

WebServices Installation Guide

# **Oracle Financial Services Lending and Leasing**

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WebServices Installation Guide  
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# 1. Preface

This document contains notes and installation steps needed to install WebServices. Oracle Financial Services Lending and Leasing relies on several pieces of Oracle software in order to run and this document is in no way meant to replace Oracle documentation supplied with the WebServices product or available via Oracle technical support. The purpose of this document is only meant to supplement the Oracle documentation and to provide Oracle Financial Services Lending and Leasing specific installation instructions.

*For recommendations on security configuration, refer Security Configuration Guide.*

It is assumed that anyone installing Oracle Financial Services Lending and Leasing will have a thorough knowledge and understanding of WebServices.

This guide covers the following processes.

- [Installing WebServices Database Objects](#)
- [Deploying Application Interface WebServices](#)
- [Configuring Weblogic Policy on WebServices](#)

## 1.1 Prerequisites

1. Download and Install the Oracle WebLogic Server 12c Version 12.2.1.3.0 from <http://www.oracle.com/technetwork/middleware/weblogic/downloads/wls-main-097127.html>). They are available from the following sources:
  - Oracle Software Delivery Cloud (<http://edelivery.oracle.com/>)
  - Oracle Technology Network (OTN)
2. It is assumed that the Oracle Financial Services Lending and Leasing DB is installed and configured, before running the WebServices installer.

## 1.2 Audience

This document is intended for system administrators or application developers who are installing Oracle Financial Services Lending and Leasing Application.

## 1.3 Conventions Used

Term	Refers to
Application	Oracle Financial Services Lending and Leasing



## 2. Installing WebServices Database Objects

Download and unzip the WebServices database (ofslxwsdb.zip) to a staging folder.

Run `$ ./instalofslxwsdb.sh`

```
-bash-4.1$ ./instalofslxwsdb.sh
```

This installer adds the required tables and packages to the application database.

```
Oracle Financial Services Lending and Leasing Webservices DB Installer
```

```
Important Note:
```

```
-----  
It is expected to have the OFSLL Application DB been installed and configured  
before running this installer.
```

```
This installer adds the required tables and packages to the same OFSLL DB schema.
```

```
Continue? [y/n]: y
```

Enter 'y' when prompted to continue.

```
Oracle Financial Services Lending and Leasing Webservices DB Installer
```

```
Important Note:
```

```
-----  
It is expected to have the OFSLL Application DB been installed and configured  
before running this installer.
```

```
This installer adds the required tables and packages to the same OFSLL DB schema.
```

```
Continue? [y/n]: y
```

```
Enter the Oracle Financial Services Lending and Leasing  
Home Path? (usually /home/ofsl): /scratch/work_area/DEV/OFSLLREL
```

```
OFSLLHOME=/scratch/work_area/DEV/OFSLLREL
```

```
Okay? [y/n]: y
```

Script Prompts	Description and Action Required
Oracle Financial Services Lending and Leasing Home Path	Enter the path to the home directory. This is referred to as \$OFSLL_HOME. Enter 'y' when prompted for.

# Oracle Financial Services Lending and Leasing Webservices DB Installer

## Important Note:

It is expected to have the OFSL Application DB been installed and configured before running this installer.

This installer adds the required tables and packages to the same OFSL DB schema.

Continue? [y/n]: y

Enter the Oracle Financial Services Lending and Leasing  
Home Path? (usually /home/ofsl): /scratch/work\_area/DEV/OFSLREL

OFSLHOME=/scratch/work\_area/DEV/OFSLREL  
Okay? [y/n]: y

Enter the Oracle DB Home Path? /scratch/app/db12c/product/12.1.0/dbhome\_1

ORAHOME=/scratch/app/db12c/product/12.1.0/dbhome\_1  
Okay? [y/n]: y

Enter the Oracle SID? ORCL  
INSTANCENAME=ORCL  
Okay? [y/n]: y

Script Prompts	Description and Action Required
Oracle DB Home Path	Enter the path to the Oracle DB home directory. This is referred to as \$ORACLE_HOME. Enter 'y' when prompted for.
Oracle SID	Enter the Name of Oracle Instance. Enter 'y' when prompted for.

## Important Note:

Here is a list of CRITICAL environment variables and their settings:

```
PATH=/usr/lib64/qt-3.3/bin:/usr/kerberos/sbin:/usr/kerberos/bin:/bin:/usr/bin:/usr/dev_infra/platform/bin:/usr/dev_infra/generic/bin:
11R6/bin:/usr/local/ade/bin:/scratch/app/db12c/product/12.1.0/dbhome_1/bin
ORACLE_HOME=/scratch/app/db12c/product/12.1.0/dbhome_1
ORACLE_SID=ORCL
OFSL_HOME=/scratch/work_area/DEV/OFSLREL
```

With the above environment, you should be able start SQLPlus and connect to the database. If you cannot, correct the environment and restart the script to continue.

Continue? [y/n]: y

The script lists and sets the CRITICAL environment variables

```
.....  
Oracle Financial Services Lending and Leasing Webservices Database Object Installation
```

The following items are available for installation:

1. database types (512)
2. database tables (47)
3. database views (295)
4. database trigger (4)
5. database package specs (412)
6. database package bodies (420)
7. database indexes (30)
8. System Seed Data (0)

Continue with Installation? [y/n] : █

Enter 'y' when prompted to continue. A list of items available for installation are listed. Enter 'y' when prompted to 'Continue with Installation'.

```
Oracle Financial Services Lending and Leasing Webservices Database Object Installation  
  
The following items are available for installation:  
  
1. database types (173)  
2. database tables (47)  
3. database views (157)  
4. database trigger (4)  
5. database package specs (254)  
6. database package bodies (262)  
7. database indexes (30)  
8. System Seed Data (0)  
  
Continue with Installation? [y/n] : y  
  
Log files will be located in /scratch/work_area/DEV/OFSLREL/logs/ofsl_xws_install_logs  
Press Enter to Continue...  
  
Enter the Oracle userid (schema name) that will own the Oracle Financial Services Lending and Leasing  
objects? (usually ofslprd): OFSLREL  
  
Enter the password for this userid: █
```

Sets the path for the location of log files. Press 'Enter' to continue.

Script Prompts	Description and Action Required
Oracle User ID that will own the Oracle Financial Services Lending and Leasing objects	Valid User ID
Password for this User ID	Valid Password

The script installs the objects.

```
PL/SQL procedure successfully completed.

PL/SQL procedure successfully completed.

PL/SQL procedure successfully completed.

PL/SQL procedure successfully completed.

PL/SQL procedure successfully completed.

Commit complete.

Recompiling Invalid Objects...
mv: cannot stat '/tmp/recomp_obj..23135.log': No such file or directory

Oracle Financial Services Lending and Leasing Webservices DB Object Installation Com
```

While installing, the script recompiles the invalid objects and completes the installation of DB objects.

## 3. Deploying Application Interface WebServices

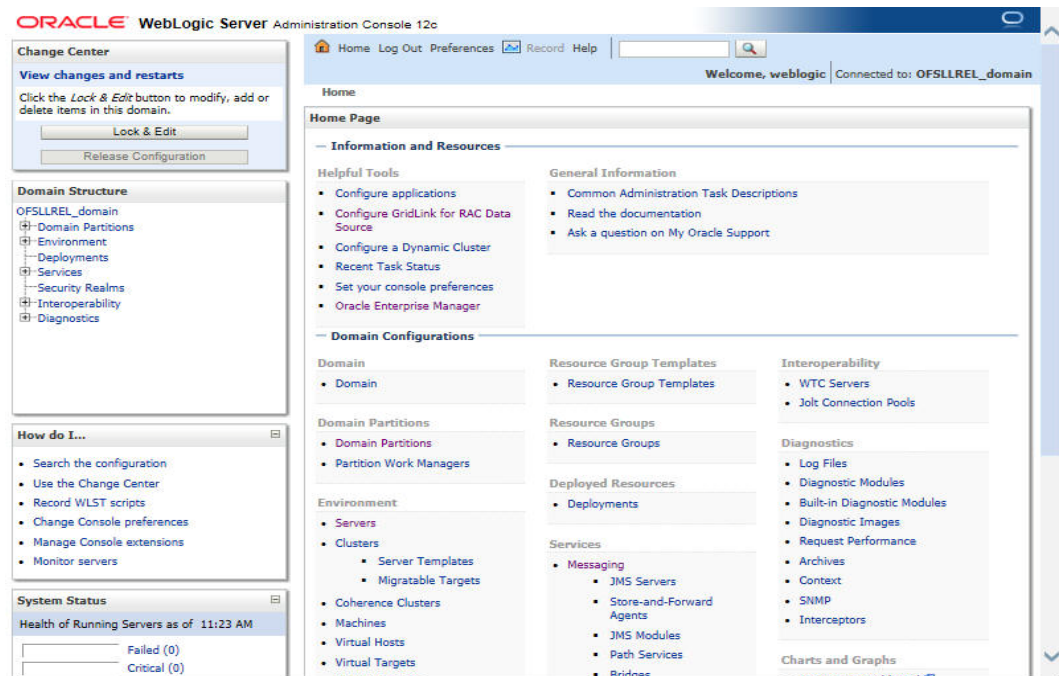
### 3.1 Creating Data Sources for WebServices

it is assumed that a managed server is already created for the following web service deployment(s) as per the process detailed in Application Installation guide section - 3.2 Creating Domain and Servers.

1. Login to WebLogic Server 12c console (<http://hostname:port/console>).



2. The following window is displayed.



3. Click Domain Name > Services > Data Sources. The following window is displayed.

**ORACLE WebLogic Server Administration Console 12c**

Home > Summary of JDBC Data Sources

Welcome, weblogic | Connected to: OFSLLREL\_domain

**Summary of JDBC Data Sources**

**Configuration** | Monitoring

A JDBC data source is an object bound to the JNDI tree that provides database connectivity through a pool of JDBC connections. Applications can look up a data source on the JNDI tree and then borrow a database connection from a data source.

This page summarizes the JDBC data source objects that have been created in this domain.

**Customize this table**

**Data Sources (Filtered - More Columns Exist)**

Click the **Lock & Edit** button in the Change Center to activate all the buttons on this page.

Name	Type	JNDI Name	Targets
aq-jms-db	Generic	jdbc/aqjmsdb	OFSLL_ManagedServer
jdbc/dbk105nIEJBDS	Generic	jdbc/dbk105nIEJBDS	WS_ManagedServer
LocalSvcTbDataSource	Generic	jdbc/LocalSvcTbDataSource	AdminServer
mds-adf	Generic	jdbc/mds/adf	AdminServer, OFSLL_ManagedServer
OFSLL	Generic	jdbc/ofslIDBConnDS	AdminServer, OFSLL_ManagedServer
opss-audit-DBDS	Generic	jdbc/AuditAppendDataSource	AdminServer, OFSLL_ManagedServer, WS_ManagedServer
opss-audit-viewDS	Generic	jdbc/AuditViewDataSource	AdminServer, OFSLL_ManagedServer, WS_ManagedServer
opss-data-source	Generic	jdbc/OpssDataSource	AdminServer, OFSLL_ManagedServer, WS_ManagedServer
WLSSchemaDataSource	Generic	jdbc/WLSSchemaDataSource	

4. Click 'Lock & Edit' button on the left panel. Click 'New' on right panel and select 'Generic Data Source'.

**ORACLE WebLogic Server Administration Console 12c**

Home > Summary of JDBC Data Sources

Welcome, weblogic | Connected to: OFSLLREL\_domain

**Summary of JDBC Data Sources**

**Configuration** | Monitoring

A JDBC data source is an object bound to the JNDI tree that provides database connectivity through a pool of JDBC connections. Applications can look up a data source on the JNDI tree and then borrow a database connection from a data source.

This page summarizes the JDBC data source objects that have been created in this domain.

**Customize this table**

**Data Sources (Filtered - More Columns Exist)**

Click the **Lock & Edit** button in the Change Center to activate all the buttons on this page.

Name	Type	JNDI Name	Targets
Generic Data Source	Generic	jdbc/aqjmsdb	OFSLL_ManagedServer
GridLink Data Source	Generic	jdbc/dbk105nIEJBDS	WS_ManagedServer
Multi Data Source	Generic	jdbc/LocalSvcTbDataSource	AdminServer
Proxy Data Source	Generic	jdbc/mds/adf	AdminServer, OFSLL_ManagedServer
UCP Data Source	Generic	jdbc/ofslIDBConnDS	AdminServer, OFSLL_ManagedServer
opss-audit-DBDS	Generic	jdbc/AuditAppendDataSource	AdminServer, OFSLL_ManagedServer, WS_ManagedServer
opss-audit-viewDS	Generic	jdbc/AuditViewDataSource	AdminServer, OFSLL_ManagedServer, WS_ManagedServer
opss-data-source	Generic	jdbc/OpssDataSource	AdminServer, OFSLL_ManagedServer, WS_ManagedServer
WLSSchemaDataSource	Generic	jdbc/WLSSchemaDataSource	



5. Specify the following details:

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: OFSLLREL\_domain

Home > Summary of Services > Summary of JDBC Data Sources

Create a New JDBC Data Source

Back Next Finish Cancel

JDBC Data Source Properties

The following properties will be used to identify your new JDBC data source.

\* Indicates required fields

What would you like to name your new JDBC data source?

\* Name: jdbc/dbk105nlEJBDS

What scope do you want to create your data source in ?

Scope: Global

What JNDI name would you like to assign to your new JDBC Data Source?

JNDI Name: jdbc/dbk105nlEJBDS

What database type would you like to select?

Database Type: Oracle

Back Next Finish Cancel

- Enter Data source Name.
- Enter JNDI Name as 'jdbc/dbk105nlEJBDS'.
- Select 'Oracle' as Database Type.

6. Click 'Next'. The following window is displayed.

7. Select the Database Driver 'Oracle's Driver(Thin) for Instance connections;Versions:Any' as shown.

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: OFSLLREL\_domain

Home > Summary of Services > Summary of JDBC Data Sources

Create a New JDBC Data Source

Back Next Finish Cancel

JDBC Data Source Properties

The following properties will be used to identify your new JDBC data source.

Database Type: Oracle

What database driver would you like to use to create database connections? Note: \* indicates that the driver is explicitly supported by Oracle WebLogic Server.

Database Driver: \*Oracle's Driver (Thin) for Instance connections; Versions:Any

Back Next Finish Cancel

8. Click 'Next'. The following window is displayed.

The screenshot shows the Oracle WebLogic Server Administration Console. On the left, there is a sidebar with sections: 'Change Center' (with 'View changes and restarts' and 'Release Configuration' buttons), 'Domain Structure' (showing a tree for 'OFSLREL\_domain'), 'How do I...' (with links to 'Create JDBC generic data sources' and 'Create LLR-enabled JDBC data sources'), and 'System Status' (showing 'Health of Running Servers as of 10:01 AM' with a bar chart indicating 2 OK servers). The main content area is titled 'Create a New JDBC Data Source' and includes navigation buttons (Back, Next, Finish, Cancel). The 'Transaction Options' section is active, asking 'Does this data source support global transactions?'. The 'Supports Global Transactions' radio button is selected. Below it, there are options for 'Logging Last Resource' and 'Emulate Two-Phase Commit', both unselected. The 'One-Phase Commit' radio button is selected. At the bottom of the main area are 'Back', 'Next', 'Finish', and 'Cancel' buttons.

9. Click 'Next'. The following window is displayed.

The screenshot shows the 'Create a New JDBC Data Source' window with the 'Connection Properties' section active. It asks for 'What is the name of the database you would like to connect to?' with the 'Database Name' field containing 'OLLDB'. It then asks 'What is the name or IP address of the database server?' with the 'Host Name' field containing 'ofsl.oracle.com'. Next, it asks 'What is the port on the database server used to connect to the database?' with the 'Port' field containing '1521'. Then, it asks 'What database account user name do you want to use to create database connections?' with the 'Database User Name' field containing 'OFSLREL'. Finally, it asks 'What is the database account password to use to create database connections?' with 'Password' and 'Confirm Password' fields, both containing masked characters. There is an 'Additional Connection Properties' section with a field for 'oracle.jdbc.DRCPConnectionClass'. Navigation buttons (Back, Next, Finish, Cancel) are at the bottom.

10. Enter the Database details.



11. Click 'Next'. The following window is displayed.

**ORACLE WebLogic Server Administration Console 12c**

Home > Summary of Services > Summary of JDBC Data Sources

Welcome, weblogic | Connected to: OFSLLREL\_domain

**Create a New JDBC Data Source**

Test Configuration | Back | Next | Finish | Cancel

**Test Database Connection**

Test the database availability and the connection properties you provided.

What is the full package name of JDBC driver class used to create database connections in the connection pool?  
(Note that this driver class must be in the classpath of any server to which it is deployed.)

Driver Class Name:

What is the URL of the database to connect to? The format of the URL varies by JDBC driver.

URL:

What database account user name do you want to use to create database connections?

Database User Name:

What is the database account password to use to create database connections?  
(Note: for secure password management, enter the password in the Password field instead of the Properties field below)

Password:

Confirm Password:

What are the properties to pass to the JDBC driver when creating database connections?

Properties:

12. Click 'Test Configuration'. The following window is displayed indicating a confirmation message as 'Connection test succeeded'.

**ORACLE WebLogic Server Administration Console 12c**

Home > Summary of Services > Summary of JDBC Data Sources

Welcome, weblogic | Connected to: OFSLLREL\_domain

**Create a New JDBC Data Source**

Test Configuration | Back | Next | Finish | Cancel

**Test Database Connection**

Test the database availability and the connection properties you provided.

What is the full package name of JDBC driver class used to create database connections in the connection pool?  
(Note that this driver class must be in the classpath of any server to which it is deployed.)

Driver Class Name:

What is the URL of the database to connect to? The format of the URL varies by JDBC driver.

URL:

What database account user name do you want to use to create database connections?

