

Deploying Oracle FLEXCUBE Investor Servicing  
Application on WebLogic  
Oracle FLEXCUBE Investor Servicing  
Release 14.7.6.0.0  
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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

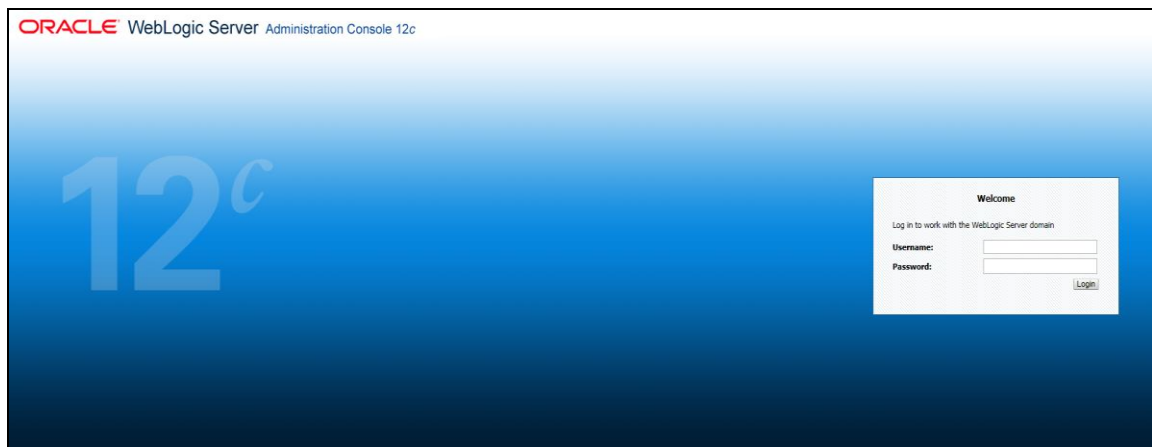
This section explains the method of deploying Oracle FLEXCUBE Investor Servicing Application Oracle WebLogic application server. Before deployment, all the resources mentioned in the document "Resources To be Created" have to be created.

### 1.3.1 Deploying Dependency Library "Jersey-bundle"

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

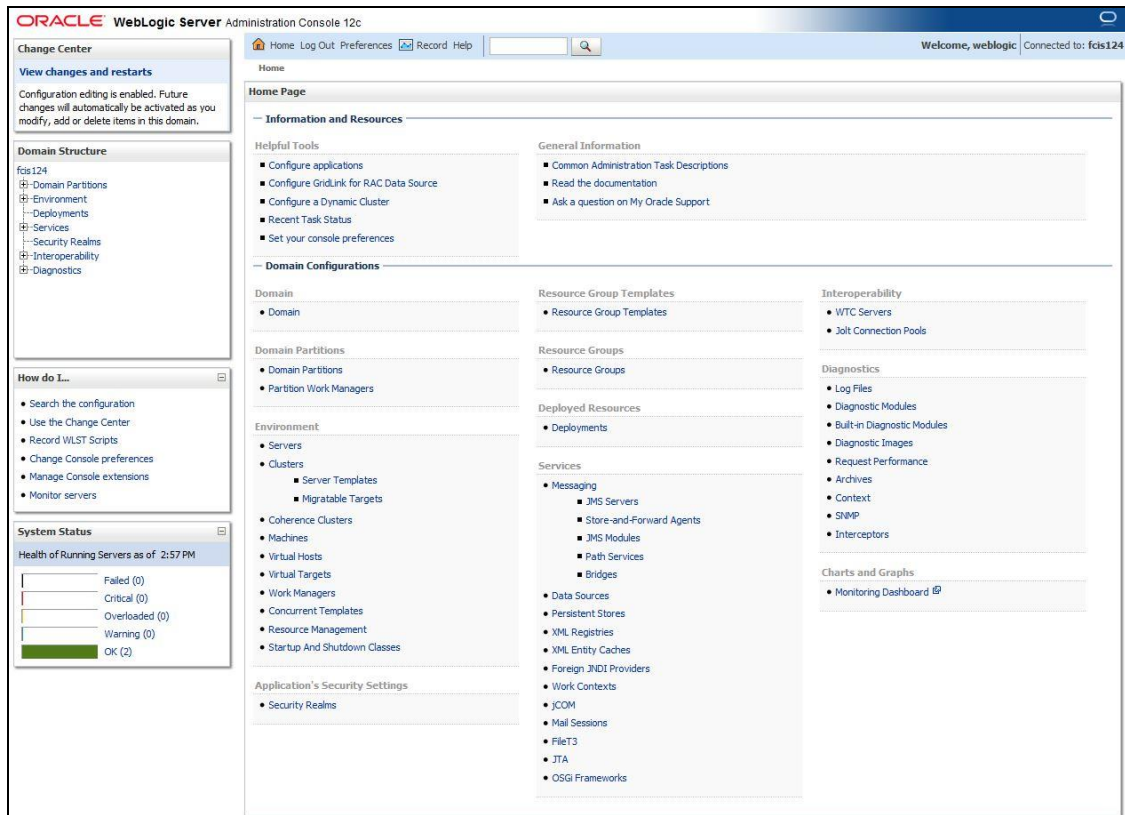
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser.  
Eg: <http://10.10.10.10:1001/console>

The following screen is displayed:

