

REST API Services Deployment in WebLogic  
Oracle FLEXCUBE Investor Servicing  
Release 14.7.0.0.0  
[November] [2022]



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# 1. Oracle FLEXCUBE Investor Servicing Solutions

## 1.1 Introduction

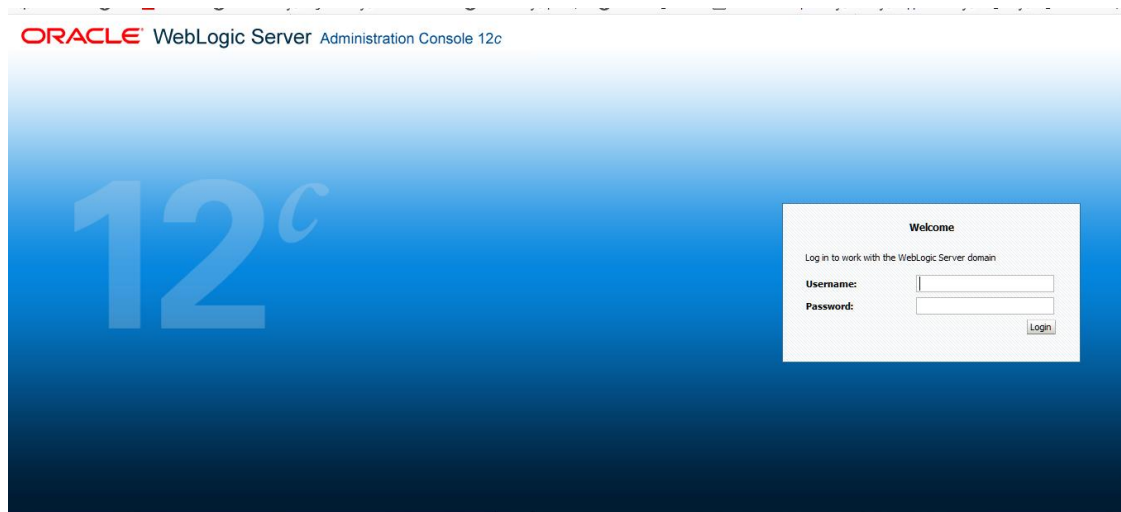
This document describes step to install REST Services into WebLogic application server in full.

## 1.2 Prerequisite

Before deploying the EAR, please create a Datasource **jdbc/FCJDevDSSMS** that will be referring to the API DB. More details of creating the data source can be found in the Resource Creation document.

## 1.3 REST EJB Services Full Deployment

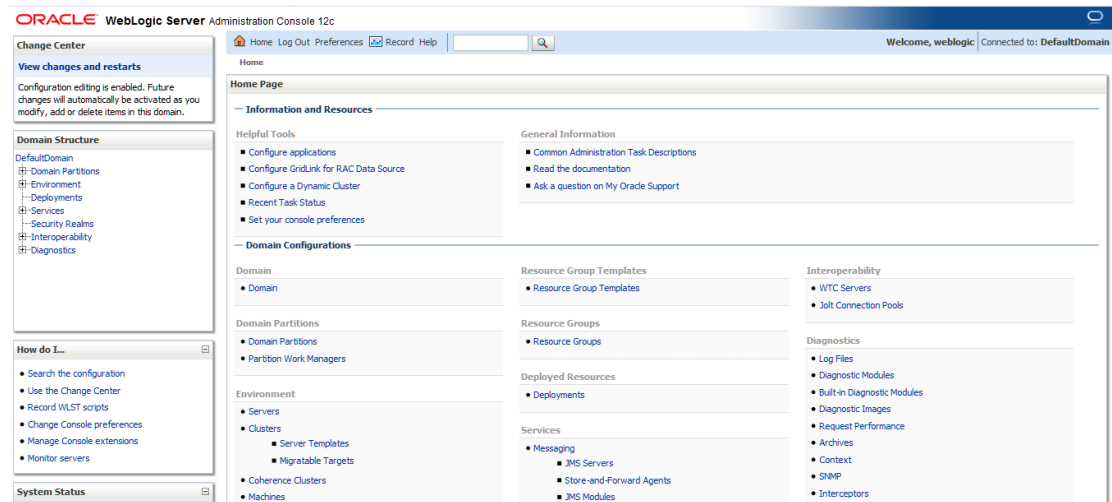
1. Launch WebLogic console, the following screen is displayed



