

REST API Services Deployment in Weblogic
Oracle FLEXCUBE Universal Banking
Release 14.4.0.3.0
[February] [2021]



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1. FLEXCUBE Universal Banking Solutions

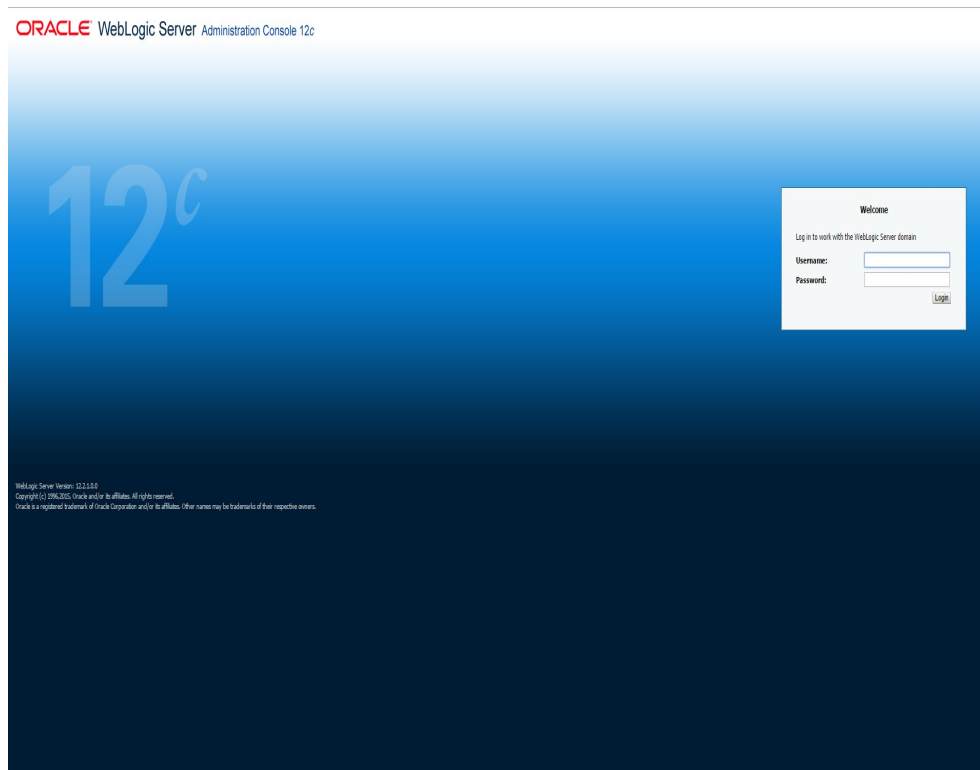
This document describes step to install REST Services into weblogic application server in full.

Prerequisite:

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

1.1 REST API 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:

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: base_domain

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...?
- Search the configuration
- Use the Change Center
- Record WLST scripts
- Change Console preferences
- Manage Console extensions
- Monitor servers

System Status
Health of Running Servers
Failed (0)
Critical (0)
Overloaded (0)
Warning (0)
OK (1)

Home Page
Information and Resources

Helpful Tools
- Configure applications
- Configure GridLink for RAC Data Source
- Configure a Dynamic Cluster
- Recent Task Status
- Set your console preferences

Domain Configurations
Domain
- Domain
Domain Partitions
- Domain Partitions
- Partition Work Managers
Environment
- Servers
- Clusters
- Server Templates
- Migratable Targets
- Coherence Clusters
- Machines
- Virtual Hosts
- Virtual Targets
- Work Managers
- Concurrent Templates
- Resource Management
- Startup And Shutdown Classes
Application's Security Settings
- Security Realms

General Information
- Common Administration Task Descriptions
- Read the documentation
- Ask a question on My Oracle Support