Database User Name:

What is the database account password to use to create database connections?  
(Note: for secure password management, enter the password in the Password field instead of the Properties field below)

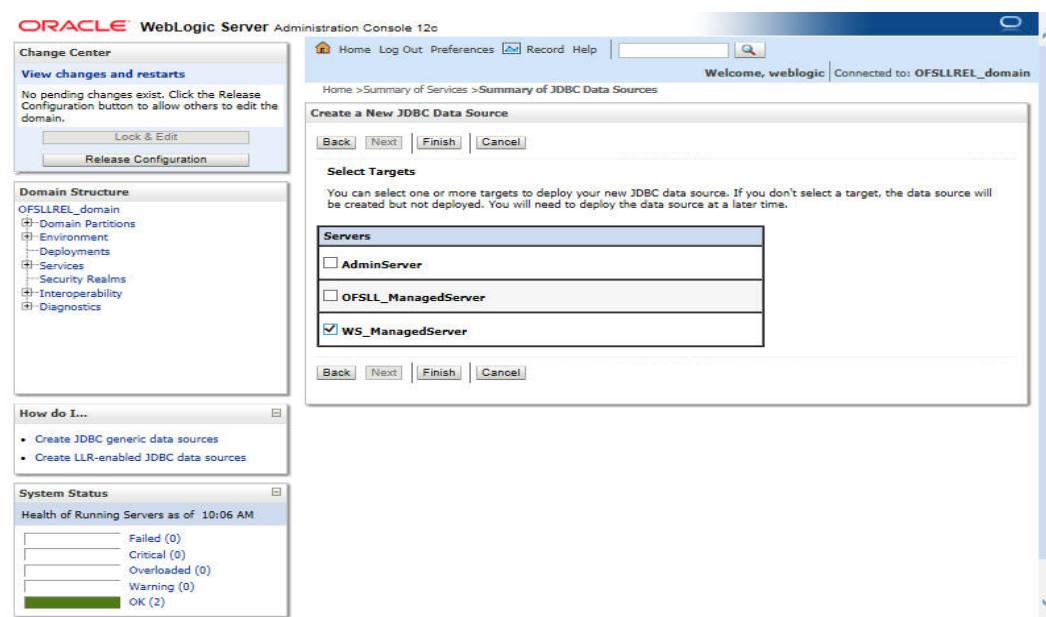
Password:

Confirm Password:

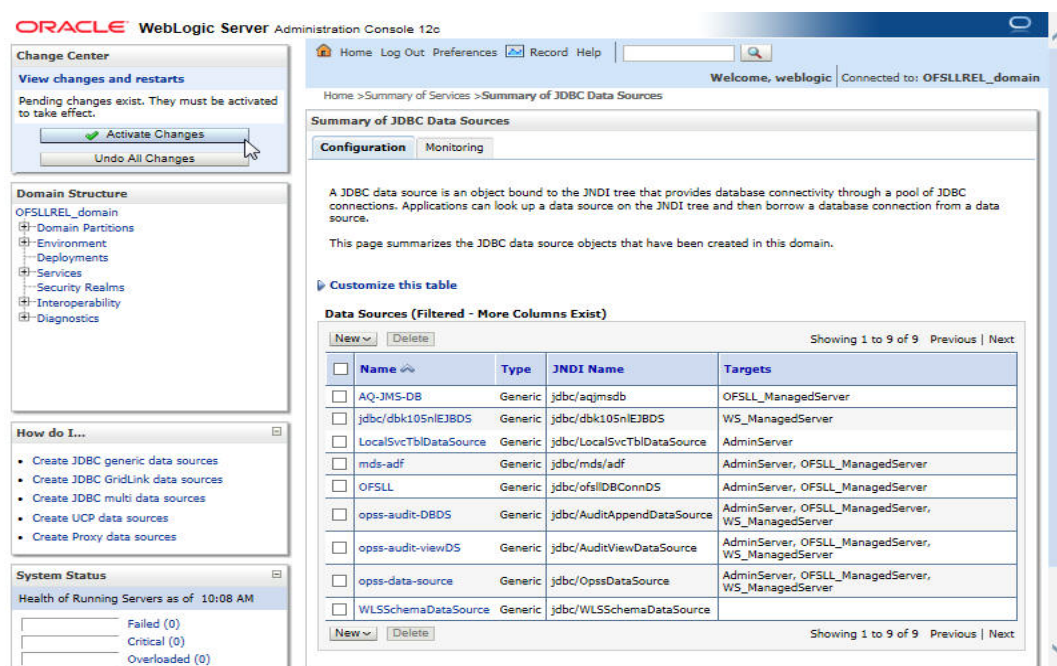
Messages

✔ Connection test succeeded.

13. Click 'Next'. The following window is displayed.



14. Select 'WS\_ManagedServer' as the target Web service Server and click 'Finish'. The following window is displayed.

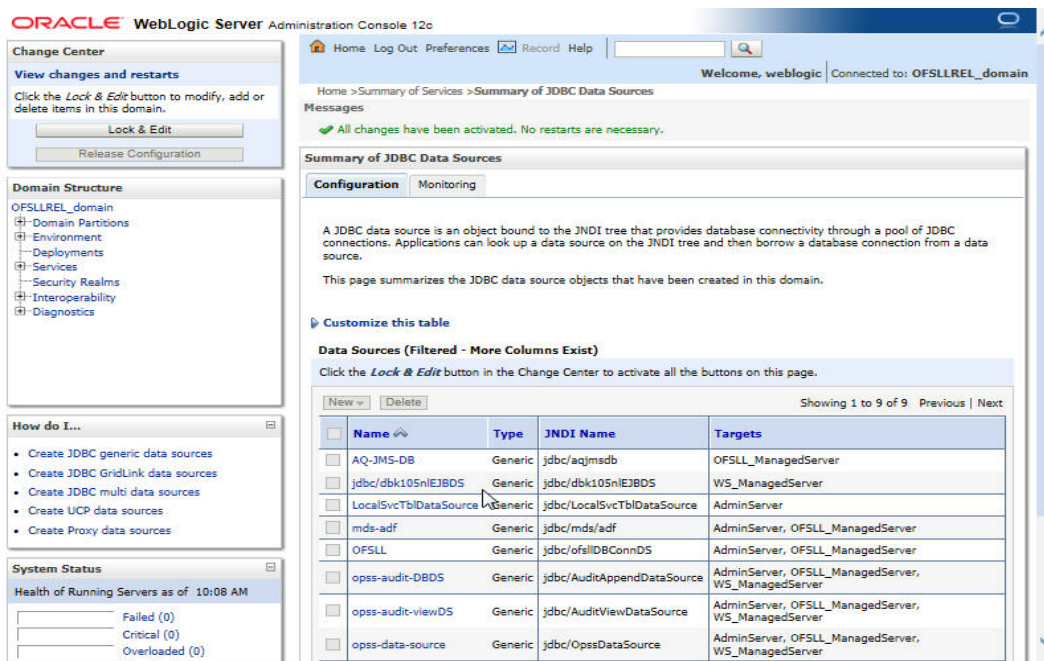


15. Click 'Activate Changes'.

Similarly follow the above steps to create the following data sources:

- jdbc/dbkwsDS

– jdbc/IN1HukWznG0b4esj



## 3.2 Working with SSL

It is not recommended to run OFSLL WebServices with the test certificates in production. You have to get:

1. Vendor public production key/certificates for SSL handshake. These have to be imported into weblogic truststore.
2. RO public production key/certificates to validate digital signature in the RO inputs. This has to be imported into dls\_cacerts keystore mentioned in the configuration file.
3. Generate production grade public/private key signed by appropriate CA. The public key has to be shared with RO so that they can validate digital signature in OFSLL requests. The corresponding private key should not be shared, should be imported into dls\_cacerts keystore mentioned in the configuration file and used to add the digital signature in RO requests.

### Additional Notes

- While testing with the test certificates, you may get error: **'Signature verification failed because RSA key public exponent [3] is too small'**.
  - As a fix, you need to add the following in the start-up script: `'Dweblogic.security.SSL.allowSmallRSAExponent=true'`
- You may encounter error: **'java.security.InvalidKeyException: Illegal key size or Cipher not initialize'**.
  - As a fix add the following in the start-up script: `'Dweblogic.security.SSL.nojce=true'`
- You may encounter error: **'java.security.InvalidAlgorithmParameterException: the trustAnchors parameter must be non-empty'**.
  - As a fix remove the `'-DUseSunHttpHandler=true'` SSL option if any from the startup script.

### 3.2.1 Steps to Import Certificates to keystore

1. The JKS(dls\_cacerts) should be available under /WEB-INF/classes/config.

2. Save all the certificates from the vendor website. Note to save the certificates in "Base-64 encoded X.509(.CER)" and with extn .cer. Steps for saving certificates from the vendor website:

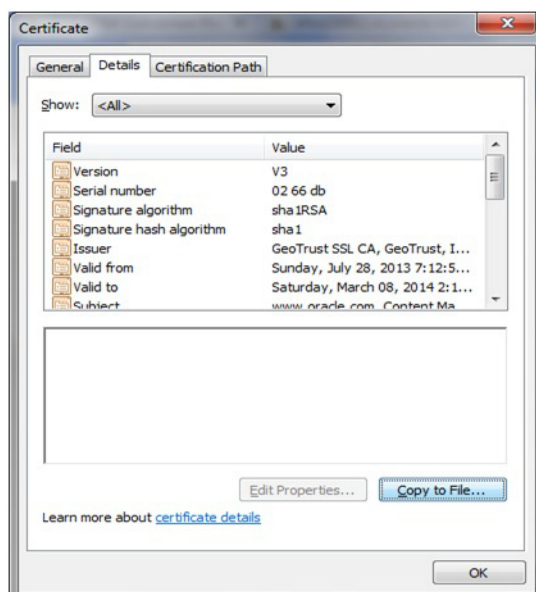
- Click on the padlock and choose 'View Certificates'.



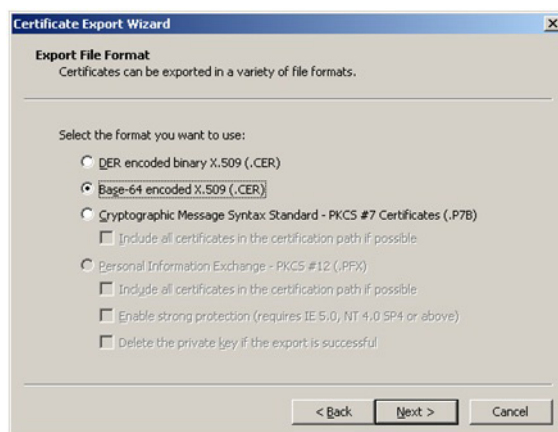
- Click on the Certification Path tab and select the certificate with the 'Name' and 'Issued To' the same as the user-defined ID.



- Go to the Details tab.



- Click on the 'Copy to File' button, and click 'Next'. Select 'Base-64 encoding' and save the file somewhere on your local computer.



3. Run following command to import certificate into JKS(dls\_cacerts)
  - "keytool -keystore <Key store Path> /dls\_cacerts -import -trustcacerts -file <Certificate location in file system>\xxx.cer -alias <alias as mentioned in config file>
4. Run following command to view details of certificate like expiration date of certificate etc.
  - "keytool -list -rfc -alias alias <alias as mentioned in config file> -keystore <Key store Path> /dls\_cacerts
  - "keytool -list -v -alias alias <alias as mentioned in config file> -keystore <Key store Path> /dls\_cacerts

For more details on keytool refer the link: <http://docs.oracle.com/javase/7/docs/technotes/tools/windows/keytool.html>

### 3.2.2 **Enable SSL Debugging**

SSL debugging can be enabled by adding the following to managed server start-up script: 'Dssl.debug=true'

### 3.2.3 **Connecting to service supporting only TLS protocol**

For WLS 12c by default (acting as a client) will send sslv2 hello for the SSL handshake to TLS service. The TLS service will not respond to SSLv2 hello and the connection will be dropped.

The fix for the problem is to set Dweblogic.security.SSL.protocolVersion=TLS1 at the Managed server level in which the WebServices have been deployed.

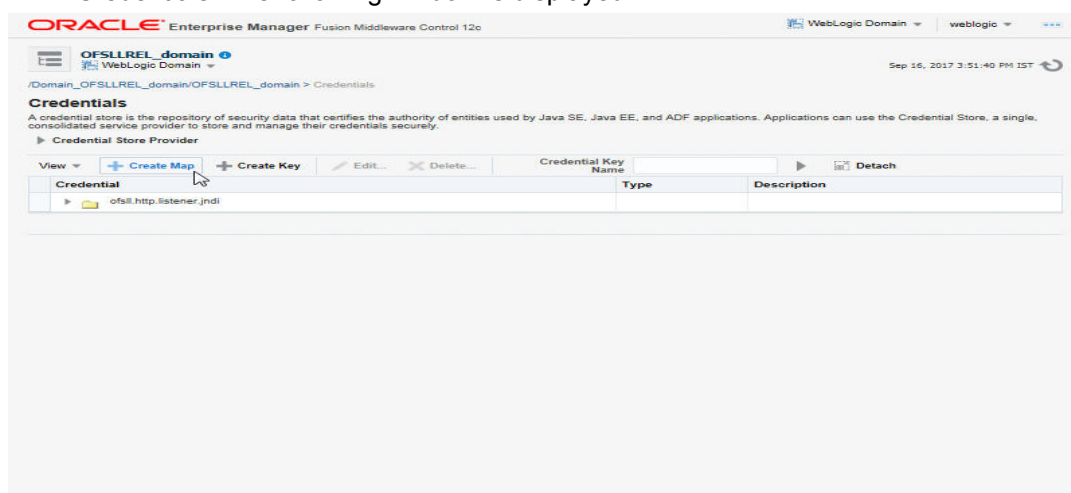
## 3.3 **Create RouteOne Credentials and System Policies**

In order Configure RouteOne, you need to create credentials and system policies.

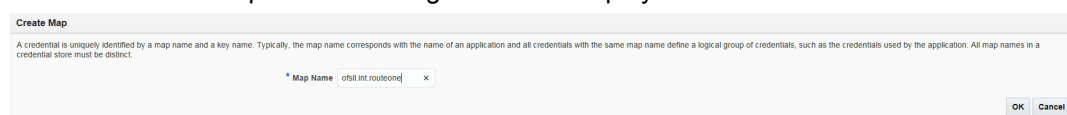
1. Login to Oracle Enterprise Manager 12c (<http://hostname:port/em>).



- On the left panel, right click on OFSLLREL\_domain and select Security > System Policies > Credentials. The following window is displayed.



- Click 'Create Map'. The following window is displayed.



- Enter Map Name as 'ofssl.int.routeone' and click 'OK'.
- Click 'Create Key'. The following window is displayed.

- Click 'OK'.

Similarly you need to create the following Maps and corresponding keys as indicated in following table.

Maps	Key Name	Username	Password	Description
------	----------	----------	----------	-------------

ofssl.int.routeone	routeone_key_store_password	keystore-Password	changeit	The keystore password
	routeone_key_alias	roKeyAlias	routeone_pub_tst	RouteOne's public key alias name. The public key is needed to verify the xml signature of the request.
	routeone_ss-cro_key_alias	sscroKeyAlias	ssc_routeone	OFSLL's private key alias name. The private key is used to sign xml response to RouteOne
	routeone_ss-cro_key_password	sscroKey-Password	demot-estSSCR1	OFSLL's private key password

You need to provide access permission for the below mapping. For details on how to set the access permission, refer to section 'Create Credentials and System Policies' in Application Installation guide.

Permission Class	Resource Name	Permission Actions
oracle.security.jps.service.cred-store.CredentialAccessPermission	context=SYSTEM,mapName=ofssl.int.routeone,keyName=*	read

## 3.4 Deploying Webservices

### 3.4.1 Deployment of WebServices in Enterprise Manager

1. Download and unzip the WebServices - ofsslxws.zip.
2. Following is a mapping of which EAR is needed for which service:

dbkls-xxws.ws.app.ear	dbkls-xxws.ws.app-dt.ear	dbkls-xxws.ws.app-ds.ear	dbkls-xxws.ws.app-ro.ear
<b>DialerIntegrator:</b> Service to integrate with third party dialer systems	<b>DT Interface:</b> To receive loan application from dealer track	<b>DS Interface:</b> To receive edocs application update	<b>RO Interface:</b> To receive loan application from route one
<b>CSSAccountDetailsRequestService:</b> Service to fetch Account Details by account number	<b>DT Interface:</b> To receive loan application/deal update from dealer track	<b>DS Interface:</b> To receive edocs comment update	<b>RO Interface:</b> To receive loan application/deal refresh from route one

<b>CSSAccount-SearchRequest-Service:</b> Service to fetch Account Details by attributes such as AccountNumber, CustomerFirst-Name, Customer-LastName, SSN	<b>DT Interface:</b> To receive comments from dealer track	<b>DS Interface:</b> To receive edocs location update	<b>RO Interface:</b> To receive comments from route one
<b>CSSPostTransactionsRequestService:</b> To post different transactions such as update address, update phone number, update ACH details, etc	<b>LOSPostStatusRequestService:</b> To post comments to dealer track		<b>LOSPostStatusRequestService:</b> To post comments to route one
<b>CSSAccountPay-OffQuoteRequest-Service:</b> To get the account payoff quote	<b>LOSPostStatusRequestService:</b> To post application status to dealer track		<b>LOSPostStatusRequestService:</b> To post application status to route one
<b>LOSEApplication-RequestService:</b> Edocs application update service	<b>ILOSPostDealerDetailsService:</b> To post dealer details to dealer track		<b>ILOSPostDealerDetailsService:</b> To post dealer details to dealer track
<b>LOSApplication-RequestService:</b> Loan application entry service			
<b>LOSApplication-SearchRequest-Service:</b> Application Search service			
<b>LOSApplication-SearchRequest-Service:</b> Application Search service			
<b>LOSApplication-CommentUpdate-Service:</b> Edocs application comment update service			



<b>LOSPostStatusRequestService:</b> Service to post loan application status			
<b>LOSAplicationUpdateService:</b> Service to update an existing application			
<b>LOSCheckStatusRequestService:</b> Service to check application status			
<b>LOSAplicationAccountWebService:</b> Service to create Account number in OFSLL			
			<b>LOSEContractService:</b> To recieve contract information from RouteOne

3. Unzip all the ear files present:
  - dbkls-xxws.ws.app.ear
  - dbkls-xxws.ws.app-dt.ear
  - dbkls-xxws.ws.app-ro.ear
  - dbkls-xxws.ws.app-ds.ear

```

-bash-4.1$ unzip ofslxws.zip -d ofslxws
Archive:  ofslxws.zip
  inflating: ofslxws/dbkls-xxws.ws.app-ds.ear
  inflating: ofslxws/dbkls-xxws.ws.app-dt.ear
  inflating: ofslxws/dbkls-xxws.ws.app-ro.ear
  inflating: ofslxws/dbkls-xxws.ws.app.ear
-bash-4.1$ cd ofslxws
-bash-4.1$ ls
dbkls-xxws.ws.app-ds.ear  dbkls-xxws.ws.app-dt.ear  dbkls-xxws.ws.app.ear  dbkls-xxws.ws.app-ro.ear
-bash-4.1$ unzip dbkls-xxws.ws.app-ds.ear -d dbkls-xxws.ws.app-ds
Archive:  dbkls-xxws.ws.app-ds.ear
  creating: dbkls-xxws.ws.app-ds/META-INF/
  inflating: dbkls-xxws.ws.app-ds/META-INF/application.xml
  inflating: dbkls-xxws.ws.app-ds/dbkls-xws-web-ds.war
-bash-4.1$ cd dbkls-xxws.ws.app-ds
-bash-4.1$ ls
dbkls-xws-web-ds.war  META-INF
-bash-4.1$ unzip dbkls-xws-web-ds.war -d dbkls-xws-web-ds
Archive:  dbkls-xws-web-ds.war
  creating: dbkls-xws-web-ds/WEB-INF/
  creating: dbkls-xws-web-ds/WEB-INF/classes/
  creating: dbkls-xws-web-ds/WEB-INF/classes/com/
  creating: dbkls-xws-web-ds/WEB-INF/classes/com/ofss/
  creating: dbkls-xws-web-ds/WEB-INF/classes/com/ofss/fll/
  creating: dbkls-xws-web-ds/WEB-INF/classes/com/ofss/fll/utills/
  creating: dbkls-xws-web-ds/WEB-INF/classes/com/ofss/fll/xws/
  creating: dbkls-xws-web-ds/WEB-INF/classes/com/ofss/fll/xws/dialerintegration/
  creating: dbkls-xws-web-ds/WEB-INF/classes/com/ofss/fll/xws/exception/
  creating: dbkls-xws-web-ds/WEB-INF/classes/com/ofss/fll/xws/lookup/
  creating: dbkls-xws-web-ds/WEB-INF/classes/com/ofss/fll/xws/xae/
  creating: dbkls-xws-web-ds/WEB-INF/classes/com/ofss/fll/xws/xcl/
  creating: dbkls-xws-web-ds/WEB-INF/classes/com/ofss/fll/xws/xcs/

```

#### 4. Open each of the unzipped files and unzip the war file.

```

-bash-4.1$ ls -lart
total 7920
-rw-r--r-- 1 orafmw oinstall 1074660 Apr 10 08:47 dbkls-xxws.ws.app.ear
-rw-r--r-- 1 orafmw oinstall 996280 Apr 10 08:47 dbkls-xxws.ws.app-dt.ear
-rw-r--r-- 1 orafmw oinstall 991947 Apr 10 08:47 dbkls-xxws.ws.app-ro.ear
-rw-r--r-- 1 orafmw oinstall 978700 Apr 10 08:47 dbkls-xxws.ws.app-ds.ear
-rw-r----- 1 orafmw oinstall 4032431 Apr 10 15:09 ofslxws.zip
drwxr----- 8 orafmw oinstall 4096 Apr 10 15:09 ..
drwxr-xr-x 3 orafmw oinstall 4096 Apr 10 16:26 dbkls-xxws.ws.app-ds
drwxr-xr-x 3 orafmw oinstall 4096 Apr 10 16:26 dbkls-xxws.ws.app-dt
drwxr-xr-x 3 orafmw oinstall 4096 Apr 10 16:26 dbkls-xxws.ws.app-ro
drwxr----- 6 orafmw oinstall 4096 Apr 10 16:26 .
drwxr-xr-x 3 orafmw oinstall 4096 Apr 10 16:26 dbkls-xxws.ws.app
-bash-4.1$ cd dbkls-xxws.ws.app
-bash-4.1$ ls
dbkls-xws-web.war  META-INF
-bash-4.1$ unzip dbkls-xws-web.war
Archive:  dbkls-xws-web.war
  creating: WEB-INF/
  creating: WEB-INF/classes/
  creating: WEB-INF/classes/com/
  creating: WEB-INF/classes/com/ofss/
  creating: WEB-INF/classes/com/ofss/fll/
  creating: WEB-INF/classes/com/ofss/fll/utills/
  creating: WEB-INF/classes/com/ofss/fll/xws/
  creating: WEB-INF/classes/com/ofss/fll/xws/dialerintegration/
  creating: WEB-INF/classes/com/ofss/fll/xws/exception/
  creating: WEB-INF/classes/com/ofss/fll/xws/lookup/

```

#### 5. It creates a WEB-INF file

```

-bash-4.1$ ls
dbkls-xws-web.war  META-INF  WEB-INF

```

After unzipping the war file to directory, the directory will have the following structure

- dbkls-xxws.ws.app / dbkls-xxws.ws.app-ds / dbkls-xxws.ws.app-dt / dbklsxxws.ws.app-ro
- /dbkls-xxws.ws.app/dbkls-xws-web

WEB-INF (directory)

---->classes (directory)

- config

- class files (in package folders)

-----> lib (directory)

- jdom-2.0.6.jar

- OfsslCommonCSF.jar

- soap-2.3.1.jar

-----> wsdl (directory)

- \*.wsdl

-----> \*-java-wsdl-mapping.xml

-----> web.xml

-----> weblogic.xml

-----> weblogic-webservices.xml

-----> weblogic-webservices-policy.xml

-----> webservices.xml

6. To edit the web interface config files, navigate to the above WEB-INF > classes > config. Edit the following configuration files with the application url and port.