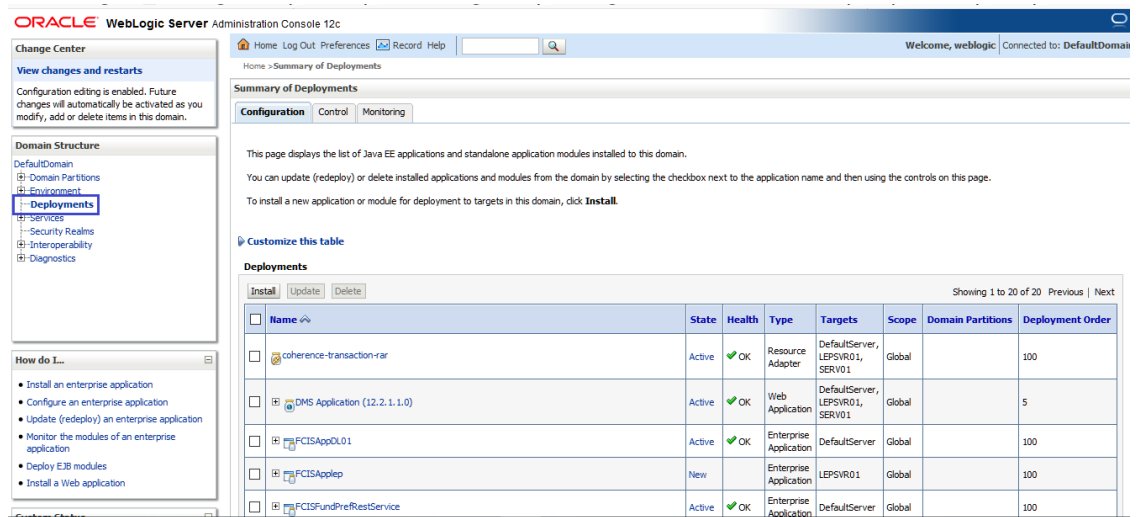
**Username:** Enter WebLogic user name

**Password:** Enter password for WebLogic

2. Click on 'Login' and the following screen is displayed:



3. Following screen will be displayed once Deployments is selected from 'Domain Structure'.



4. Click 'Install' from the Deployments following screen will be displayed.

The screenshot shows the Oracle WebLogic Server Administration Console. On the left, the 'Domain Structure' tree has 'Deployments' selected. The main panel displays the 'Summary of Deployments' page. At the top, there are tabs for 'Configuration', 'Control', and 'Monitoring'. Below this, a table lists the installed applications and modules. The 'Install' button is highlighted in the table's header row.

Name	State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
coherence-transaction-rar	Active	OK	Resource Adapter	DefaultServer, LEPSVR01, SERV01	Global		100
DMS Application (12.2.1.1.0)	Active	OK	Web Application	DefaultServer, LEPSVR01, SERV01	Global		5
FCISAppDL01	Active	OK	Enterprise Application	DefaultServer	Global		100
FCISApplep	New		Enterprise Application	LEPSVR01	Global		100
FCISFundPreRestService	Active	OK	Enterprise Application	DefaultServer	Global		100

## Path

Enter the complete path of the EAR

5. Click on 'Next' and the following screen is displayed:

The screenshot shows the 'Install Application Assistant' page in the Oracle WebLogic Server Administration Console. The page has a 'Back', 'Next', 'Finish', and 'Cancel' navigation bar at the top. Below this, there is a section titled 'Locate deployment to install and prepare for deployment'. It instructs the user to select the file path that represents the application root directory, archive file, exploded archive directory, or application module descriptor that you want to install. A note states: 'Note: Only valid file paths are displayed below. If you cannot find your deployment files, click on the link to upload your files and/or confirm that your application contains the required deployment descriptors.' Below this, there is a 'Path' field with a text area containing the following paths:

- C:\Users\gramabad\AppData\Roaming\Developer\system12.2.1.3.42.170820.0914\DefaultDomain\servers\DefaultServer\upload\FCISFundPreR
- C:\Users\gramabad\AppData\Roaming\Developer\system12.2.1.3.42.170820.0914\DefaultDomain\servers\DefaultServer\upload\FCISFundPreRestService.ear\app
- C:\Users\gramabad\AppData\Roaming\Developer\system12.2.1.3.42.170820.0914\DefaultDomain\servers\DefaultServer\upload\FCISUntholderRestService.ear\app
- C:\Users\gramabad\AppData\Roaming\Developer\system12.2.1.3.42.170820.0914\DefaultDomain\servers\DefaultServer\upload\GWRestEJB.ear\app
- C:\Users\gramabad\AppData\Roaming\Developer\system12.2.1.3.42.170820.0914\DefaultDomain\servers\DefaultServer\upload\NEWRAD142.war\app
- ofs220392 | C:\Users\gramabad\AppData\Roaming\Developer\system12.2.1.3.42.170820.0914\DefaultDomain\servers\DefaultServer\upload\FCISFundPreRestService.ear\app

Below the paths, there is a 'Current Location' section with a radio button and the text 'FCISFundPreRestService.ear'. The 'Next' button is highlighted.

6. Click on 'Next' and the following screen is displayed:

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: DefaultDomain

Home > Summary of Deployments

**Install Application Assistant**

Back Next Finish Cancel

**Upload a deployment to the Administration Server**

Click the Browse button below to select an application or module on the machine from which you are currently browsing. When you have located the file, click the Next button to upload this deployment to the Administration Server.

**Deployment Archive:** Browse... No file selected.

**Upload a deployment plan (this step is optional)**

A deployment plan is a configuration which can supplement the descriptors included in the deployment archive. A deployment will work without a deployment plan, but you can also upload a deployment plan archive now. This deployment plan archive will be a directory of configuration information packaged as a .jar file. See related links for additional information about deployment plans.

**Deployment Plan Archive:** Browse... No file selected.

Back Next Finish Cancel

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: DefaultDomain

Home > Summary of Deployments

**Install Application Assistant**

Back Next Finish Cancel

**Upload a deployment to the Administration Server**

Click the Browse button below to select an application or module on the machine from which you are currently browsing. When you have located the file, click the Next button to upload this deployment to the Administration Server.

**Deployment Archive:** Browse... GWRestEJB.ear

**Upload a deployment plan (this step is optional)**

A deployment plan is a configuration which can supplement the descriptors included in the deployment archive. A deployment will work without a deployment plan, but you can also upload a deployment plan archive now. This deployment plan archive will be a directory of configuration information packaged as a .jar file. See related links for additional information about deployment plans.

ORACLE WebLogic Server Administration Console 12c

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Click the Browse button below to select an application or module on the machine from which you are currently browsing. When you have located the file, click the Next button to upload this deployment to the Administration Server.