Resource Group Templates
- Resource Group Templates
Resource Groups
- Resource Groups
Deployed Resources
- Deployments
Services
- Messaging
- JMS Servers
- Store-and-Forward Agents
- JMS Modules
- Path Services
- Bridges
- Data Sources
- Persistent Stores
- XML Registries
- XML Entity Caches
- Foreign JMS Providers
- Work Contexts
- JCOM
- Mail Sessions
- FileT3
- JTA
- OSIG Frameworks

Interoperability
- WTC Servers
- Jolt Connection Pools
Diagnostics
- Log Files
- Diagnostic Modules
- Built-in Diagnostic Modules
- Diagnostic Images
- Request Performance
- Archives
- Context
- SNMP
- Interceptors
Charts and Graphs
- Monitoring Dashboard

WebLogic Server Version: 12.2.1.0.0
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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: base_domain

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...?
- Install an enterprise application
- Configure an enterprise application
- Update (redeploy) an enterprise application
- Monitor the modules of an enterprise application
- Deploy ESB module
- Install a Web application

System Status
Health of Running Servers
Failed (0)
Critical (0)
Overloaded (0)
Warning (0)
OK (1)

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

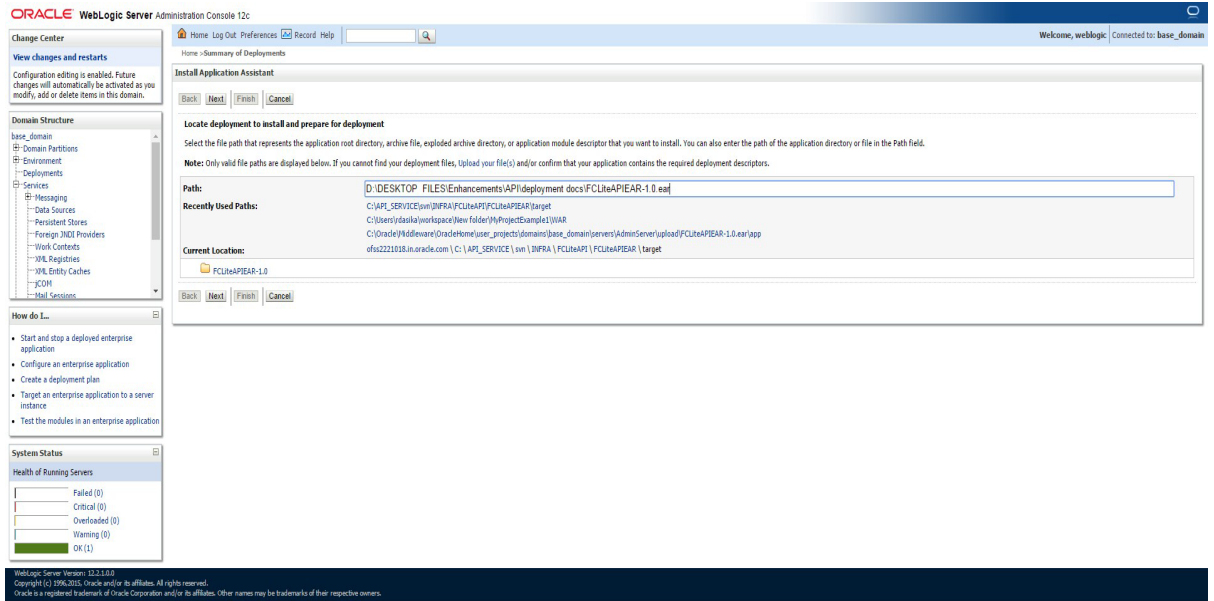
Name	State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
<input type="checkbox"/> ProjectV1	Active	OK	Web Application	AdminServer	Global		100

Showing 1 to 1 of 1 Previous | Next

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https://2221018.in.oracle.com:7001/console/console.portal?_afpjs=true&_pageLabel=AppDeploymentsControlPage&App...

