

Deploying Oracle FLEXCUBE Investor Servicing Application
on WebLogic

Oracle FLEXCUBE Investor Servicing

Release 14.6.0.0.0

[May] [2022]



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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

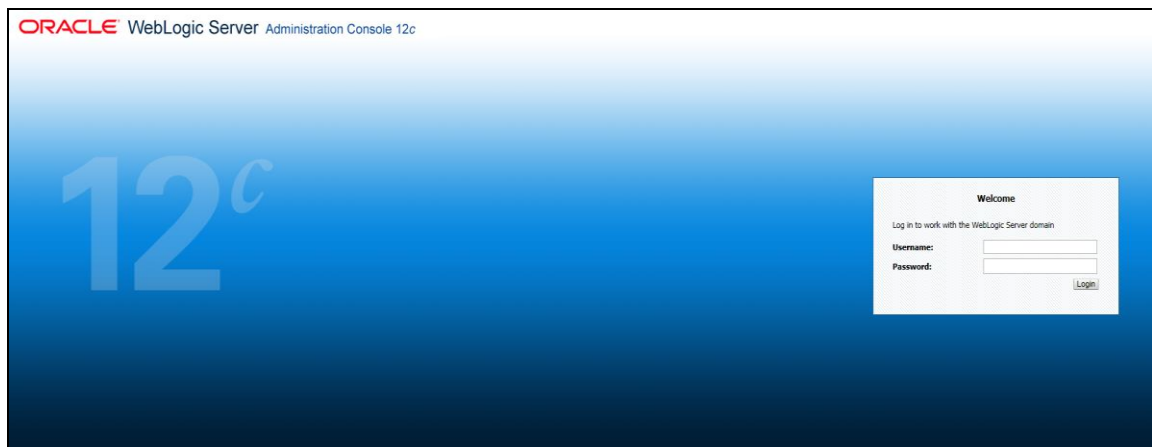
This section explains the method of deploying Oracle FLEXCUBE Investor Servicing Application Oracle WebLogic application server. Before deployment, all the resources mentioned in the document "Resources To be Created" have to be created.

1.3.1 Deploying Dependency Library "Jersey-bundle"

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

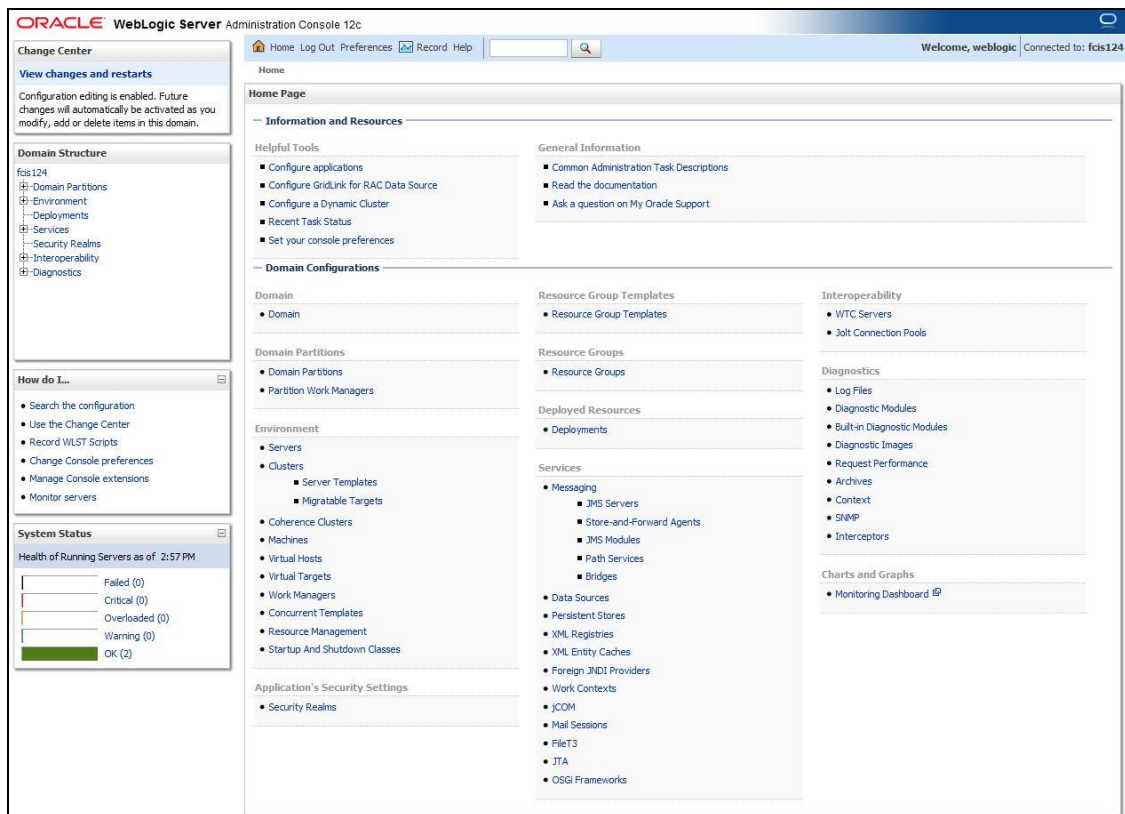
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser.
Eg: <http://10.10.10.10:1001/console>

The following screen is displayed:

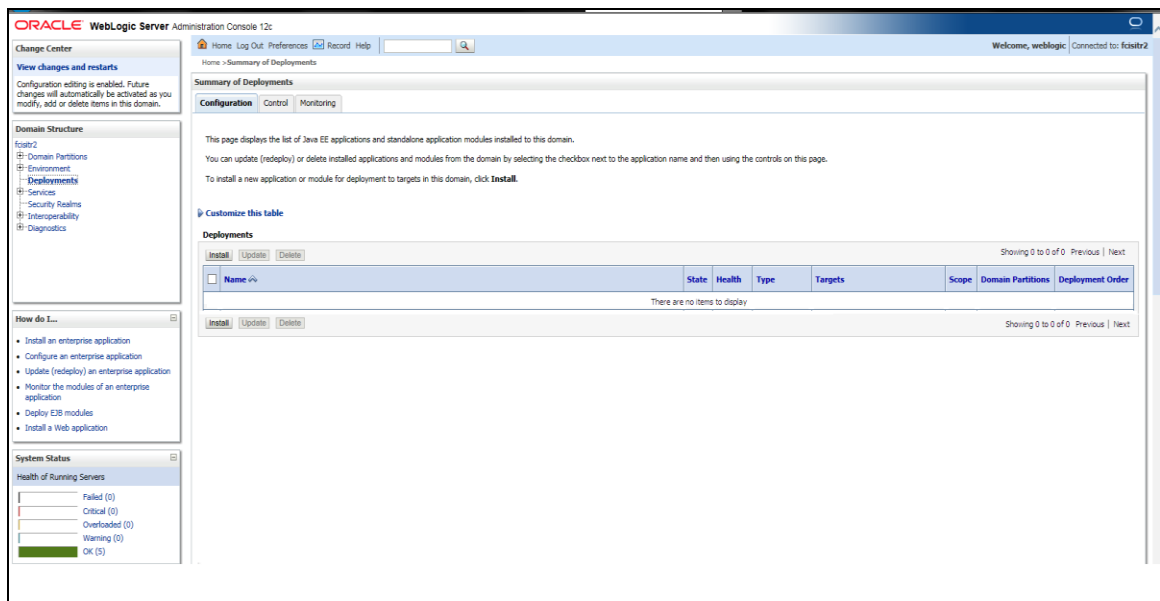


2. Specify the WebLogic administrator user name and password. Click 'Log In'.

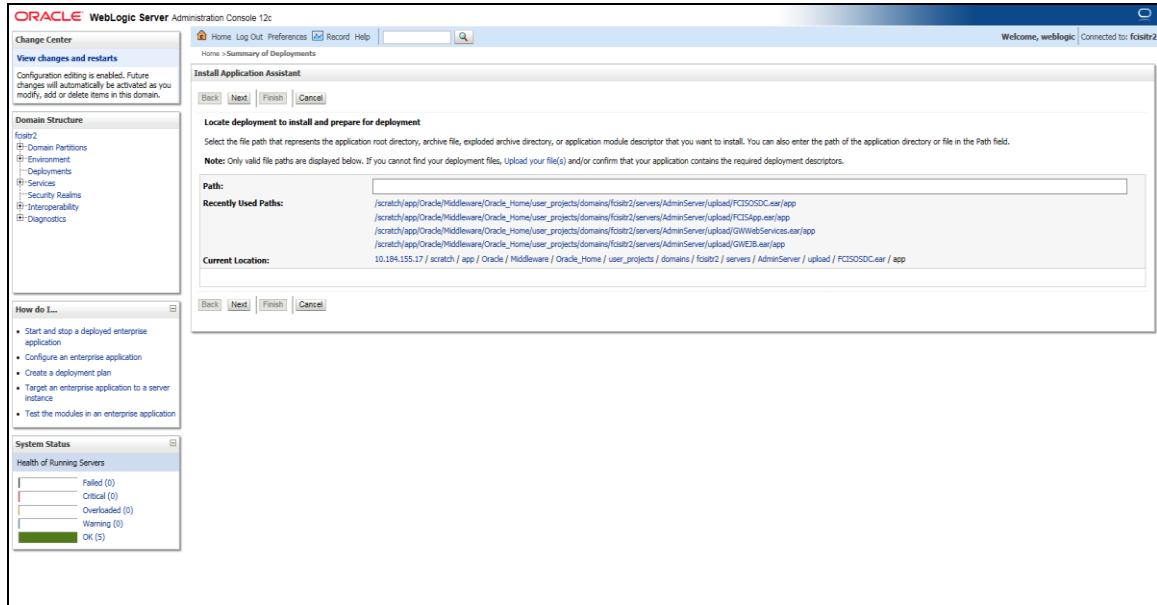
The following screen is displayed:



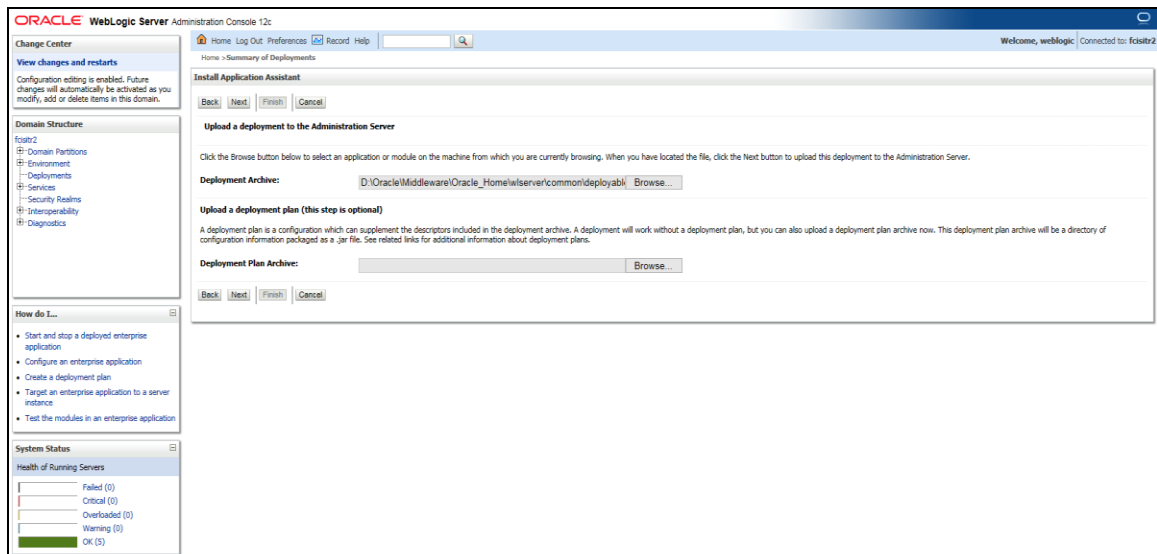
Click 'Deployments' button on the left hand side of the 'Weblogic Server' screen. The following screen is displayed:



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.

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

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

System Status

Health of Running Servers as of 1:25 PM

Install Application Assistant

Back Next Finish Cancel

Locate deployment to install and prepare for deployment

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.

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.