**Deployment Archive:** Browse... GWRestEJB.ear

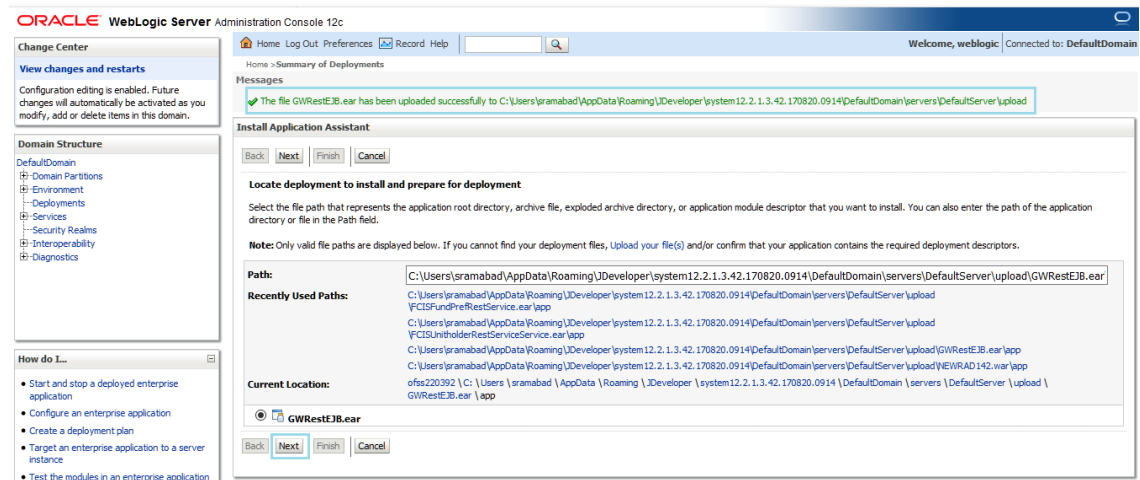
**Upload a deployment plan (this step is optional)**

A deployment plan is a configuration which can supplement the descriptors included in the deployment archive. A deployment will work without a deployment plan, but you can also upload a deployment plan archive now. This deployment plan archive will be a directory of configuration information packaged as a .jar file. See related links for additional information about deployment plans.

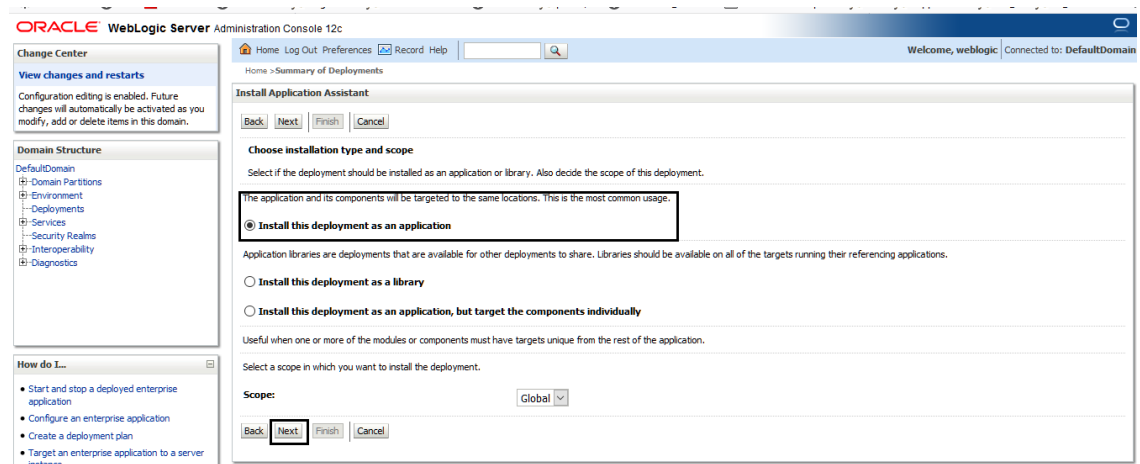
**Deployment Plan Archive:** Browse... No file selected.

Back Next Finish Cancel

Click on 'Next' and the following screen is displayed:



Click on 'Next' and the following screen is displayed



Click on 'Next' and the following screen is displayed

Select correct Server where the EAR to be deployed.

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: DefaultDomain

Home > Summary of Deployments

### Install Application Assistant

Back Next Finish Cancel

#### Select deployment targets

Select the servers and/or clusters to which you want to deploy this application. (You can reconfigure deployment targets later).

**Available targets for GWRestEJB-1:**

Servers	
<input checked="" type="checkbox"/>	DefaultServer
<input type="checkbox"/>	..._VR01
<input type="checkbox"/>	SERV01

Back Next Finish Cancel

**How do I...**

- Start and stop a deployed enterprise application
- Configure an enterprise application