For complete details on configuration parameters, refer to [“Appendix - Configuration parameters”](#) section in Appendix chapter.

- ds\_servlet\_init.conf- This is the configuration file only for edocs servlet interface

```
#### XML schema to use when validating incoming application update
#### (comments) messages

#### URL for OFSSL eDocs web service

LOSeApplicationRequestServiceURL = http://<localhost>:<port>/dbkls-xws-app-ds/LOSeApplicationRequestService
LOSeApplicationCommentUpdateServiceURL = http://<localhost>:<port>/dbkls-xws-app-ds/LOSeApplicationCommentUpdateService
LOSeApplicationLocationUpdateServiceURL = http://<localhost>:<port>/dbkls-xws-app-ds/LOSeApplicationLocationUpdateService
#### URL for OFSSL application update web service
```

- dt\_servlet\_init.conf- This is the configuration file only for dealer track servlet interface

```
#### URL for OFSSL new application web service

LOSeApplicationRequestServiceURL = http://<localhost>:<port>/dbkls-xws-app-dt/LOSeApplicationRequestService

#### URL for OFSSL application update web service

LOSeApplicationUpdateServiceURL = http://<localhost>:<port>/dbkls-xws-app-dt/LOSeApplicationUpdateService
```

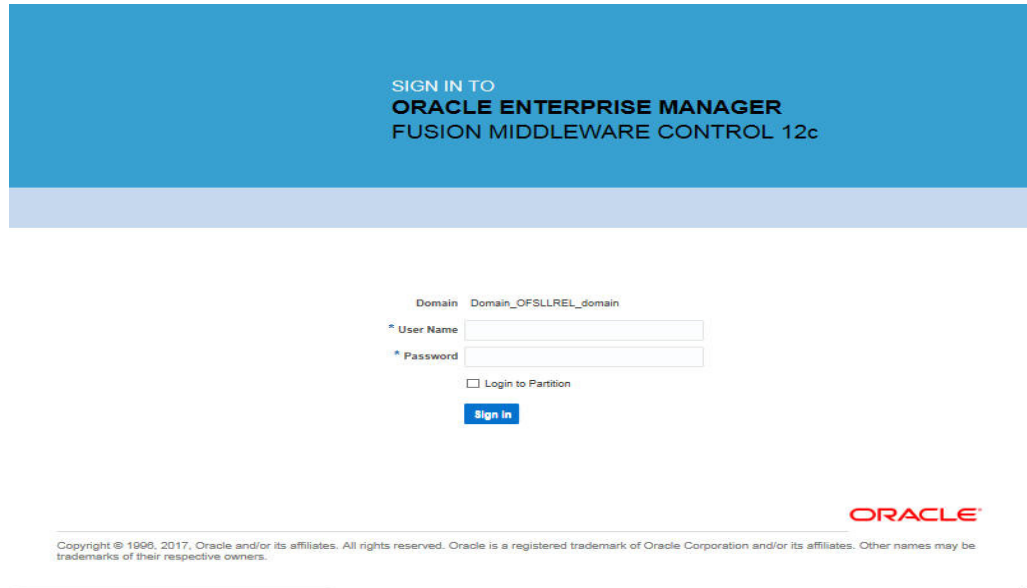
- ro\_servlet\_init.conf- This is the configuration file only for route one servlet interface

```
#### URL for OFSLL new application web service
LOSApplicationRequestServiceURL = http://<localhost>:<port>/dbkls-xws-app-ro/LOSApplicationRequestService

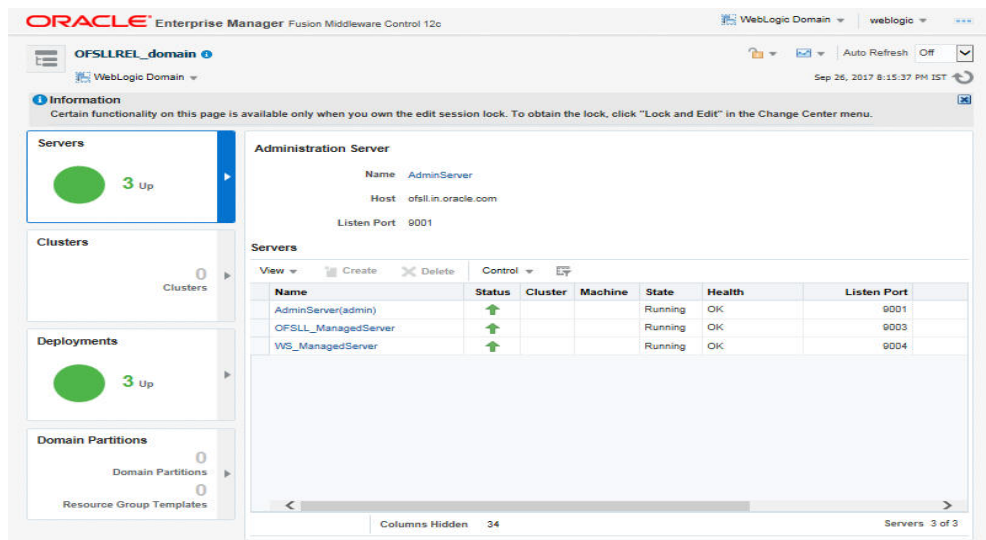
#### URL for OFSLL application update web service
LOSApplicationUpdateServiceURL = http://<localhost>:<port>/dbkls-xws-app-ro/LOSApplicationUpdateService

#### URL for OFSLL e contract web service
LOSeContractWebServiceServiceURL = http://<localhost>:<port>/dbkls-xws-app-ro/LOSeContractService
```

7. Login to Web Logic application server enterprise manager (e.g.: <http://hostname:port/em>)

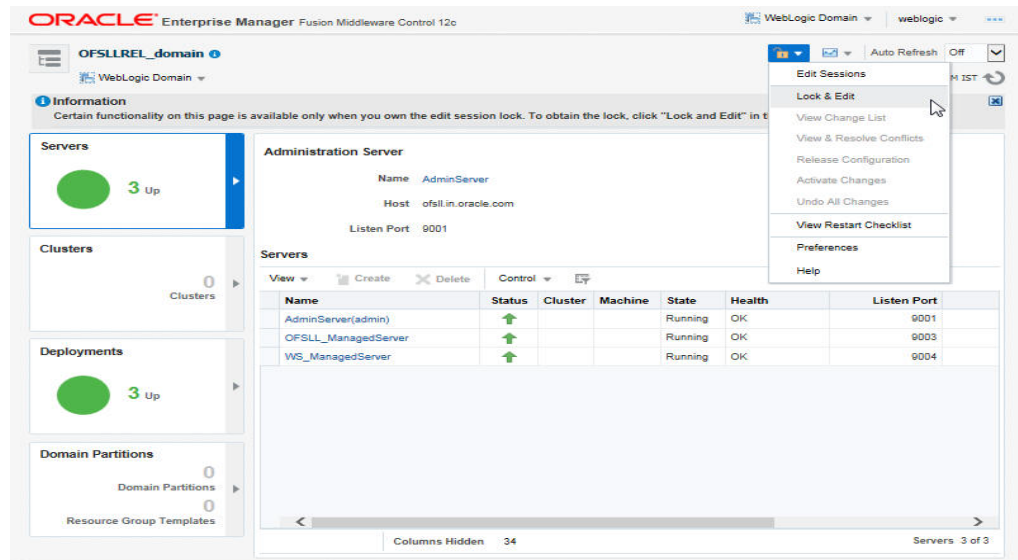


8. Enter valid login credentials. The following window is displayed.

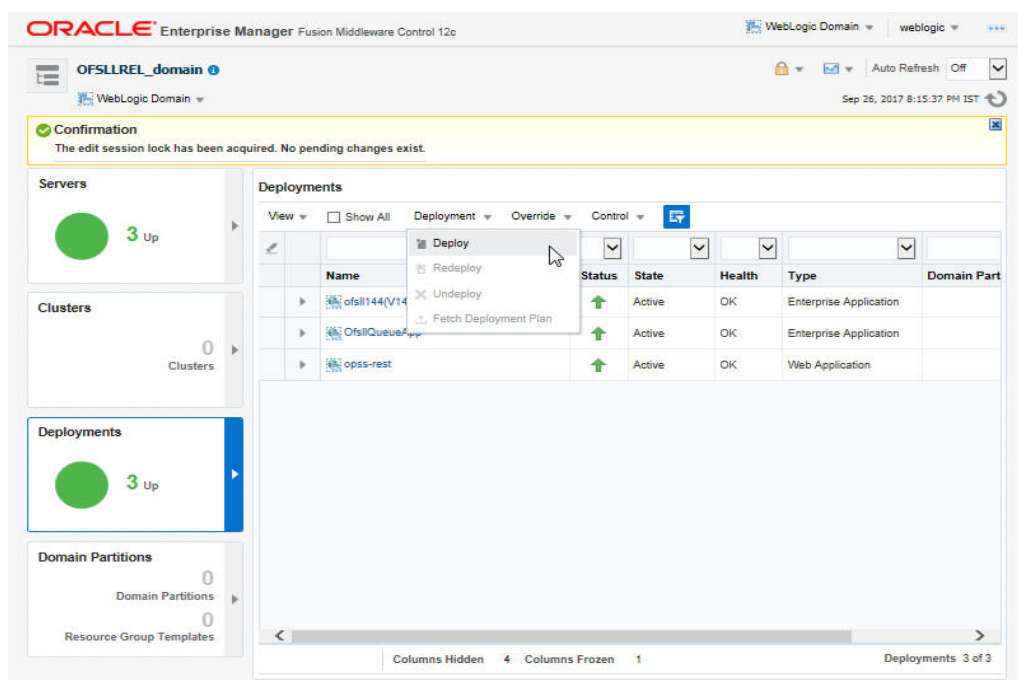


Name	Status	Cluster	Machine	State	Health	Listen Port
AdminServer(admin)	↑			Running	OK	9001
OFSLL_ManagedServer	↑			Running	OK	9003
WS_ManagedServer	↑			Running	OK	9004

9. Expand the weblogic domain present in the left pane. The following window is displayed.



10. Right click on 'WS\_ManagedServer' in left panel, select Application Deployment > Deploy.



11. The following window is displayed.

ORACLE® Enterprise Manager Fusion Middleware Control 12c

OFSSLREL\_domain

Select Archive Select Target Application Attributes Deployment Settings

Deploy Java EE Application: Select Archive Back Step 1 of 4 Next Cancel

**Scope**  
Select a scope that you want to deploy this application to: Global

**Archive or Exploded Directory**  
Java EE archives, Web Modules (WAR files), EJB Modules (EJB JAR files), Resource Adapter Modules (RAR files), Coherence Archives (GAR files), JDBC Modules, JMS Modules, and library files (Jar files) can be deployed. You can also deploy an exploded archive that is present on the server where Enterprise Manager is running.

☐ Archive is on the machine where this Web browser is running.  
Choose file No file chosen

☒ Archive or exploded directory is on the server where Enterprise Manager is running.  
Browse...

**Deployment Plan**  
The deployment plan is a file that contains the deployment settings for an application. You can use a previously saved deployment plan for this application. Later in the deployment process, you can optionally edit the deployment plan and save it for a future deployment of this application. If you do not have a deployment plan, one will be created automatically during the deployment process when deployment configuration is done. The deployment plan is not applicable when you deploy a library.

☒ Create a new deployment plan when deployment configuration is done.

☐ Deployment plan is on the machine where this Web browser is running.  
Choose file No file chosen

☐ Deployment plan is on the server where Enterprise Manager is running.

**Information**  
Use this page to deploy Java applications that require Oracle Metadata Services (MDS) or take advantage of the Oracle Application Development Framework (Oracle ADF).  
If your application is a SOA composite, use the SOA Composite deployment wizard.  
If your application is not a SC composite or it does not require MDS repository or ADF connections, then you can deploy your application using this wizard or the Oracle WebLogic Server Administration Console.

12. Browse to the folder containing the WebService.

Eg: /ws-as/ofsslxws/dbkls-xxws.ws.app

Click 'Next'.

ORACLE® Enterprise Manager Fusion Middleware Control 12c

OFSSLREL\_domain

Select Archive Select Target Application Attributes Deployment Settings

Deploy Java EE Application: Select Archive Back Step 1 of 4 Next Cancel

**Scope**  
Select a scope that you want to deploy this application to: Global

**Archive or Exploded Directory**  
Java EE archives, Web Modules (WAR files), EJB Modules (EJB JAR files), Resource Adapter Modules (RAR files), Coherence Archives (GAR files), JDBC Modules, JMS Modules, and library files (Jar files) can be deployed. You can also deploy an exploded archive that is present on the server where Enterprise Manager is running.

☐ Archive is on the machine where this Web browser is running.  
Choose file No file chosen

☒ Archive or exploded directory is on the server where Enterprise Manager is running.  
/ws-as/ofsslxws/dbkls-xxws.ws.app.rar Browse...

**Deployment Plan**  
The deployment plan is a file that contains the deployment settings for an application. You can use a previously saved deployment plan for this application. Later in the deployment process, you can optionally edit the deployment plan and save it for a future deployment of this application. If you do not have a deployment plan, one will be created automatically during the deployment process when deployment configuration is done. The deployment plan is not applicable when you deploy a library.

☒ Create a new deployment plan when deployment configuration is done.

☐ Deployment plan is on the machine where this Web browser is running.  
Choose file No file chosen

☐ Deployment plan is on the server where Enterprise Manager is running.

**Information**  
Use this page to deploy Java applications that require Oracle Metadata Services (MDS) or take advantage of the Oracle Application Development Framework (Oracle ADF).  
If your application is a SOA composite, use the SOA Composite deployment wizard.  
If your application is not a SC composite or it does not require MDS repository or ADF connections, then you can deploy your application using this wizard or the Oracle WebLogic Server Administration Console.



13. The following window is displayed. Select the server on which the WebService needs to be deployed. Click 'Next'.

Oracle Enterprise Manager Fusion Middleware Control 12c

OFSLRLREL\_domain

Select Archive | Select Target | Application Attributes | Deployment Settings

Deploy Java EE Application: Select Target

Back Step 2 of 4 Next Cancel

Select the WebLogic server or cluster that you want this application to be deployed to.

Select	Name	Type	Deployed Applications
<input type="checkbox"/>	AdminServer	Oracle WebLogic Server	000
<input type="checkbox"/>	OFSLRL_ManagedServer	Oracle WebLogic Server	000
<input checked="" type="checkbox"/>	WS_ManagedServer	Oracle WebLogic Server	000

14. The following window is displayed. Check the context root and select the Distribution option as 'Install and start application (servicing all requests)'. Click 'Next'.

Oracle Enterprise Manager Fusion Middleware Control 12c

OFSLRLREL\_domain

Select Archive | Select Target | Application Attributes | Deployment Settings

Deploy Java EE Application: Application Attributes

Back Step 3 of 4 Next Deploy Cancel

Hide Deployment Summary

Archive Type: Java EE Application (EAR file)

Deployment Plan: Create a new plan

Deployment Target: WS\_ManagedServer

Scope: Global

Deployment Type: Application

\* Application Name: dbkls-covs.ws.app

Context Root of Web Modules

Context root of Web module specified in Document Type Definition (DTD) based application.xml cannot be configured in Enterprise Manager. Enterprise Manager supports schema based application.xml only.

Web Module	Context Root
dbkls-covs-web.war	dbkls-covs-app

Distribution

☒ Install and start application (servicing all requests)

☐ Install and start application in administration mode (servicing only administration requests)

☐ Install only, Do not start.

Other Options

15. The following window is displayed. Click 'Deploy'.

Oracle Enterprise Manager Fusion Middleware Control 12c

OFSLRLREL\_domain

Select Archive | Select Target | Application Attributes | Deployment Settings

Deploy Java EE Application: Deployment Settings

Back Step 4 of 4 Next Deploy Cancel

Hide Deployment Summary

Archive Type: Java EE Application (EAR file)

Deployment Plan: Create a new plan

Deployment Target: WS\_ManagedServer

Scope: Global

Deployment Type: Application

Application Name: dbkls-covs.ws.app

Version: Not versioned

Context Root: dbkls-covs-app

Deployment Mode: Install and start application (servicing all requests)

Deployment Tasks

The table below lists common tasks that you may wish to do before deploying the application.

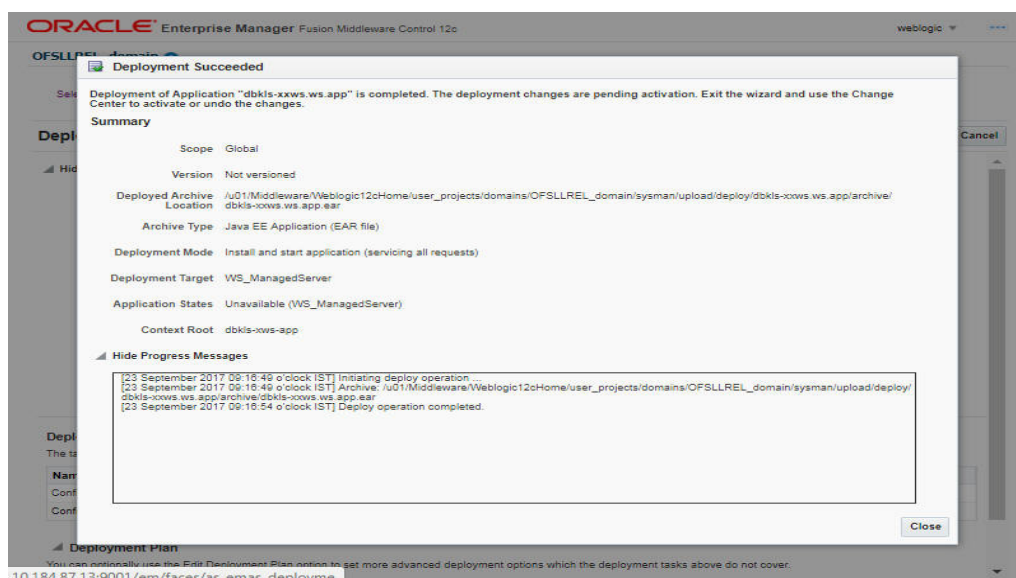
Name	Go To Task	Description
Configure Web Modules		Configure the Web modules in your application.
Configure Application Security		Configure application policy migration, credential migration and other security behavior.