Path: /scratch/software/Oracle/Middleware/Oracle_Home/wlserver/common/deployable-libraries/jax-rs-2.0.war

Recently Used Paths:

- /scratch/software/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/servers/AdminServer/upload/RestService.ear/app
- /scratch/software/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/servers/AdminServer/upload/FCISApp124Sup.ear/app
- /scratch/software/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/servers/AdminServer/upload/FCISApp124.ear/app
- /scratch/software/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/servers/AdminServer/upload/FCISApp124au.ear/app
- whf00csk / scratch / software / Oracle / Middleware / Oracle_Home / wlserver / common / deployable-libraries

Current Location:

- ☐ active-cache_1.0.jar
- ☒ jax-rs-2.0.war
- ☐ jsf-1.2.war
- ☐ jsf-2.0.war
- ☐ jsr311-api-1.1.1.war
- ☐ jstl-1.2.war
- ☐ pubsub-1.0.war
- ☐ weblogic-sca-1.2.war

Back Next Finish Cancel

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

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: fcsitr2

Change Center

View changes and restarts

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

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

System Status

Health of Running Servers

- Failed (0)
- Critical (0)
- Overloaded (0)
- Warning (0)
- OK (5)

Install Application Assistant

Back Next Finish Cancel

Choose installation type and scope

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.

☐ Install this deployment as an application

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.

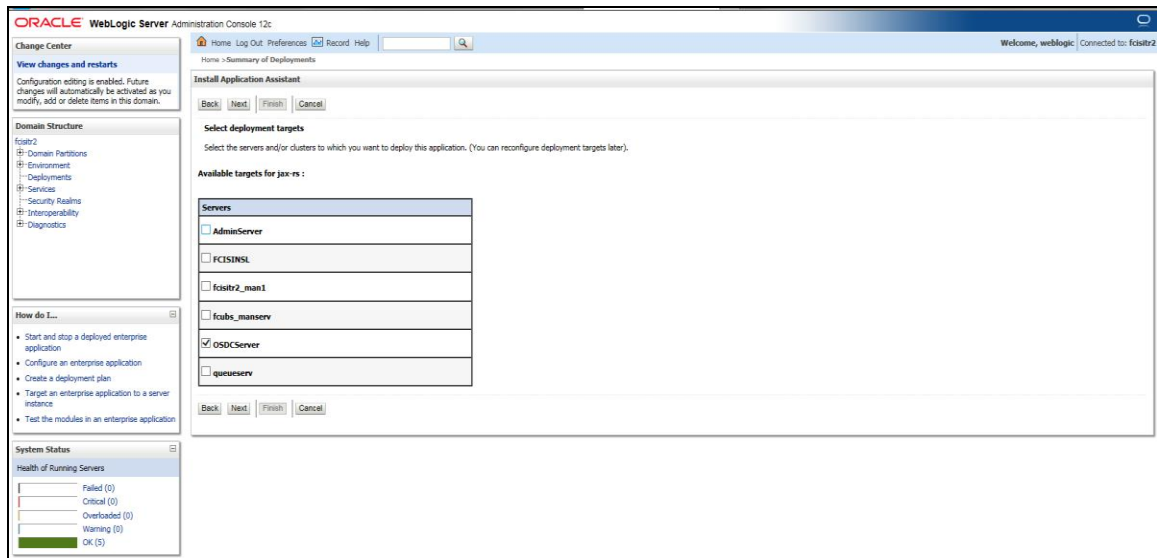
☒ Install this deployment as a library

Select a scope in which you want to install the deployment.