Click on 'Next' and the following screen is displayed

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: DefaultDomain

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: GWRestEJB-1

##### 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

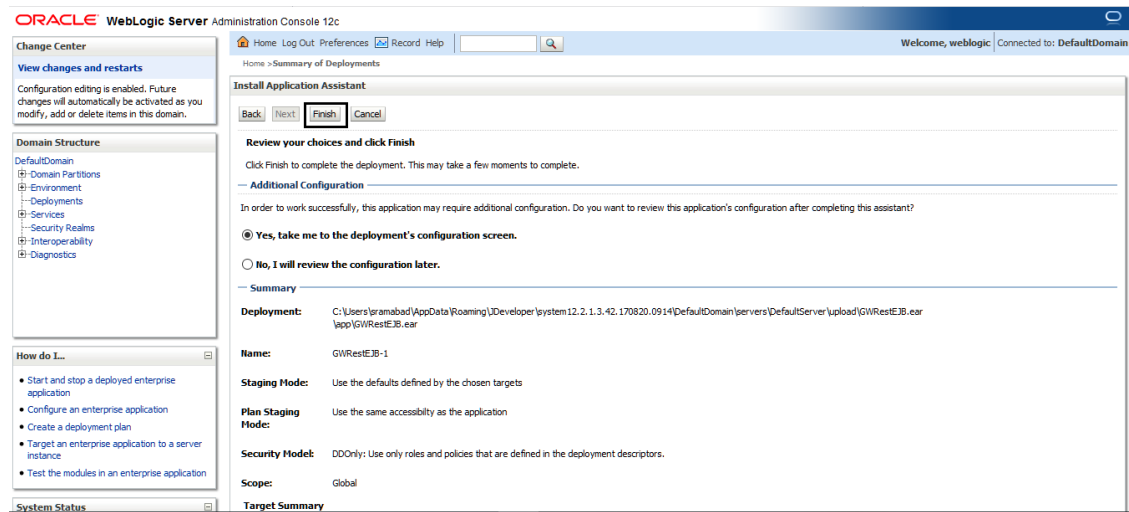
**How do I...**

- 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**

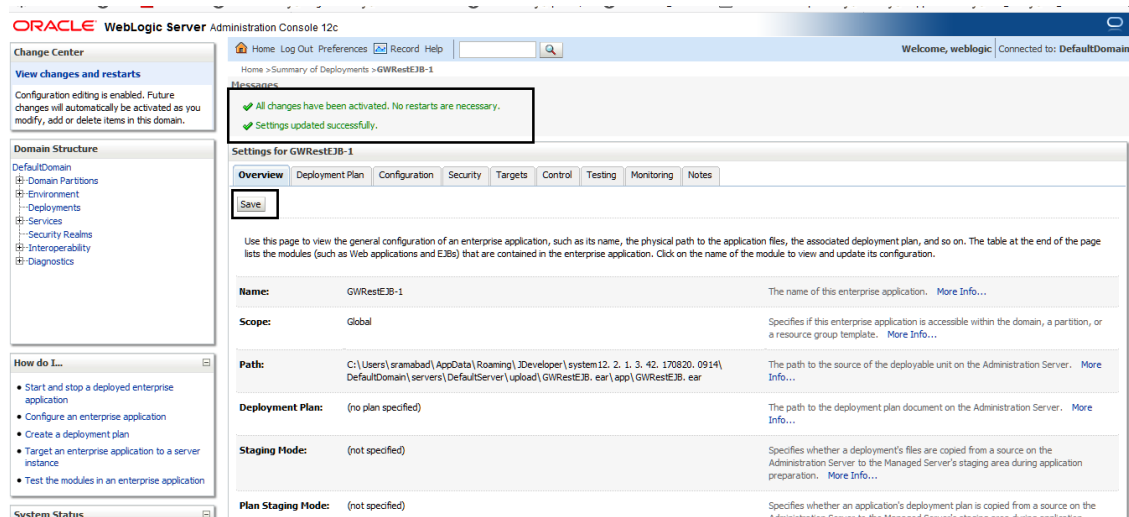


Click on 'Next' and the following screen is displayed



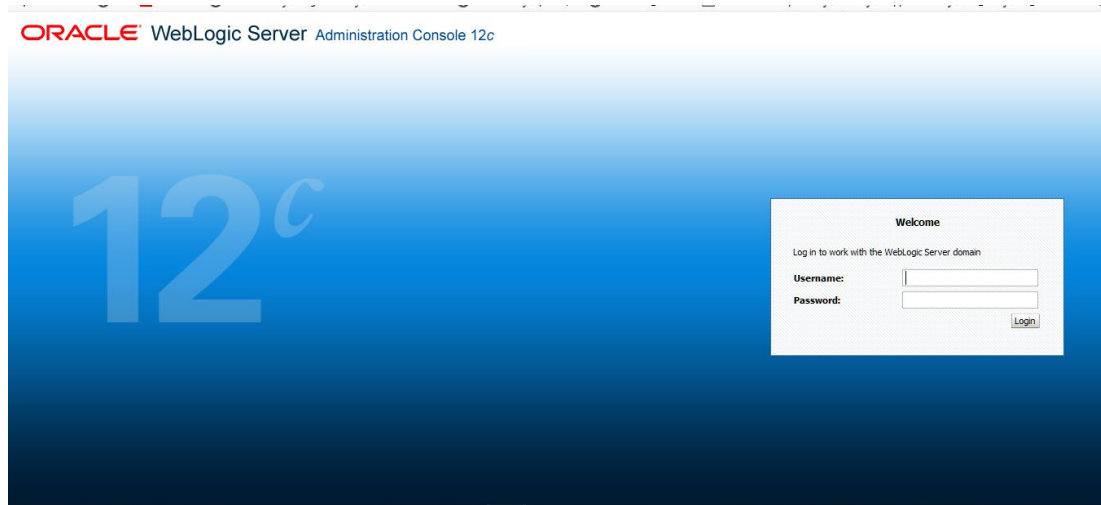
Click on 'Finish' and the following screen is displayed

Click on 'Save' and the following screen is displayed on top it says “All changes have been activated. No restarts are necessary. Settings updated successfully.”



## 1.4 REST Web Services Full Deployment

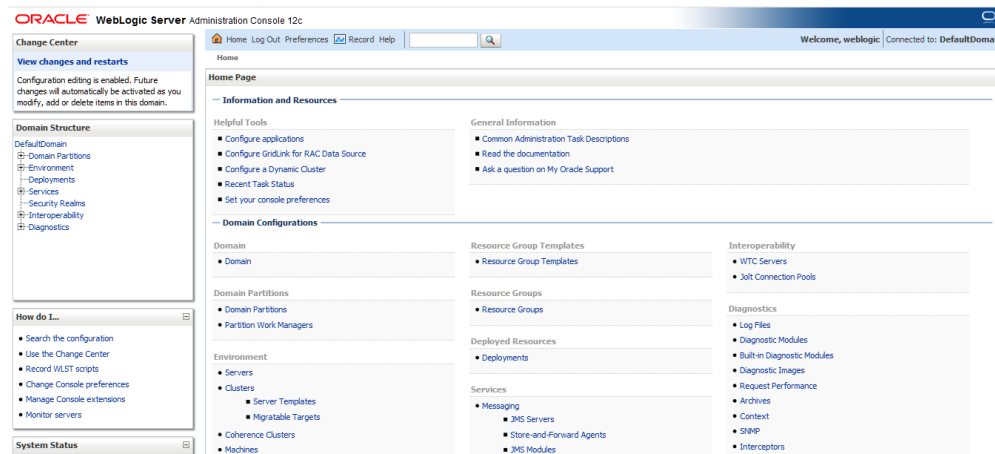
1. Launch WebLogic console, the following screen is displayed.