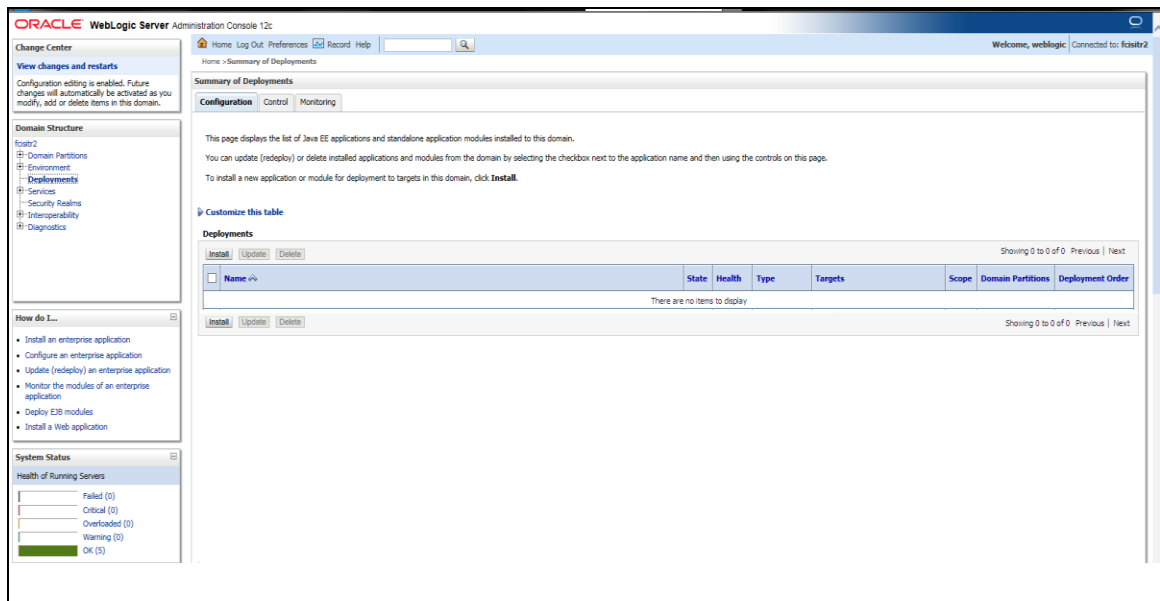


2. Specify the WebLogic administrator user name and password. Click 'Log In'.

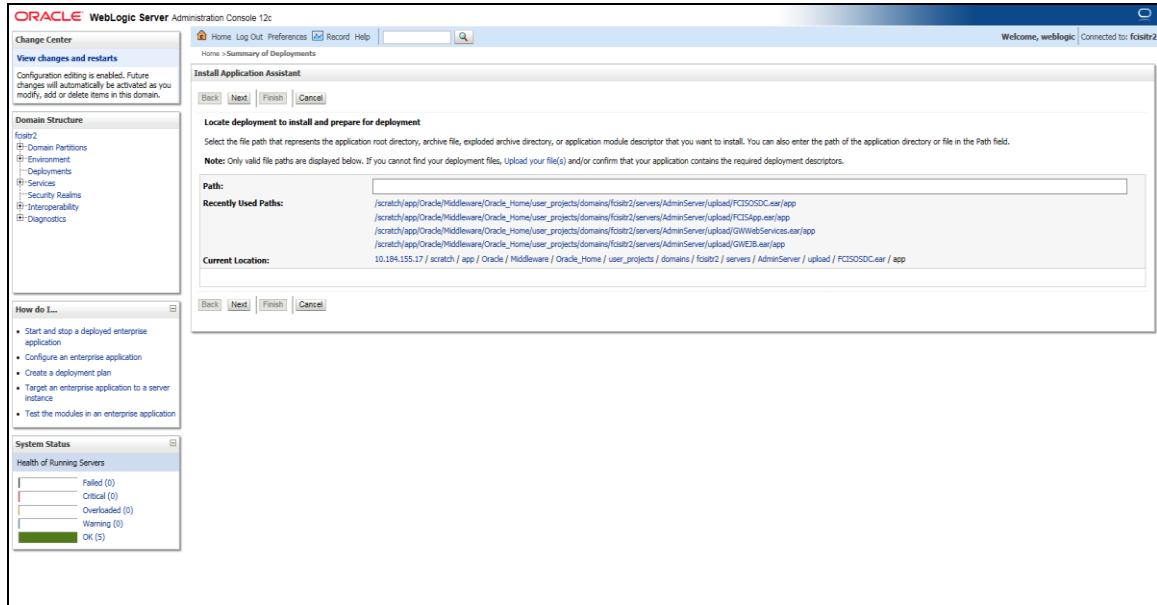
The following screen is displayed:



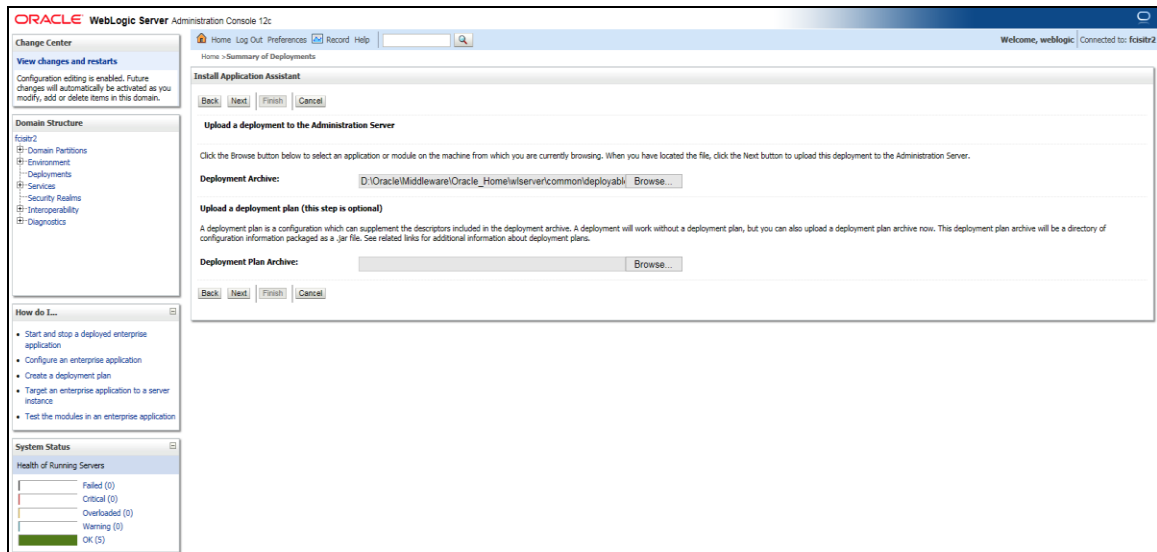
Click 'Deployments' button on the left hand side of the 'Weblogic Server' screen. The following screen is displayed:



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)'.