Scope: Global

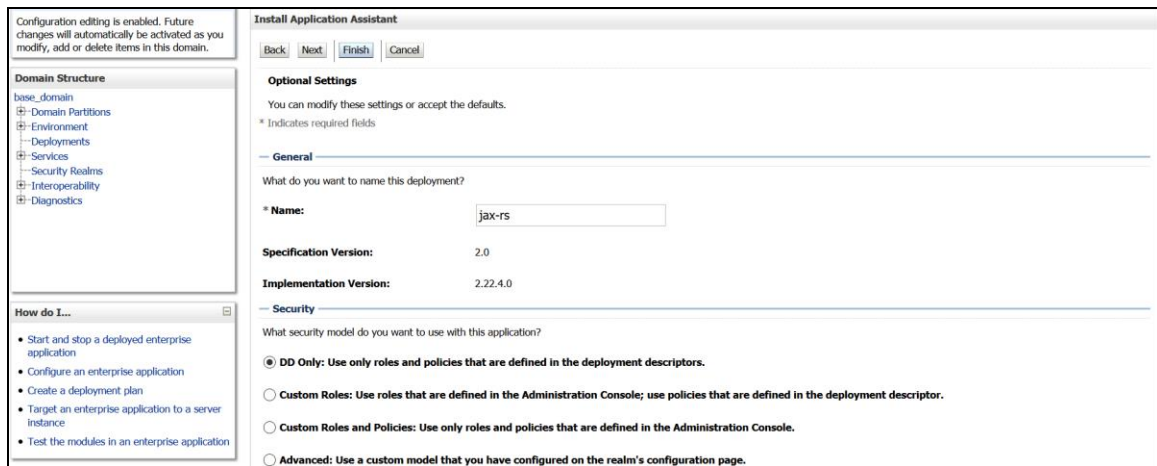
Back Next Finish Cancel

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

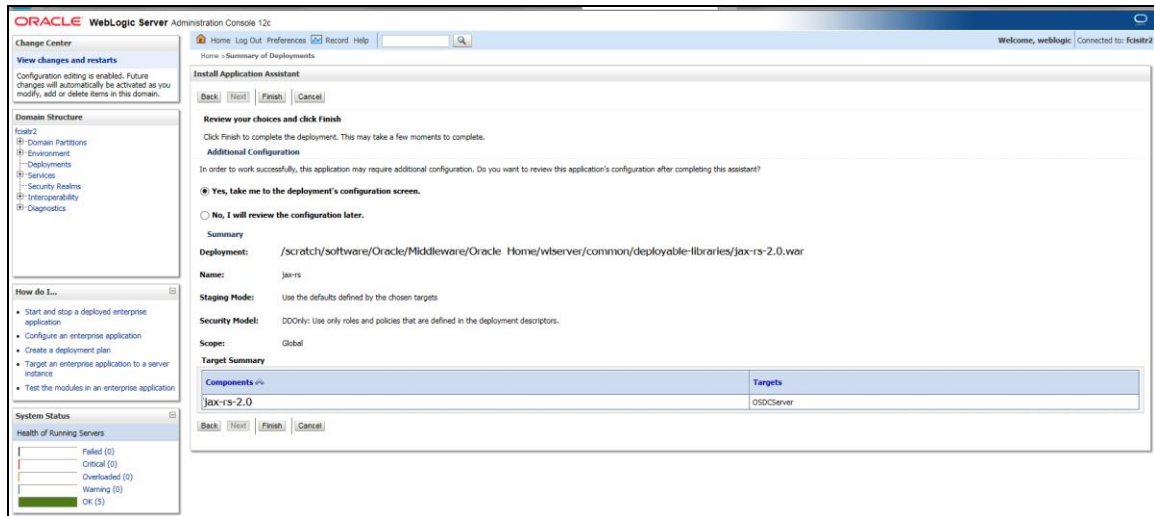


8. Select the target of the application. You can choose the server 'AdminServer' or 'Managed Server(s)'.

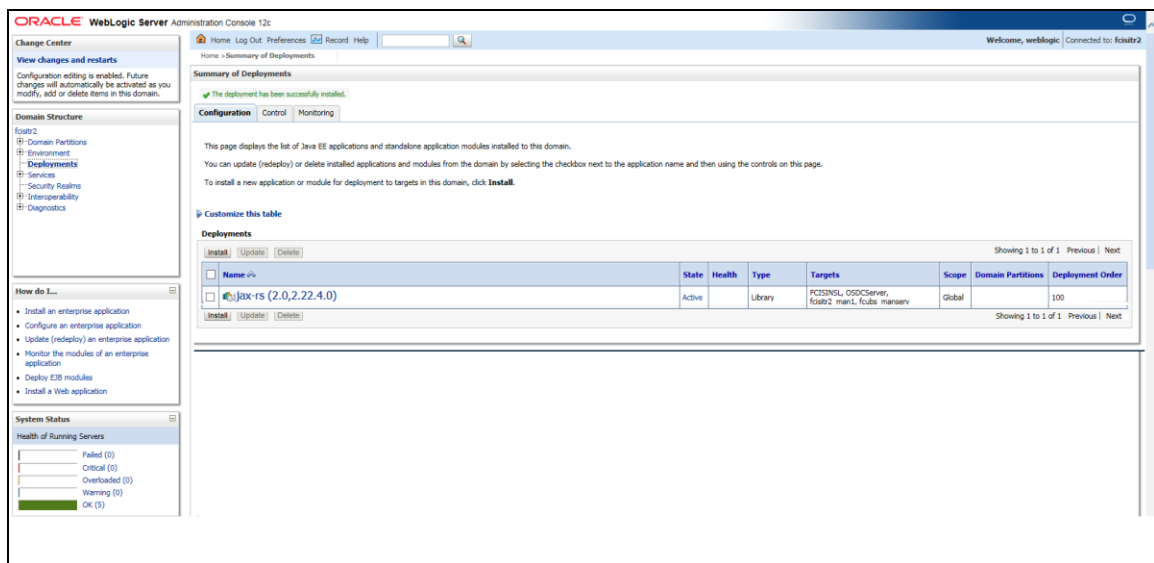
Click of 'Next' the following screen will be displayed.



9. Click Next



10. Click Finish button



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

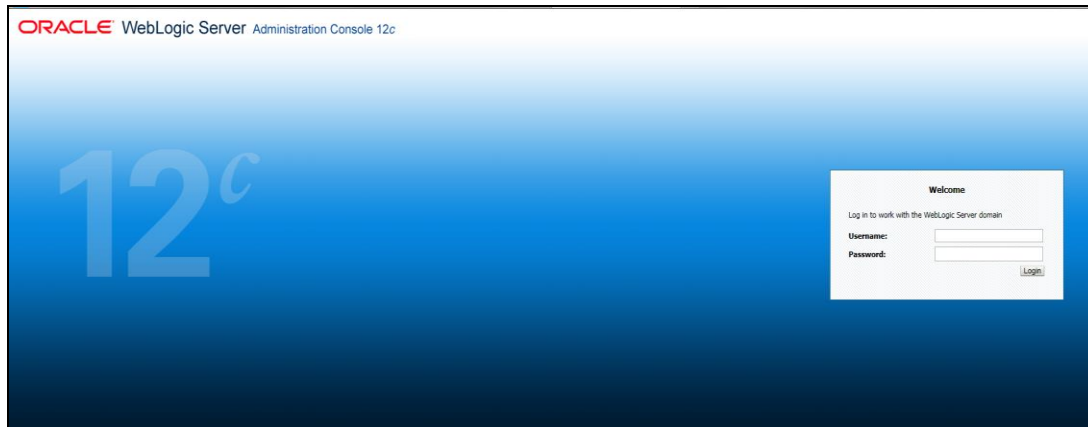
Note :- latest jax-rs version will be jax-rs(2.0,2.22.4.0)

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.

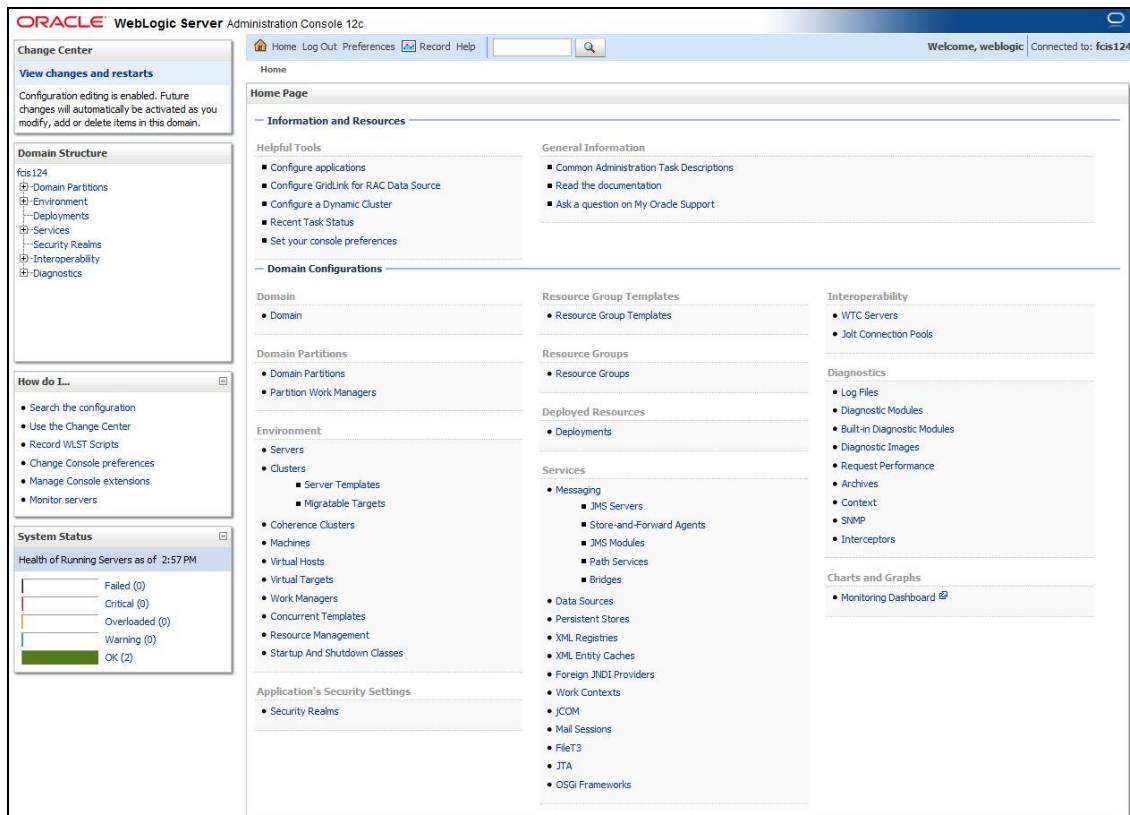
1. Start the Administrative Console of WebLogic application server. You can start this by entering Oracle WebLogic Admin Console URL in the address bar in an internet browser.
Eg: <http://10.10.10.10:1001/console>