**username:** Enter WebLogic user name

**password:** Enter password for WebLogic

2. Click on 'Login' and the following screen is displayed:



3. Following screen will be displayed once Deployments is selected from 'Domain Structure'.

**Oracle WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: DefaultDomain

Home > 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 update (redeploy) or delete installed applications and modules from the domain by selecting the checkbox next to the application name and then using the controls on this page.

To install a new application or module for deployment to targets in this domain, click **Install**.

**Customize this table**

**Deployments**

Showing 1 to 20 of 20 Previous Next

<input type="checkbox"/>	Name	State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
<input type="checkbox"/>	coherence-transaction-rar	Active	OK	Resource Adapter	DefaultServer, LEPSVR01, SERV01	Global		100
<input type="checkbox"/>	DMS Application (12.2.1.1.0)	Active	OK	Web Application	DefaultServer, LEPSVR01, SERV01	Global		5
<input type="checkbox"/>	FCISAppDL01	Active	OK	Enterprise Application	DefaultServer	Global		100
<input type="checkbox"/>	FCISAppDL	New		Enterprise Application	LEPSVR01	Global		100
<input type="checkbox"/>	FCISFundPreRestService	Active	OK	Enterprise Application	DefaultServer	Global		100

4. Click 'Install' from the Deployments following screen will be displayed.

**Oracle WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: DefaultDomain

Home > Summary of Deployments

**Summary of Deployments**

Configuration Control Monitoring

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To install a new application or module for deployment to targets in this domain, click **Install**.

**Customize this table**

**Deployments**

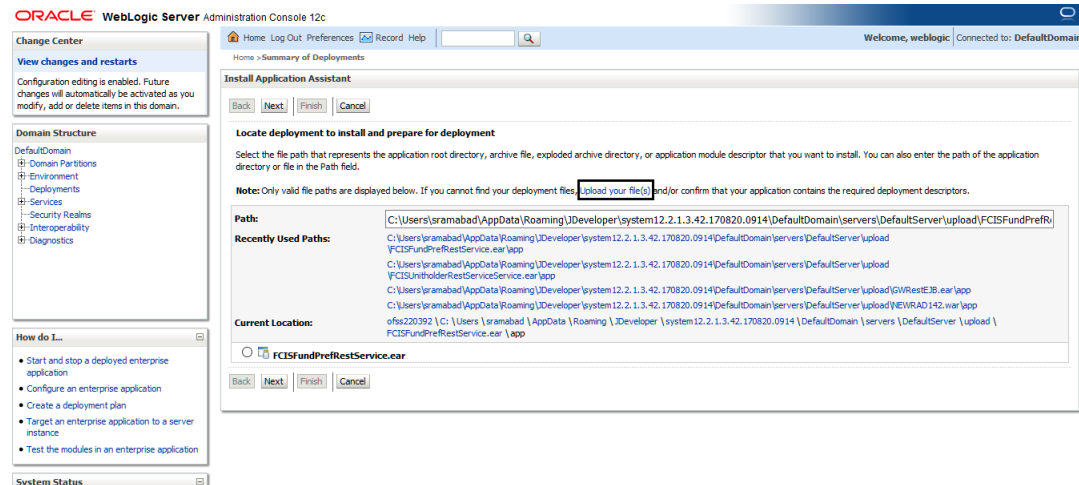
Showing 1 to 20 of 20 Previous Next

<input type="checkbox"/>	Name	State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
<input type="checkbox"/>	coherence-transaction-rar	Active	OK	Resource Adapter	DefaultServer, LEPSVR01, SERV01	Global		100
<input type="checkbox"/>	DMS Application (12.2.1.1.0)	Active	OK	Web Application	DefaultServer, LEPSVR01, SERV01	Global		5
<input type="checkbox"/>	FCISAppDL01	Active	OK	Enterprise Application	DefaultServer	Global		100
<input type="checkbox"/>	FCISAppDL	New		Enterprise Application	LEPSVR01	Global		100
<input type="checkbox"/>	FCISFundPreRestService	Active	OK	Enterprise Application	DefaultServer	Global		100

