

REST API Services Deployment in Weblogic
Oracle FLEXCUBE Universal Banking
Release 14.5.0.0.0
Part No. F42208-01
[May] [2021]



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1. FLEXCUBE Universal Banking Solutions

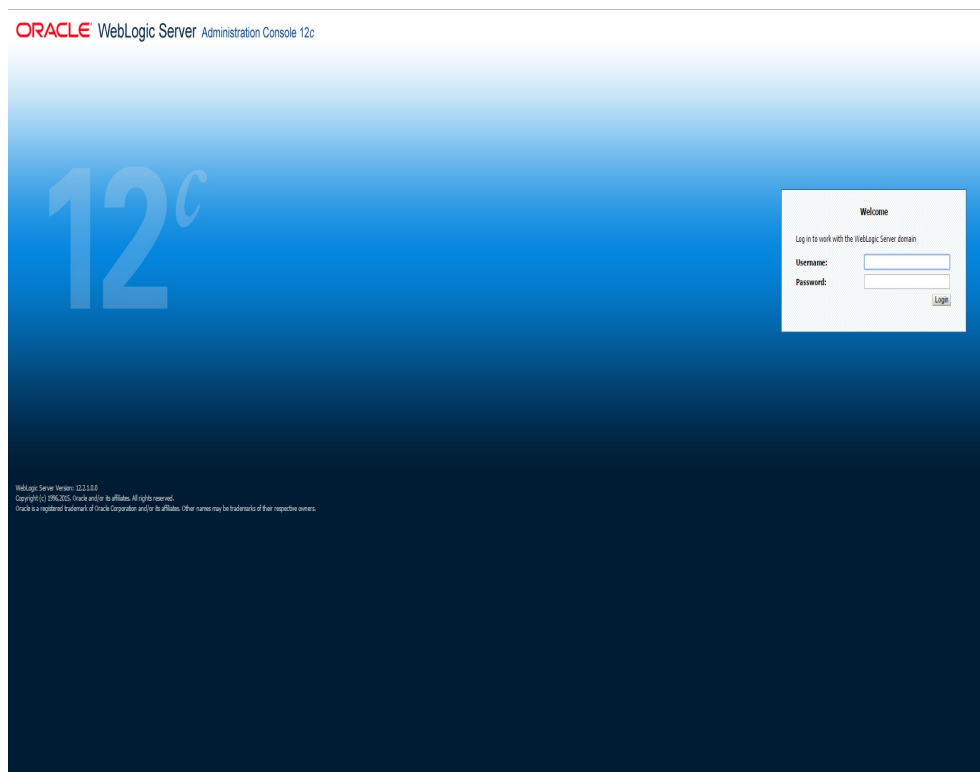
This document describes step to install REST Services into weblogic application server in full.

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 JNDI Providers
• Work Contents
• JCOM
• Mail Sessions
• FileT3
• JTA
• OSG Frameworks

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

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

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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 EJB modules
• 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