The following screen is displayed:

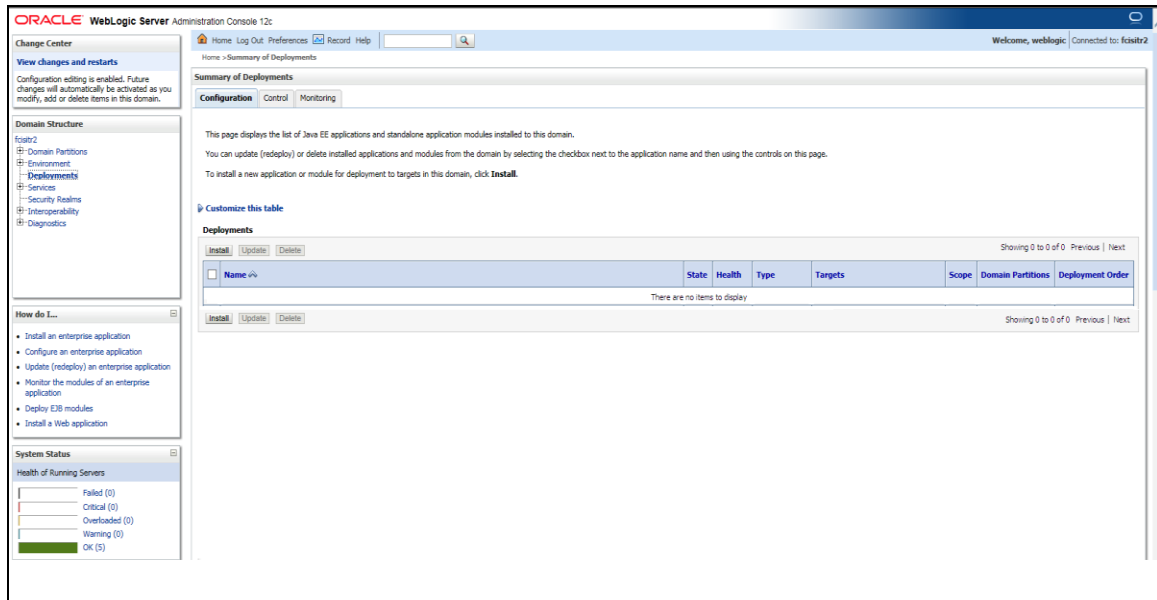


2. Specify the WebLogic administrator user name and password. Click 'Log In'.

The following screen is displayed:

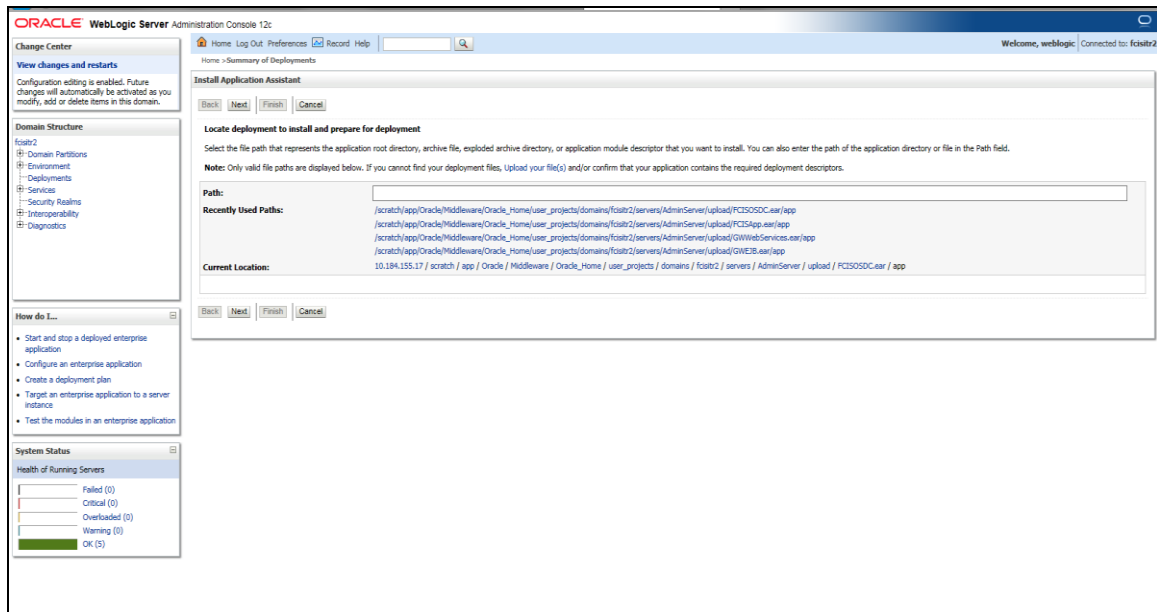


Click 'Deployments' button on the left hand side of the 'Weblogic Server' screen. The following screen is displayed:

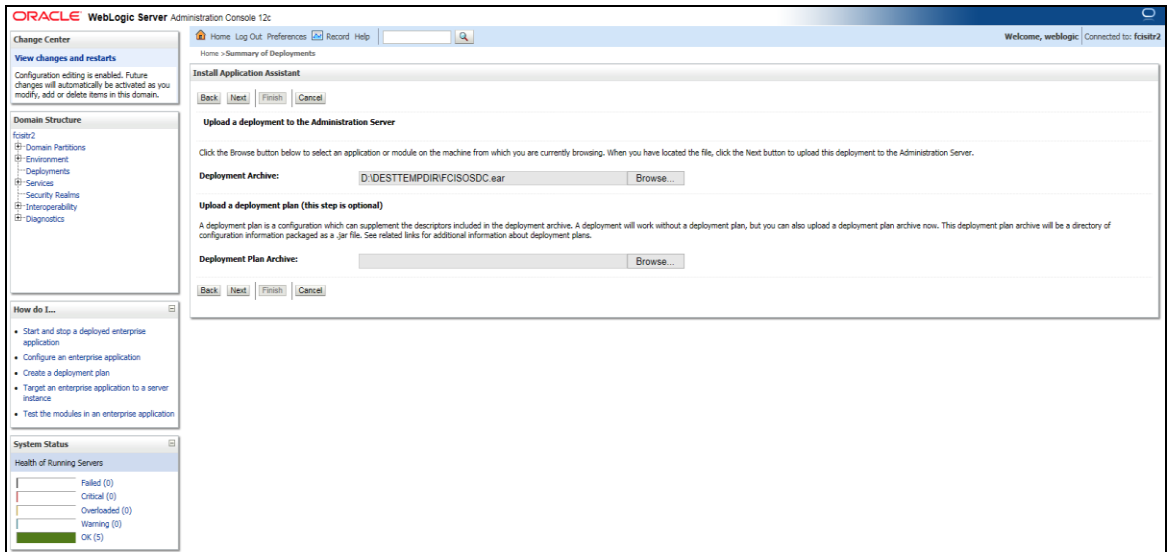


You need to deploy an EAR. For instance, 'FCISApp.ear'. Go to 'Deployment'.

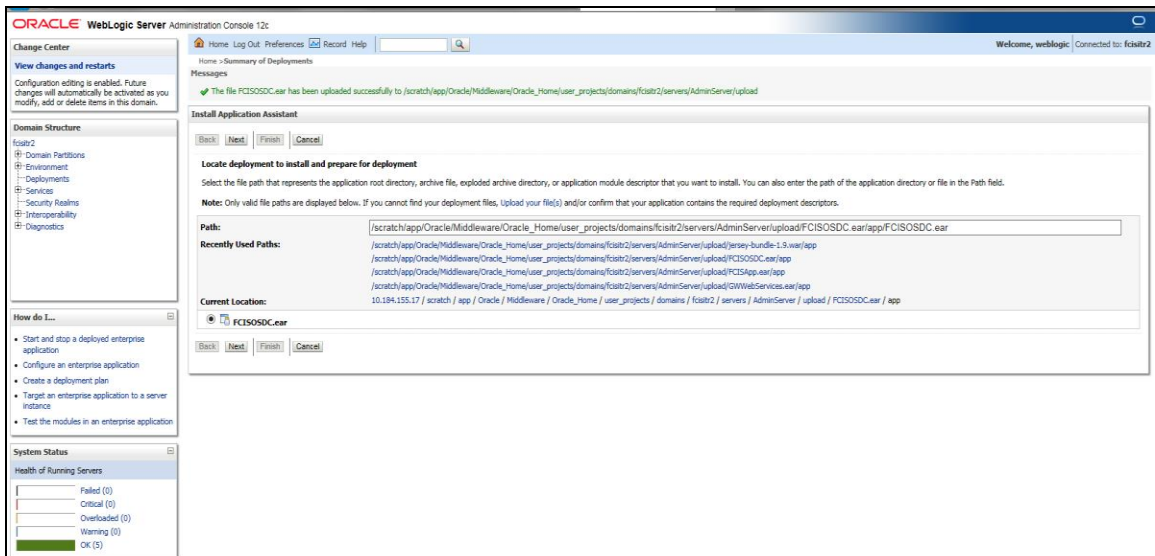
3. Click 'Install' button. The following screen is displayed:



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

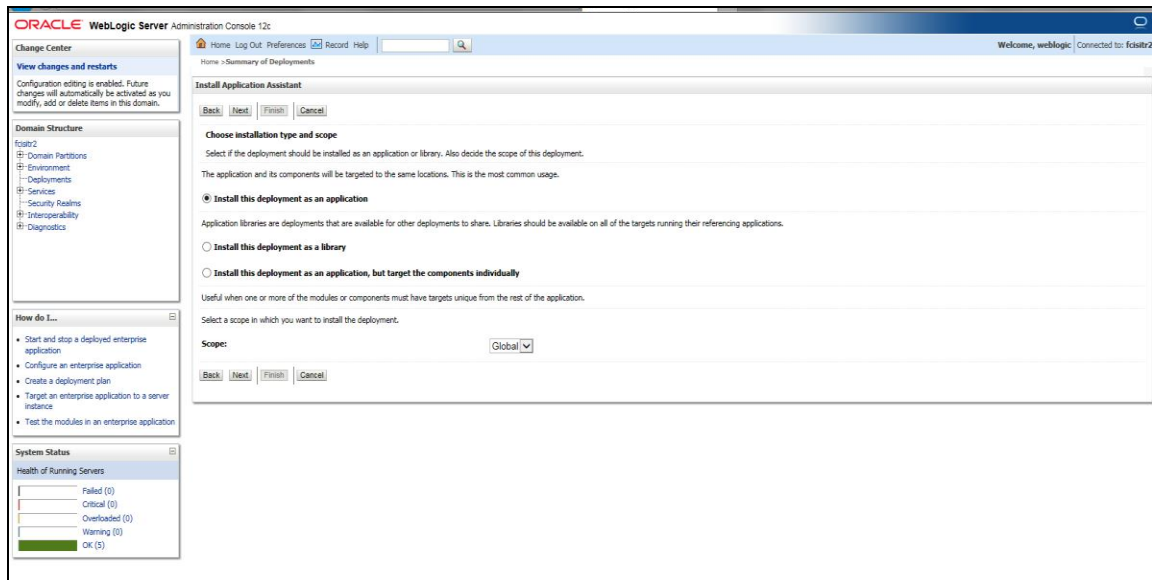


4. Specify the EAR file path. You can use the ‘Browse’ button to locate the file.
5. Click ‘Next’. The following screen is displayed.