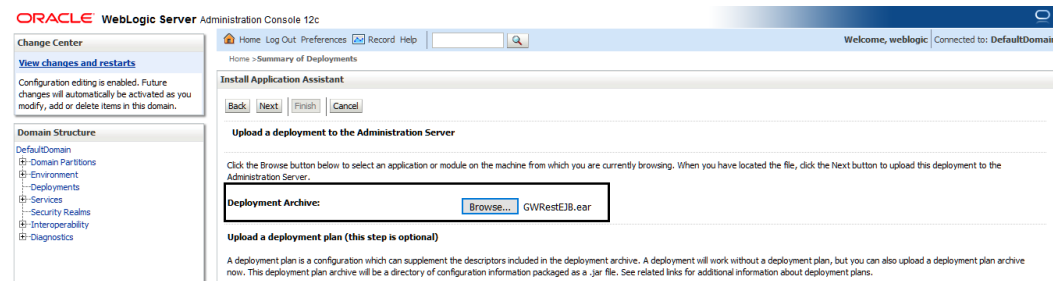
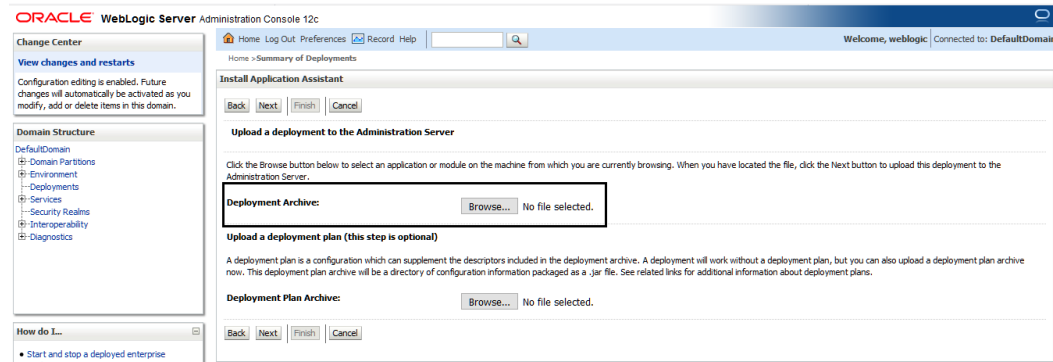
**Path**