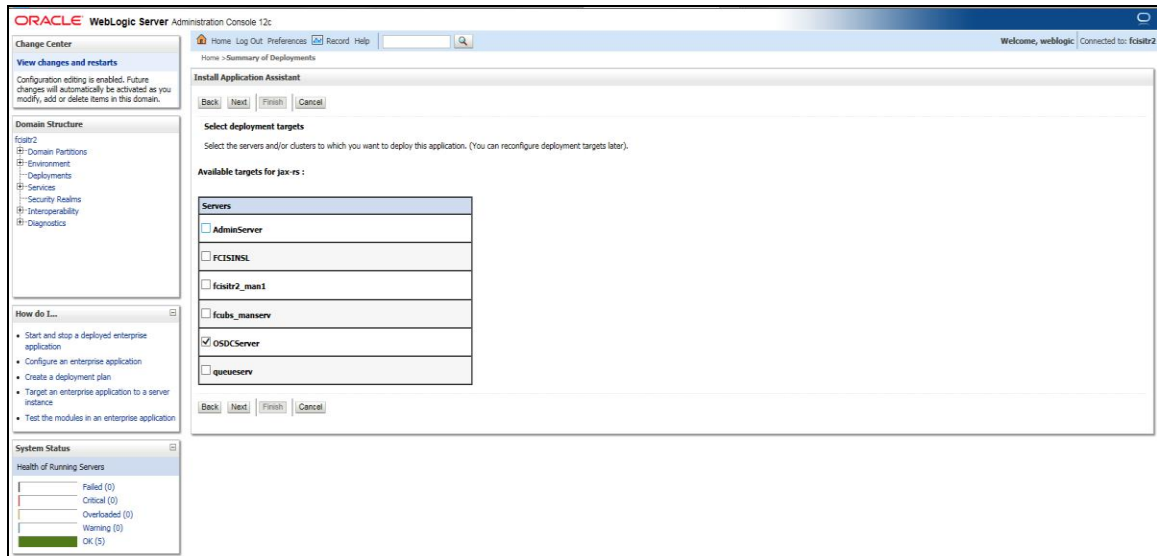
5. Click Browse in Deployment Archive and select jersey bundle under the path “*wlserver\common\deployable-libraries\jax-rs-x.x.war*” and click next.

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 of the dialog is titled 'Locate deployment to install and prepare for deployment'. It contains a 'Path' field with the value '/scratch/software/Oracle/Middleware/Oracle\_Home/wlserver/common/deployable-libraries/jax-rs-2.0.war'. Below this is a 'Recently Used Paths' list. The 'Current Location' is shown as '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'. Navigation buttons 'Back', 'Next', 'Finish', and 'Cancel' are at the bottom.

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

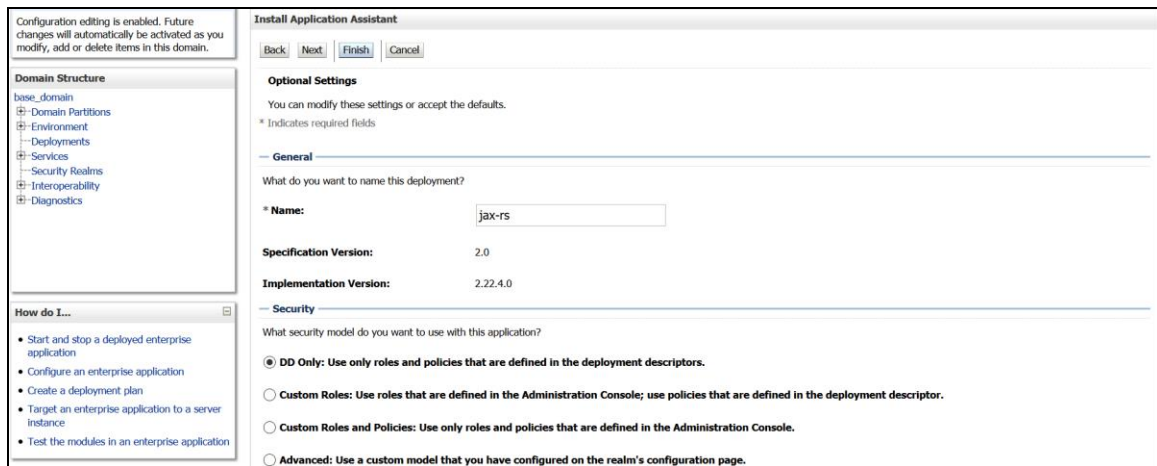
The screenshot shows the 'Install Application Assistant' dialog box at the 'Choose installation type and scope' step. The sidebar on the left is the same as in the previous screenshot. The main area has a title bar 'ORACLE WebLogic Server Administration Console 12c' and a menu bar 'Home Log Out Preferences Record Help'. Below the title bar is a search bar and a 'Welcome, weblogic Connected to: fcsitr2' message. The main content area is titled 'Summary of Deployments' and 'Install Application Assistant'. It has a 'Choose installation type and scope' section with a description: '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 a 'Scope:' label and a dropdown menu set to 'Global'. Navigation buttons 'Back', 'Next', 'Finish', and 'Cancel' are at the bottom.