Deployment Plan

You can optionally use the Edit Deployment Plan option to set more advanced deployment options which the deployment tasks above do not cover.

Edit Deployment Plan

16. The following window is displayed. Click 'Close'.



17. If required, similarly deploy rest of the WebServices.

18. In case the context root has to be changed for the WebServices, it can be changed by editing the application.xml or through the console. To change through console, login to WebLogic Server 12c console (<http://hostname:port/console>).

19. Go to Deployments > <select the service deployment> > Configuration General and modify the context root to the recommended name as follows:

Service	Service EAR	Recommended Context	Remark
Webservices	dbkls-xxws.ws.app.ear	dbkls-xws-app	If this the recommended context name is not used, then the Service URLs in the configuration files needs to be changed
Edocs Interface	dbkls-xxws.ws.app-ds.ear	dbkls-xws-app-ds	If this the recommended context name is not used, then the Service URLs in the configuration files needs to be changed
Dealer Track Interface	dbkls-xxws.ws.app-ds.ear	dbkls-xws-app-dt	If this the recommended context name is not used, then the Service URLs in the configuration files needs to be changed
Route One Interface	dbkls-xxws.ws.app-ro.ear	dbkls-xws-app-ro	If this the recommended context name is not used, then the Service URLs in the configuration files needs to be changed

20. Ensure that the application status is 'Active'.

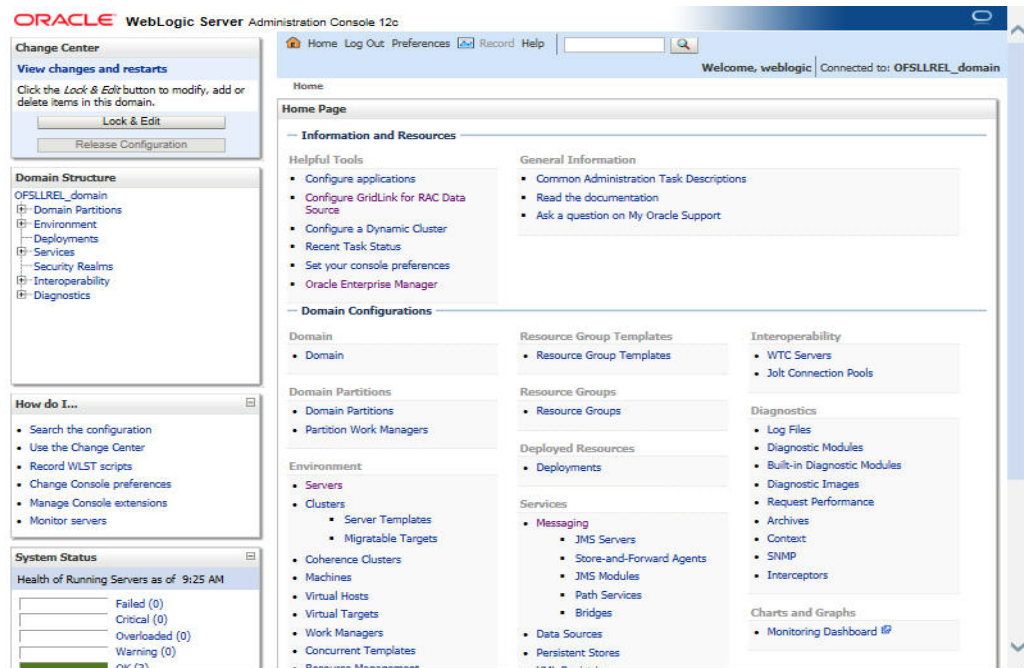


## 4. Configuring Weblogic Policy on WebServices

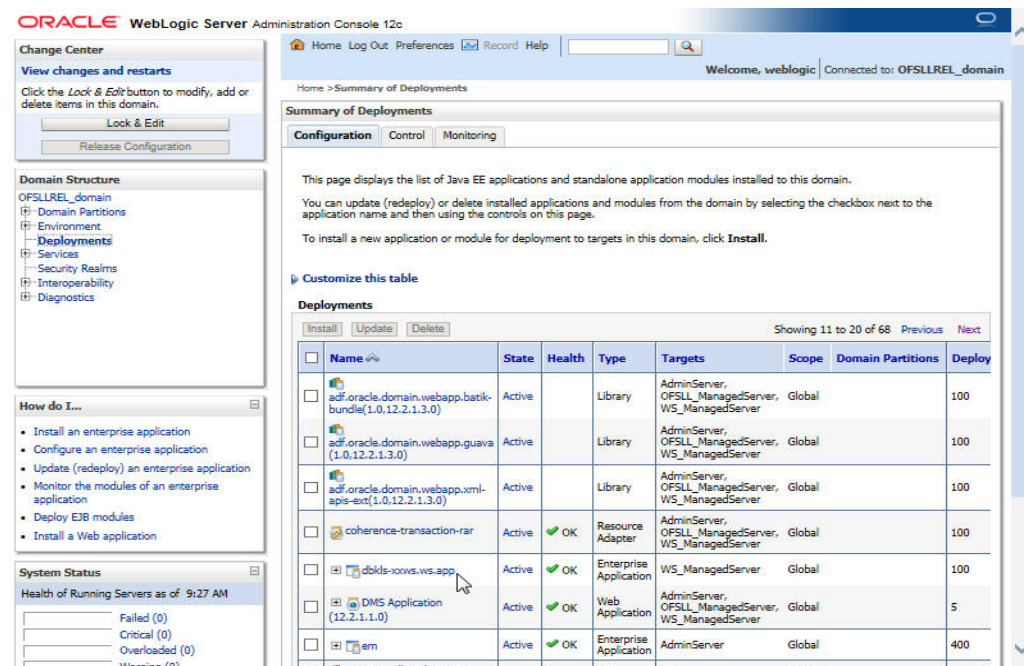
After deploying WebServices, you must configure Weblogic Policy on WebServices.

### To configure Weblogic Policy on WebServices

1. Login to WebLogic application server console (<http://hostname:port/console>). The following window is displayed.



2. Click 'Deployments' which is available on both side panels as marked above. The following window is displayed.



- Click on application name dbkls-xws-app on right side panel. The following window is displayed.

The screenshot shows the Oracle WebLogic Server Administration Console. The left sidebar contains the 'Change Center' with a 'View changes and restarts' section, a 'Domain Structure' tree, and a 'System Status' section. The main content area displays the 'Settings for dbkls-xws.ws-app' page. The 'Overview' tab is selected, showing a table of configuration properties for the application.

Property	Value	Description
Name	dbkls-xws.ws-app	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.
Path	/u01/Middleware/Weblogic12cHome/user_projects/domains/OFSSLREL_domain/sysman/upload/ deploy/ dbkls-xws.ws.app/archive/ dbkls-xws.ws.app.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.

- Scroll down the page.

The screenshot shows a list of Web Services in the Oracle WebLogic Server Administration Console. The list is displayed in a table format with a search bar at the top. The services listed are:

Service Name	Type
CSAccountDetailsRequestService	Web Service
CSAccountPayOffQuoteRequestService	Web Service
CSAccountSearchRequestService	Web Service
CSPostTransactionsRequestService	Web Service
DialerIntegrator	Web Service
ILOSPostDealerDetailsService	Web Service
LookUpRequestService	Web Service
LOSAApplicationAccountWebService	Web Service
LOSAApplicationCommentUpdateService	Web Service
LOSAApplicationLocationUpdateService	Web Service
LOSAApplicationRequestService	Web Service
LOSAApplicationSearchRequestService	Web Service
LOSAApplicationUpdateService	Web Service
LOSCalculatorsWebService	Web Service
LOSCheckStatusRequestService	Web Service
LOSEApplicationRequestService	Web Service
LOSEContractService	Web Service
LOSPostAccountUpdateService	Web Service
LOSPostStatusRequestService	Web Service

Showing 1 to 1 of 1 Previous Next

- Click 'WebServices CSSAccountSearchRequestService'. The following window is displayed.

The screenshot shows the Oracle WebLogic Server Administration Console. The left sidebar contains the 'Change Center' with 'View changes and restarts' and 'Lock & Edit' buttons, the 'Domain Structure' tree, 'How do I...' links, and 'System Status'. The main content area shows the 'Settings for CSSAccountSearchRequestService' with tabs for Overview, Configuration, Security, Testing, and Monitoring. The 'Overview' tab is active, displaying a description of a Web service and a table with configuration details.

Property	Value	Description
Deployment Name:	dbks-xvws.ws.app	Name of the Web service as it appears in the Deployments table. <a href="#">More Info...</a>
Module Name:	dbks-xvws-web.war	Name of the Web service archive file, either a WAR file or EJB JAR file depending on the Web service features it implements. <a href="#">More Info...</a>
Service Name:	CSSAccountSearchRequestService	Name of this Web service. This name appears in the WSDL file that defines the public contract of this Web service. <a href="#">More Info...</a>

- Select 'Testing' tab and click '?WSDL' link in Test Point column adjacent to the service name in the table.

The screenshot shows the Oracle WebLogic Server Administration Console with the 'Testing' tab selected. It displays a table of 'Deployment Tests' for the 'CSSAccountSearchRequestService'.

Name	Test Point	Comments
[-] CSSAccountSearchRequestService		Test points for this WebService module.
/dbks-xvws-app/CSSAccountSearchRequestService	?WSDL	WSDL page on server WS_ManagedServer

7. The following window is displayed. The WSDL will be accessible on http before applying WS-Policy.

```
<?xml version="1.0" encoding="UTF-8"?>
<WLSG3N0:definitions xmlns:WLSG3N3="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:WLSG3N2="http://com/ofss/fl/xws/xcs/AccountSearch.wsdl"
xmlns:WLSG3N1="http://www.w3.org/2001/XMLSchema" xmlns:WLSG3N0="http://schemas.xmlsoap.org/wsdl/"
xmlns="" targetNamespace="http://com/ofss/fl/xws/xcs/AccountSearch.wsdl"
name="CSSAccountSearchRequestService">
  <WLSG3N0:types>
    <xsd:schema xmlns="http://www.w3.org/2001/XMLSchema"
targetNamespace="http://com.ofss.fl.xws.xcs/ICSSAccountSearchRequestService.xsd"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://com/ofss/fl/xws/xcs/AccountSearch.wsdl"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:ns1="http://com.ofss.fl.xws.xcs/ICSSAccountSearchRequestService.xsd" xmlns:SOAP-
ENC="http://schemas.xmlsoap.org/soap/encoding/" />
  </WLSG3N0:types>
  <WLSG3N0:message name="doAccountSearchStr0Request">
    <WLSG3N0:part name="requestStr" type="WLSG3N1:string"/>
  </WLSG3N0:message>
  <WLSG3N0:message name="doAccountSearchStr0Response">
    <WLSG3N0:part name="return" type="WLSG3N1:string"/>
  </WLSG3N0:message>
  <WLSG3N0:portType name="AccountSearchRequestService">
    <WLSG3N0:operation name="doAccountSearch">
      <WLSG3N0:input name="doAccountSearchStr0Request">
        message="WLSG3N2:doAccountSearchStr0Request"/>
      <WLSG3N0:output name="doAccountSearchStr0Response">
        message="WLSG3N2:doAccountSearchStr0Response"/>
      </WLSG3N0:operation>
    </WLSG3N0:portType>
  <WLSG3N0:binding name="CSSAccountSearchRequestService" type="WLSG3N2:AccountSearchRequestService">
    <WLSG3N3:binding transport="http://schemas.xmlsoap.org/soap/http" style="rpc"/>
    <WLSG3N0:operation name="doAccountSearch">
      <WLSG3N3:operation style="rpc"/>
      <WLSG3N3:input name="doAccountSearchStr0Request">
        <WLSG3N3:body use="literal" namespace="CSSAccountSearchRequestService"/>
      </WLSG3N3:input>
      <WLSG3N3:output name="doAccountSearchStr0Response">
        <WLSG3N3:body use="literal" namespace="CSSAccountSearchRequestService"/>
      </WLSG3N3:output>
    </WLSG3N0:operation>
  </WLSG3N0:binding>
</WLSG3N0:service name="CSSAccountSearchRequestService">
```

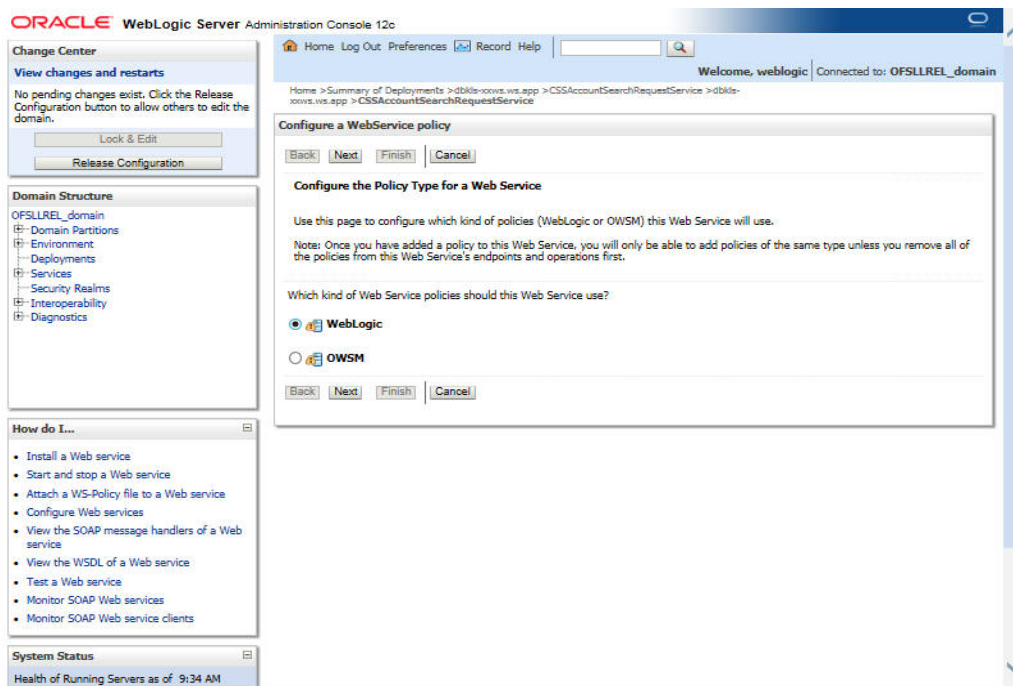
8. Navigate to Configuration > WS-Policy tab.

The screenshot shows the Oracle WebLogic Server Administration Console. The left sidebar contains navigation links like 'Change Center', 'Domain Structure', and 'How do I...'. The main content area is titled 'Settings for CSSAccountSearchRequestService' and has tabs for 'Overview', 'Configuration', 'Security', 'Testing', and 'Monitoring'. The 'Configuration' tab is active, and the 'WS-Policy' sub-tab is selected. Below the tabs, there is a table titled 'Service Endpoints and Operations' with a column for 'Policies'. The table lists 'CSSAccountSearchRequestService' and shows that it has one policy attached. The console also displays a 'System Status' section at the bottom left.

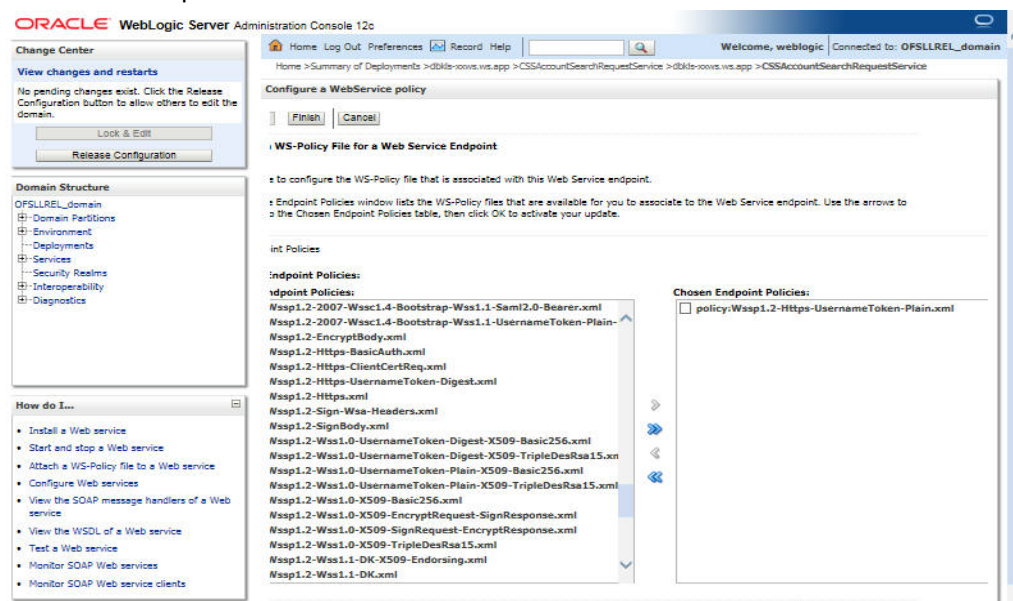
9. Click 'CSSAccountSearchRequestService'.



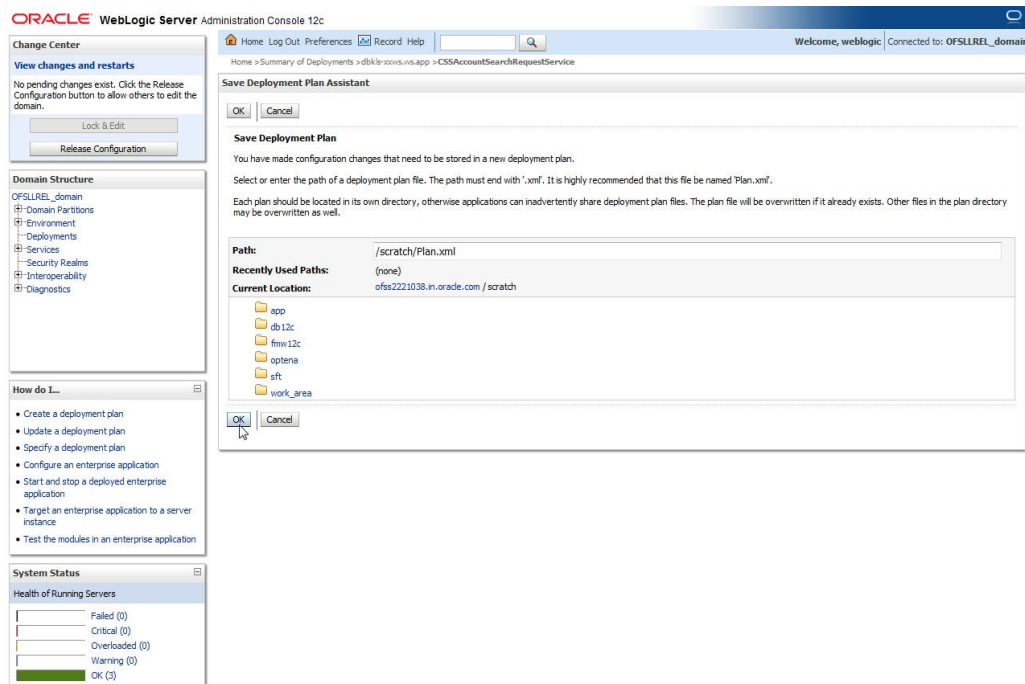
10. In the below window, select 'WebLogic' and click 'Next'.