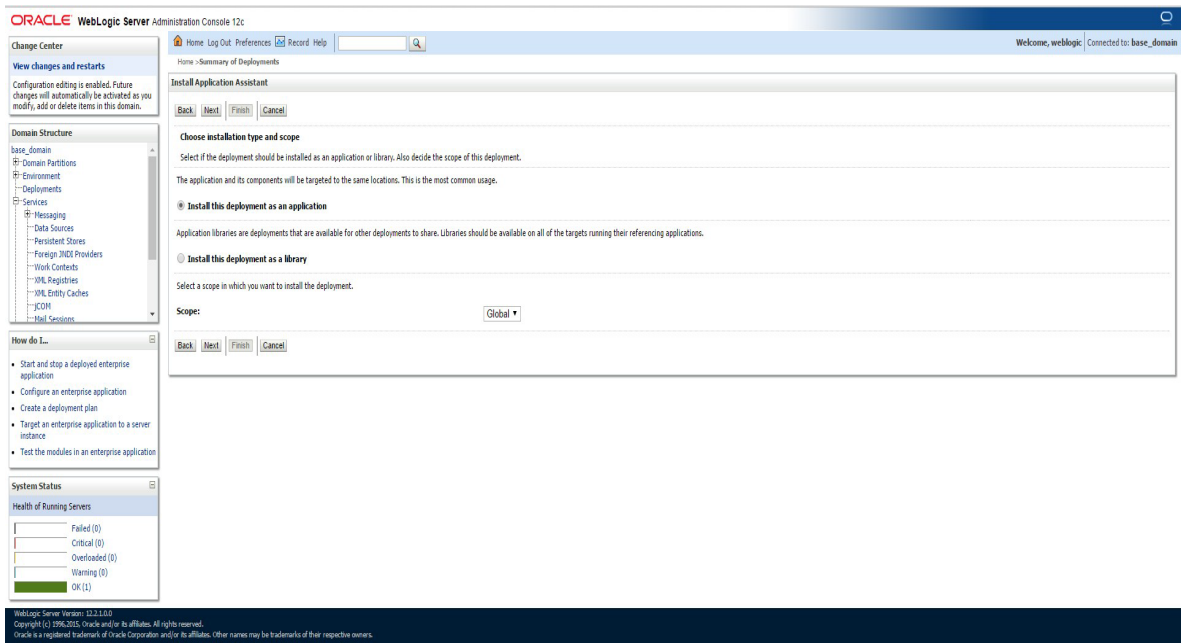
4. Click 'Install' from the Deployments following screen will be displayed.



