WebServices Installation Guide

Oracle Financial Services Lending and Leasing

Release 14.3.0.0.0

Part No. E72985-01

March 2016

ORACLE

WebServices Installation Guide
March 2016
Oracle Financial Services Software Limited

Oracle Park

Off Western Express Highway
Goregaon (East)
Mumbai, Maharashtra 400 063
India
Worldwide Inquiries:
Phone: +91 22 6718 3000
Fax:+91 22 6718 3001
www.oracle.com/financialservices/

Copyright © 2007, 2016, Oracle and/or its affiliates. All rights reserved.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate failsafe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.
The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

This software or hardware and documentation may provide access to or information on content, products and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services.

Table of Contents

1. Preface 1-1
- 1.1 Prerequisites 1-1
- 1.2 Audience 1-1
- 1.3 Conventions Used 1-1

2. Installing Web Services Database Objects 2-1

3. Deploying Application Interface Web Services 3-1
- 3.1 Creating Data Sources for Web Services 3-1
- 3.2 Working with SSL 3-7
  - *3.2.1 Steps to Import Certificates to keystore 3-8*
  - *3.2.2 Enable SSL Debugging 3-9*
  - *3.2.3 Connecting to service supporting only TLS protocol 3-10*
- 3.3 Deploying Webservices 3-10
  - *3.3.1 Deployment of Web services in Enterprise Manager 3-10*

4. Configuring Weblogic Policy on Web Services 4-1

5. Verifying Successful Installation 5-1
- 5.1 Steps to Verify Successful Webservices deployment: 5-1
- 5.2 Steps to Verify Successful Interface (Route One) deployment: 5-1

6. Undeployment of Web Services 6-1

7. Enable Logging 7-1
- 7.1 Enabling Web Service Log 7-1
- 7.2 Enabling SQL Log for Web Services Component 7-1

8. Appendix - Configuration parameters A-1

1. Preface

This document contains notes and installation steps needed to install Web Services. 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 Web Services 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 Web Services.

This guide covers the following processes.

1. Installing Web Services Database Objects
2. Deploying Application Interface Web Services
3. Configuring Weblogic Policy on Web Services

1.1 Prerequisites

1. Download and Install the Oracle WebLogic Server 12c Version 12.2.1.0.0 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 Web Services 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 Web Services Database Objects

Download and unzip the the Webservices database - ofsllxws.zip.

Run $ ./installofsllxwsdb.sh

```
[        @ofss220059 /tmp]$ ./installofsllxwsdb.sh
```

This installer adds the required tables and packages to the apllication 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/ofsll): /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 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/ofsll): /scratch/work_area/DEV/OFSLLREL

OFSLLHOME=/scratch/work_area/DEV/OFSLLREL
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
   OFSLL_HOME=/scratch/work_area/DEV/OFSLLREL

   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

```
   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
   OFSLL_HOME=/scratch/work_area/DEV/OFSLLREL

   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
.........
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
```

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/OFSLLREL/logs/ofsll_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 ofsllprd): OFSLLREL

