'Copy this application onto every target for me'. A 'Location' field contains the path '/scratch/app/Oracle/Middleware/Oracle_Home/user_projects'. The 'Plan Source Accessibility' section has a 'How should the plan source files be made accessible?' question with a radio button option 'Use the same accessibility as the application'.

12. Check whether the deployment location is accessible or not. Click next.

The screenshot shows the Oracle WebLogic Server Administration Console. The left sidebar is the same as in the previous screenshot. The main content area is titled 'Install Application Assistant' and shows the 'Review your choices and click Finish' page. The 'Additional Configuration' section has a 'In order to work successfully, this application may require additional configuration. Do you want to review this application's configuration after completing this assistant?' question with two radio button options: 'Yes, take me to the deployment's configuration screen.' (selected) and 'No, I will review the configuration later.'. The 'Summary' section shows a 'Deployment' field with the value '/scratch/app/Oracle/Middleware/Oracle_Home/user_projects/domains/FCIS2/servers/AdminServer/upload/FCISOSDC.ear/app/FCISOSDC.ear', a 'Name' field with the value 'FCISOSDC', a 'Staging Mode' field with the value 'Use the defaults defined by the chosen targets', a 'Plan Staging Mode' field with the value 'Use the same accessibility as the application', a 'Security Model' field with the value 'DDOnly: Use only roles and policies that are defined in the deployment descriptors.', and a 'Scope' field with the value 'Global'. The 'Target Summary' section shows a table with two columns: 'Components' and 'Targets'. The table has one row with the value 'FCISOSDC.ear' in the 'Components' column and 'AdminServer' in the 'Targets' column. The table has a 'Back' button and a 'Next' button.

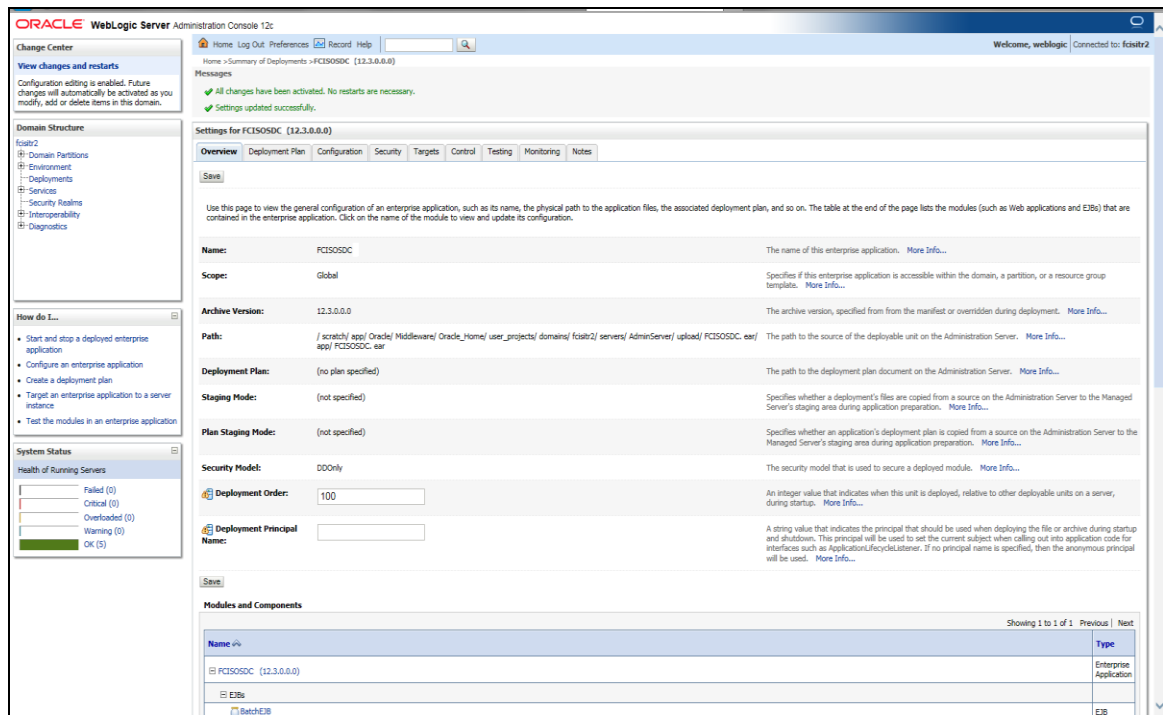
Click 'Finish' button. The following screen is displayed.



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

14. 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. The screen is given below:



15. Click 'Deployment' on the left pane. The following screen is displayed.

The screenshot shows the Oracle WebLogic Server Administration Console. The left pane has 'Deployment' selected under 'Domain Structure'. The main area is titled 'Summary of Deployments' and shows a table of installed applications. The table has columns: Name, State, Health, Type, Targets, Scope, Domain Partitions, and Deployment Order. One application, 'FCISOSDC (12.3.0.0.0)', is listed with a checked checkbox, 'Active' state, 'OK' health, 'Enterprise Application' type, 'OSDCServer' target, 'Global' scope, and '100' deployment order.