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

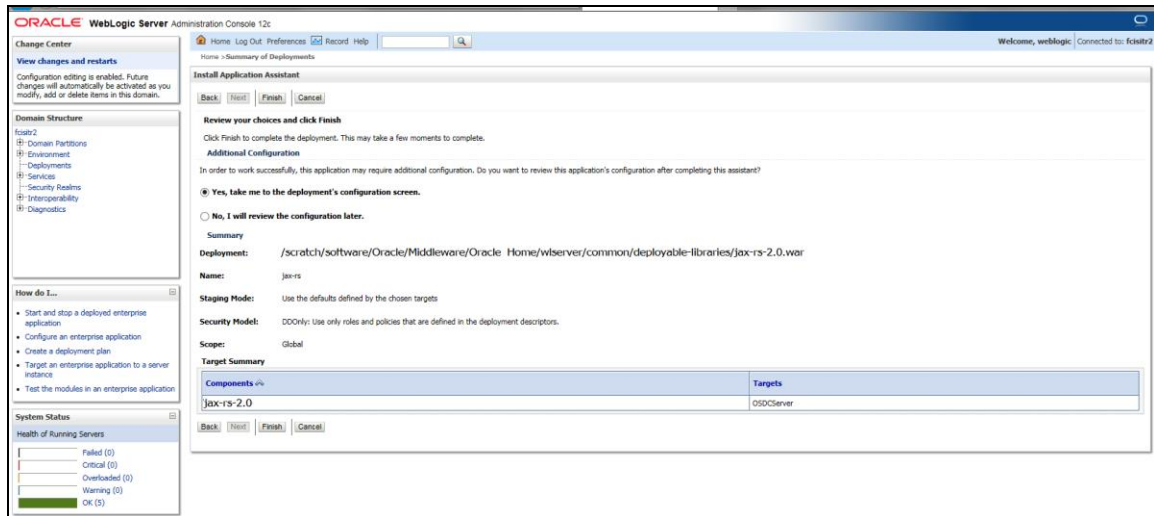


8. Select the target of the application. You can choose the server 'AdminServer' or 'Managed Server(s)'.

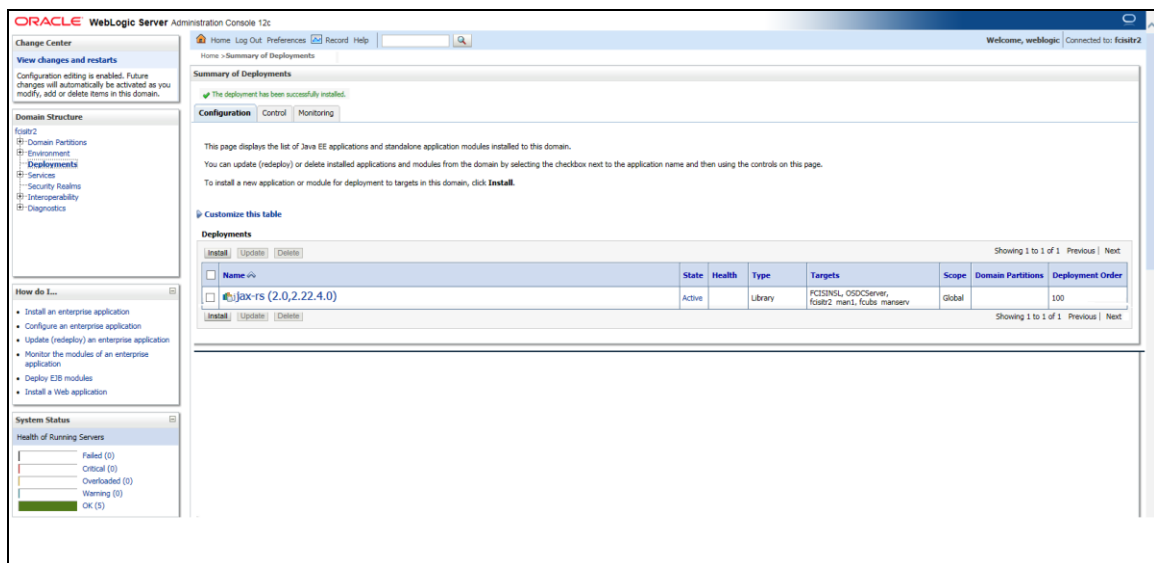
Click of 'Next' the following screen will be displayed.



## 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)

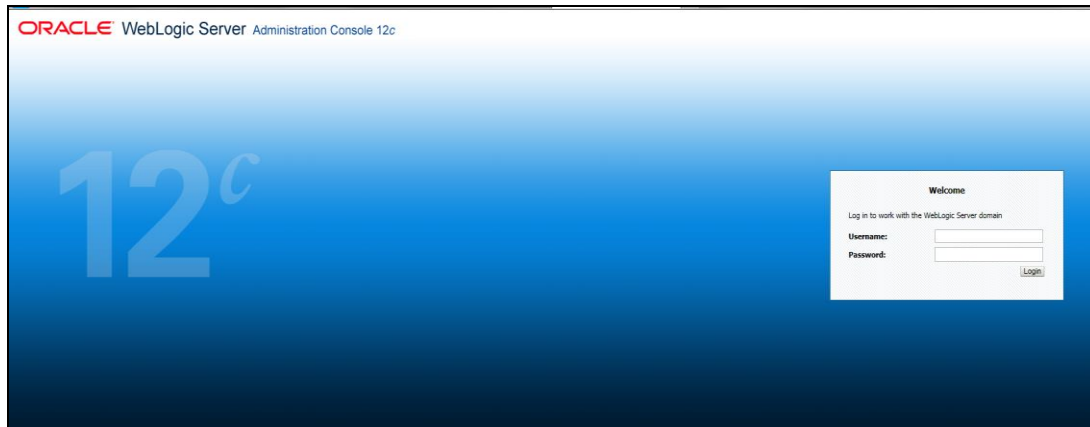


### 1.3.2 Deploying Application from WebLogic Administration Console

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

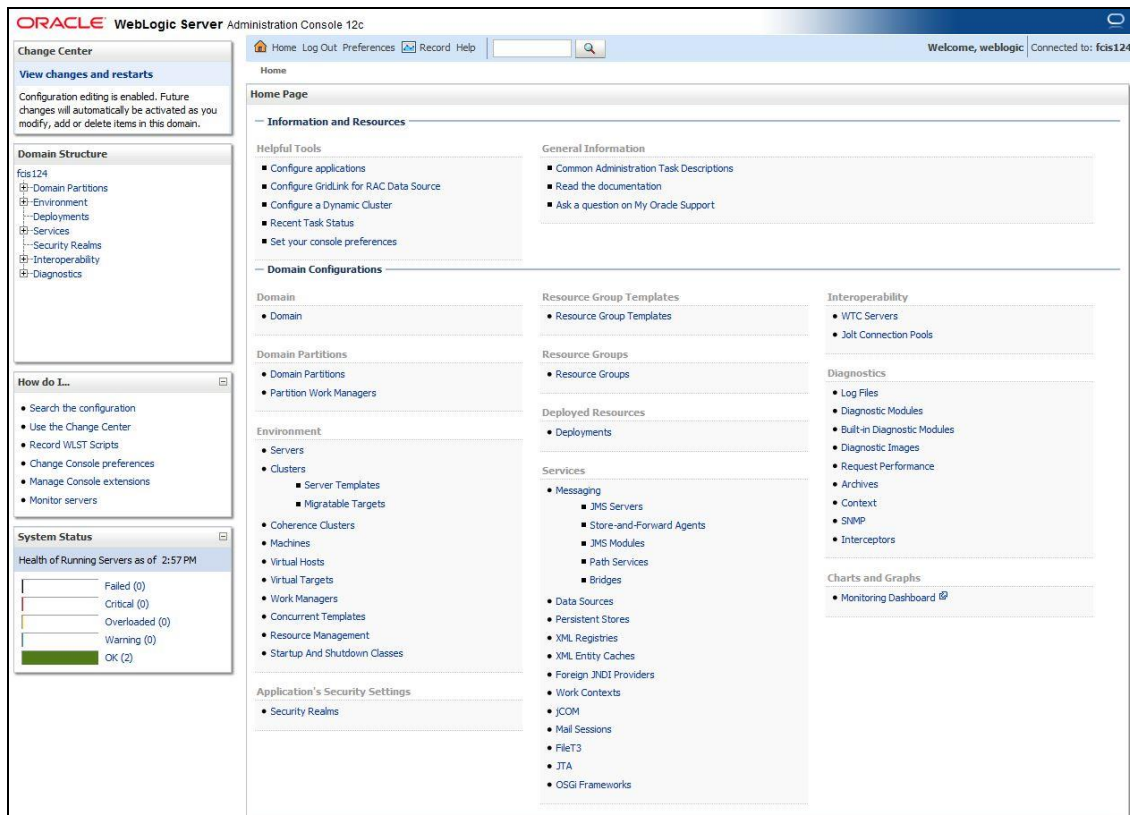
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser.  
Eg: <http://10.10.10.10:1001/console>

The following screen is displayed:

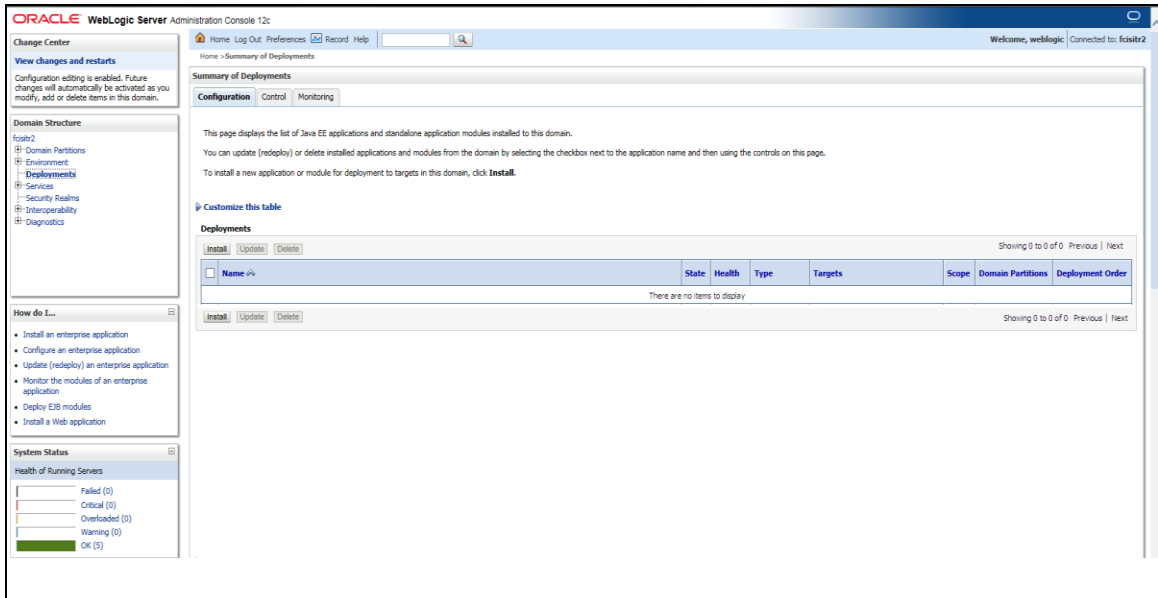


2. Specify the WebLogic administrator user name and password. Click 'Log In'.

The following screen is displayed:

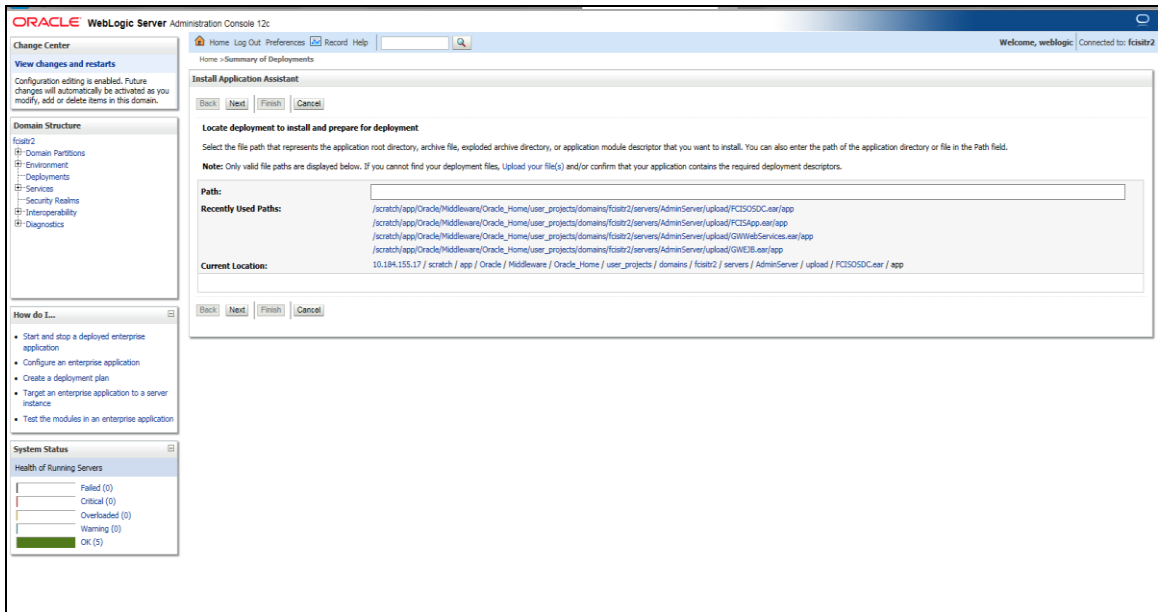


Click 'Deployments' button on the left hand side of the 'Weblogic Server' screen. The following screen is displayed:

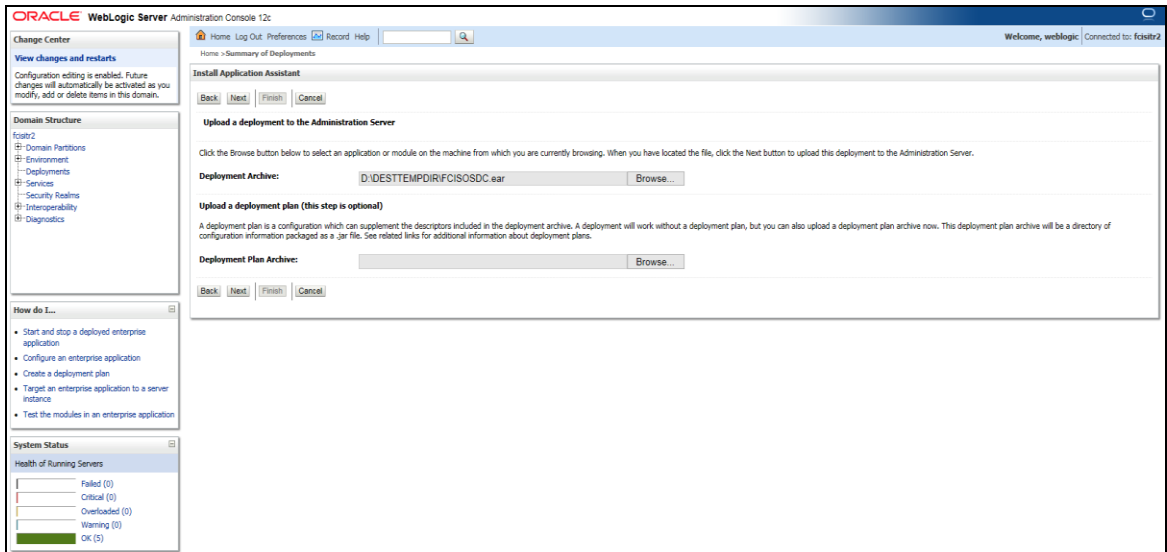


You need to deploy an EAR. For instance, 'FCISApp.ear'. Go to 'Deployment'.