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
```

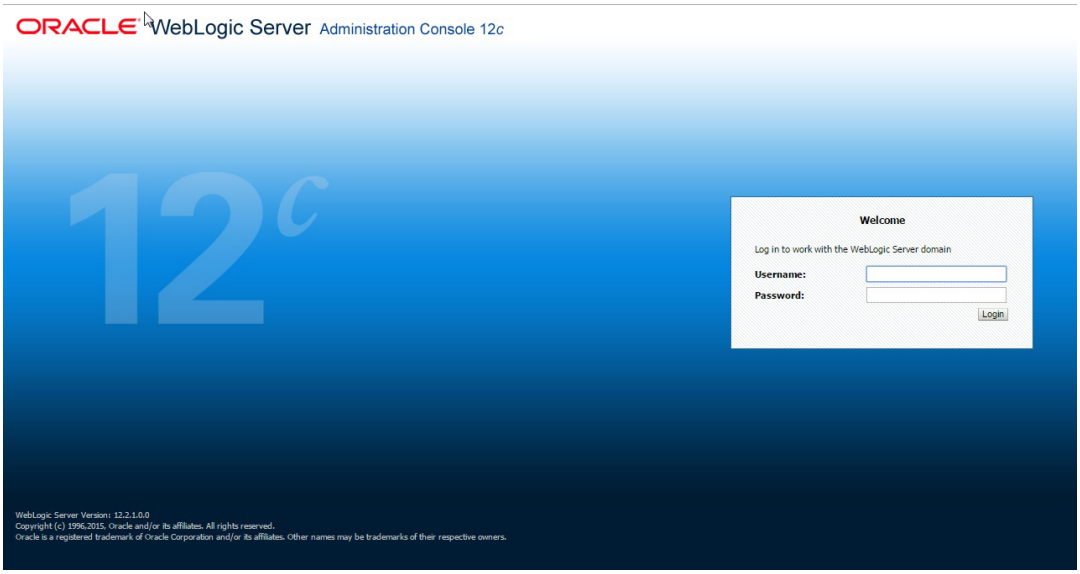
While installing, the script recompiles the invalid objects and completes the installation of DB objects.

3. Deploying Application Interface Web Services

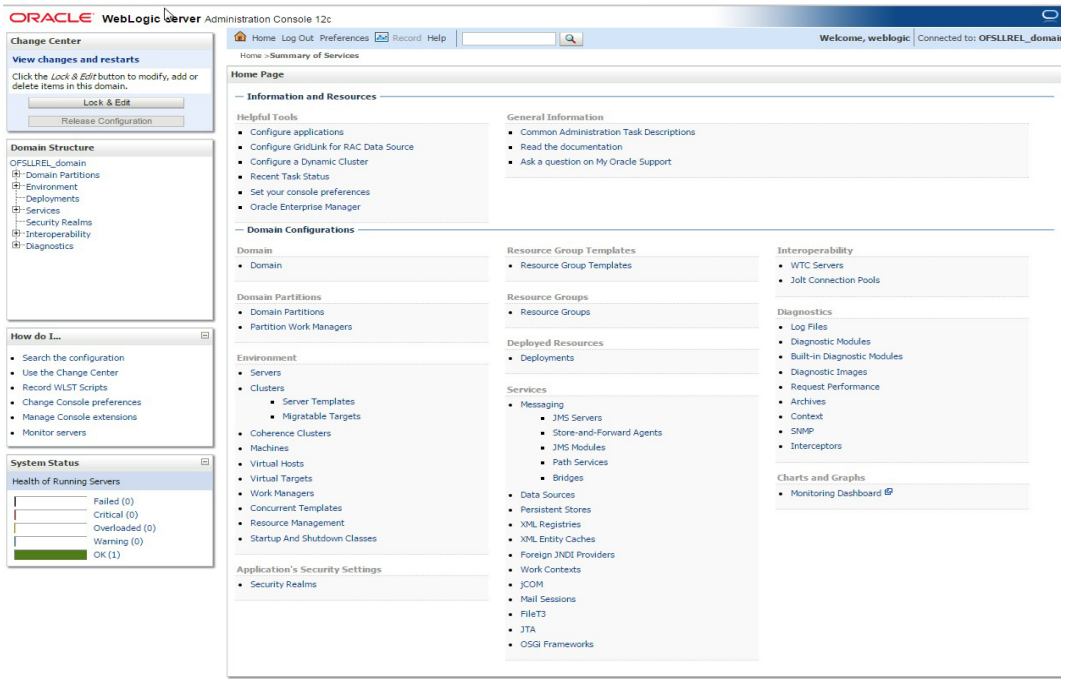
3.1 Creating Data Sources for Web Services

Create a new server on the console which will be specifically for Web Services.

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

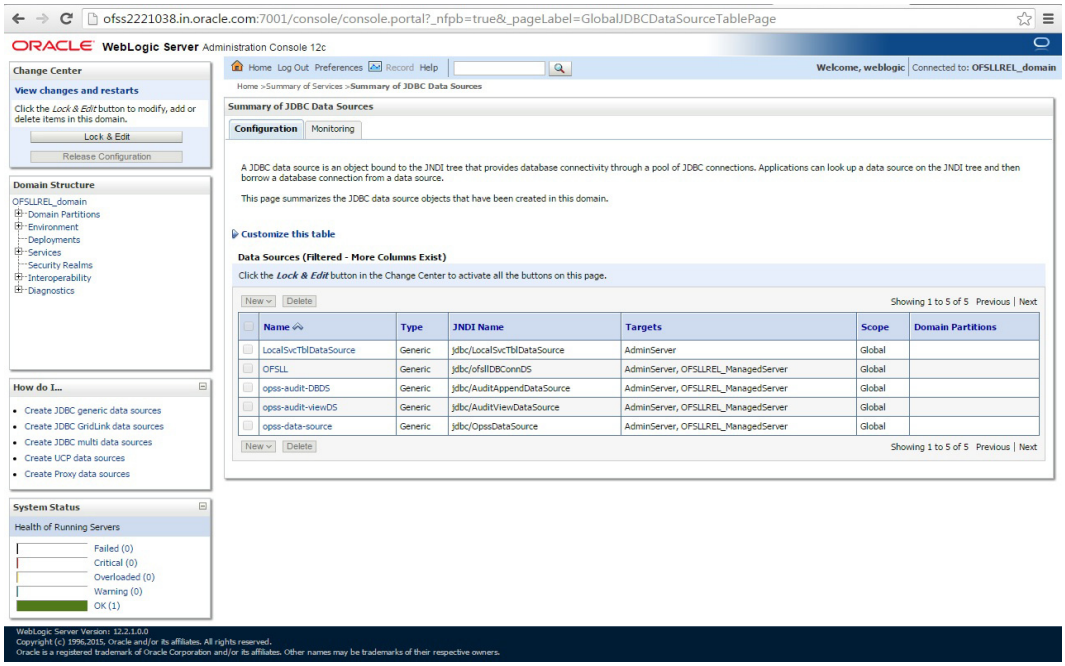


2. The following window is displayed.

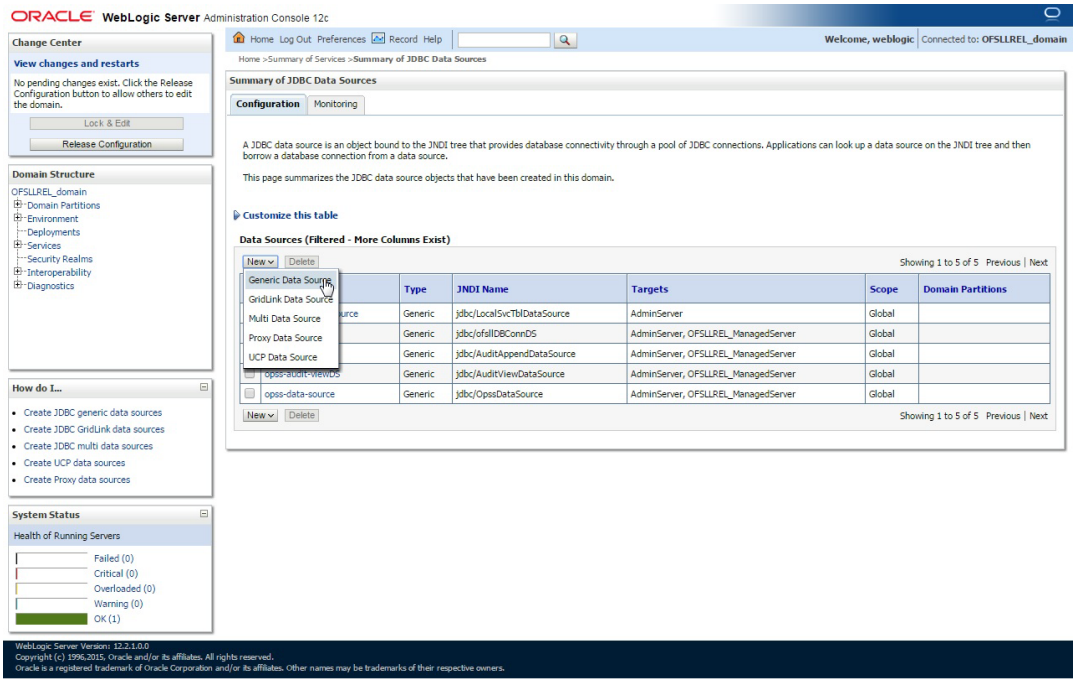


3. Click Domain Name -->Services -->Data Sources.

4. The following window is displayed.

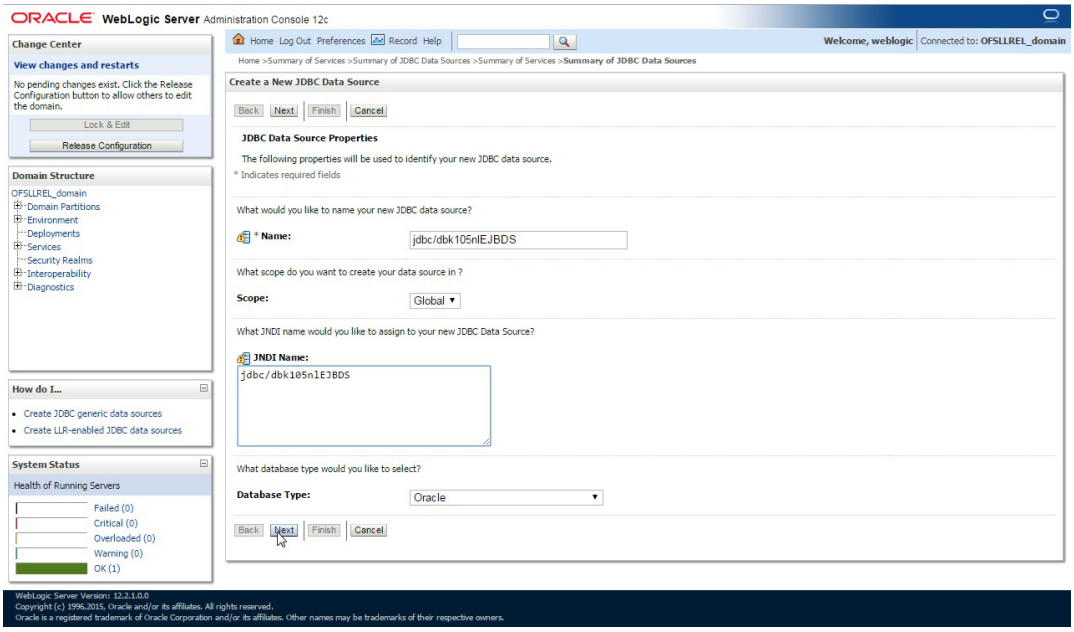


5. Click Lock & Edit button on the left panel. Click on New on right panel and select Generic Data Source.

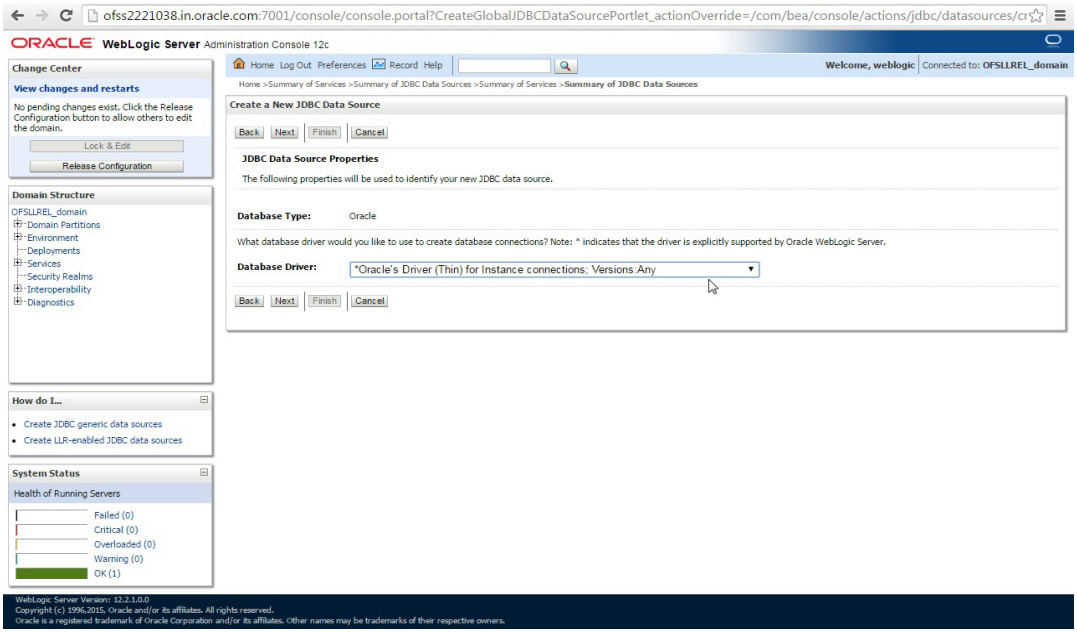


6. Enter Data source Name.
7. Enter JNDI Name as jdbc/dbk105nlEJBDS.

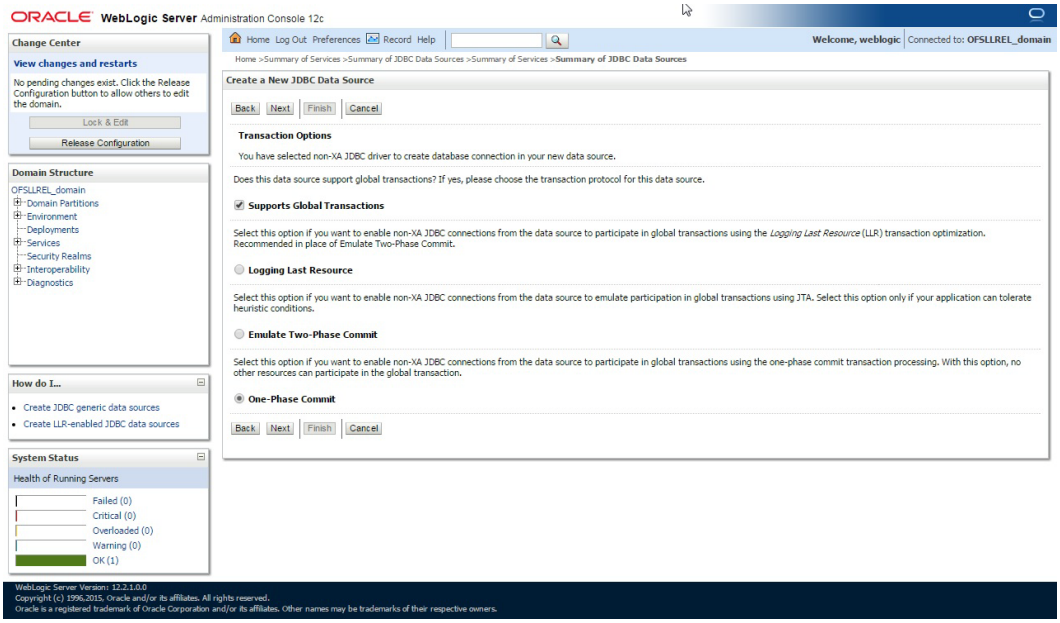
8. Select Oracle as Database Type and click Next.