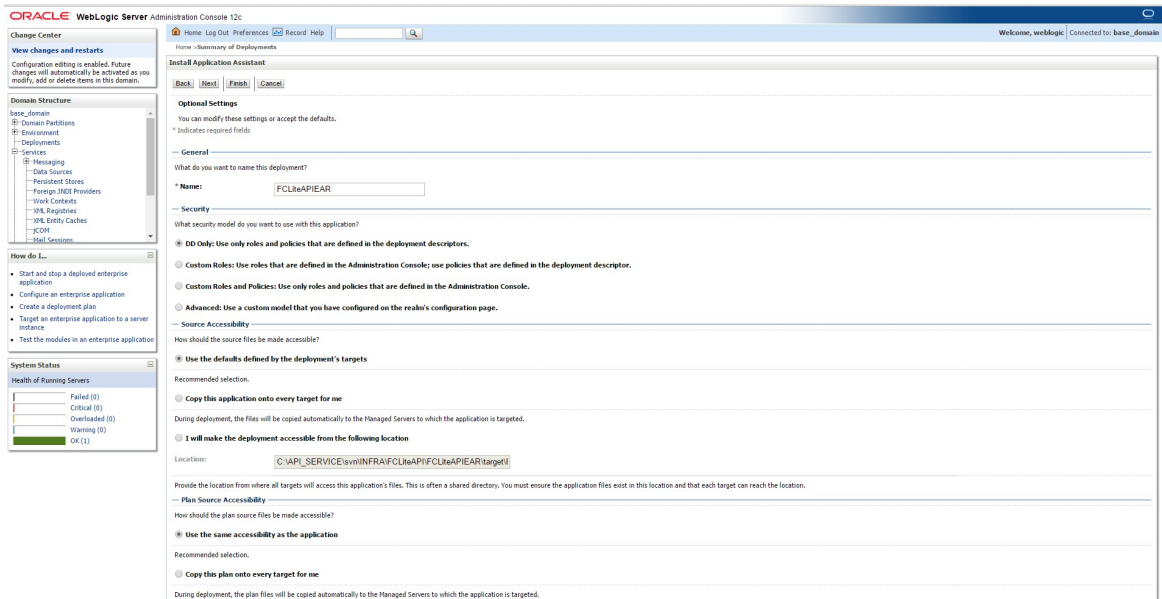
Path

Enter the complete path of the EAR

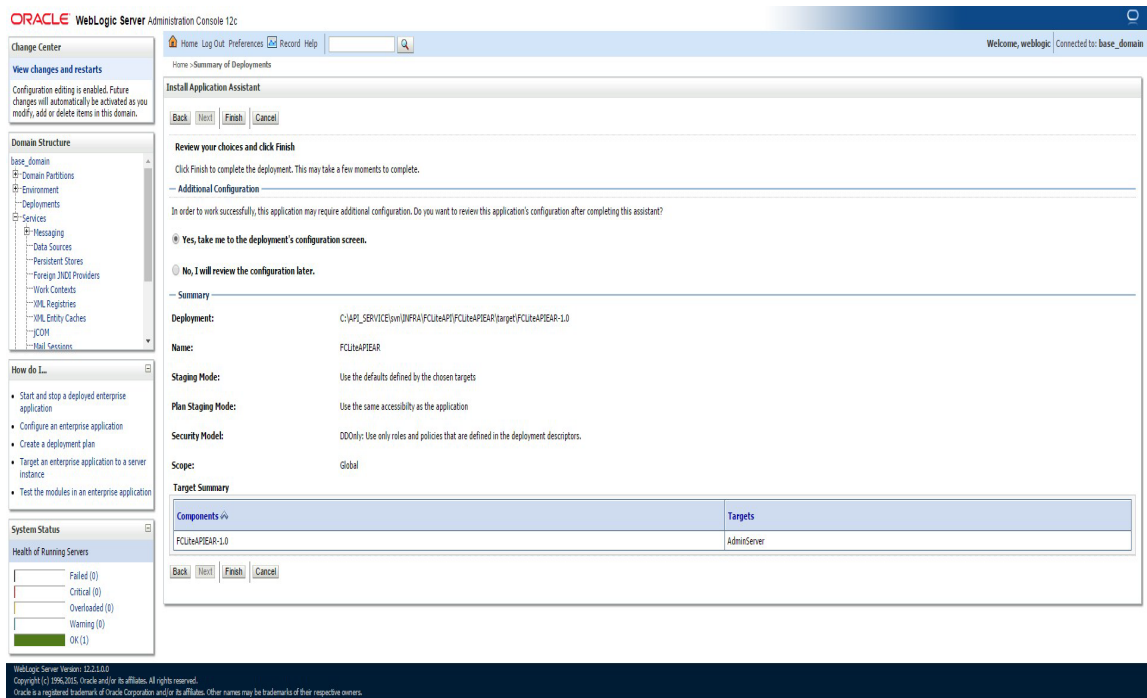
5. Click on 'Next' and the following screen is displayed:



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



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



8. Click on 'Finish' and the following screen is displayed:

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: base_domain

Home > Summary of Deployments > FCLInAPEIAR

Settings for FCLInAPEIAR

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: FCLInAPEIAR The name of this enterprise application. [More Info...](#)

Scope: Global Specifies if this enterprise application is accessible within the domain, a partition, or a resource group template. [More Info...](#)

Path: C:\APL_SERVICE1\owl\INPRA\FCLInAPEI\FCLInAPEIAR\target\FCLInAPEIAR-1.0 The path to the source of the deployable unit on the Administration Server. [More Info...](#)