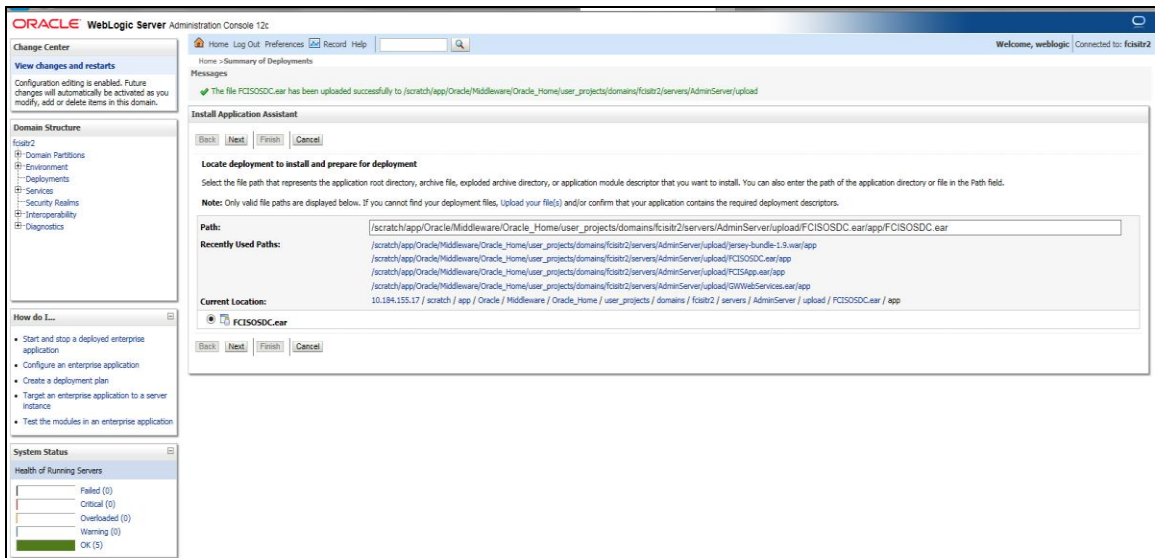
3. Click 'Install' button. The following screen is displayed:



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

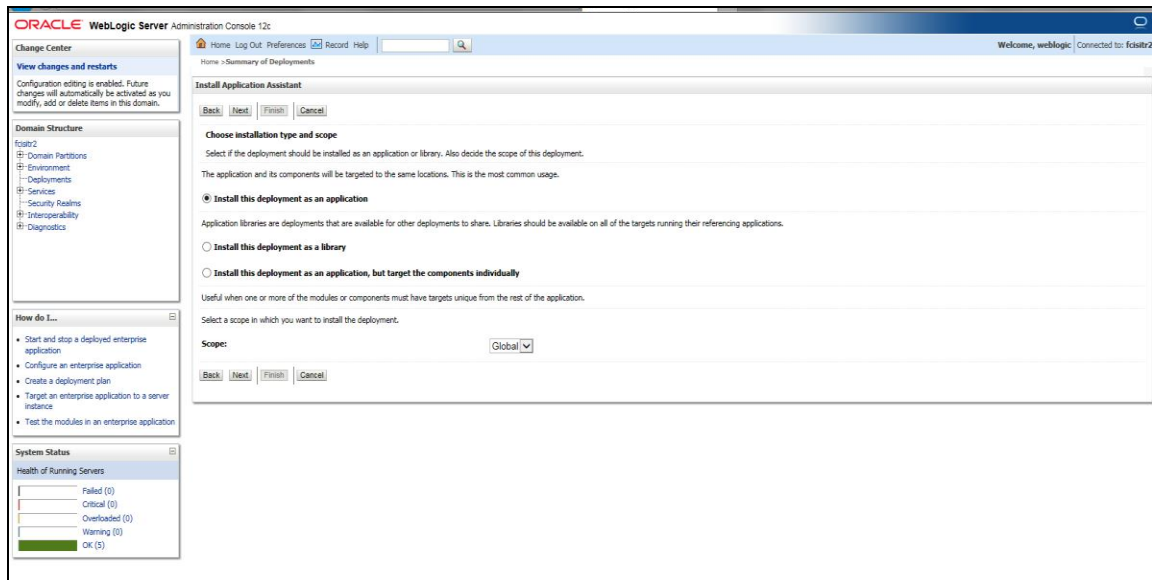


4. Specify the EAR file path. You can use the ‘Browse’ button to locate the file.
5. Click ‘Next’. The following screen is displayed.



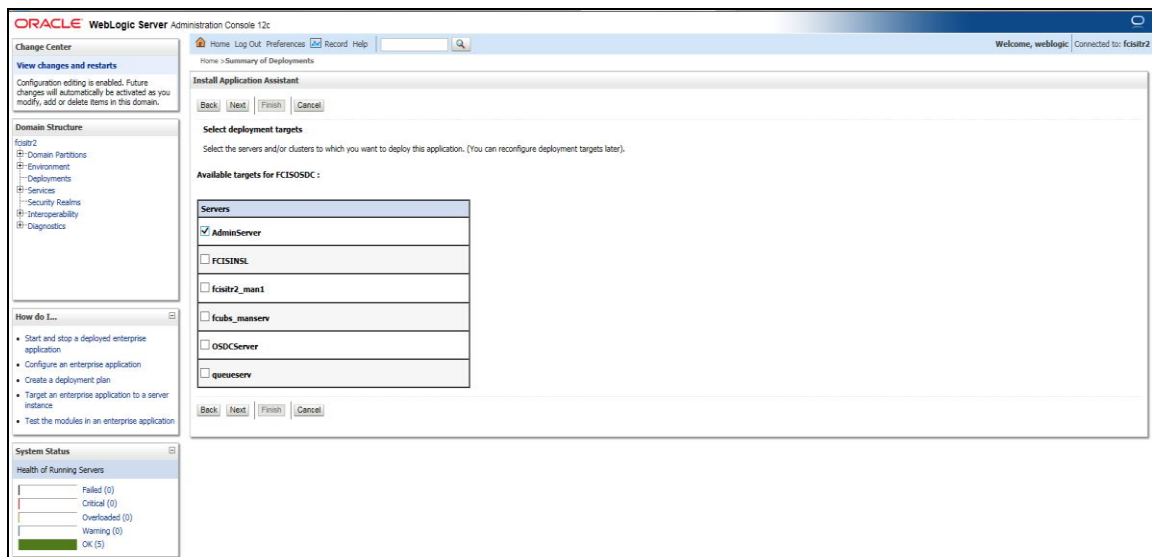
6. Select the application ‘FCISApp.ear’ from the list.