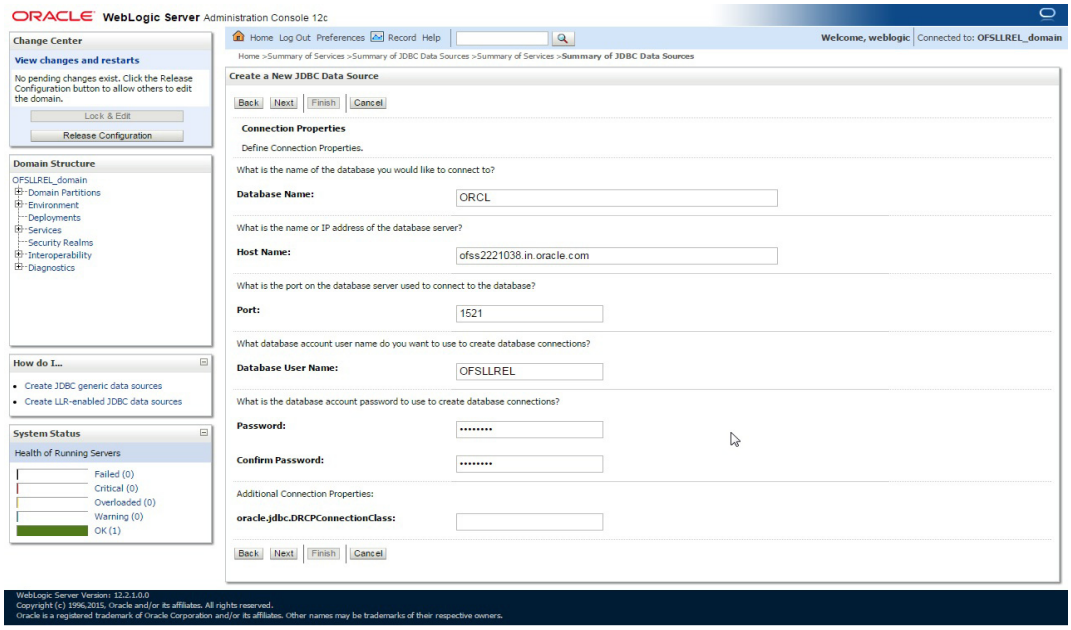
9. The following window is displayed. Select the Database Driver “Oracle's Driver(Thin) for Instance connections;Versions:Any” as shown.



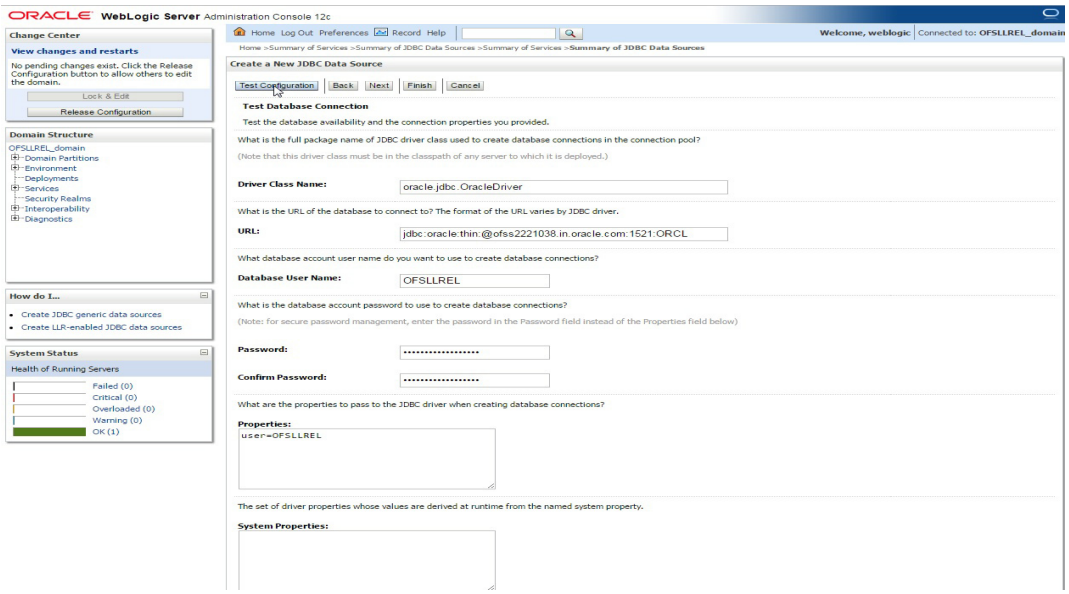
10. Click Next. The following window is displayed.



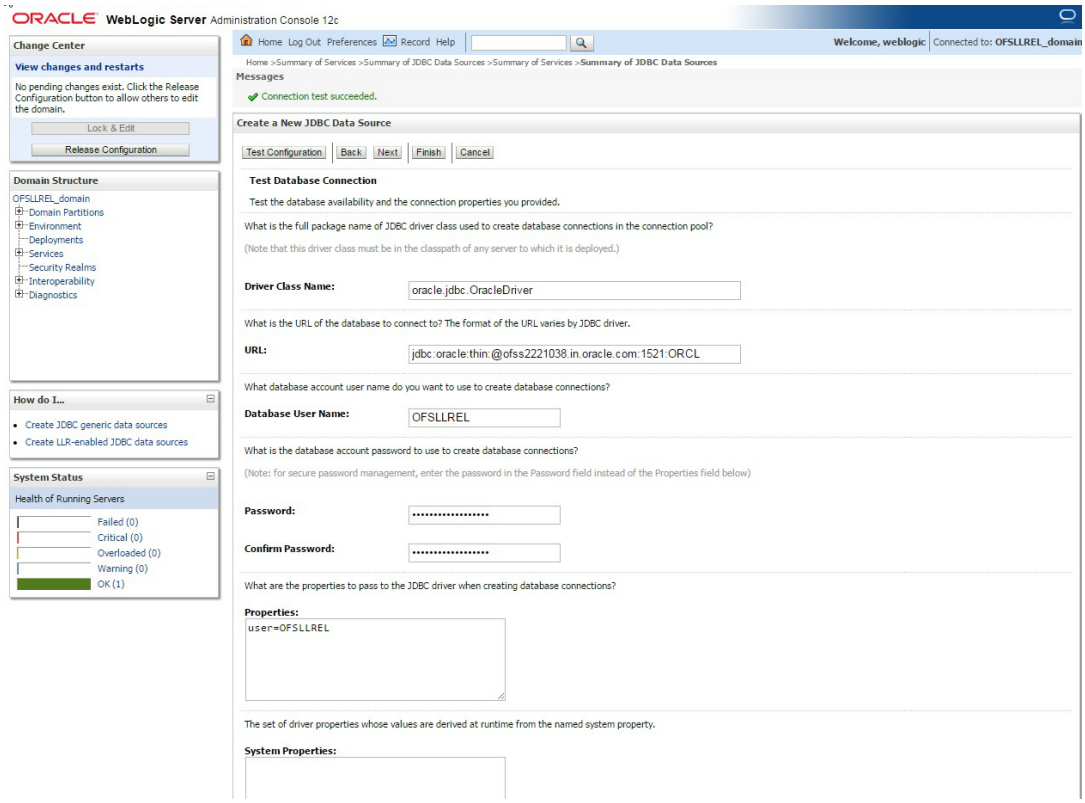
11. Click Next. The following window is displayed.



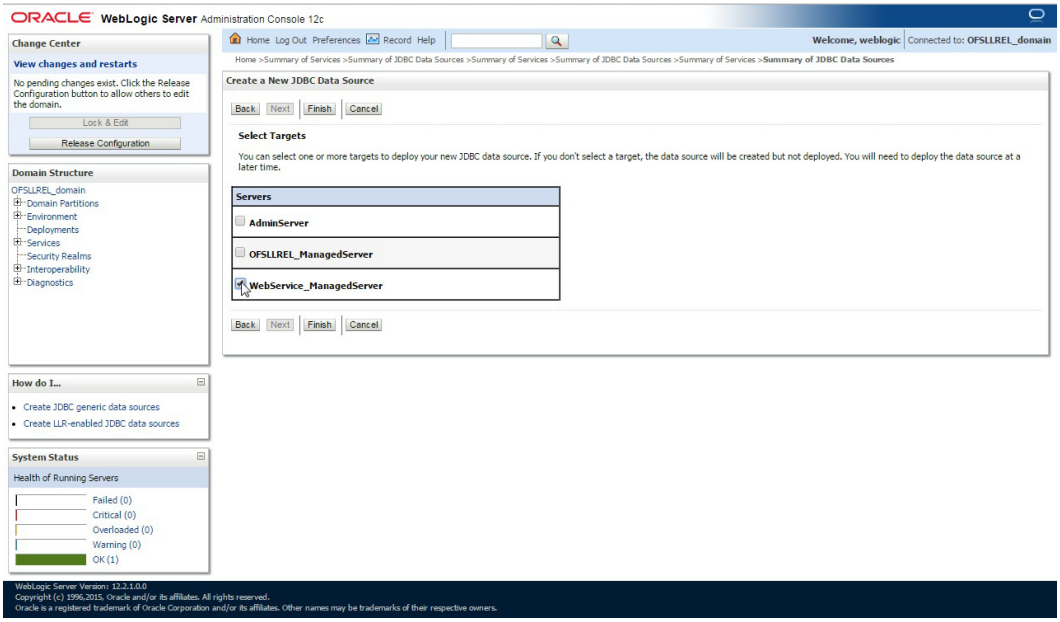
12. Enter Database details click Next. The following window is displayed.



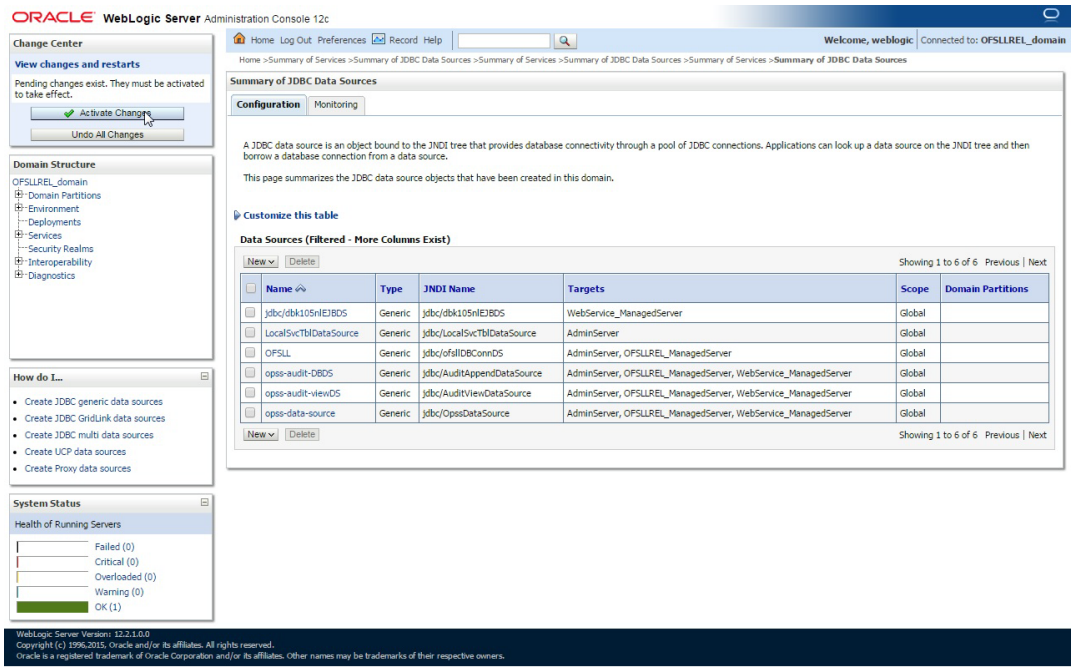
13. Click Test Configuration. The following window is displayed.



14. Displays confirmation message as "Connection test succeeded". Click Next. The following window is displayed.



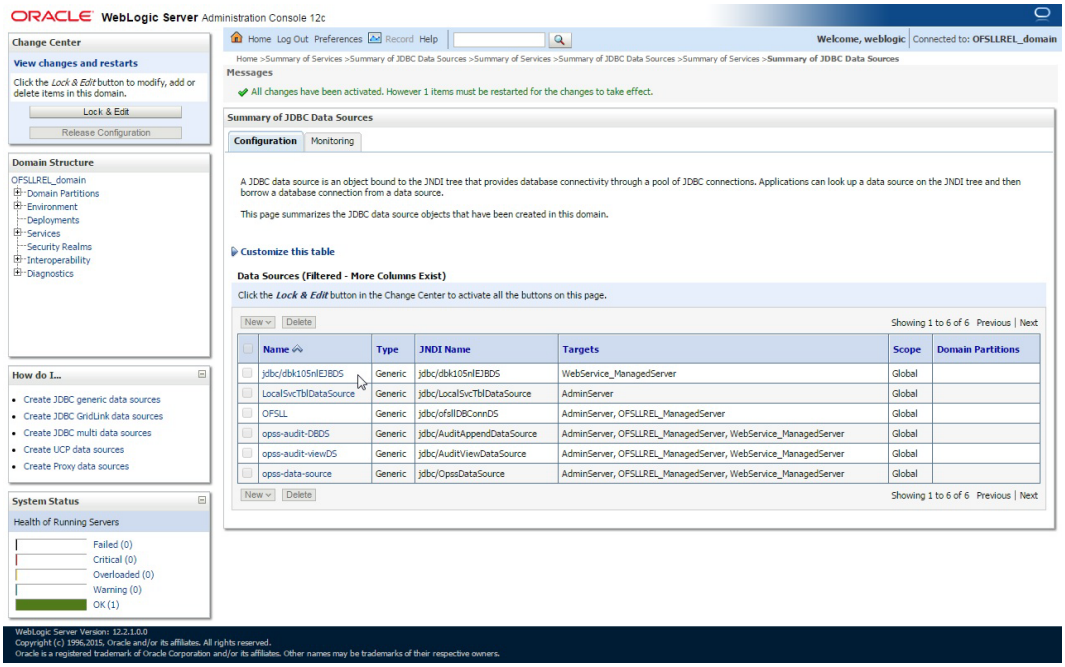
15. Select target Web Services Server and click Finish. The following window is displayed.



16. Click Activate Changes.

Similarly follow the steps 1 - 16 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**.

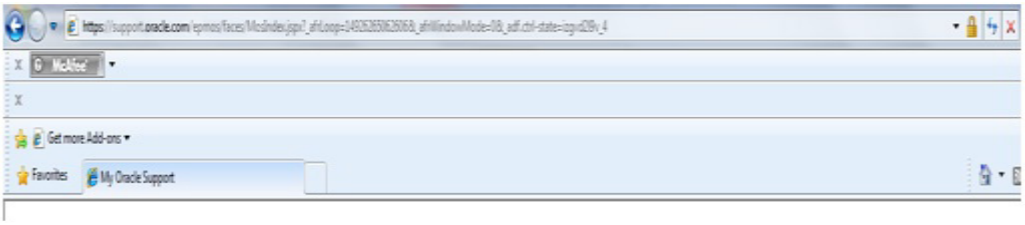
As a fix add the following in the start-up script:

```
Dweblogic.security.SSL.nojce=true
```

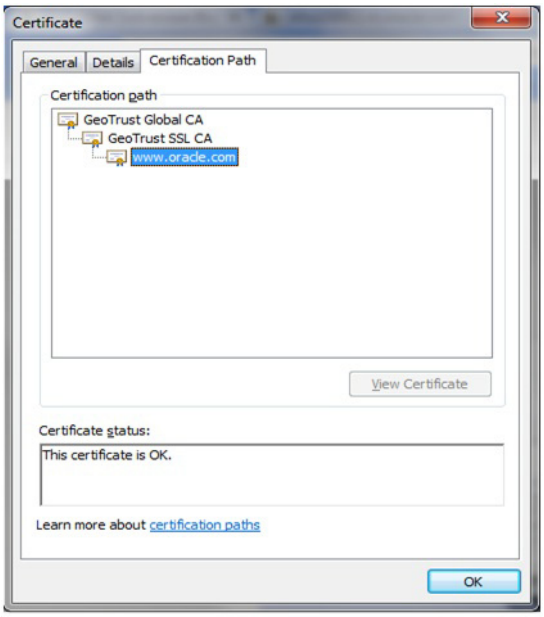
3.2.1 Steps to Import Certificates to keystore

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:

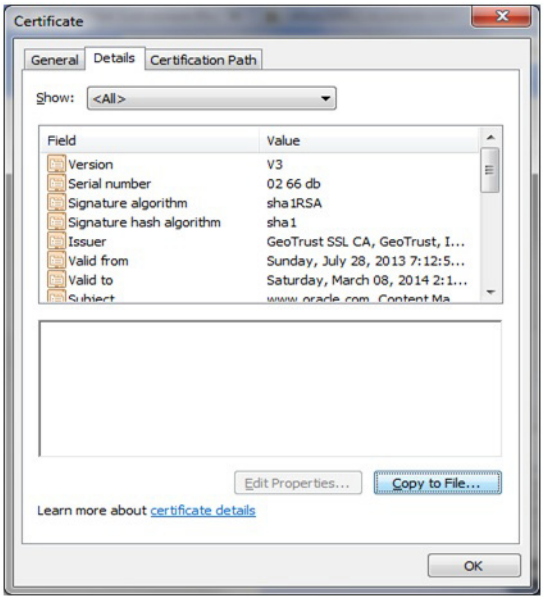
- Click on the padlock and choose "View Certificates".



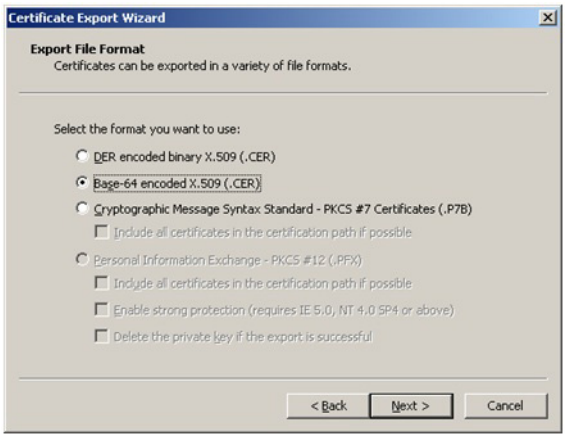
- Click on the Certification Path tab and select the certificate with the "Name" and "Issued To" the same as the user-defined ID.



- Go to the Details tab.



- Click on the "Copy to File" button, and "Next". Choose 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 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 Deploying Webservices

3.3.1 Deployment of Web services in Enterprise Manager

1. Download and unzip the Web services - ofsllxws.zip.

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**
DialerIntegrator: Service to integrate with third party dialer systems	**DT Interface**: To receive loan application from dealer track	**DS Interface**: To receive edocs application update	**RO Interface**: To receive loan application from route one
CSSAccountDetailsRequestService: Service to fetch Account Details by account number	**DT Interface**: To receive loan application/deal update from dealer track	**DS Interface**: To receive edocs comment update	**RO Interface**: To receive loan application/deal refresh from route one
CSSAccountSearchRequestService: Service to fetch Account Details by attributes such as AccountNumber, CustomerFirstName, CustomerLastName, SSN	**DT Interface**: To receive comments from dealer track	**DS Interface**: To receive edocs location update	**RO Interface**: To receive comments from route one
CSSPostTransactionsRequestService: To post different transactions such as update address, update phone number, update ACH details, etc	**LOSPostStatusRequestService**: To post comments to dealer track		**LOSPostStatusRequestService**: To post comments to route one

CSSAccountPayOffQuoteRequestService: To get the account payoff quote	**LOSPostStatusRequestService**: To post application status to dealer track		**LOSPostStatusRequestService**: To post application status to route one
LOSeApplicationRequestService:Edocs application update service	**ILOSPostDealerDetailsService**: To post dealer details to dealer track		**ILOSPostDealerDetailsService**: To post dealer details to dealer track
LOSApplicationRequestService: Loan application entry service			
LOSApplicationSearchRequestService: Application Search service			
LOSApplicationSearchRequestService: Application Search service			
LOSApplicationCommentUpdateService: Edocs application comment update service			
LOSPostStatusRequestService: Service to post loan application status			
LOSApplicationUpdateService: Service to update an existing application			
LOSCheckStatusRequestService: Service to check application status			
LOSApplicationAccountWebService: Service to create Account number in OFSLL			

2. 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