Deployment Plan: (no plan specified) The path to the deployment plan document on the Administration Server. [More Info...](#)

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. [More Info...](#)

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. [More Info...](#)

Security Model: DDOnly The security model that is used to secure a deployed module. [More Info...](#)

Deployment Order: 100 An integer value that indicates when this unit is deployed, relative to other deployable units on a server, during startup. [More Info...](#)

Deployment Principal Name: 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 ApplicationLifecycleListener. If no principal name is specified, then the anonymous principal will be used. [More Info...](#)

Save

Modules and Components

Showing 1 to 1 of 1 Previous Next

Name	Type
FCLInAPEIAR	Enterprise Application
EJBs	
Modules	
FCLInWeb	Web Application
FCLInServices-1.0.jar	EJB Module
Web Services	
None to display	

Showing 1 to 1 of 1 Previous Next

9. 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: base_domain

Home > Summary of Deployments > FCLInAPEIAR > Summary of J2EE Data Sources > Summary of Deployments > FCLInAPEIAR

Messages

All changes have been activated. No restarts are necessary.
Settings updated successfully.

Settings for FCLInAPEIAR

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: FCLInAPEIAR The name of this enterprise application. [More Info...](#)

Scope: Global Specifies if this enterprise application is accessible within the domain, a partition, or a resource group template. [More Info...](#)

Path: C:\APL_SERVICE1\owl\INPRA\FCLInAPEI\FCLInAPEIAR\target\FCLInAPEIAR-1.0 The path to the source of the deployable unit on the Administration Server. [More Info...](#)

Deployment Plan: (no plan specified) The path to the deployment plan document on the Administration Server. [More Info...](#)

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. [More Info...](#)

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. [More Info...](#)

Security Model: DDOnly The security model that is used to secure a deployed module. [More Info...](#)

Deployment Order: 100 An integer value that indicates when this unit is deployed, relative to other deployable units on a server, during startup. [More Info...](#)

Deployment Principal Name: 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 ApplicationLifecycleListener. If no principal name is specified, then the anonymous principal will be used. [More Info...](#)