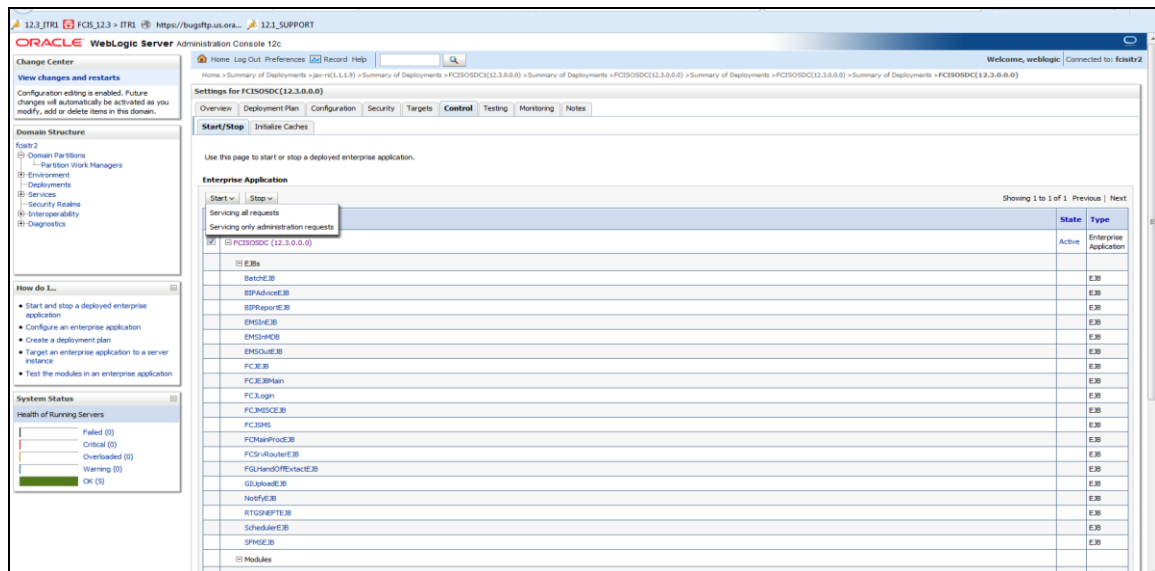
Name	State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
<input checked="" type="checkbox"/> FCISOSDC (12.3.0.0.0)	Active	OK	Enterprise Application	OSDCServer	Global		100

16. Click on the FCISOSDC deployment and the following screen will be displayed.

The screenshot shows the 'Settings for FCISOSDC(12.3.0.0.0)' page in the Oracle WebLogic Server Administration Console. The left pane has 'FCISOSDC' selected under 'Domain Structure'. The main area shows various configuration fields for the deployment, including Name, Scope, Archive Version, Path, Deployment Plan, Staging Mode, Plan Staging Mode, Security Model, Deployment Order, and Deployment Principal. Below these fields is a 'Modules and Components' table.

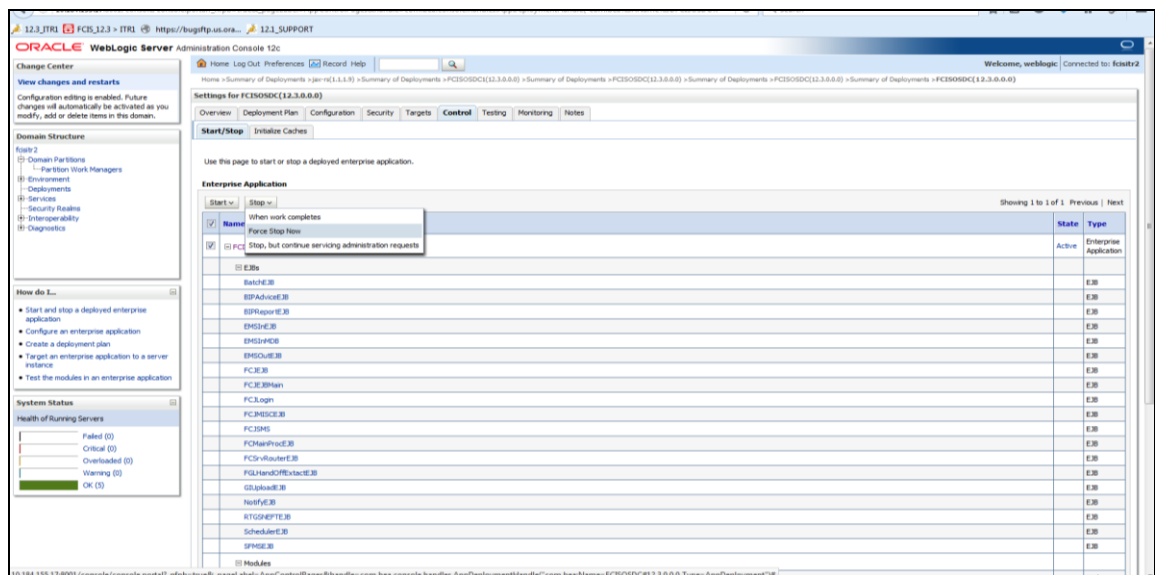
Name	Type
FCISOSDC (12.3.0.0.0)	Enterprise Application

17. Select Control tab in order to start or stop a deployed enterprise application. The following screen will be displayed.



18. To start, click 'Start' drop-down button and select 'Servicing all requests' on the deployment.

19. The following screen will be displayed.



20. To stop, select the 'Stop' drop-down and select 'Force Stop now' option in the deployment.

This completes the deployment process.



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