```
[orafmw@ofss220067 tmp]$ unzip ofsllxws.zip -d ofsllxws
Archive:  ofsllxws.zip
  inflating: ofsllxws/dbkls-xxws.ws.app-ds.ear
  inflating: ofsllxws/dbkls-xxws.ws.app-dt.ear
  inflating: ofsllxws/dbkls-xxws.ws.app-ro.ear
  inflating: ofsllxws/dbkls-xxws.ws.app.ear
[orafmw@ofss220067 tmp]$ cd ofsllxws
[orafmw@ofss220067 ofsllxws]$ ls
dbkls-xxws.ws.app-ds.ear  dbkls-xxws.ws.app-dt.ear  dbkls-xxws.ws.app.ear  dbkls-xxws.ws.app-ro.ear
[orafmw@ofss220067 ofsllxws]$ 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
[orafmw@ofss220067 ofsllxws]$ cd dbkls-xxws.ws.app-ds
[orafmw@ofss220067 dbkls-xxws.ws.app-ds]$ ls
dbkls-xws-web-ds.war  META-INF
[orafmw@ofss220067 dbkls-xxws.ws.app-ds]$ 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/utils/
   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/
```

3. Open each of the unzipped files and unzip the war file.

```
[orafmw@ofss220067 ws_as]$ 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 ofsllxws.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
[orafmw@ofss220067 ws_as]$ cd dbkls-xxws.ws.app
[orafmw@ofss220067 dbkls-xxws.ws.app]$ ls
dbkls-xws-web.war  META-INF
[orafmw@ofss220067 dbkls-xxws.ws.app]$ 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/utils/
   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/
```

4. It creates a WEB-INF file

```
[orafmw@ofss220067 dbkls-xxws.ws.app]$ 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)

- commons-logging-1.0.4.jar

- jdom 2.0.4.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

5. 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 OFSLL eDocs web service

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

LOSApplicationCommentUpdateServiceURL = http://<localhost>:<port>/dbkls-xws-app-ds/LOSApplicationCommentUpdateService