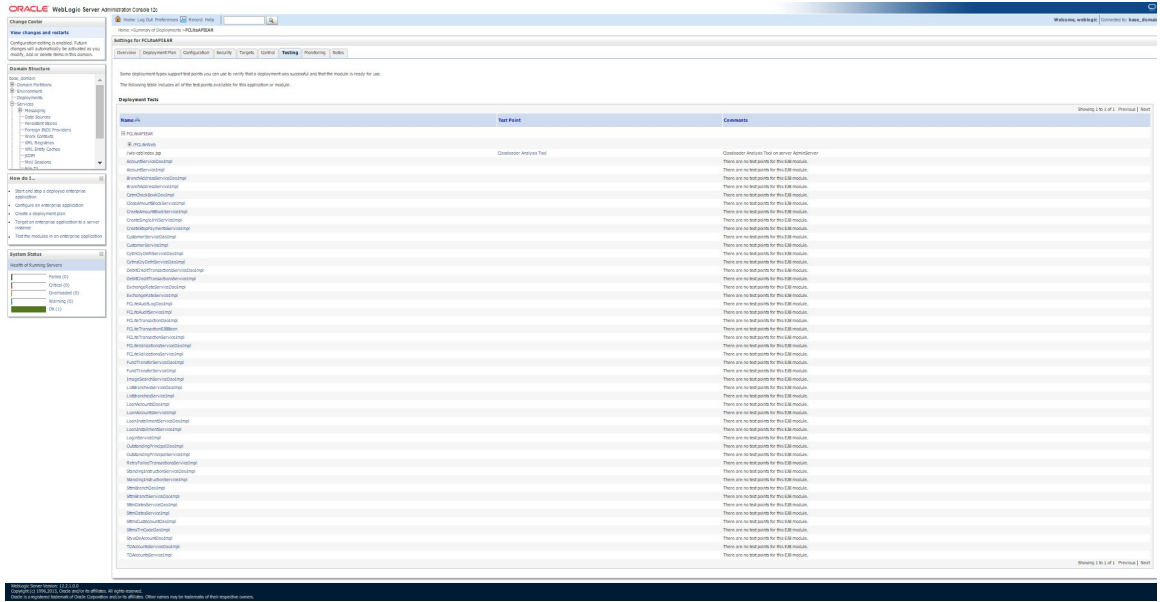
Save

Modules and Components

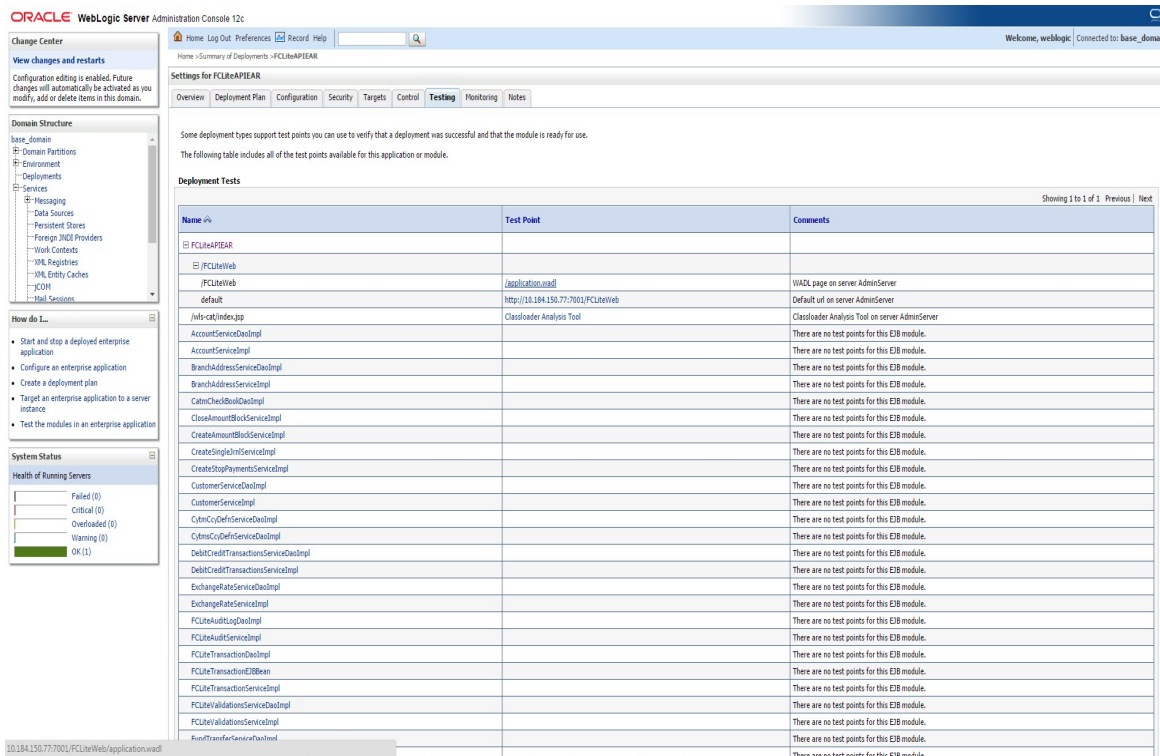
Showing 1 to 1 of 1 Previous Next

Name	Type
FCLInAPEIAR	Enterprise Application
EJBs	
AccountServiceImpl	EJB
AccountServiceImpl	EJB
BranchAddressServiceDaoImpl	EJB
BranchAddressServiceImpl	EJB
CartCheckoutDaoImpl	EJB

10. If wsdl file is required then click on Testing TAB from the above screen.



11. Click on Expand /FCLiteWeb and the following screen will be displayed



We can find the “wsdl” file in the Test Point column.

1.2 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>
```



REST API Services deployment in Flexcube
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