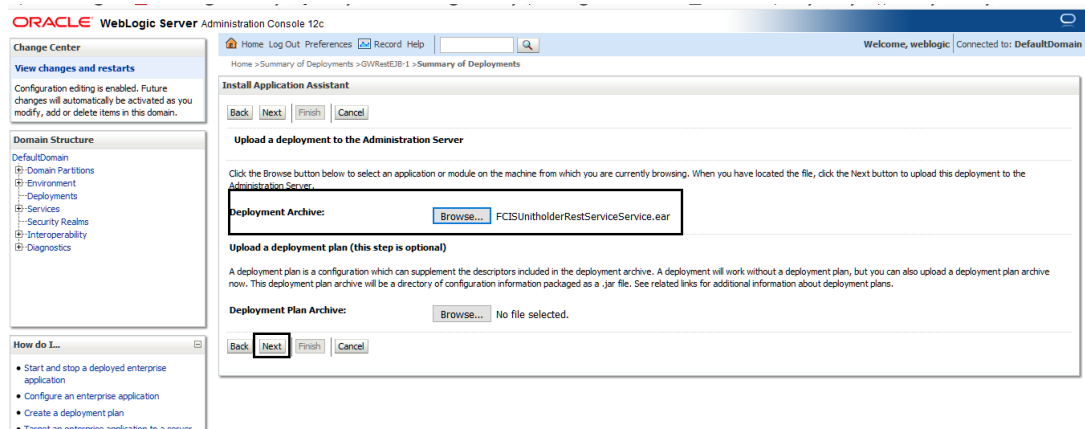
Enter the complete path of the EAR

5. Click on 'Next' and the following screen is displayed:

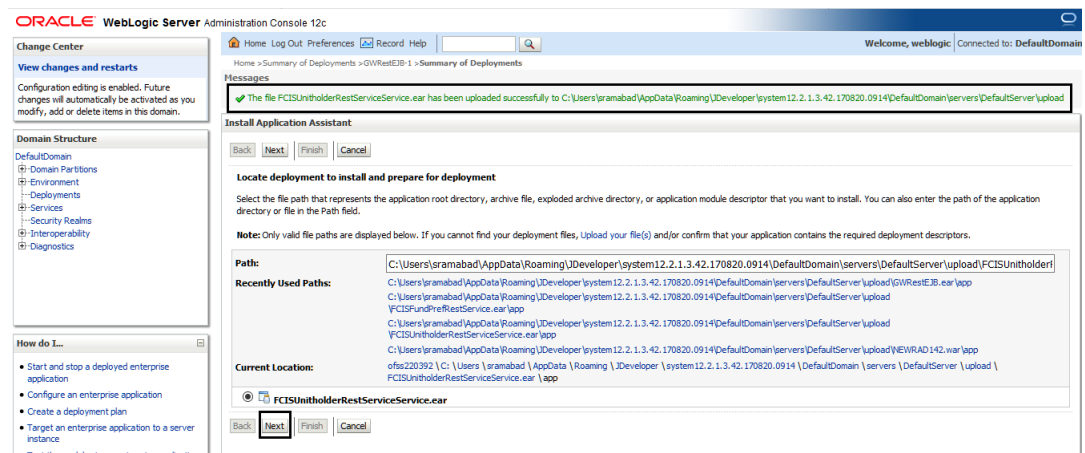


6. Click on 'Next' and the following screen is displayed:

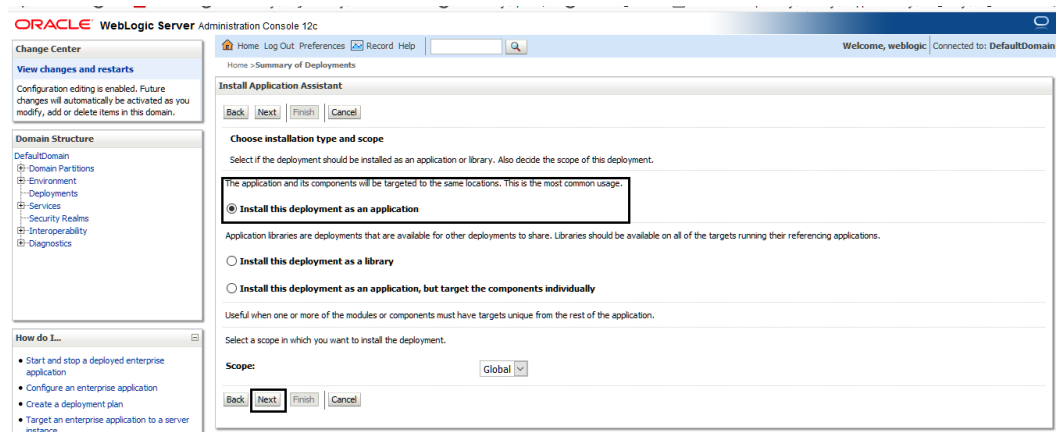




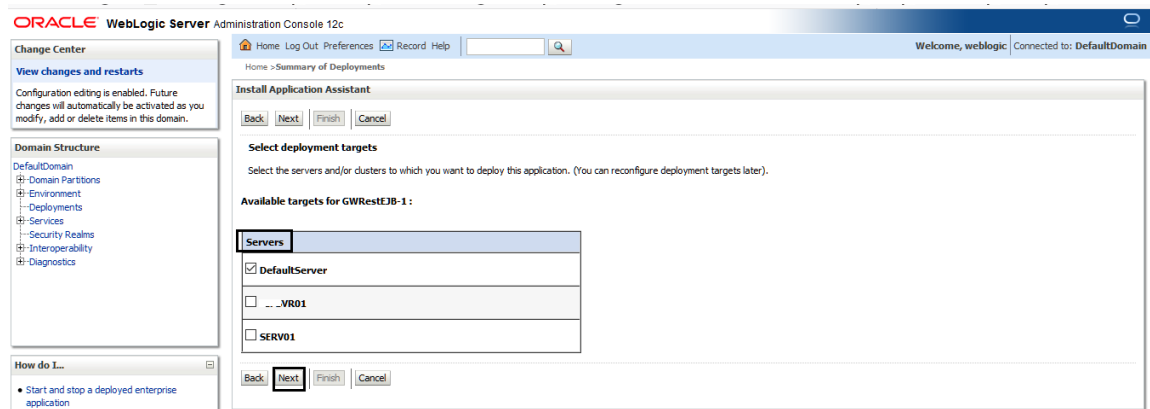
7. Click on 'Next' and the following screen is displayed



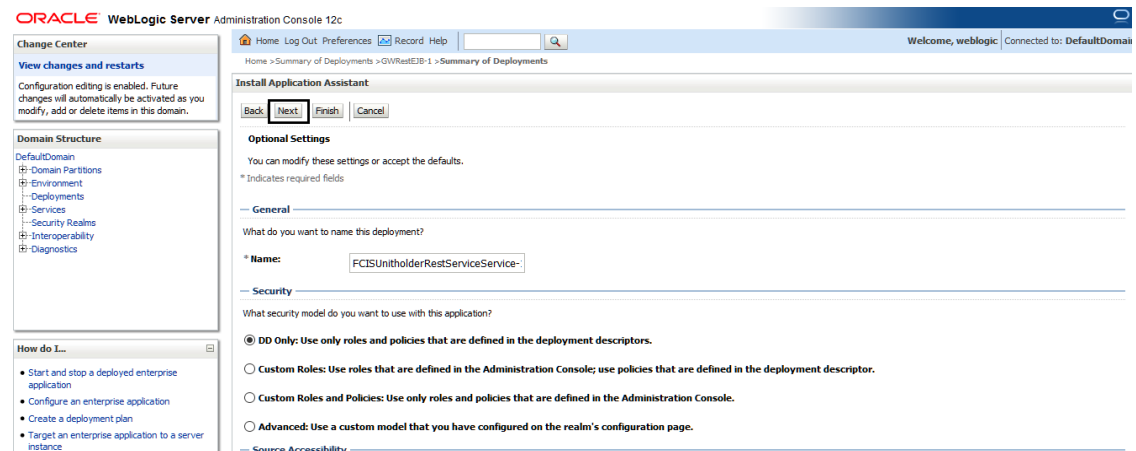
8. Click on 'Next' and the following screen is displayed



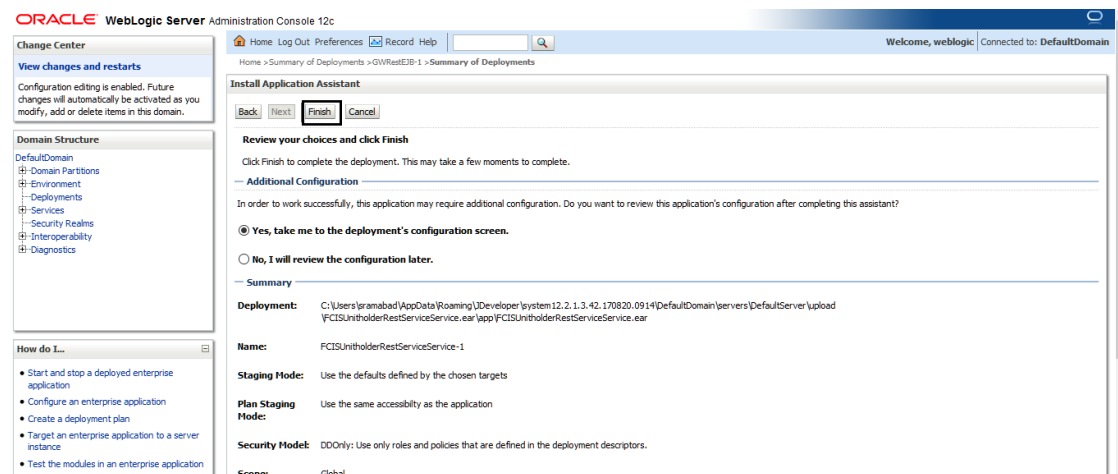
9. Click on 'Next' and the following screen is displayed. Select correct Server where the EAR to be deployed.