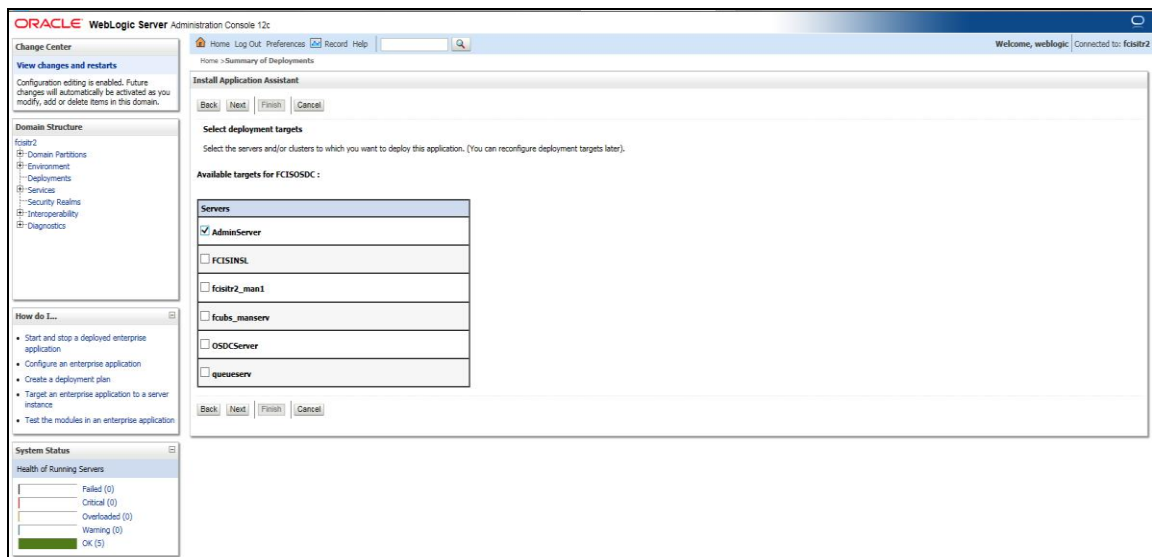
6. Select the application ‘FCISApp.ear’ from the list.

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 'How do I...' section. The main content area is titled 'Summary of Deployments' and shows the 'Install Application Assistant' wizard. The 'Optional Settings' section is active, displaying various configuration options. The 'Name' field is set to 'FCISOSDC'. The 'Archive Version' is '12.3.0.0.0'. The 'Deployment Plan Version' is empty. The 'Security' section has 'DD Only: Use only roles and policies that are defined in the deployment descriptors.' selected. The 'Source Accessibility' section has 'Use the defaults defined by the deployment's targets' selected. The 'Location' field is set to '/scratch/app/Oracle/Middleware/Oracle_Home/user_projects'. The 'Plan Source Accessibility' section has 'Use the same accessibility as the application' selected.

Optional Settings

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

General

What do you want to name this deployment?

* **Name:**

Archive Version:

Deployment Plan Version:

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**

Location:

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.

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 'Summary of Deployments' and shows the 'Install Application Assistant' wizard. The 'Review your choices and click Finish' section is active, displaying a summary of the deployment configuration. The 'Deployment' field is set to '/scratch/app/Oracle/Middleware/Oracle_Home/user_projects/domains/fcistr2/servers/AdminServer/upload/FCISOSDC.ear/app/FCISOSDC.ear'. The 'Name' field is set to 'FCISOSDC'. The 'Staging Mode' is 'Use the defaults defined by the chosen targets'. The 'Plan Staging Mode' is 'Use the same accessibility as the application'. The 'Security Model' is 'DDOnly: Use only roles and policies that are defined in the deployment descriptors'. The 'Scope' is 'Global'. The 'Target Summary' table shows the components and targets for the deployment.

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:

Name:

Staging Mode:

Plan Staging Mode:

Security Model:

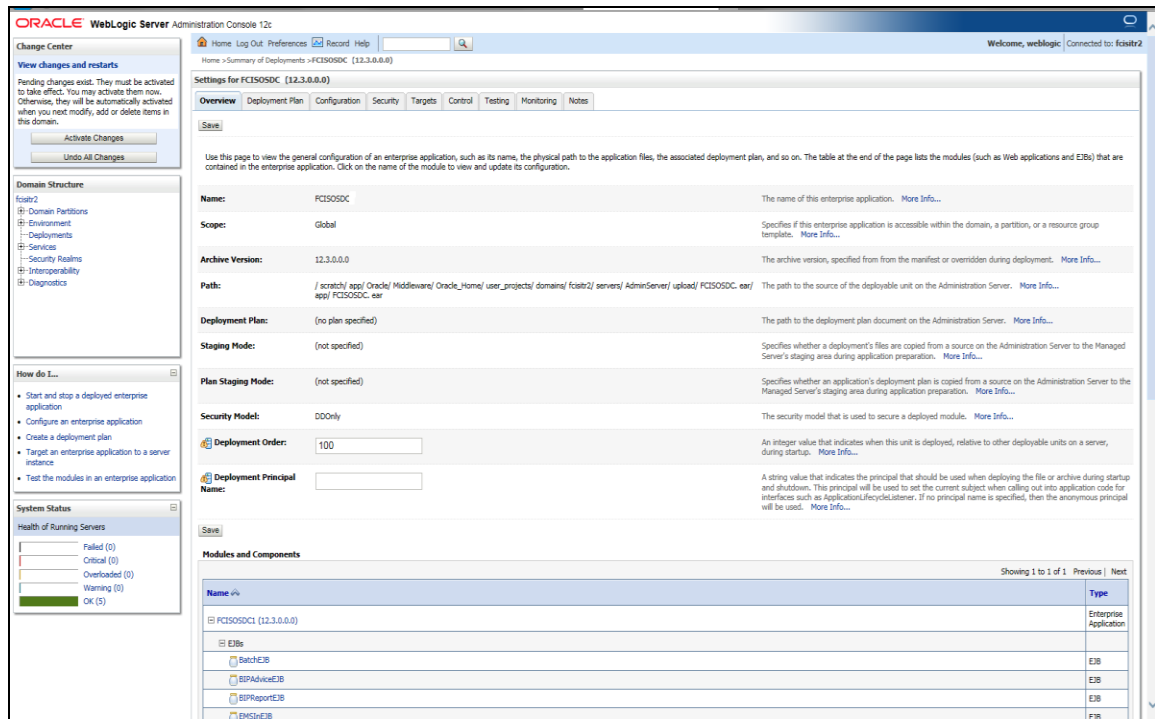
Scope:

Target Summary

Components	Targets
FCISOSDC.ear	AdminServer

Back **Next** **Finish** **Cancel**

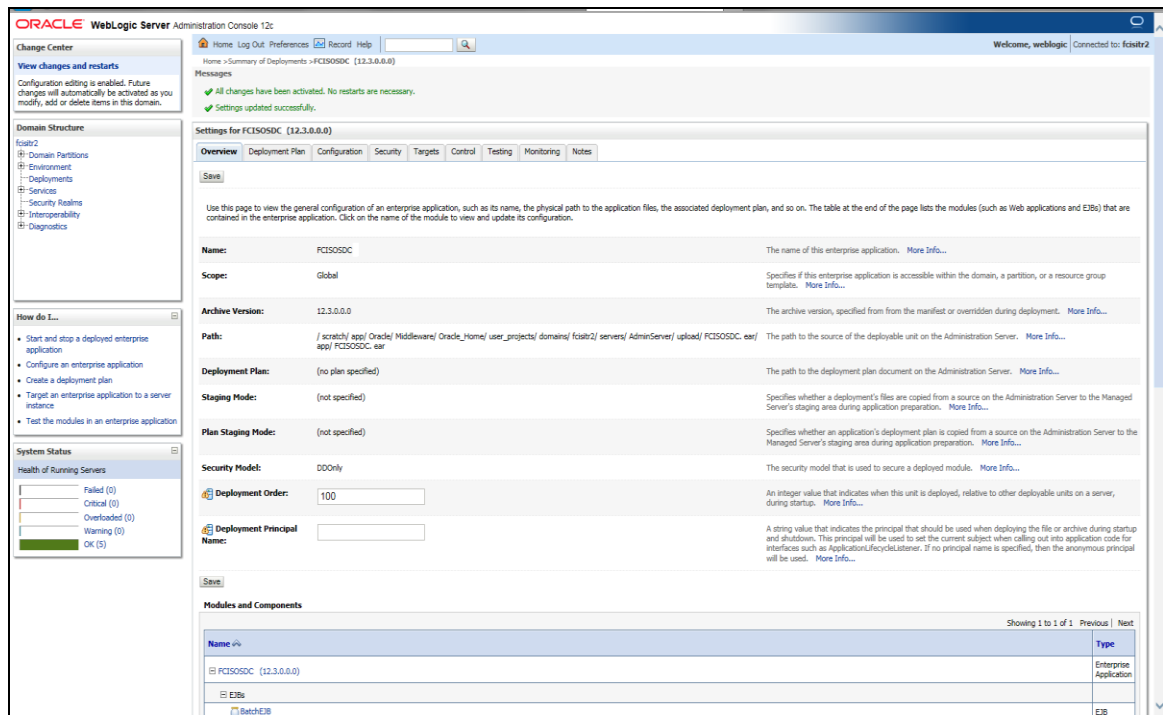
Click 'Finish' button. The following screen is displayed.



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.

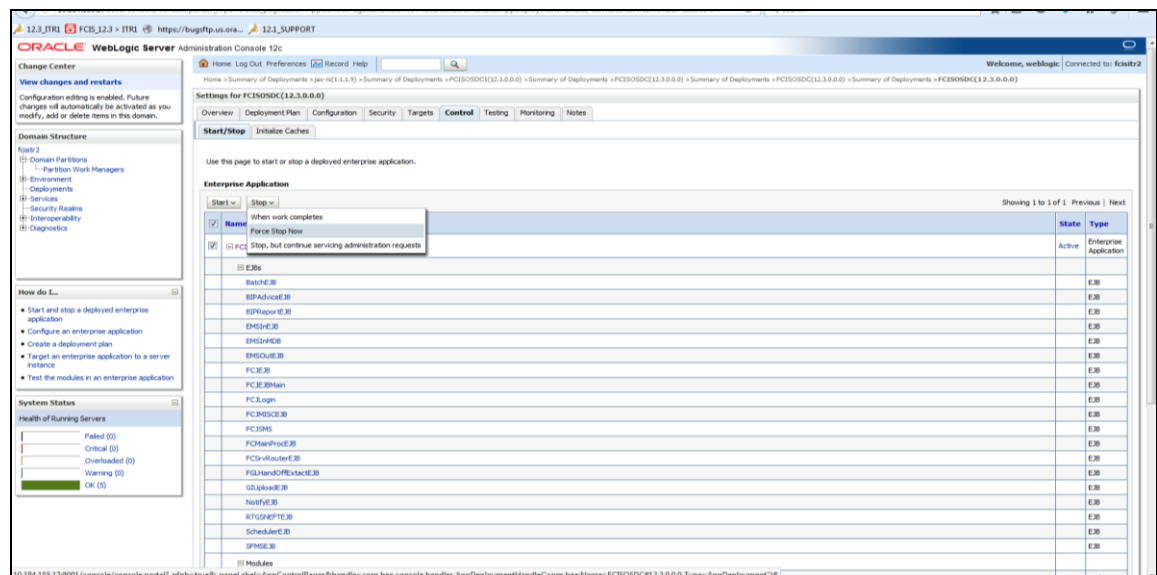
The screenshot shows the 'Settings for FCISOSDC(12.3.0.0.0)' page in the Oracle WebLogic Server Administration Console. The left pane has 'FCISOSDC' selected under 'Domain Structure'. The main area shows various configuration settings for the deployment, including Name, Scope, Archive Version, Path,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

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.

The screenshot shows the Oracle WebLogic Server Administration Console. The top navigation bar includes the Oracle logo and the text 'WebLogic Server Administration Console 12c'. The main content area is titled 'Enterprise Application' and shows the 'Settings for FCS050DC(12.3.0.0.0)'. A table lists the modules of the application, with columns for 'Name', 'Status', and 'Type'. The 'Status' column shows 'Active' for the application, and the 'Type' column shows 'Enterprise Application'. The 'Modules' section lists various components like EJBs, JMS, and others, all with a status of 'OK'.

Name	Status	Type
Enterprise Application	Active	Enterprise Application
EJBs	OK	EJB
BatchEJB	OK	EJB
BPAdviceEJB	OK	EJB
BPReporterEJB	OK	EJB
EMSEJB	OK	EJB
EMSPH06	OK	EJB
EMSPH06EJB	OK	EJB
FCSEJB	OK	EJB
FCSEJBBean	OK	EJB
FCLogin	OK	EJB
FCJMSCEEJB	OK	EJB
FCJMS	OK	EJB
FCMailProdEJB	OK	EJB
FCsvRouterEJB	OK	EJB
FGUHandlerExtacEJB	OK	EJB
GLPvibeEJB	OK	EJB
NotifyEJB	OK	EJB
RTGSMPTEJB	OK	EJB
SchedulerEJB	OK	EJB
SPPSEJB	OK	EJB

19. The following screen will be displayed.



This completes the deployment process.



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[May] [2022]
Version 14.6.0.0.0

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
www.oracle.com/financialservices/

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