LOSApplicationLocationUpdateServiceURL = http://<localhost>:<port>/dbkls-xws-app-ds/LOSApplicationLocationUpdateService

#### URL for OFSLL application update web service
```

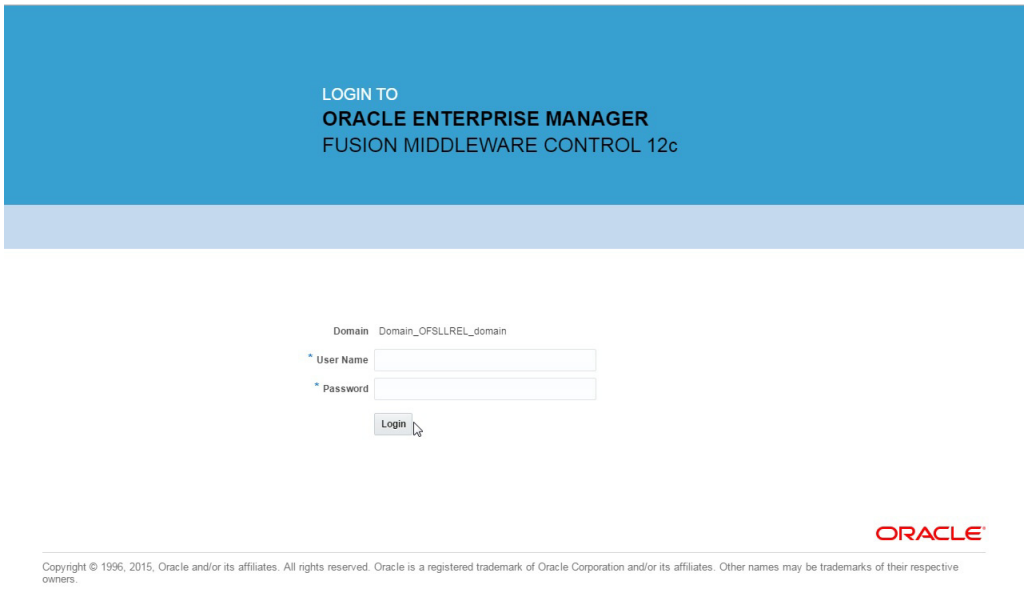
- dt_servlet_init.conf- This is the configuration file only for dealer track servlet interface

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

LOSApplicationRequestServiceURL = http://<localhost>:<port>/dbkls-xws-app-dt/LOSApplicationRequestService


#### URL for OFSLL application update web service

LOSApplicationUpdateServiceURL = http://<localhost>:<port>/dbkls-xws-app-dt/LOSApplicationUpdateService
```

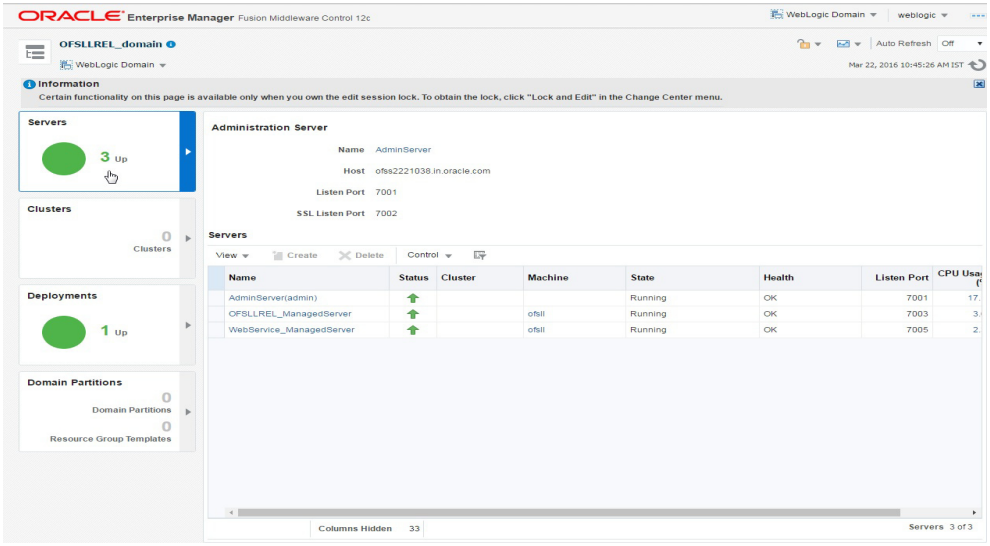
- ro_servlet_init.conf- This is the configuration file only for route one servlet interface

```
#### 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
```

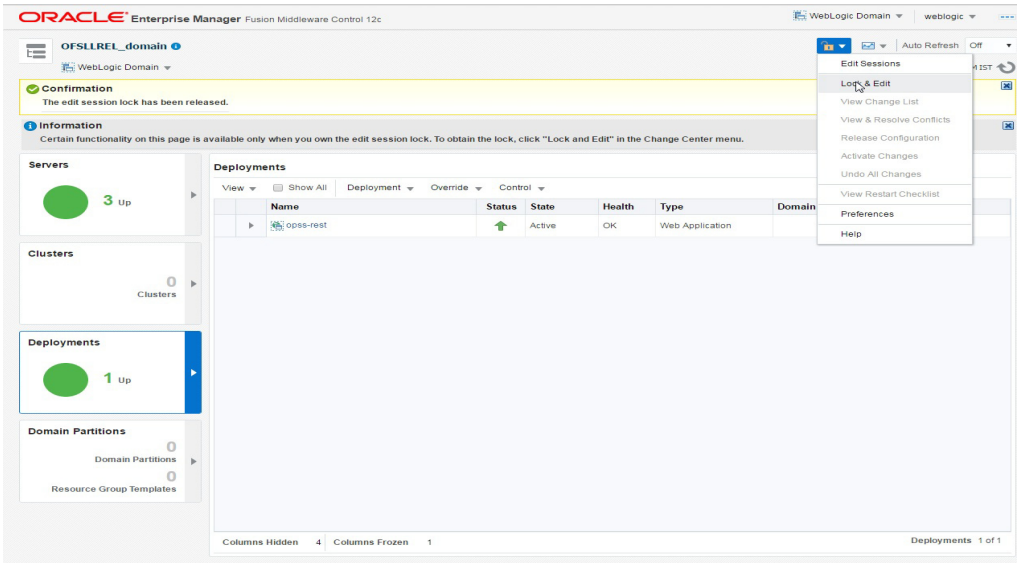
6. Login to Web Logic application server enterprise manager (e.g.: http://hostname:port/em)



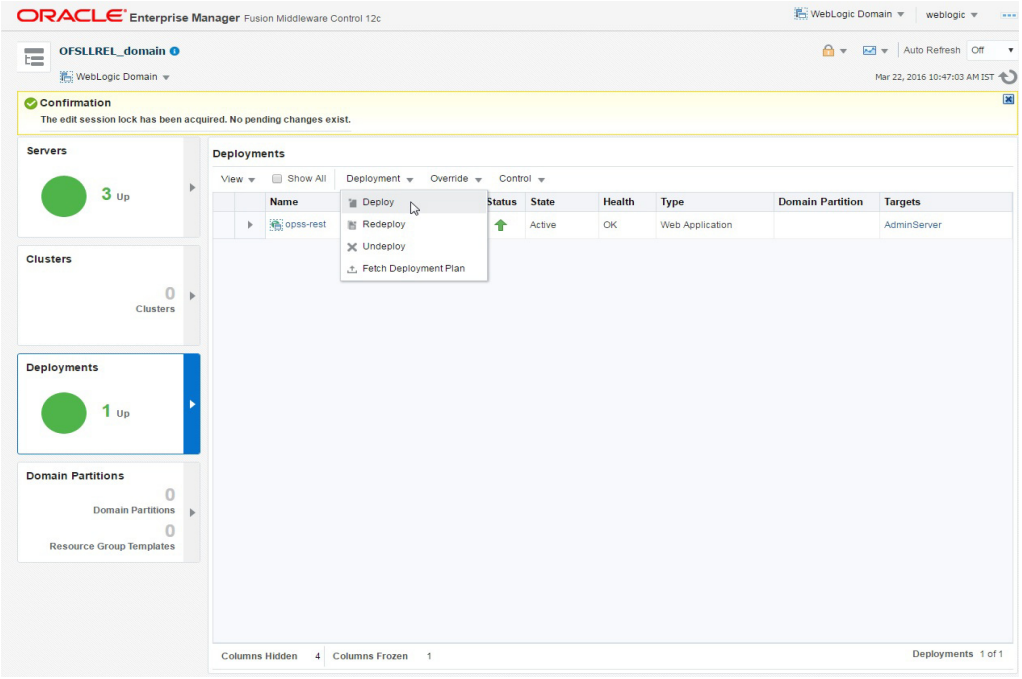
7. Enter valid login credentials. The following window is displayed.