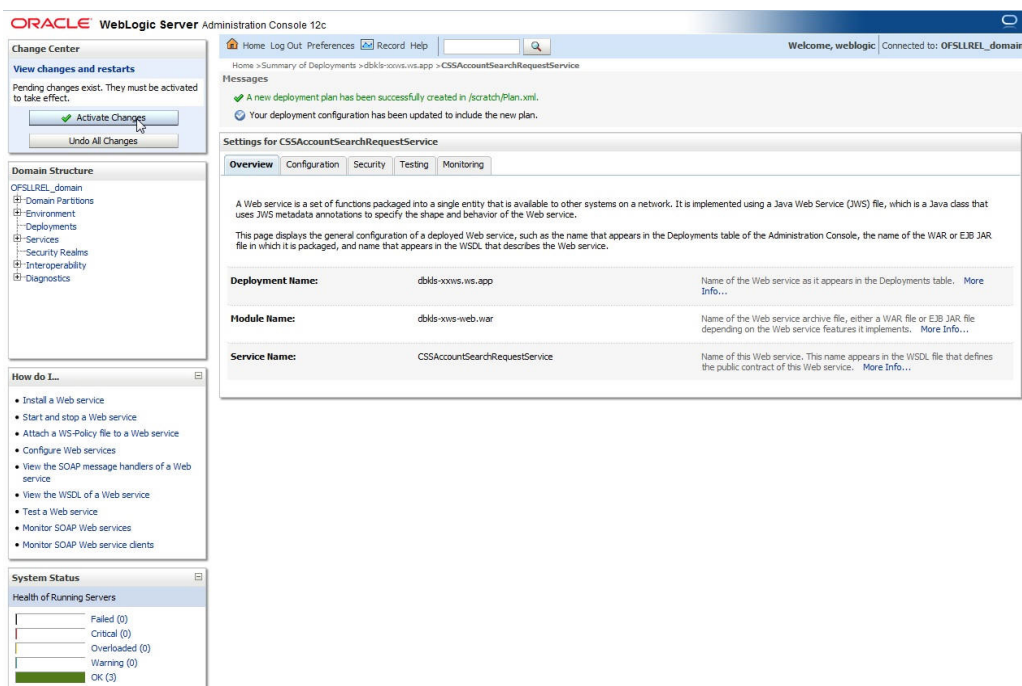
11. Select 'policy:Wssp1.2-Https-UsernameToken-Plain.xml' and click right arrow to move it to the selected policies list.



12. Click 'OK'.



13. Browse to any folder to save Deployment Plan and click 'OK'.



14. Now you will be not able to access the WSDL on http port. Following message will be shown when you access with http URL.

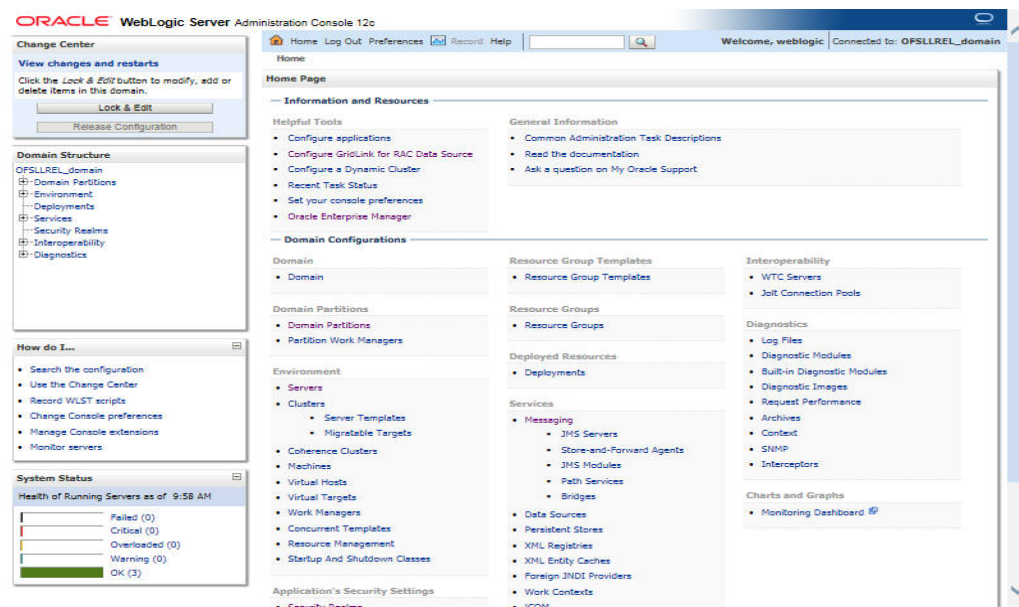
This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<env:Envelope>
  <env:Header>
  <env:Body>
    <env:Fault>
      <faultcode>env:Client.Access</faultcode>
      <faultstring>SSL Required!</faultstring>
    </env:Fault>
  </env:Body>
</env:Envelope>
```

## Note

For SSL communication, the vendor servers seek public certificates. Hence, you need to download the certificates from vendor website and import into your java keystore. You then need to configure Weblogic to present the certificates to vendor servers for successful handshake.

15. Select the environment on the left pane. The following window is displayed.



16. Click 'Servers'.

**ORACLE WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: OFSLLREL\_domain

Home > Summary of Environment > Summary of Servers

**Summary of Servers**

Configuration Control

A server is an instance of WebLogic Server that runs in its own Java Virtual Machine (JVM) and has its own configuration. This page summarizes each server that has been configured in the current WebLogic Server domain.

Customize this table

Servers (Filtered - More Columns Exist)

Click the **Lock & Edit** button in the Change Center to activate all the buttons on this page.

New Clone Delete

Showing 1 to 3 of 3 Previous Next

Name	Type	Cluster	Machine	State	Health	Listen Port
AdminServer(admin)	Configured			RUNNING	OK	9001
OFSLL_ManagedServer	Configured			RUNNING	OK	9003
WS_ManagedServer	Configured			RUNNING	OK	9004

New Clone Delete

Showing 1 to 3 of 3 Previous Next

17. Select the Server into which the WebServices are deployed.

**ORACLE WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: OFSLLREL\_domain

Home > Summary of Environment > Summary of Servers > WS\_ManagedServer

**Settings for WS\_ManagedServer**

Configuration Protocols Logging Debug Monitoring Control Deployments Services Security Notes

General Cluster Services **Keystores** SSL Federation Services Deployment Migration Tuning Overload

Concurrency Health Monitoring Server Start Web Services Coherence

Click the **Lock & Edit** button in the Change Center to modify the settings on this page.

Save

Keystores ensure the secure storage and management of private keys and trusted certificate authorities (CAs). This page lets you view and define various keystore configurations. These settings help you to manage the security of message transmissions.

Keystores: Demo Identity and Demo Trust **Change**

Which configuration rules should be used for finding the server's identity and trust keystores? [More Info...](#)

**Identity**

**Demo Identity Keystore:** kssi://system/demoidentity The location of the demo identity keystore. [More Info...](#)

**Demo Identity Keystore Type:** kss The type of the demo identity keystore. Generally, this is JKS or KSS. [More Info...](#)

**Demo Identity Keystore Passphrase:** ..... The demo identity keystore's encrypted passphrase. This is read-only and changes will not be applied. [More Info...](#)

**Trust**

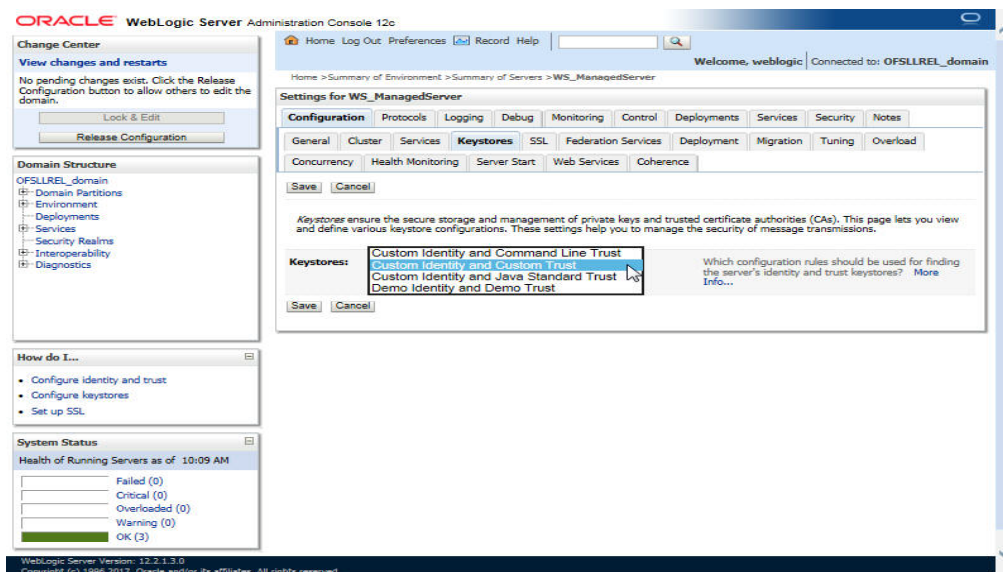
**Demo Trust Keystore:** kssi://system/trust The location of the demo trust keystore. [More Info...](#)

**Demo Trust Keystore Type:** kss The type of the demo trust keystore. Generally, this is JKS or KSS. [More Info...](#)

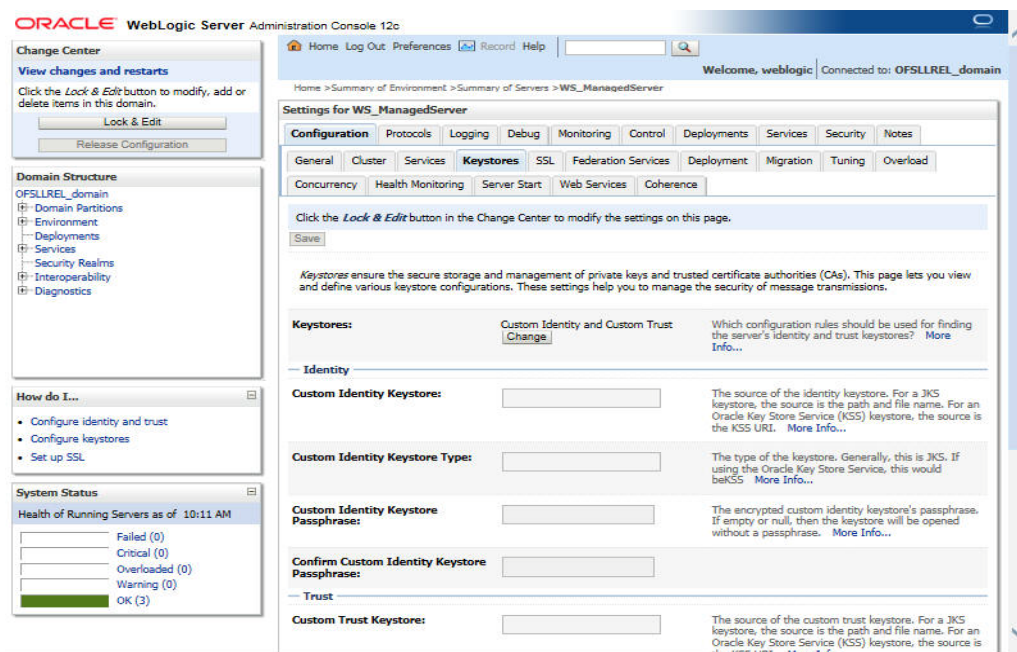
**Demo Trust Keystore Passphrase:** The demo trust keystore's encrypted passphrase. This is read-only and changes will not be applied. [More Info...](#)



## 18. Select 'Keystores'.



## 19. Click 'Change' and select 'Custom Identity and Custom trust' from the drop-down list.



## Specify

- Custom Identity Keystore: **Java keystore holding the certificates**
- Custom Trust Keystore: **Java keystore holding the certificates**
- Custom Identity Keystore Type: **jks**
- Custom Trust Keystore Type: **jks**
- %Keystore Passphrases: keystore password

20. Click **Save**. The WSDL can be accessed on https port as below. The WS-Policy will be shown in WSDL.