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.

**ORACLE WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: fcsistr2

Home > Summary of Deployments

**Install Application Assistant**

Back Next Finish Cancel

**Optional Settings**

You can modify these settings or accept the defaults.  
\* Indicates required fields

**General**

What do you want to name this deployment?

\* Name: FCSISDC

Archive Version: 12.3.0.0.0

Deployment Plan Version:

**Security**

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

☒ **DO 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

Location: /scratch/app/Oracle/Middleware/Oracle\_Home/user\_projects

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**

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

**ORACLE WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: fcsistr2

Home > Summary of Deployments

**Install Application Assistant**

Back Next Finish Cancel

**Review your choices and click Finish**

Click Finish to complete the deployment. This may take a few moments to complete.

**Additional Configuration**

In order to work successfully, this application may require additional configuration. Do you want to review this application's configuration after completing this assistant?

☒ **Yes, take me to the deployment's configuration screen.**

☐ No, I will review the configuration later.

**Summary**

Deployment: /scratch/app/Oracle/Middleware/Oracle\_Home/user\_projects/domains/fcsistr2/servers/AdminServer/upload/FCSISDC.ear/app/FCSISDC.ear

Name: FCSISDC

Staging Mode: Use the defaults defined by the chosen targets

Plan Staging Mode: Use the same accessibility as the application

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

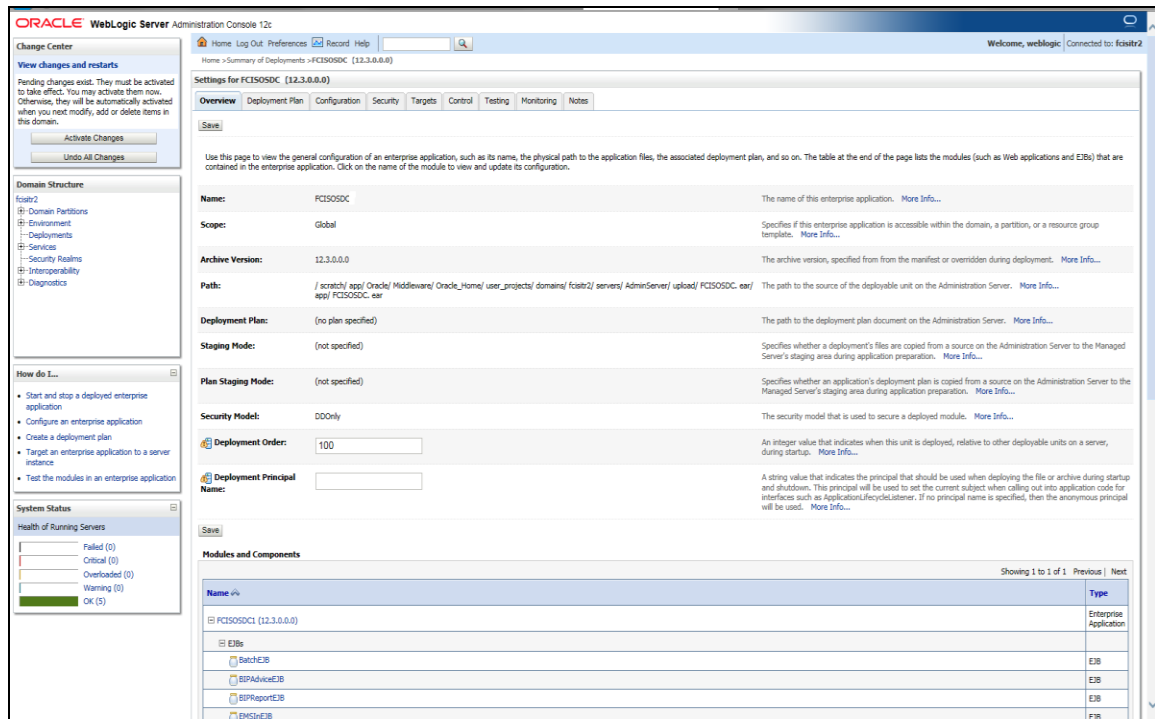
Scope: Global

**Target Summary**

Components	Targets
FCSISDC.ear	AdminServer

Back Next Finish Cancel

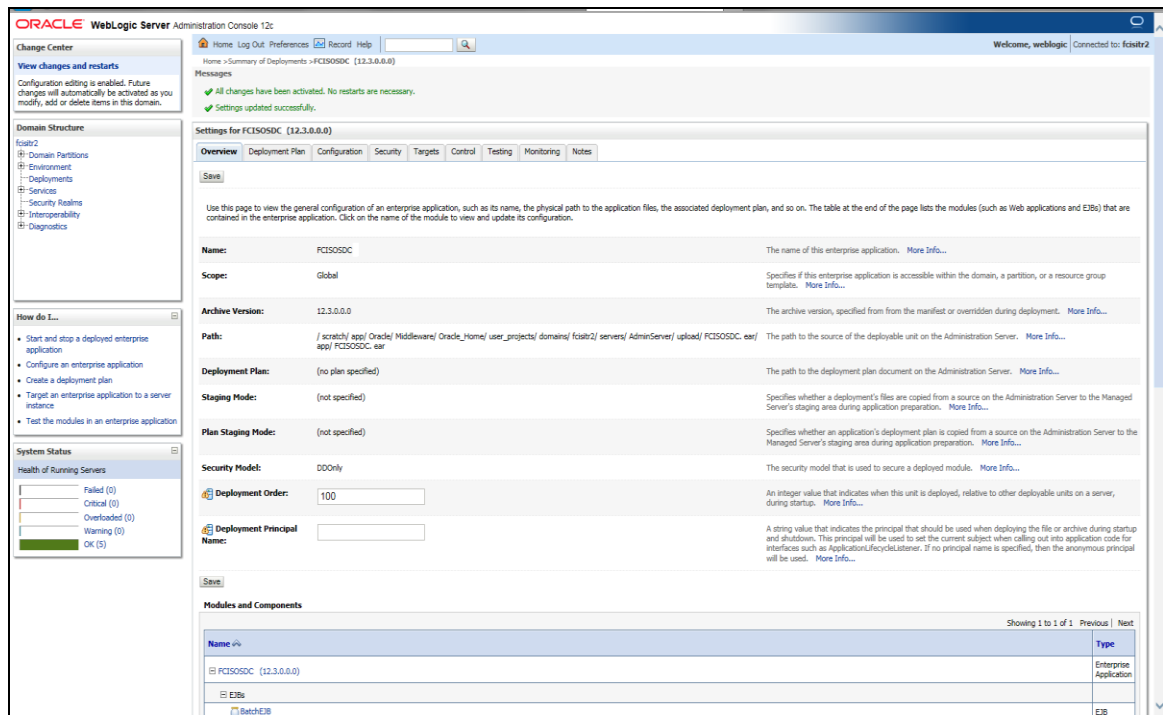
Click 'Finish' button. The following screen is displayed.