10. Click on 'Next' and the following screen is displayed



11. Click on 'Next' and the following screen is displayed



12. Click on 'Finish' and the following screen is displayed

Click on 'Save' and the following screen is displayed on top it says "All changes have been activated. No restarts are necessary. Settings updated successfully."

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: DefaultDomain

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

- DefaultDomain
  - 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

Settings for FCISUnitholderRestServiceService-1

Overview Deployment Plan Configuration Security Targets Control Testing Monitoring Notes

Save

Use this page to view the general configuration of an enterprise application, such as its name, the physical path to the application files, the associated deployment plan, and so on. The table at the end of the page lists the modules (such as Web applications and EJBs) that are contained in the enterprise application. Click on the name of the module to view and update its configuration.

Name:	FCISUnitholderRestServiceService-1	The name of this enterprise application. <a href="#">More Info...</a>
Scope:	Global	Specifies if this enterprise application is accessible within the domain, a partition, or a resource group template. <a href="#">More Info...</a>
Path:	C:\Users\srarnabad\AppData\Roaming\JDeveloper\system12.2.1.3.42.170820.0914\DefaultDomain\servers\DefaultServer\upload\FCISUnitholderRestServiceService.ear\app\FCISUnitholderRestServiceService.ear	The path to the source of the deployable unit on the Administration Server. <a href="#">More Info...</a>
Deployment Plan:	(no plan specified)	The path to the deployment plan document on the Administration Server. <a href="#">More Info...</a>
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. <a href="#">More Info...</a>

To get wadl Link. Click Testing tab page

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: DefaultDomain

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

- DefaultDomain
  - Domain Partitions
  - Environment
    - Deployments
    - Services
      - Security Realms
      - Interoperability
      - Diagnostics

How do I...

Settings for FCISUnitholderRestServiceService

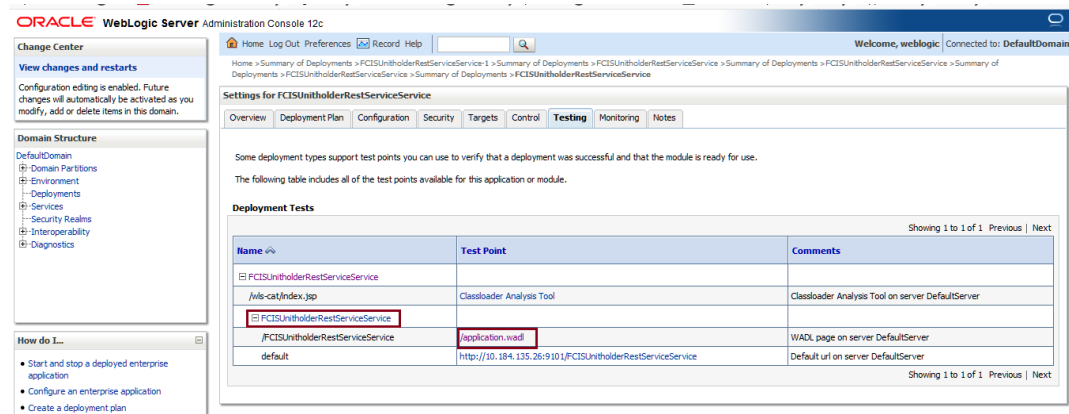
Overview Deployment Plan Configuration Security Targets Control Testing Monitoring Notes

Save

Use this page to view the general configuration of an enterprise application, such as its name, the physical path to the application files, the associated deployment plan, and so on. The table at the end of the page lists the modules (such as Web applications and EJBs) that are contained in the enterprise application. Click on the name of the module to view and update its configuration.

Name:	FCISUnitholderRestServiceService	The name of this enterprise application. <a href="#">More Info...</a>
Scope:	Global	Specifies if this enterprise application is accessible within the domain, a partition, or a resource group template. <a href="#">More Info...</a>
Path:	C:\Users\srarnabad\AppData\Roaming\JDeveloper\system12.2.1.3.42.170820.0914\DefaultDomain\servers\DefaultServer\upload\FCISUnitholderRestServiceService.ear\app\FCISUnitholderRestServiceService.ear	The path to the source of the deployable unit on the Administration Server. <a href="#">More Info...</a>
Deployment Plan:	(no plan specified)	The path to the deployment plan document on the Administration Server. <a href="#">More Info...</a>

Click Service and click on '/application.wadl'



## 1.5 Enabling Logs for REST Application

To enable logging following properties needs to be set in the logging.xml as mentioned below. Once the parameters are set all the logs are stored in the file ofss-rest-api.log.

- Provide the below entry in the file

{domain.home}\config\fmwconfig\servers\{server.name}\logging.xml

```
<log_handler name='ofss-handler' class='oracle.core.ojdl.logging.ODLHandlerFactory'
level='TRACE:1'>
```

```
    <property name='path'
value='${domain.home}/servers/${weblogic.Name}/logs/ofss-rest-api.log' />
    <property name='maxFileSize' value='10485760' />
    <property name='maxLogSize' value='104857600' />
    <property name='encoding' value='UTF-8' />
    <property name='useThreadName' value='true' />
```

```
        <property name='supplementalAttributes'
value='DSID,J2EE_APP.name,J2EE_MODULE.name,WEBSERVICE.name,WEBSERVICE_PORT.
name,oracle.soa.tracking.FlowId,oracle.soa.tracking.InstanceId,oracle.soa.tracking.SCAEntityId,oracle
.soa.tracking.FaultId,oracle.soa.tracking.RetryCount,composite_name' />
    </log_handler>
```

```
<logger name='com.ofss' level='TRACE:1' useParentHandlers='false'>
<handler name='ofss-handler' />
</logger>
```





RETSservice Deployment WebLogic in Oracle FLEXCUBE  
[November] [2022]  
Version 14.7.0.0.0

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