```
<?xml version="1.0" encoding="UTF-8"?>
- <WLSG3N0:definitions xmlns:WLSG3N3="http://schemas.xmlsoap.org/wsdl/soap/"
  xmlns:WLSG3N2="http://com/ofss/fin/xws/xcs/AccountSearch.wsdl"
  xmlns:WLSG3N1="http://www.w3.org/2001/XMLSchema" xmlns:WLSG3N0="http://schemas.xmlsoap.org/wsdl/"
  xmlns="" targetNamespace="http://com/ofss/fin/xws/xcs/AccountSearch.wsdl"
  name="CSSAccountSearchRequestService">
  - <WLSG3N0:types>
    <xsd:schema xmlns="http://www.w3.org/2001/XMLSchema"
      targetNamespace="http://com.ofss.fin.xws.xcs/ICSSAccountSearchRequestService.xsd"
      xmlns:xsd="http://www.w3.org/2001/XMLSchema"
      xmlns:tns="http://com/ofss/fin/xws/xcs/AccountSearch.wsdl"
      xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
      xmlns:ns1="http://com.ofss.fin.xws.xcs/ICSSAccountSearchRequestService.xsd" xmlns:SOAP-
        ENC="http://schemas.xmlsoap.org/soap/encoding/" />
    </WLSG3N0:types>
  - <WLSG3N0:message name="doAccountSearchStr0Request">
    <WLSG3N0:part name="requestStr" type="WLSG3N1:string"/>
    </WLSG3N0:message>
  - <WLSG3N0:message name="doAccountSearchStr0Response">
    <WLSG3N0:part name="return" type="WLSG3N1:string"/>
    </WLSG3N0:message>
  - <WLSG3N0:portType name="AccountSearchRequestService">
    - <WLSG3N0:operation name="doAccountSearch">
      <WLSG3N0:input name="doAccountSearchStr0Request">
        message="WLSG3N2:doAccountSearchStr0Request"/>
      <WLSG3N0:output name="doAccountSearchStr0Response">
        message="WLSG3N2:doAccountSearchStr0Response"/>
      </WLSG3N0:operation>
    </WLSG3N0:portType>
  - <WLSG3N0:binding name="CSSAccountSearchRequestService" type="WLSG3N2:AccountSearchRequestService">
    <WLSG3N3:binding transport="http://schemas.xmlsoap.org/soap/http" style="rpc"/>
    - <WLSG3N0:operation name="doAccountSearch">
      <WLSG3N3:operation style="rpc"/>
      - <WLSG3N0:input name="doAccountSearchStr0Request">
        <WLSG3N3:body use="literal" namespace="CSSAccountSearchRequestService"/>
        </WLSG3N0:input>
      - <WLSG3N0:output name="doAccountSearchStr0Response">
        <WLSG3N3:body use="literal" namespace="CSSAccountSearchRequestService"/>
        </WLSG3N0:output>
      </WLSG3N0:operation>
    </WLSG3N0:binding>
  - <WLSG3N0:service name="CSSAccountSearchRequestService">
```

Apply WS-Policy policy:Wssp1.2-Https-UsernameToken-Plain.xml to the following WebServices.

- CSSAccountDetailsRequestService
- CSSAccountPayOffQuoteRequestService
- CSSAccountSearchRequestService
- CSSPostTransactionsRequestService

---

## 5. Verifying Successful Installation

### 5.1 Steps to Verify Successful Webservices deployment:

1. Ensure that the state is ACTIVE and health is OK in the Weblogic
2. Accessing the WSDL using: `http://<hostname>:<port>/<context root>/CSSAccountDetailsRequestService?WSDL` and receiving error: "No valid XML found"

### 5.2 Steps to Verify Successful Interface (Route One) deployment:

1. Ensure that the state is ACTIVE and health is OK in the Weblogic
2. Accessing the interface URLs mentioned below from the browser and receiving error: "No valid XML found":
  - `"http://<hostname>:<port>/<context root>/postdt2xws?xaeprc`
  - `"http://<hostname>:<port>/<context root>/postds2xws?xaeprc`
  - `"http://<hostname>:<port>/<context root>/postro2xws?xaeprc`

---

## 6. Enable Logging

### 6.1 Enabling WebService Log

It is not recommended to enable WebServices log while running in production environment. The logging should be enabled in production only for debugging purpose by following the below mentioned steps.

1. The log file path has to be specified in 'logging.properties' file.
2. The file is available inside config folder. Navigate to dbkls-xxws.ws.app/dbkls-xws-web/WEB-INF/classes/config
  - Edit the following with the log file path:  
java.util.logging.FileHandler.pattern=<Path>/dbkls\_xws\_%g.log
3. Restart the managed server (in which services are deployed) with the following argument:

Type	Description
Argument	Djava.util.logging.config.file=<Path of the above logging.properties file>/logging.properties
Example	nohup ./startManagedWebLogic.sh -Djava.util.logging.config.file=<Path of the above logging.properties file>/logging.properties &

4. The login levels can be set through the logging.properties file. Un-comment the level required in the logging.properties file
  - #com.ofss.fll.xws.level=FINEST
  - #com.ofss.fll.xws.level=FINER
  - #com.ofss.fll.xws.level=FINE
  - #com.ofss.fll.xws.level=CONFIG
  - #com.ofss.fll.xws.level=INFO

### 6.2 Enabling SQL Log for WebServices Component

It is not recommended to enable WebServices SQL log while running in production environment. The logging should be enabled in production only for debugging purpose by following the below mentioned steps:

1. The CMN\_DEBUG\_LEVEL system parameter should be enabled and set to appropriate non-zero value.
2. The CMN\_DEBUG\_METHOD system parameter should be enabled and set to appropriate non-zero value.

3. The respective package debug level for the webservice should be enabled and set to appropriate non-zero value in system parameter. Please refer the below table to for the service and debug level mapping.

Service	Functionality		
<b>DialerIntegrator:</b> xcsadi_em_100_01	To receive loan application from dealer track: XAEPRC_EM_100_01	To receive edocs application update : XAE-EDS_EM_100_01	To receive loan application from route one:XAE-PRC_EM_100_01
<b>CSSAccountDetailsRequestService:</b> XCSPRC_EM_100_01	To receive loan application/deal update from dealer track: XAEUP-D_EM_100_01	To receive edocs comment update : XAE-EDS_EM_100_01	To receive loan application/deal refresh from route one : XAEUP-D_EM_100_01
<b>CSSAccountSearchRequestService:</b> XCSACS_EM_100_01	To receive comments from dealer track : XAEPRC_EM_100_01	To receive edocs location update : XAE-EDS_EM_100_01	To receive comments from route one: XEAUP-D_EM_100_01
<b>CSSPostTransactionsRequestService:</b> XCSUP-D_EM_100_01	To post comments to dealer track: XAECHK-EM_100_01		To post comments to route one: XAECHK-EM_100_01
<b>CSSAccountPayOffQuoteRequestService:</b> N/A	To post application status to dealer track: XAECHK_EM_100_01		To post application status to route one: XAECHK-EM_100_01
<b>LOSeApplicationRequestService:</b> XAE-EDS_EM_100_01	To post dealer details to dealer track: XPR-PRC_EM_100_01		To post dealer details to dealer track: XPR-PRC_EM_100_01
<b>LOSeApplicationRequestService:</b> XAE-PRC_EM_100_01			
<b>LOSeApplicationSearchRequestService:</b> XAE-QUE_EM_100_01			
<b>LOSeApplicationLocationUpdateService:</b> XAE-EDS_EM_100_01			

Service	Functionality		
<b>LOSApplication-CommentUpdate-Service:</b> XAE-EDS_EM_100_01			
<b>LOSPostStatusRequestService:</b> XAECH-K_EM_100_01			
<b>LOSApplicationUpdateService:</b> XAEUP-D_EM_100_01			
<b>LOSCheckStatusRequestService:</b> XAECH-K_EM_100_01			
<b>LOSEcontractService:</b> XACPRC_EM_100_01			



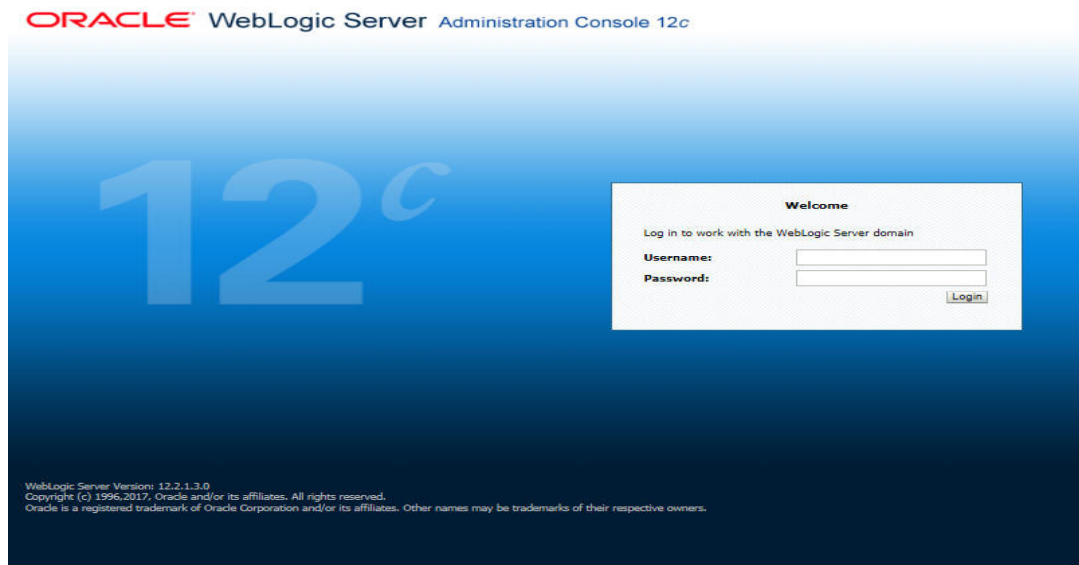
## 7. Configuring RESTful WebService

Follow the below steps to configure RESTful WebService.

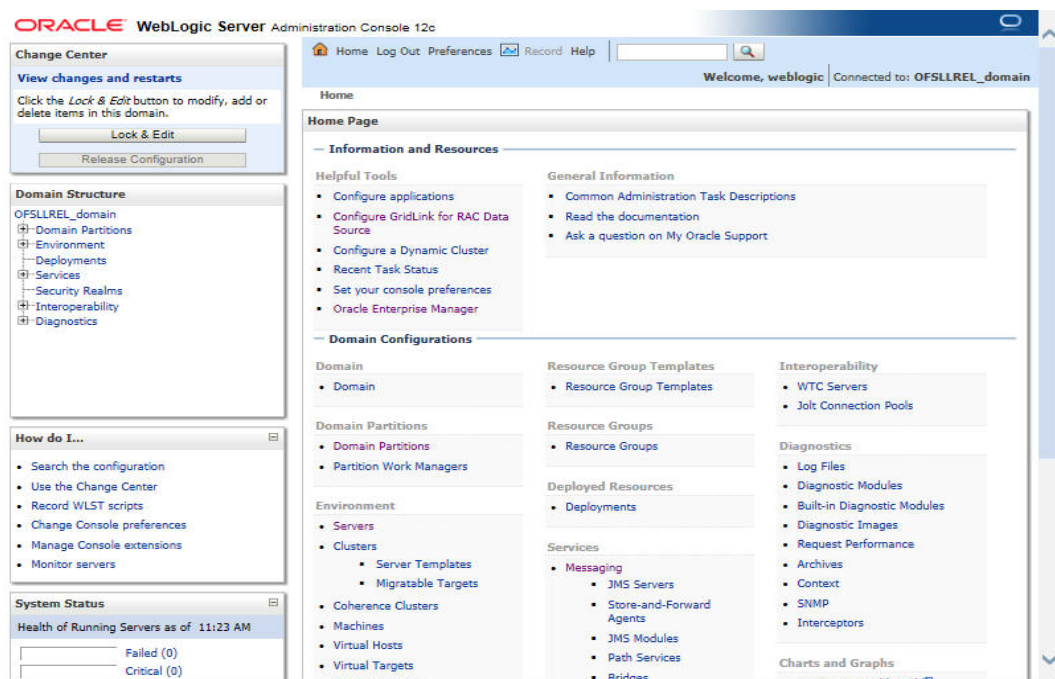
- Create Data Source for RESTful WebService
- Deploy RESTful WebService

### 7.1 Create Data Sources for RESTful WebService

1. Login to Oracle Weblogic 12c console (<http://hostname:port/console>).



2. On successful login, the following window is displayed.



3. Click Domain Name > Services > Data Sources. The following window is displayed.

**ORACLE WebLogic Server Administration Console 12c**

Home > Summary of JDBC Data Sources

Welcome, weblogic | Connected to: OFSLLREL\_domain

**Summary of JDBC Data Sources**

**Configuration** | Monitoring

A JDBC data source is an object bound to the JNDI tree that provides database connectivity through a pool of JDBC connections. Applications can look up a data source on the JNDI tree and then borrow a database connection from a data source.

This page summarizes the JDBC data source objects that have been created in this domain.

**Customize this table**

**Data Sources (Filtered - More Columns Exist)**

Click the **Lock & Edit** button in the Change Center to activate all the buttons on this page.

Name	Type	JNDI Name	Targets
AQ-JMS-DB	Generic	jdbc/aqjmsdb	OFSLL_ManagedServer
jdbc/dbk105nIEJBDS	Generic	jdbc/dbk105nIEJBDS	WS_ManagedServer
LocalSvcTbDataSource	Generic	jdbc/LocalSvcTbDataSource	AdminServer
mds-adf	Generic	jdbc/mds/adf	AdminServer, OFSLL_ManagedServer
OFSLL	Generic	jdbc/ofslIDBConnDS	AdminServer, OFSLL_ManagedServer
opss-audit-DBDS	Generic	jdbc/AuditAppendDataSource	AdminServer, OFSLL_ManagedServer, WS_ManagedServer
opss-audit-viewDS	Generic	jdbc/AuditViewDataSource	AdminServer, OFSLL_ManagedServer, WS_ManagedServer
opss-data-source	Generic	jdbc/OpssDataSource	AdminServer, OFSLL_ManagedServer, WS_ManagedServer
WLSSchemaDataSource	Generic	jdbc/WLSSchemaDataSource	

4. Click 'Lock & Edit' button on the left panel. Click 'New' on right panel and select 'Generic Data Source'.

**ORACLE WebLogic Server Administration Console 12c**

Home > Summary of JDBC Data Sources

Welcome, weblogic | Connected to: OFSLLREL\_domain

**Summary of JDBC Data Sources**

**Configuration** | Monitoring

A JDBC data source is an object bound to the JNDI tree that provides database connectivity through a pool of JDBC connections. Applications can look up a data source on the JNDI tree and then borrow a database connection from a data source.

This page summarizes the JDBC data source objects that have been created in this domain.

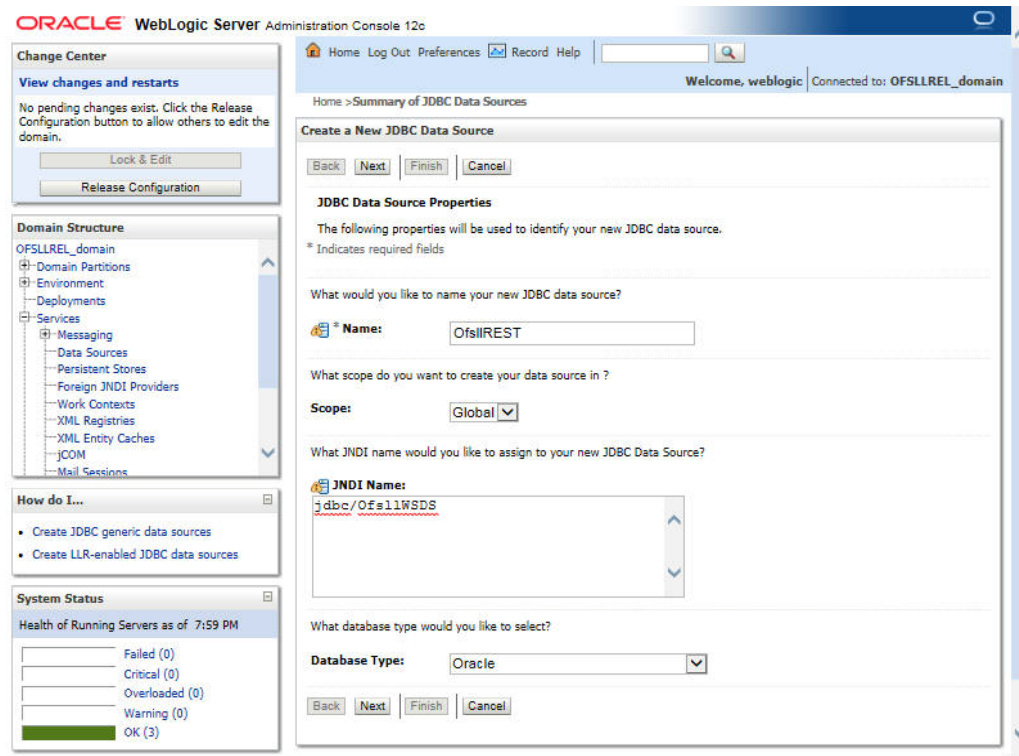
**Customize this table**

**Data Sources (Filtered - More Columns Exist)**

Click the **Lock & Edit** button in the Change Center to activate all the buttons on this page.

Name	Type	JNDI Name	Targets
Generic Data Source	Generic	jdbc/aqjmsdb	OFSLL_ManagedServer
GridLink Data Source	Generic	jdbc/dbk105nIEJBDS	WS_ManagedServer
Multi Data Source	Generic	jdbc/LocalSvcTbDataSource	AdminServer
Proxy Data Source	Generic	jdbc/mds/adf	AdminServer, OFSLL_ManagedServer
UCP Data Source	Generic	jdbc/ofslIDBConnDS	AdminServer, OFSLL_ManagedServer
opss-audit-DBDS	Generic	jdbc/AuditAppendDataSource	AdminServer, OFSLL_ManagedServer, WS_ManagedServer
opss-audit-viewDS	Generic	jdbc/AuditViewDataSource	AdminServer, OFSLL_ManagedServer, WS_ManagedServer
opss-data-source	Generic	jdbc/OpssDataSource	AdminServer, OFSLL_ManagedServer, WS_ManagedServer
WLSSchemaDataSource	Generic	jdbc/WLSSchemaDataSource	

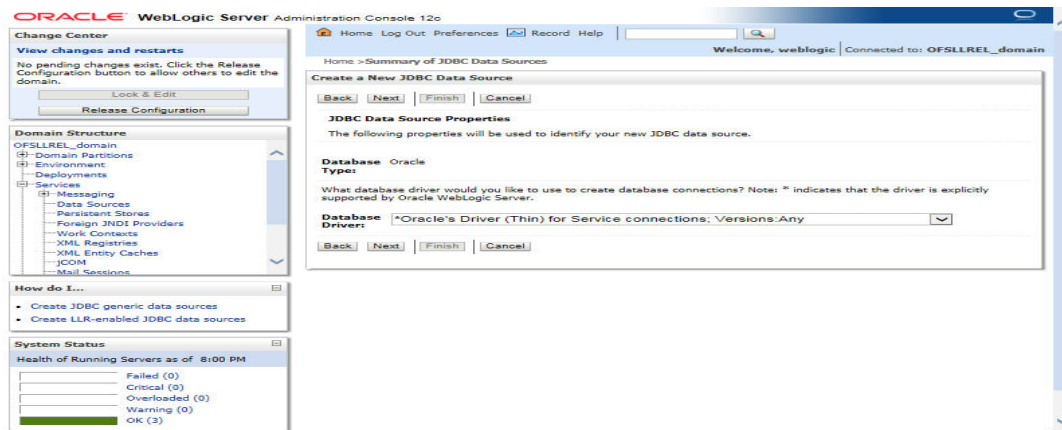
5. The following window is displayed.



6. Specify the following details:

- Enter Data source Name
- Enter the JNDI Name as 'jdbc/OfsIIWSDS'.
- Select 'Oracle' as Database Type.

7. Click 'Next'. The following window is displayed.



8. Select the Database Driver 'Oracle's Driver(Thin) for Services connections;Versions:Any'.

9. Click 'Next'. The following window is displayed.

**ORACLE WebLogic Server Administration Console 12c**

Home > Summary of JDBC Data Sources

Welcome, weblogic | Connected to: OFSLLREL\_domain

**Create a New JDBC Data Source**

Back Next Finish Cancel

**Transaction Options**

You have selected non-XA JDBC driver to create database connection in your new data source.

Does this data source support global transactions? If yes, please choose the transaction protocol for this data source.

☒ **Supports Global Transactions**

Select this option if you want to enable non-XA JDBC connections from the data source to participate in global transactions using the *Logging Last Resource (LLR)* transaction optimization. Recommended in place of Emulate Two-Phase Commit.

☐ **Logging Last Resource**

Select this option if you want to enable non-XA JDBC connections from the data source to emulate participation in global transactions using JTA. Select this option only if your application can tolerate heuristic conditions.

☐ **Emulate Two-Phase Commit**

Select this option if you want to enable non-XA JDBC connections from the data source to participate in global transactions using the one-phase commit transaction processing. With this option, no other resources can participate in the global transaction.

☒ **One-Phase Commit**

Back Next Finish Cancel

10. Click 'Next'. The following window is displayed.

**ORACLE WebLogic Server Administration Console 12c**

Home > Summary of JDBC Data Sources

Welcome, weblogic | Connected to: OFSLLREL\_domain

**Create a New JDBC Data Source**

Back Next Finish Cancel

**Connection Properties**

Define Connection Properties.

What is the name of the database you would like to connect to?

**Database Name:** OLLDB

What is the name or IP address of the database server?

**Host Name:** ofssl.oracle.com

What is the port on the database server used to connect to the database?

**Port:** 1521

What database account user name do you want to use to create database connections?

**Database User Name:** OFSLLREL

What is the database account password to use to create database connections?

**Password:** [masked]

**Confirm Password:** [masked]

Additional Connection Properties:

**oracle.jdbc.DRCPConnectionClass:** [empty]

11. Enter the Database details.



12. Click 'Next'. The following window is displayed.

**ORACLE WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: OFSLLREL\_domain

Home > Summary of JDBC Data Sources

**Create a New JDBC Data Source**

Test Configuration Back Next Finish Cancel

**Test Database Connection**

Test the database availability and the connection properties you provided.

What is the full package name of JDBC driver class used to create database connections in the connection pool?  
(Note that this driver class must be in the classpath of any server to which it is deployed.)

**Driver Class Name:** oracle.jdbc.OracleDriver

What is the URL of the database to connect to? The format of the URL varies by JDBC driver.

**URL:** jdbc:oracle:thin:@//ofssl.oralce.com:1521/OLLDB

What database account user name do you want to use to create database connections?

**Database User Name:** OFSLLREL

What is the database account password to use to create database connections?  
(Note: for secure password management, enter the password in the Password field instead of the Properties field below)

**Password:** [REDACTED]

**Confirm Password:** [REDACTED]

What are the properties to pass to the JDBC driver when creating database connections?

**Properties:**

**Change Center**

View changes and restarts

No pending changes exist. Click the Release Configuration button to allow others to edit the domain.

Lock & Edit Release Configuration

**Domain Structure**

OFSLLREL\_domain

- Domain Partitions
- Environment
- Deployments
- Services
  - Messaging
  - Data Sources
  - Persistent Stores
  - Foreign JNDI Providers
  - Work Contexts
  - XML Registries
  - XML Entity Caches
  - JCOM
  - Mail Sessions

**How do I...**

- Create JDBC generic data sources
- Create LLR-enabled JDBC data sources