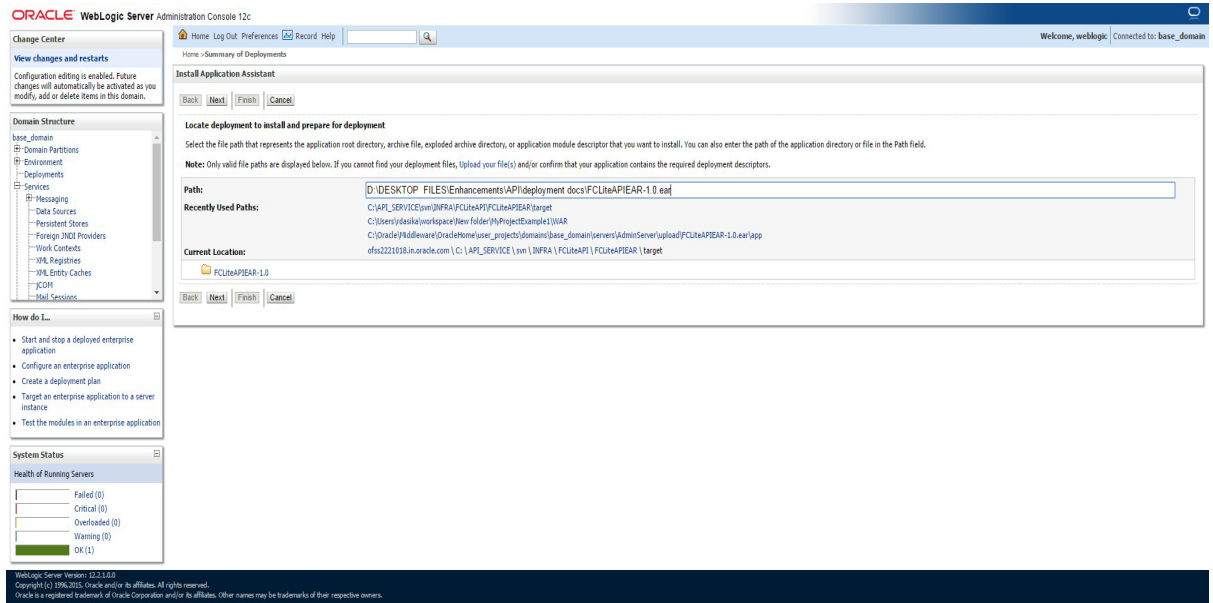
Name	State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
ProjectCV1	Active	OK	Web Application	AdminServer	Global		100

Showing 1 to 1 of 1 Previous Next

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url=https://192.168.1.101:7001/console/console.portal?_afp=true&_pageLabel=AppDeploymentsControlPage&App...

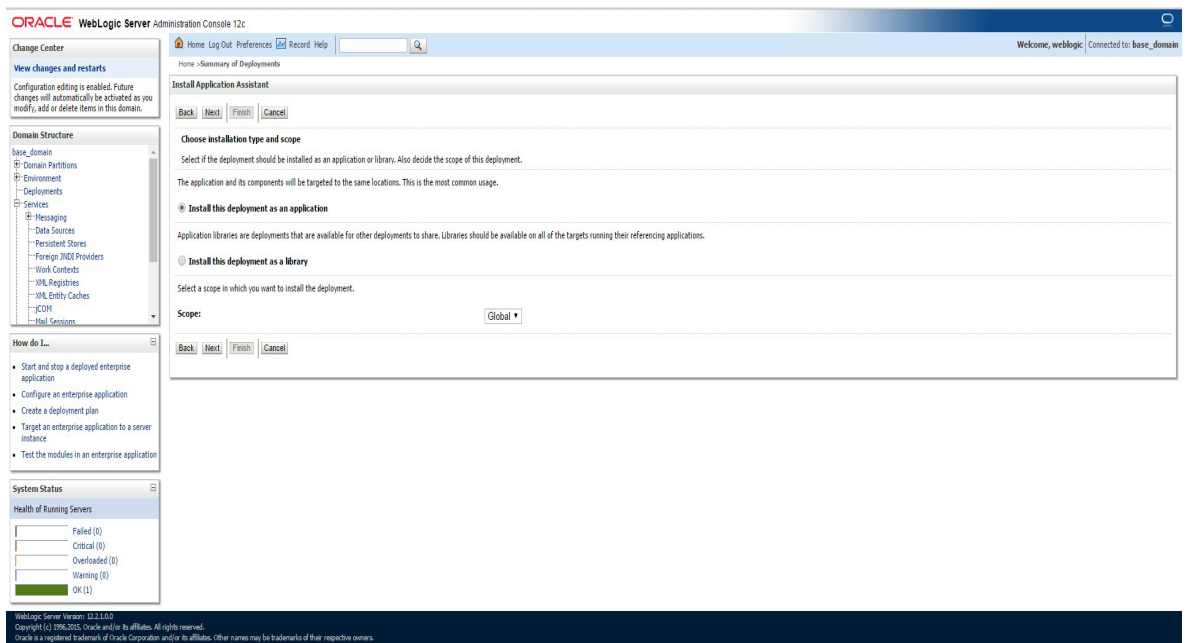
4. Click 'Install' from the Deployments following screen will be displayed.