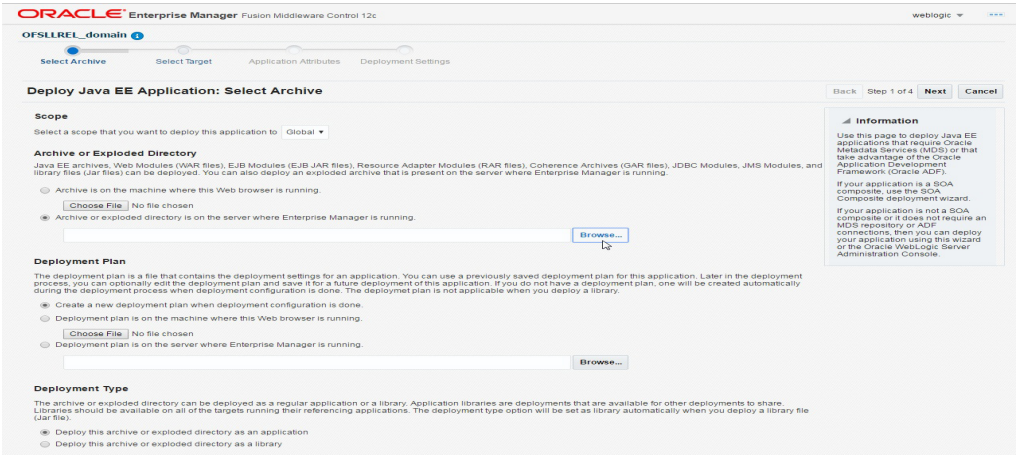
8. Expand the weblogic domain present in the left pane. The following window is displayed.



9. Right click on WebService_ManagedServer in left panel, select Application Deployment->Deploy.



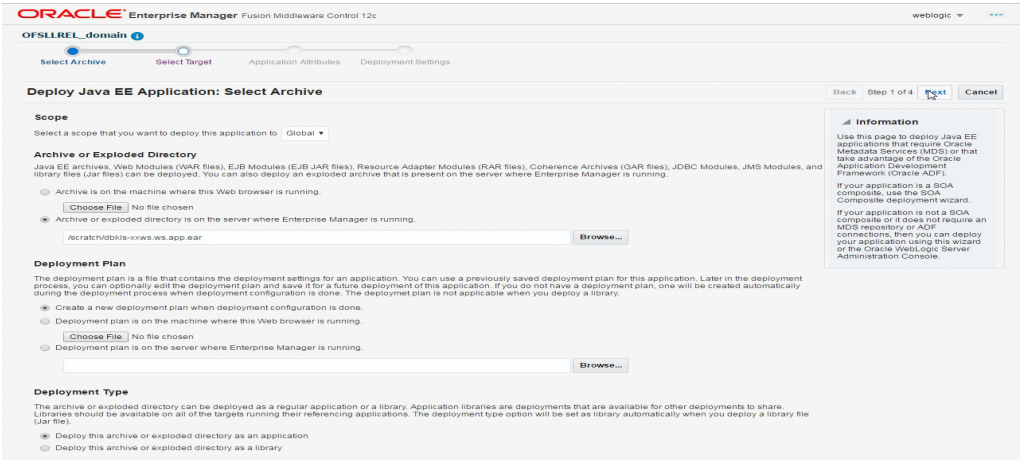
10. The following window is displayed.



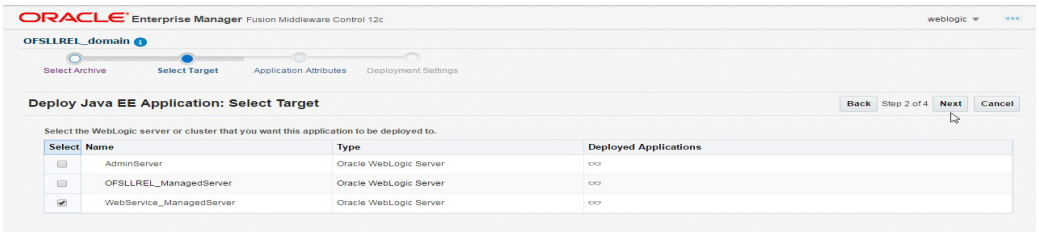
11. Browse to the folder containing the web service.

    Eg: /scratch/ofsllxws/dbkls-xxws.ws.app

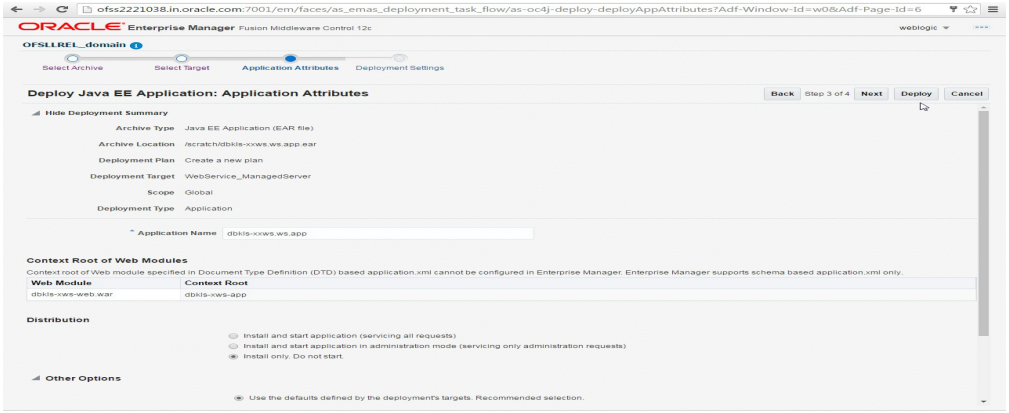
Click on Next.



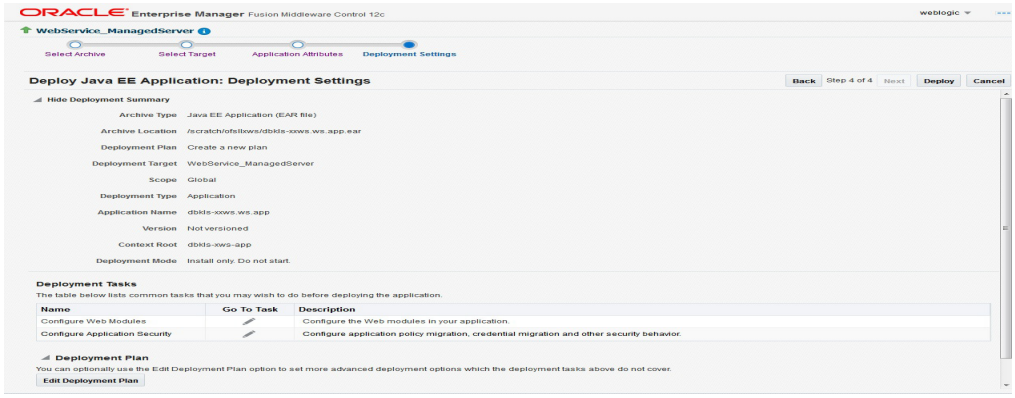
12. The following window is displayed. Select the server on which the web service needs to be deployed. Click on Next.