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 deployments. The table has columns: Name, State, Health, Type, Targets, Scope, Domain Partitions, and Deployment Order. One deployment is listed: FCISOSDC (12.3.0.0.0) with State 'Active' and Health 'OK'.

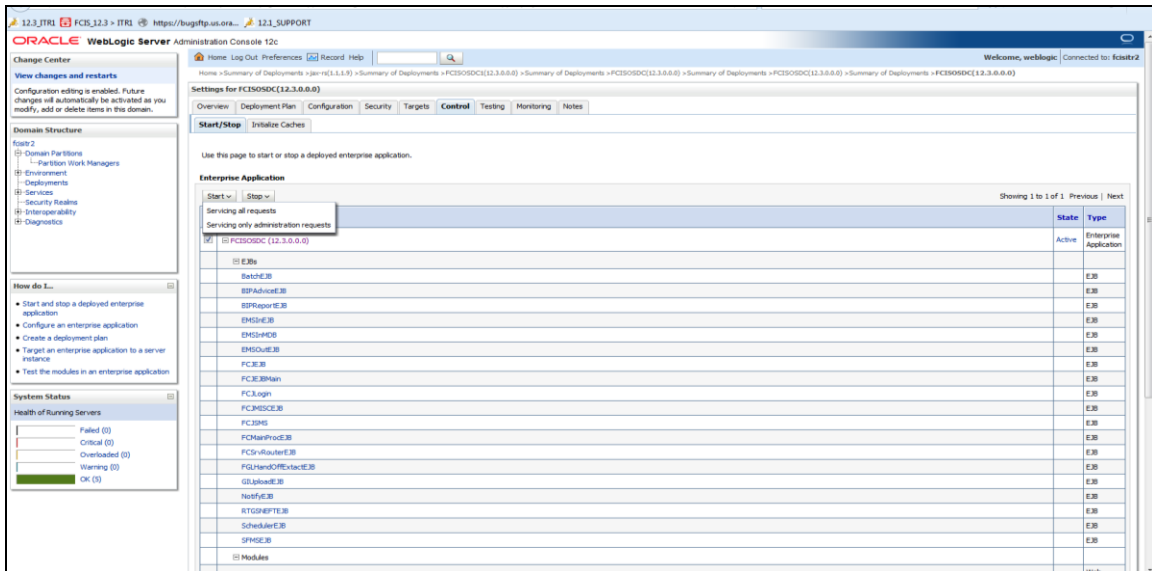
Name	State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
FCISOSDC (12.3.0.0.0)	Active	OK	Enterprise Application	OSDCServer	Global		100

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 settings for the deployment, including Name, Scope, Archive Version, Path, Deployment Plan, Staging Mode, Plan Staging Mode, Security Model, Deployment Order, and Deployment Principal.

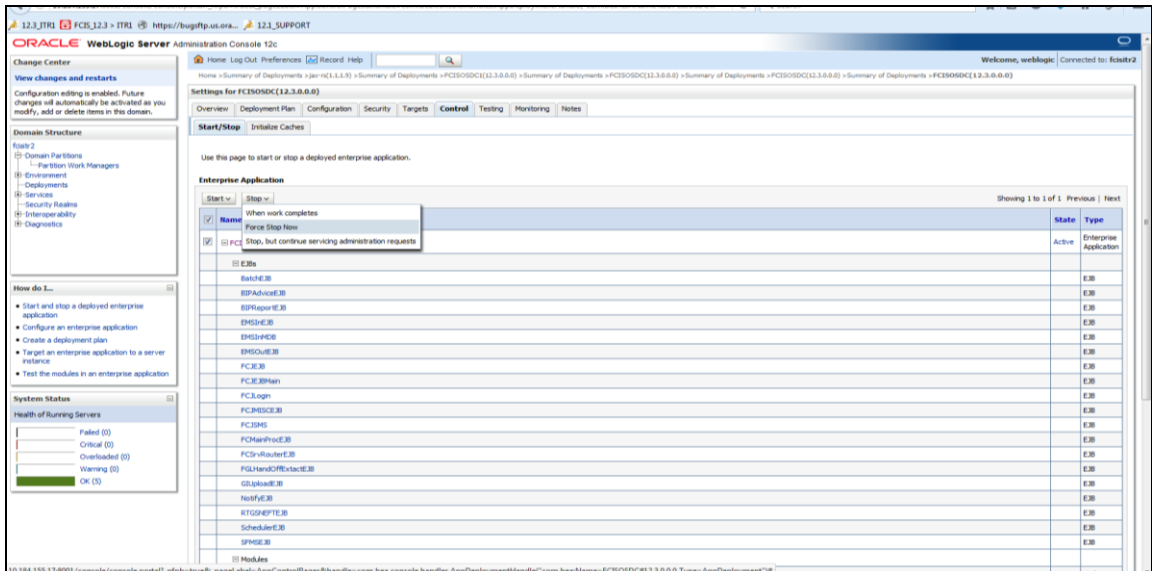
Setting	Value	Description
Name	FCISOSDC	The name of this enterprise application.
Scope	Global	Specifies if this enterprise application is accessible within the domain, a partition, or a resource group template.
Archive Version	12.3.0.0.0	The archive version, specified from the manifest or overridden during deployment.
Path	/scratch/app/Oracle/Middleware/Oracle_home/user_projects/domains/foair2/servers/AdminServer/upload/FCISOSDC.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 to the Managed Server's staging area during application preparation.
Plan Staging Mode	(not specified)	Specifies whether an application's deployment plan is copied from a source on the Administration Server to the Managed Server's staging area during application preparation.
Security Model	DDOnly	The security model that is used to secure a deployed module.
Deployment Order	100	An integer value that indicates when this unit is deployed, relative to other deployable units on a server, during startup.
Deployment Principal		A string value that indicates the principal that should be used when deploying the file or archive during startup and shutdown. This principal will be used to set the current subject when calling out into application code for interfaces such as application.lifecycleListener. If no principal name is specified, then the anonymous principal will be used.

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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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  
[www.oracle.com/financialservices/](http://www.oracle.com/financialservices/)

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