**System Status**

Health of Running Servers as of 8:07 PM

Failed (0)
Critical (0)
Overloaded (0)
Warning (0)
OK (3)

13. Click 'Test Configuration'. On completion, displays a confirmation message as 'Connection test succeeded'.

14. Click 'Next'. The following window is displayed.

**ORACLE WebLogic Server Administration Console 12c**

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: OFSLLREL\_domain

Home > Summary of JDBC Data Sources

**Create a New JDBC Data Source**

Back Next Finish Cancel

**Select Targets**

You can select one or more targets to deploy your new JDBC data source. If you don't select a target, the data source will be created but not deployed. You will need to deploy the data source at a later time.

**Servers**

<input type="checkbox"/> AdminServer
<input type="checkbox"/> OFSLL_ManagedServer
<input checked="" type="checkbox"/> WS_ManagedServer

Back Next Finish Cancel

**Change Center**

View changes and restarts

No pending changes exist. Click the Release Configuration button to allow others to edit the domain.

Lock & Edit Release Configuration

**Domain Structure**

OFSLLREL\_domain

- Domain Partitions
- Environment
- Deployments
- Services
  - Messaging
  - Data Sources
  - Persistent Stores
  - Foreign JNDI Providers
  - Work Contexts
  - XML Registries
  - XML Entity Caches
  - JCOM
  - Mail Sessions

**How do I...**

- Create JDBC generic data sources
- Create LLR-enabled JDBC data sources

**System Status**

Health of Running Servers as of 8:11 PM

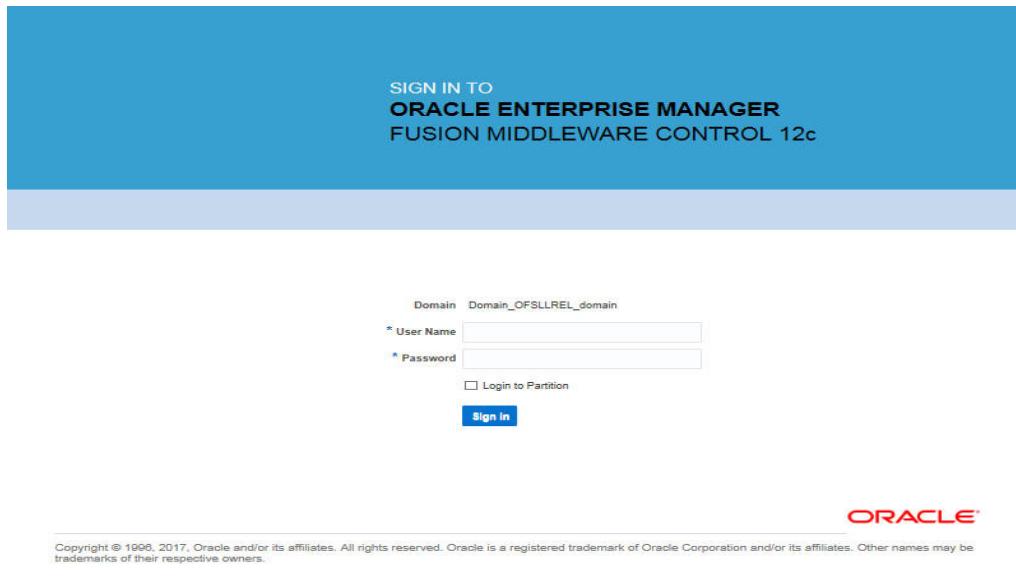
Failed (0)
Critical (0)
Overloaded (0)
Warning (0)
OK (3)

15. Select target Server as 'WS\_ManagedServer'.

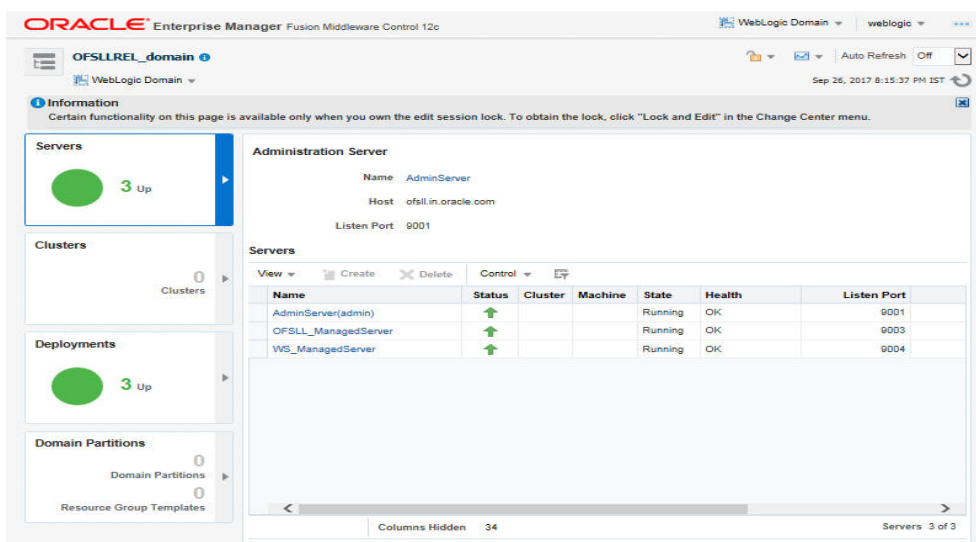
16. Click 'Finish' to activate the changes.

## 7.2 Deploy RESTful WebService

1. Login to Web Logic application server enterprise manager (e.g.:<http://hostname:port/em>)



2. Enter valid login credentials. The following window is displayed.

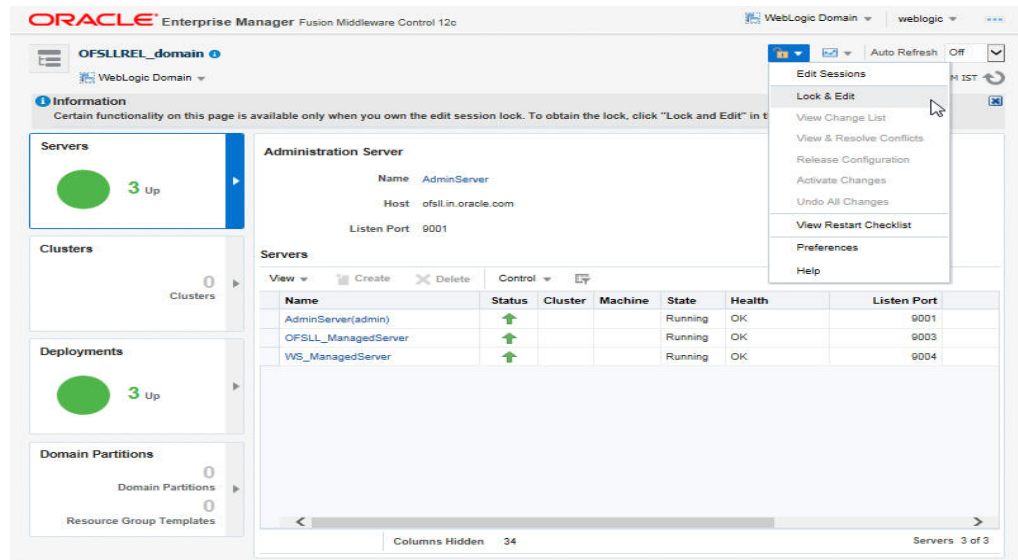


Name	Status	Cluster	Machine	State	Health	Listen Port
AdminServer(admin)	↑			Running	OK	9001
OFSSL_ManagedServer	↑			Running	OK	9003
WS_ManagedServer	↑			Running	OK	9004

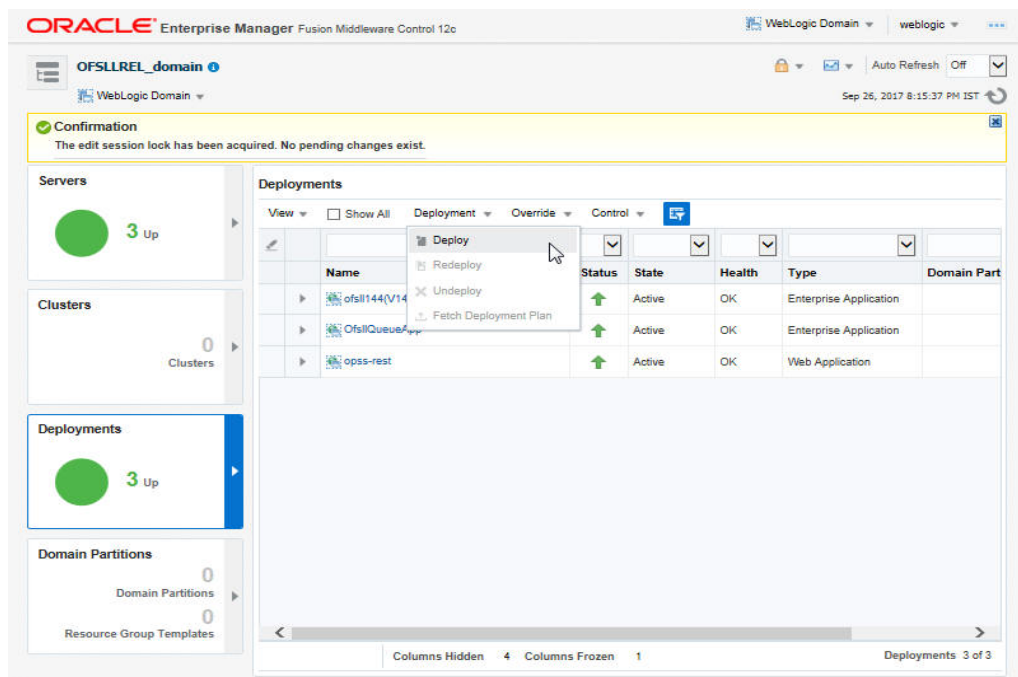
3. Select 'Lock & Edit' option in the lock drop-down list available in the header.



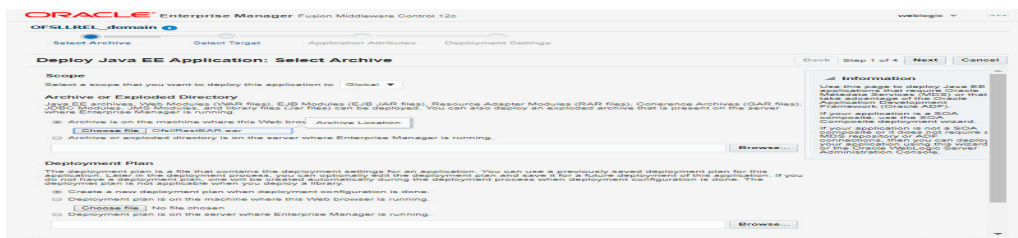
- Click 'Deployment' in the left panel. The following window is displayed.



- Select 'Deploy' from the Deployment drop-down list. The following window is displayed.

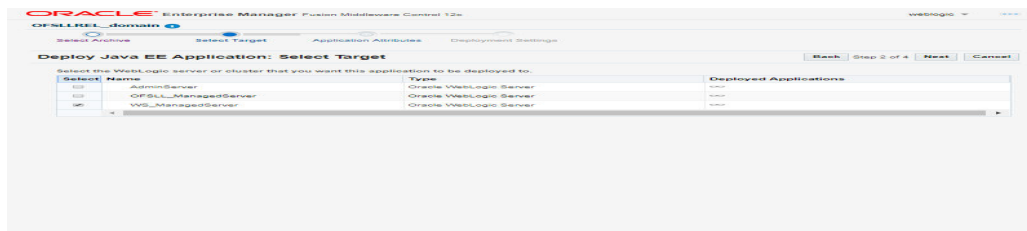


- The following window is displayed.



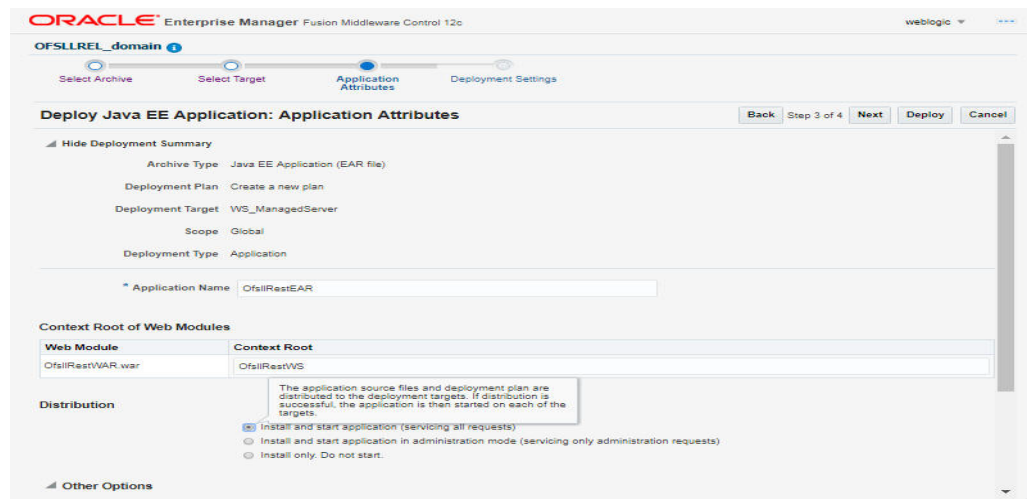
- Browse to the folder containing the WebService. Eg: C:/OfsIIRestEAR.ear

8. Click 'Next'. The following window is displayed.



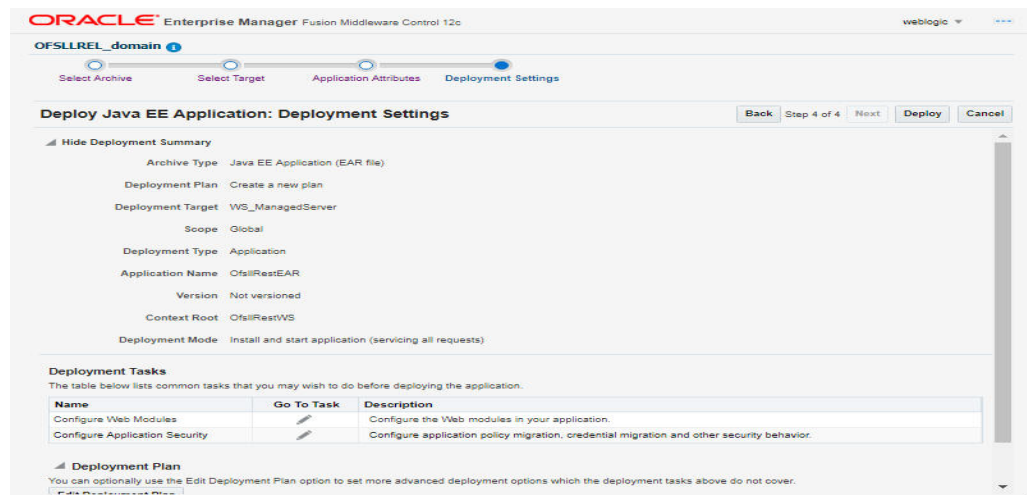
9. Select the server on which the WebService needs to be deployed.

10. Click 'Next'. The following window is displayed.

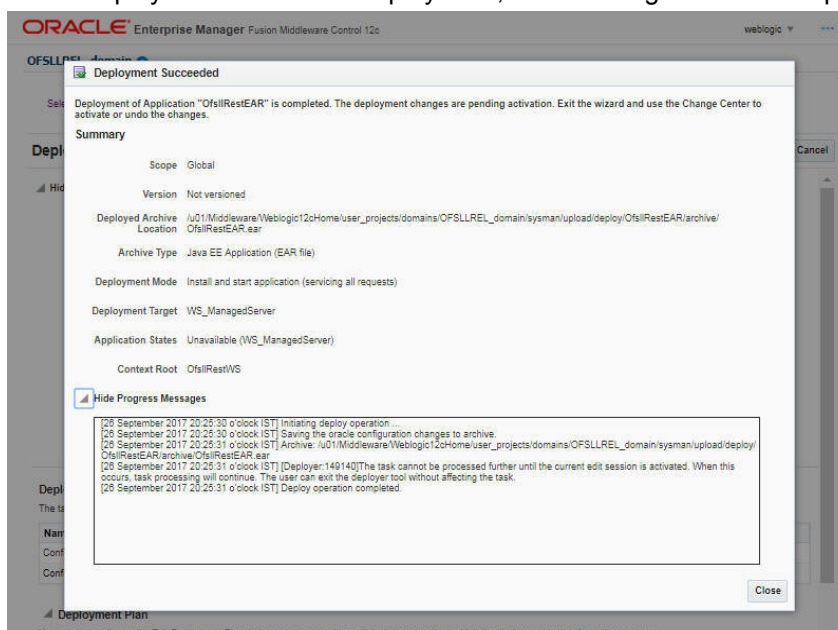


11. Select the option 'Install and start application (servicing all requests)'.

12. Check the context root and click 'Next'. The following window is displayed.



- Click 'Deploy'. On successful deployment, the following window is displayed.



- Click 'Close'. Post deployment, you need to activate the changes by selecting 'Active Changes' option from 'Edit Session' drop-down list as indicated in step 4 above.

## To Identify the RESTful Webservice URL

- Login to WebLogic Server 12c console (<http://hostname:port/console>).
- Click 'Deployments' Under Configuration tab and select 'OfsllRestEAR' services. The following window is displayed.

**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**

Install Update Delete Showing 31 to 40 of 61 Previous Next

<input type="checkbox"/>	Name	State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
<input type="checkbox"/>	odl.clickhistory (1.0,12.2.1)	Active		Library	AdminServer, OFSSL_ManagedServer, WS_ManagedServer	Global		100
<input type="checkbox"/>	odl.clickhistory.webapp (1.0,12.2.1)	Active		Library	AdminServer, OFSSL_ManagedServer, WS_ManagedServer	Global		100
<input type="checkbox"/>	OfsllQueueMDB	Active	OK	EJB	OFSSL_ManagedServer,	Global		100
<input type="checkbox"/>	OfsllRestEAR	Active	OK	Enterprise Application	WS_ManagedServer	Global		100

- Click 'Testing' tab and expand 'OfsllRestWS'. The following window is displayed.

Settings for OfsllRestEAR

Overview Deployment Plan Configuration Security Targets Control **Testing** Monitoring Notes

Some deployment types support test points you can use to verify that a deployment was successful and that the module is ready for use.

The following table includes all of the test points available for this application or module.

**Deployment Tests**

Showing 1 to 1 of 1 Previous | Next

Name	Test Point	Comments
OfsllRestEAR		
OfsllRestWS		
/OfsllRestWS/rest	/application.wadl	WADL page on server WS_ManagedServer
/OfsllRestWS/service/api/resources	/application.wadl	WADL page on server WS_ManagedServer
default	http://10.184.132.155:8315/OfsllRestWS	Default url on server WS_ManagedServer

Showing 1 to 1 of 1 Previous | Next

- You can view the 'OfsllRestful' Services URL as shown.

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## A. Appendix - Configuration parameters

Refer to the following section for details on configuration parameters.

### Modifying Configuration Files

#### Route One Configuration

Property Name	Property Value	Description	Remarks
Configuration File: <b>ro_servlet_init.conf</b>			
LOApplicationRequestServiceURL	http://<HOST NAME>:<PORT>/<CONTEXT ROOT>/LOApplicationRequestService	URL for OFSLL New application WebService	Refer the recommended context root table for CONTEXT ROOT. Sample URL: http://host-name:port/dbkls-xws-app-ro/LOApplicationRequestService
LOApplicationUpdateServiceURL	http://<HOST NAME>:<PORT>/<CONTEXT ROOT>/LOApplicationUpdateService	URL for OFSLL application update WebService	Refer the recommended context root table for CONTEXT ROOT. Sample URL: http://host-name:port/dbkls-xws-app-ro/LOApplicationUpdateService
LOSEContractWebServiceURL	http://<local-host>:<port>/dbkls-xws-app-ro/LOSEContractService	URL to validate and receive the contract information	Refer the recommended context root table for CONTEXT ROOT. Sample URL: http://host-name:port/dbkls-xws-app-ro/LOSEContractService
keystoreLocation	config/dls_cacerts	Parameter to set keystore location	The keystore location should not be changed and keystore should be available in this location
postURL	https://messaging.itl.routeone.net/IF1_ITL/CASSB-MessagingReceiver	URL for posting acknowledgement message to Route one	Verify the URL with Route One
fileLocation	/tmp	temporary file directory	The directory for temporary files. Make sure that such directory exists on the deployment server
postTimeout	10	Parameter to set timeout value to post XML message to third party.	Timeout value should be specified in number of seconds.

Property Name	Property Value	Description	Remarks
useProxy	0	Parameter to switch on/off proxy use. By default use of proxy is switched off. To use proxy setup value to "1", else setup value as "0"	
proxyHost	abc.com	Parameter to set proxy host. This is required if useProxy is set to 1.	
proxyPort	80	Parameter to set proxy port. This is required if useProxy is set to 1.	
Configuration File: <b>dbkws_xae_init.conf</b>			
lenderId	SOME-LENDER_ID	The finance source identifier used in the dealer file	SOMELENDER_ID is a sample value
lenderName	SOME_LENDER_NAME	The finance source name used in the dealer file	SOME_LENDER_NAME is a sample value
application-Source	ROUTEONE	Parameter to set application source	Don't modify this value
dealerElementName	DEALER_DETAILS	Name of XML element used for the dealer details used in the dealer file	DEALER_DETAILS is a sample value
fileLocation	/tmp		The directory for temporary files. Make sure that such directory exists on the deployment server
fileDelimiter	,	Delimiter used in dealer header file	Needed only for Route-One
jndiLookupDataSource	jdbc/IN1Huk-WznG0b4esj	Parameter that defines the JNDI look up for the applicaton datasource	Don't modify the value
keystoreLocation	config/dls_cacerts	Parameter to set location for public/private key store for HTTPS posting and for XML Digital Signature	The keystore location should not be changed and keystore should be available in this location



Property Name	Property Value	Description	Remarks
postTimeout	10	Parameter to set timeout value to post XML message to third party.	Timeout value should be specified in number of seconds.
useProxy	0	Parameter to switch on/off proxy use. By default use of proxy is switched off. To use proxy setup value to "1", else setup value as "0"	
proxyHost	abc.com	Parameter to set proxy host. This is required if useProxy is set to 1.	
proxyPort	80	Parameter to set proxy port. This is required if useProxy is set to 1.	
Configuration File: <b>dbkws_xec_init.conf</b>			
jndiLookupDataSource	jdbc/IN1Huk-WznG0b4esj	Parameter that defines the JNDI look up for the applicaton datasource	Don't modify the value
Configuration File: <b>dbkws_xcl_init.conf</b>			
lenderId	SOME-LENDER_ID	The finance source identifier used in the dealer file	SOMELENDER_ID is a sample value
lenderName	SOME_LENDER_NAME	The finance source name used in the dealer file	SOME_LENDER_NAME is a sample value
dealerElementName	DEALER_DETAILS	Name of XML element used for the dealer details used in the dealer file	DEALER_DETAILS is a sample value
fileLocation	/tmp		The directory for temporary files. Make sure that such directory exists on the deployment server
fileDelimiter	,	Delimiter used in dealer header file	

Property Name	Property Value	Description	Remarks
jndiLookupDataSource	jdbc/dbk105nIE-JBDS	Parameter that defines the JNDI look up for the applicaton datasource	Don't modify the value
keystoreLocation	config/dls_cacerts	Parameter to set location for public/private key store for HTTPS posting and for XML Digital Signature	The keystore location should not be changed and keystore should be available in this location
keystorePassword	changeit	The keystore password	The deafult password is "changeit". Modify the property in case the password is different for the keystore.
sscroKeyAlias	ofss_routetone	OFSLL's private key alias name. The private key is used to sign xml response to RouteOne	You may import the private key with alias "ofss_routetone" else modify the property value to alias used while importing the private key into keystore.
sscroKeyPassword	demotestSSCR1	OFSLL's private key password	demotestSSCR1 is a sample value
Configuration File: <b>Logging.properties</b>			
handlers	java.util.logging.FileHandler, java.util.logging.ConsoleHandler		
java.util.logging.FileHandler.level	ALL		
java.util.logging.FileHandler.pattern	/somewhere/logs/dbkls_xws_%g.log		
java.util.logging.FileHandler.limit	1000000		
java.util.logging.FileHandler.count	4		

Property Name	Property Value	Description	Remarks
java.util.logging.FileHandler.append	true		
java.util.logging.FileHandler.formatter	java.util.logging.SimpleFormatter		
java.util.logging.ConsoleHandler.level	WARNING		
java.util.logging.ConsoleHandler.formatter	java.util.logging.SimpleFormatter		
com.ofss.fll.xws.level	FINER	set the logging level for the application	Other Level values -- FINEST,FINE,CONFIG and INFO

**Dealer Track**

Property Name	Property Value	Description	Remarks
Configuration File: <b>dt_servlet_init.conf</b>			
LOSAppli- cationRe- questServ iceURL	http://<HOST NAME>:<PORT>/ <CONTEXT ROOT>/LOSAppli- cationRequestSer- vice	URL for OFSLL New application WebService	Refer the recommended context root table for CONTEXT ROOT. Sample URL: http://host- name:port/dbkls-xws-app- dt/LOSAplicationRe- questService
LOSAppli- cationUp- dateServi- ceURL	http://<HOST NAME>:<PORT>/ <CONTEXT ROOT>/LOSAppli- cationUpdateSer- vice	URL for OFSLL applica- tion update WebService	Refer the recommended context root table for CONTEXT ROOT. Sample URL: http://host- name:port/dbkls-xws-app- dt/LOSAplicationUp- dateService
postTime- out	10	Parameter to set timeout value to post XML mes- sage to third party.	Timeout value should be specified in number of seconds.
useProxy	0	Parameter to switch on/ off proxy use. By default use of proxy is switched off. To use proxy setup value to "1", else setup value as "0"	
proxyHost	abc.com	Parameter to set proxy host. This is required if useProxy is set to 1.	
proxyPort	80	Parameter to set proxy port. This is required if useProxy is set to 1.	
Configuration File: <b>dbkws_xae_init.conf</b>			
lenderId	SOME- LENDER_ID	The finance source iden- tifier used in the dealer file	SOMELENDER_ID is a sample value
lender- Name	SOME_LENDER_ NAME	The finance source name used in the dealer file	SOME_LENDER_NAME is a sample value
applica- tion- Source	DEALERTRACK	Parameter to set applica- tion source	Don't modify this value

Property Name	Property Value	Description	Remarks
dealerElement-Name	DEALER_DETAILS	Name of XML element used for the dealer details used in the dealer file	DEALER_DETAILS is a sample value
fileLocation	/tmp		The directory for temporary files. Make sure that such directory exists on the deployment server
jndi-Lookup-DataSource	jdbc/IN1Huk-WznG0b4esj	Parameter that defines the JNDI look up for the application datasource	Don't modify the value
keystore-Location	config/dls_cacerts	Parameter to set location for public/private key store for HTTPS posting and for XML Digital Signature	The keystore location should not be changed and keystore should be available in this location
keystore-Password	changeit	The keystore password	The default password is "changeit". Modify the property in case the password is different for the keystore.
postTimeout	10	Parameter to set timeout value to post XML message to third party.	Timeout value should be specified in number of seconds.
useProxy	0	Parameter to switch on/off proxy use. By default use of proxy is switched off. To use proxy setup value to "1", else setup value as "0"	
proxyHost	abc.com	Parameter to set proxy host. This is required if useProxy is set to 1.	
proxyPort	80	Parameter to set proxy port. This is required if useProxy is set to 1.	
Configuration File: <b>dbkws_xcl_init.conf</b>			
lenderId	SOME_LENDER_ID	The finance source identifier used in the dealer file	SOMELENDER_ID is a sample value
lender-Name	SOME_LENDER_NAME	The finance source name used in the dealer file	SOME_LENDER_NAME is a sample value

Property Name	Property Value	Description	Remarks
dealerElement-Name	DEALER_DETAILS	Name of XML element used for the dealer details used in the dealer file	DEALER_DETAILS is a sample value
fileLocation	/tmp		The directory for temporary files. Make sure that such directory exists on the deployment server
fileDelimiter	,	Delimiter used in dealer header file	Needed only for RouteOne
jndi-Lookup-DataSource	jdbc/dbk105nE-JBDS	Parameter that defines the JNDI look up for the application datasource	Don't modify the value