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:

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
 - Messaging
 - Data Sources
 - Persistent Stores
 - Foreign JNDI Providers
 - Work Contexts
 - URL Registries
 - URL Entity Caches
 - JCOH
 - Mail Sessions

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 (1)

Install Application Assistant

Back Next Finish Cancel

Optional Settings

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

General

What do you want to name this deployment?

Name:

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 Rules:** Use the rules that are defined in the Administration Console; use policies that are defined in the deployment descriptor.

☐ **Custom Rules 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**

Recommended selection.

☐ **Copy this plan onto every target for me**

During deployment, the plan files will be copied automatically to the Managed Servers to which the application is targeted.

7. 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: base_domain

Change Center

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How do I...

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- Create a deployment plan
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System Status

Health of Running Servers

Failed (0)
Critical (0)
Overloaded (0)
Warning (0)
OK (1)

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: C:\API_SERVICE\svn\INFRA\FCUthAPI\FCUthAPIEAR\target\FCUthAPIEAR-1.0

Name: FCUthAPIEAR

Staging Mode: Use the defaults defined by the chosen targets

Plan Staging Mode: Use the same accessibility as the application

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

Scope: Global

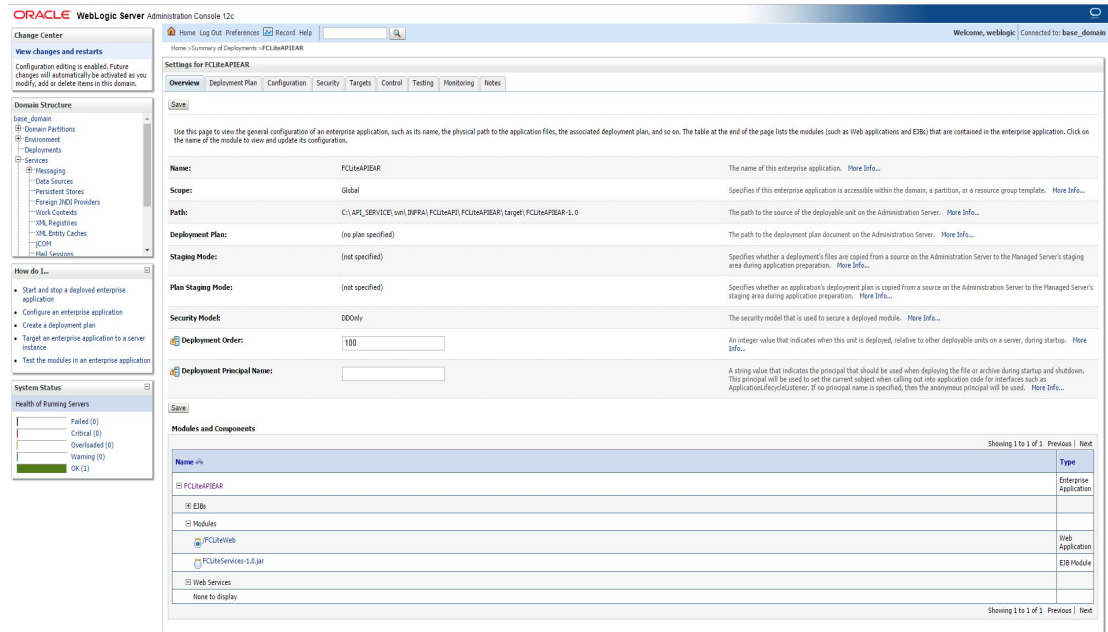
Target Summary

Components	Targets
FCUthAPIEAR-1.0	AdminServer

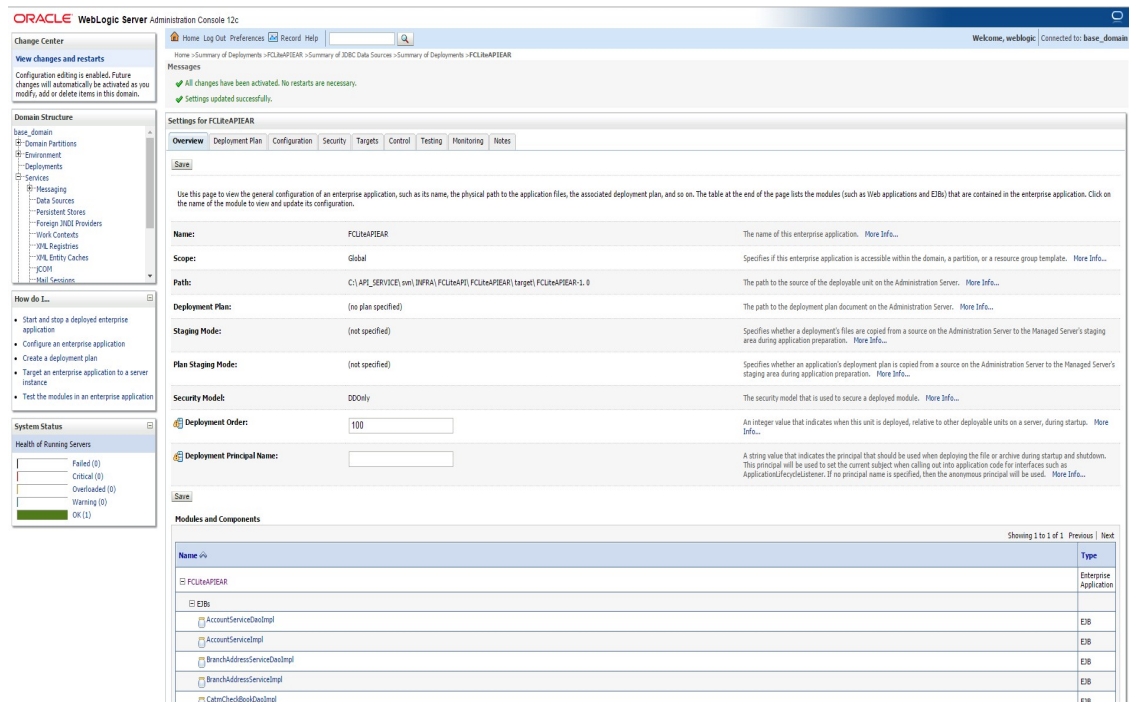
Back Next Finish Cancel

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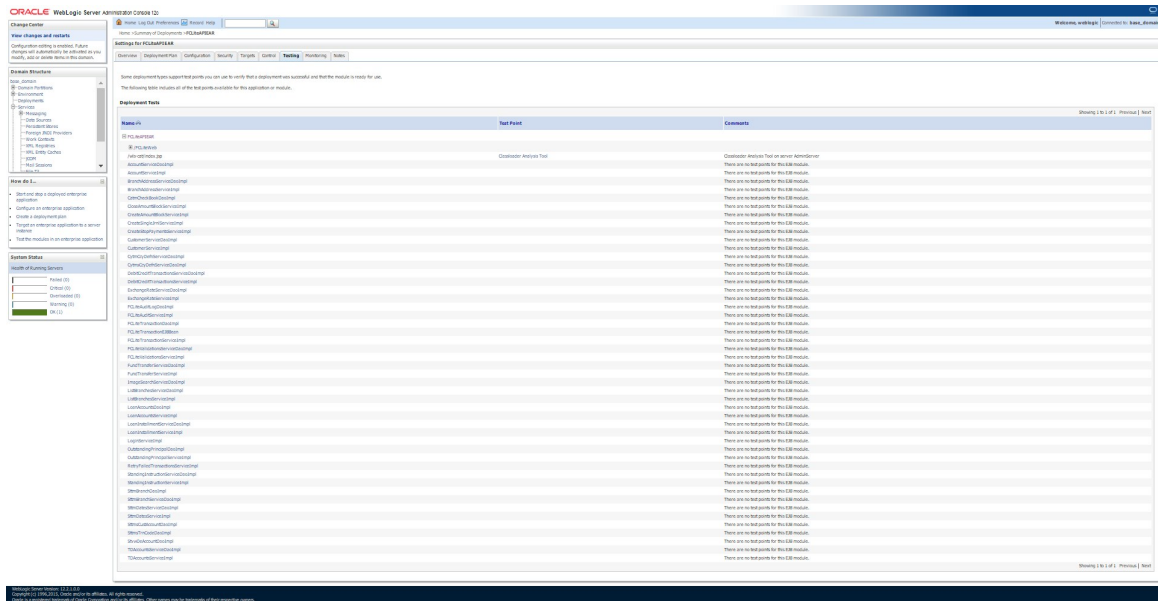
8. Click on 'Finish' and the following screen is displayed:



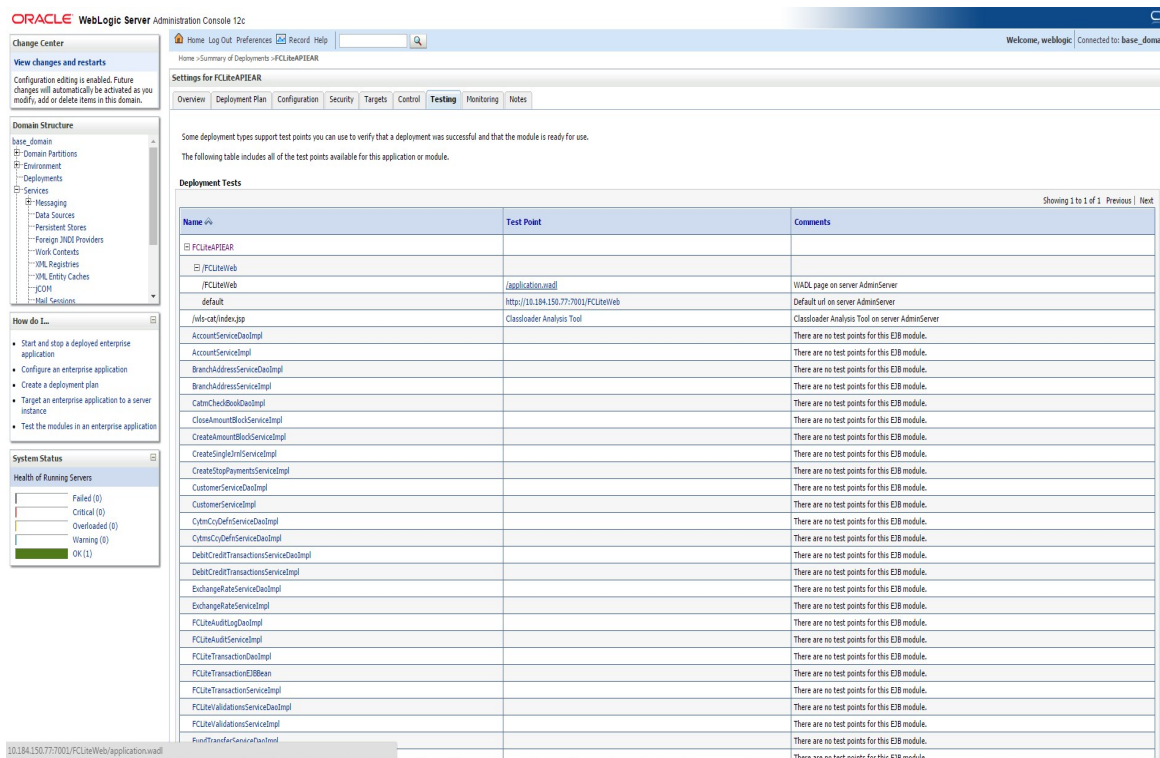
9. Click on 'Save' and the following screen is displayed on top it says "All changes have been activated. No restarts are necessary. Settings updated successfully."



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>

```



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