keystore-Location	config/dls_cacerts	Parameter to set location for public/private key store for HTTPS posting and for XML Digital Signature	The keystore location should not be changed and keystore should be available in this location
keystore-Password	changeit	The keystore password	The default password is "changeit". Modify the property in case the password is different for the keystore.
sscroKey Alias	ofss_routeone	OFSSL's private key alias name. The private key is used to sign xml response to RouteOne	You may import the private key with alias "ofss_routeone" else modify the property value to alias used while importing the private key into keystore.
sscroKey-Password	demotestSSCR1	OFSSL's private key password	demotestSSCR1 is a sample value
Configuration File: <b>Logging.properties</b>			
handlers	java.util.logging.FileHandler, java.util.logging.ConsoleHandler		
java.util.logging.FileHandler.level	ALL		



Property Name	Property Value	Description	Remarks
java.util.logging.FileHandler.pattern	/somewhere/logs/dbkls_xws_%g.log		
java.util.logging.FileHandler.limit	1000000		
java.util.logging.FileHandler.count	4		
java.util.logging.FileHandler.append	true		
java.util.logging.FileHandler.formatter	java.util.logging.SimpleFormatter		
java.util.logging.ConsoleHandler.level	WARNING		
java.util.logging.ConsoleHandler.formatter	java.util.logging.SimpleFormatter		
com.ofss.fll.xws.level	FINER	set the logging level for the application	Other Level values -- FINEST, FINE, CONFIG and INFO

## EDOCS

Property Name	Property Value	Description	Remarks
Configuration File: <b>ds_servlet_init.conf</b>			
LOSeApplication-RequestServiceURL	http://<HOST NAME>:<PORT>/<CONTEXT ROOT>/LOSeApplicationRequestService	URL for OFSLL eDocs Create/update application WebService	Refer the recommended context root table for CONTEXT ROOT. Sample URL: http://host-name:port/dbkls-xws-apps/LOSeApplicationRequestService
LOSeApplication-CommentUpdateServiceURL	http://<HOST NAME>:<PORT>/<CONTEXT ROOT>/LOSeApplicationCommentUpdateService	URL for OFSLL eDocs comment update WebService	Refer the recommended context root table for CONTEXT ROOT. Sample URL: http://host-name:port/dbkls-xws-apps/LOSeApplicationCommentUpdateService
LOSeApplication-LocationUpdateServiceURL	http://<HOST NAME>:<PORT>/<CONTEXT ROOT>/LOSeApplicationLocationUpdateService	URL for OFSLL eDocs location update WebService	Refer the recommended context root table for CONTEXT ROOT. Sample URL: http://host-name:port/dbkls-xws-apps/LOSeApplicationLocationUpdateService
postTimeout	10	Parameter to set timeout value to post XML message to third party.	Timeout value should be specified in number of seconds.
useProxy	0	Parameter to switch on/off proxy use. By default use of proxy is switched off. To use proxy setup value to "1", else setup value as "0"	
proxyHost	abc.com	Parameter to set proxy host. This is required if useProxy is set to 1.	
proxyPort	80	Parameter to set proxy port. This is required if useProxy is set to 1.	

Property Name	Property Value	Description	Remarks
Configuration File: <b>dbkws_xae_init.conf</b>			
lenderId	SOME-LENDER_ID	The finance source identifier used in the dealer file	SOMELENDER_ID is a sample value
lenderName	SOME_LENDER_NAME	The finance source name used in the dealer file	SOME_LENDER_NAME is a sample value
applicationSource	EDOCS	Parameter to set application source	Don't modify this value
dealerElement-Name	DEALER_DETAILS	Name of XML element used for the dealer details used in the dealer file	DEALER_DETAILS is a sample value
fileLocation	/tmp		The directory for temporary files. Make sure that such directory exists on the deployment server
jndiLookupData-Source	jdbc/IN1Huk-WznG0b4esj	Parameter that defines the JNDI look up for the application data-source	Don't modify the value
keystoreLocation	config/dls_cacerts	Parameter to set location for public/private key store for HTTPS posting and for XML Digital Signature	The keystore location should not be changed and keystore should be available in this location
keystorePassword	changeit	The keystore password	The default password is "changeit". Modify the property in case the password is different for the keystore.
postTimeout	10	Parameter to set timeout value to post XML message to third party.	Timeout value should be specified in number of seconds.

Property Name	Property Value	Description	Remarks
useProxy	0	Parameter to switch on/off proxy use. By default use of proxy is switched off. To use proxy setup value to "1", else setup value as "0"	
proxyHost	abc.com	Parameter to set proxy host. This is required if useProxy is set to 1.	
proxyPort	80	Parameter to set proxy port. This is required if useProxy is set to 1.	
Configuration File: <b>dbkws_xcl_init.conf</b>			
lenderId	SOME-LENDER_ID	The finance source identifier used in the dealer file	SOMELENDER_ID is a sample value
lenderName	SOME_LENDER_NAME	The finance source name used in the dealer file	SOME_LENDER_NAME is a sample value
dealerElement-Name	DEALER_DETAILS	Name of XML element used for the dealer details used in the dealer file	DEALER_DETAILS is a sample value
fileLocation	/tmp		The directory for temporary files. Make sure that such directory exists on the deployment server
fileDelimiter	,	Delimiter used in dealer header file	
jndiLookupData-Source	jdbc/dbk105nIE-JBDS	Parameter that defines the JNDI look up for the applicaton data-source	Don't modify the value

Property Name	Property Value	Description	Remarks
keystoreLocation	config/dls_cacerts	Parameter to set location for public/private key store for HTTPS posting and for XML Digital Signature	The keystore location should not be changed and keystore should be available in this location
keystorePassword	changeit	The keystore password	The default password is "changeit". Modify the property in case the password is different for the keystore.
sscroKeyAlias	ofss_routeone	OFSLL's private key alias name. The private key is used to sign xml response to RouteOne	You may import the private key with alias "ofss_routeone" else modify the property value to alias used while importing the private key into keystore.
sscroKeyPassword	demotestSSCR1	OFSLL's private key password	demotestSSCR1 is a sample value
Configuration File: <b>Logging.properties</b>			
handlers	java.util.logging.FileHandler, java.util.logging.ConsoleHandler		
java.util.logging.FileHandler.level	ALL		
java.util.logging.FileHandler.pattern	/somewhere/logs/dbkls_xws_%g.log		
java.util.logging.FileHandler.limit	1000000		
java.util.logging.FileHandler.count	4		
java.util.logging.FileHandler.append	true		
java.util.logging.FileHandler.formatter	java.util.logging.SimpleFormatter		

Property Name	Property Value	Description	Remarks
java.util.logging.ConsoleHandler.level	WARNING		
java.util.logging.ConsoleHandler.formatter	java.util.logging.SimpleFormatter		
com.ofss.fl.xws.level	FINER	set the logging level for the application	Other Level values -- FINEST,FINE,CONFIG and INFO

#### Webservices

Property Name	Property Value	Description	Remarks
Configuration File: <b>dbkws_lookups_init.conf</b>			
jndiLookupDataSource	jdbc/dbkwsDS	Parameter that defines the JNDI look up for the applicaton datasource	Don't modify the value
keystoreLocation	config/dls_cacerts	Parameter to set keystore location	The keystore location should not be changed and keystore should be available in this location
keystorePassword	changeit	The keystore password	The default password is "changeit". Modify the property in case the password is different for the keystore.
Configuration File: <b>dbkws_xae_init.conf</b>			
lenderId	SOME_LENDER_ID	The finance source identifier used in the dealer file	SOMELENDER_ID is a sample value
lenderName	SOME_LENDER_NAME	The finance source name used in the dealer file	SOME_LENDER_NAME is a sample value
dealerElementName	DEALER_DETAILS	Name of XML element used for the dealer details used in the dealer file	DEALER_DETAILS is a sample value
fileLocation	/tmp		The directory for temporary files. Make sure that such directory exists on the deployment server
jndiLookupDataSource	jdbc/IN1Huk-WznG0b4esj	Parameter that defines the JNDI look up for the applicaton datasource	Don't modify the value



Property Name	Property Value	Description	Remarks
keystoreLocation	config/dls_cacerts	Parameter to set location for public/private key store for HTTPS posting and for XML Digital Signature	The keystore location should not be changed and keystore should be available in this location
keystore-Password	changeit	The keystore password	The default password is "changeit". Modify the property in case the password is different for the keystore.
sscroKeyAliases	ofss_routeone	OFSLL's private key alias name. The private key is used to sign xml response to RouteOne	You may import the private key with alias "ofss_routeone" else modify the property value to alias used while importing the private key into keystore.
sscroKey-Password	demotestSS-CR1	OFSLL's private key password	demotestSSCR1 is a sample value
postTimeout	10	Parameter to set timeout value to post XML message to third party.	Timeout value should be specified in number of seconds.
useProxy	0	Parameter to switch on/off proxy use. By default use of proxy is switched off. To use proxy setup value to "1", else setup value as "0"	
proxyHost	abc.com	Parameter to set proxy host. This is required if useProxy is set to 1.	
proxyPort	80	Parameter to set proxy port. This is required if useProxy is set to 1.	
Configuration File: <b>dbkws_xcl_init.conf</b>			
lenderId	SOME-LENDER_ID	The finance source identifier used in the dealer file	SOMELENDER_ID is a sample value
lenderName	SOME_LENDER_NAME	The finance source name used in the dealer file	SOME_LENDER_NAME is a sample value
dealerElementName	DEALER_DETAILS	Name of XML element used for the dealer details used in the dealer file	DEALER_DETAILS is a sample value

Property Name	Property Value	Description	Remarks
fileLocation	/tmp		The directory for temporary files. Make sure that such directory exists on the deployment server
fileDelimiter	,	Delimiter used in dealer header file	
jndiLookup-DataSource	jdbc/dbk105nE-JBDS	Parameter that defines the JNDI look up for the applicaton datasource	
keystoreLocation	config/dls_cacerts	Parameter to set location for public/private key store for HTTPS posting and for XML Digital Signature	The keystore location should not be changed and keystore should be available in this location
keystore-Password	changeit	The keystore password	The deafult password is "changeit". Modify the property in case the password is different for the keystore.
sscroKeyAliases	ofss_routeone	OFSLL's private key alias name. The private key is used to sign xml response to RouteOne	You may import the private key with alias "ofss_routeone" else modify the property value to alias used while importing the private key into keystore.
sscroKey-Password	demotestSS-CR1	OFSLL's private key password	demotestSSCR1 is a sample value
Configuration File: <b>dbkws_xcs_init.conf</b>			
jndiLookup-DataSource	jdbc/dbkwsDS	Parameter that defines the JNDI look up for the applicaton datasource	Don't modify the value
keystoreLocation	config/dls_cacerts	Parameter to set location for public/private key store for HTTPS posting and for XML Digital Signature	The keystore location should not be changed and keystore should be available in this location
keystore-Password	changeit	The keystore password	The deafult password is "changeit". Modify the property in case the password is different for the keystore.
fileLocation	/tmp		The directory for temporary files. Make sure that such directory exists on the deployment server

Property Name	Property Value	Description	Remarks
application-Source	DBKTST	Application source	DBKTST is a sample value. Set it to appropriate value
Configuration File: <b>Logging properties</b>			
handlers	java.util.logging.File-Handler, java.util.logging.ConsoleHandler		
java.util.logging.File-Handler.level	ALL		
java.util.logging.File-Handler.pattern	/somewhere/ logs/dbkls_x- ws_%g.log		
java.util.logging.File-Handler.limit	1000000		
java.util.logging.File-Handler.count	4		
java.util.logging.File-Handler.append	true		
java.util.logging.File-Handler.formatter	java.util.logging.SimpleFormatter		
java.util.logging.Console-Handler.level	WARNING		
java.util.logging.Console-Handler.formatter	java.util.logging.SimpleFormatter		
com.ofss.flxws.level	FINER	set the logging level for the application	Other Level values -- FIN-EST,FINE,CONFIG and INFO

### **Others**

- Verify that latest XWS SQL Types, Views and Packages are installed.
- Required Java permissions have been granted

- Verify that System parameters for WebServices URLs as well as Post Response URLs are set. Please see the table below for details
- System parameter CMN\_WALLET\_PATH and CMN\_WALLET\_PASSWORD is setup
- Verify lenderId, lendername in config(dbkws\_xae\_init.conf) file and also set lenderId in all response xsl in element "A:TargetId".
- For DealerTrack access, user name/pwd should be setup in file ".htpasswd" under config dir

**System Parameters to be configured:**

System Parameter Name	System Parameter Desc
XWS_XAE_DLR_TRACK_RESP_PWD	DEALERTRACK APPLICATION RESPONSE BASIC AUTH PASSWORD
XWS_XAE_DLR_TRACK_RESP_URL	DEALERTRACK APPLICATION RESPONSE URL
XWS_XAE_DLR_TRACK_RESP_USER	DEALERTRACK APPLICATION RESPONSE BASIC AUTH USER
XWS_XAE_DLR_TRACK_WS_URL	OFSLL WEBSERVICE URL TO POST APPLICATION RESPONSE TO DEALER-TRACK
XWS_XAE_ROUTEONE_RESP_PWD	ROUTE ONE APPLICATION RESPONSE BASIC AUTH PASSWORD
XWS_XAE_ROUTEONE_RESP_URL	ROUTE ONE APPLICATION RESPONSE URL
XWS_XAE_ROUTEONE_RESP_USER	ROUTE ONE APPLICATION RESPONSE BASIC AUTH USER
XWS_XAE_ROUTEONE_WS_URL	OFSLL WEBSERVICE URL TO POST APPLICATION RESPONSE TO ROUTE ONE
XWS_XAE_EDOC_RESP_URL	EDOCS APPLICATION RESPONSE BASIC AUTH PASSWORD
XWS_XAE_EDOC_WS_URL	EDOCS APPLICATION RESPONSE URL
XWS_XAE_EDOC_RESP_USER	EDOCS APPLICATION RESPONSE BASIC AUTH USER
XWS_XAE_EDOC_RESP_PWD	OFSLL WEBSERVICE URL TO POST APPLICATION RESPONSE TO EDOCS
XWS_XPR_DLR_TRACK_RESP_PWD	DEALER TRACK DEALER LOAD PASS-WORD
XWS_XPR_DLR_TRACK_RESP_URL	DEALER TRACK DEALER LOAD RESPONSE URL
XWS_XPR_DLR_TRACK_RESP_USER	DEALER TRACK DEALER LOAD USER ID
XWS_XPR_DLR_TRACK_WS_URL	OFSLL WEBSERVICE URL TO POST DEALER DETAILS TO DEALER TRACK

<b>System Parameter Name</b>	<b>System Parameter Desc</b>
XWS_XPR_INCLUDE_TEMP	INCLUDE TEMP PRODUCERS
XWS_XPR_ROUTEONE_RESP_PWD	ROUTE ONE DEALER LOAD PASS-WORD
XWS_XPR_ROUTEONE_RESP_URL	ROUTE ONE DEALER LOAD RESPONSE URL
XWS_XPR_ROUTEONE_RESP_USER	ROUTE ONE DEALER LOAD USER ID
XWS_XPR_ROUTEONE_WS_URL	OFSLL WEBSERVICE URL TO POST DEALER DETAILS TO ROUTE ONE
XWS_XAE_DLR_TRACK_LENDERID	DEALERTRACK LENDER ID
XWS_XAE_ROUTEONE_LENDERID	ROUTEONE LENDER ID
XWS_XAE_DLR_TRACK_LENDER_NAME	DEALERTRACK LENDER NAME
XWS_XAE_ROUTEONE_LENDER_NAME	ROUTEONE LENDER NAME
XWS_XAE_ECON_ROUTEONE_RESP_URL	Route One E-contract response URL