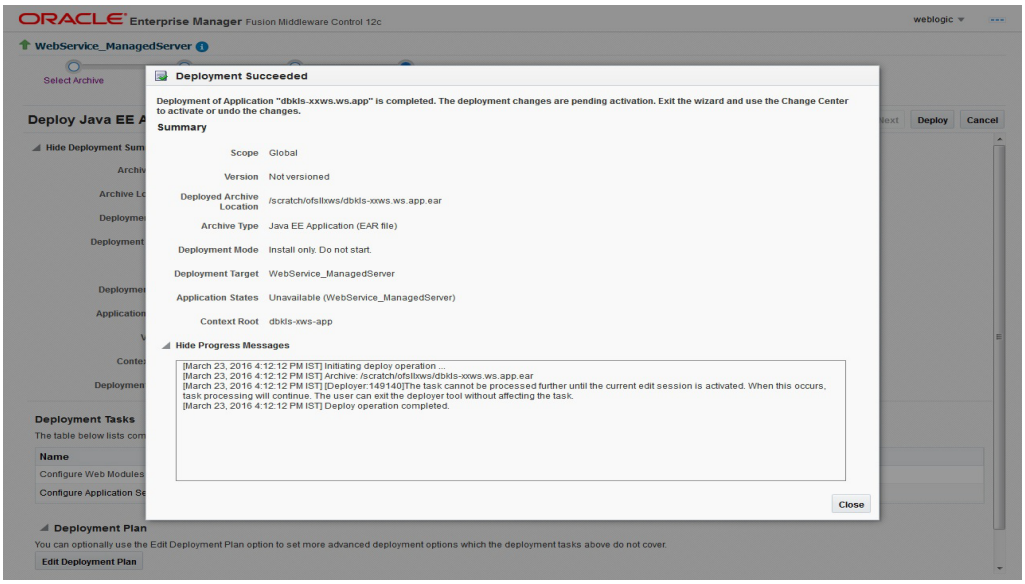
13. The following window is displayed. Check the context root and click on Next.



14. The following window is displayed. Click on Deploy.



15. The following window is displayed. Click on close.



16. If required, similarly deploy rest of the web services.
17. In case the context root has to be changed for the web services, 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).
18. 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

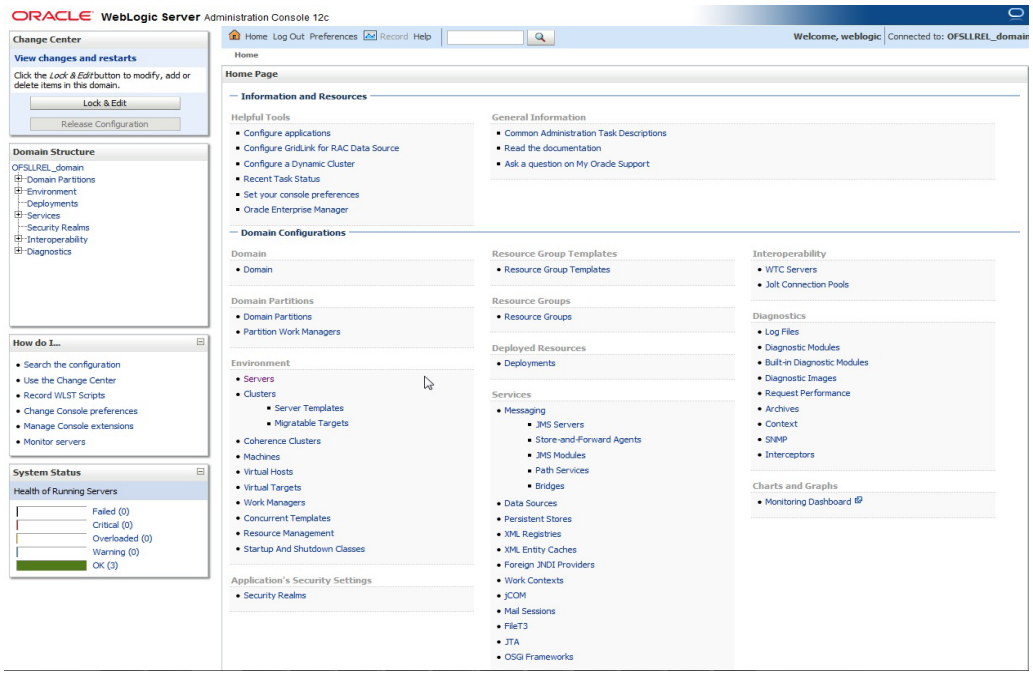
19. Ensure that the application status is **Active**.

4. Configuring Weblogic Policy on Web Services

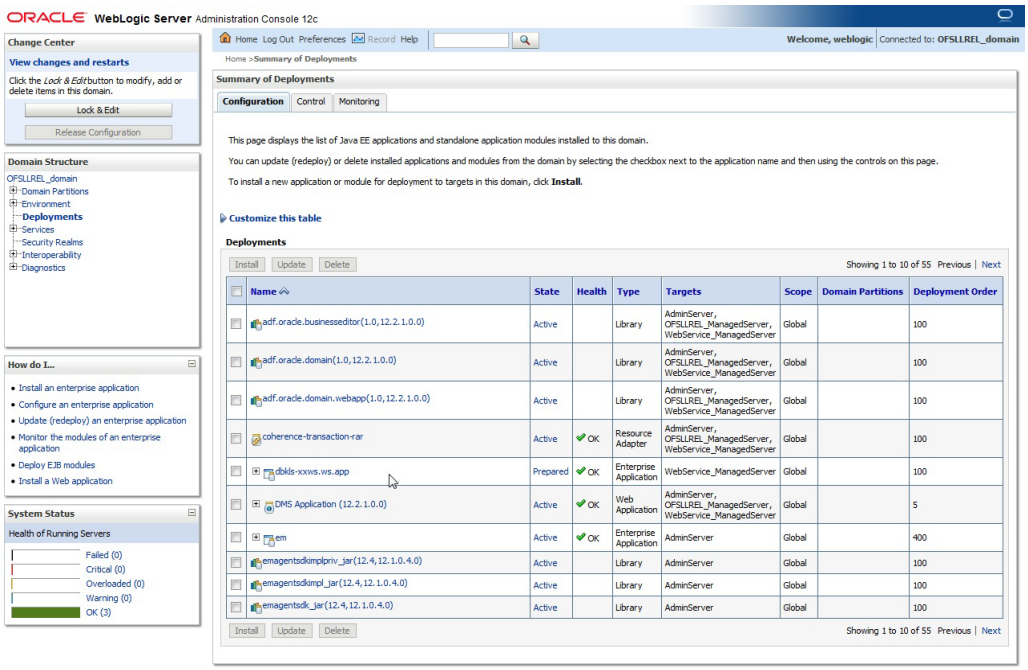
After deploying Web Services, you must configure Weblogic Policy on Web Services.

To configure:

1. Login to WebLogic application server console (http://hostname:port/console)
2. Following screen will be shown.

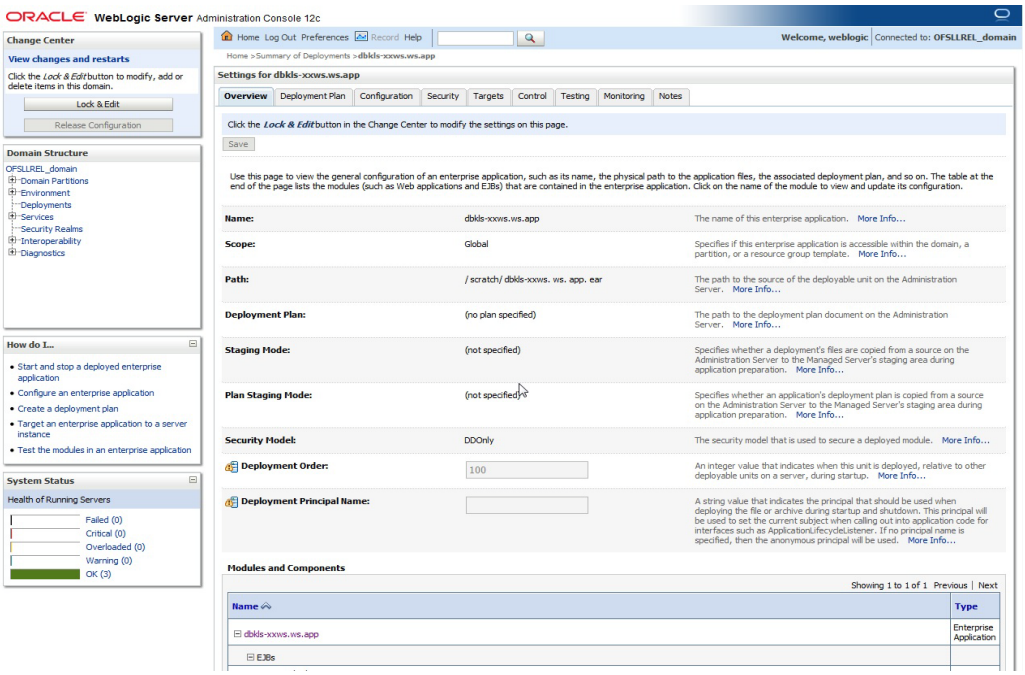


3. Click Deployments which is available on both side panels as marked above.
4. Following screen will be shown.

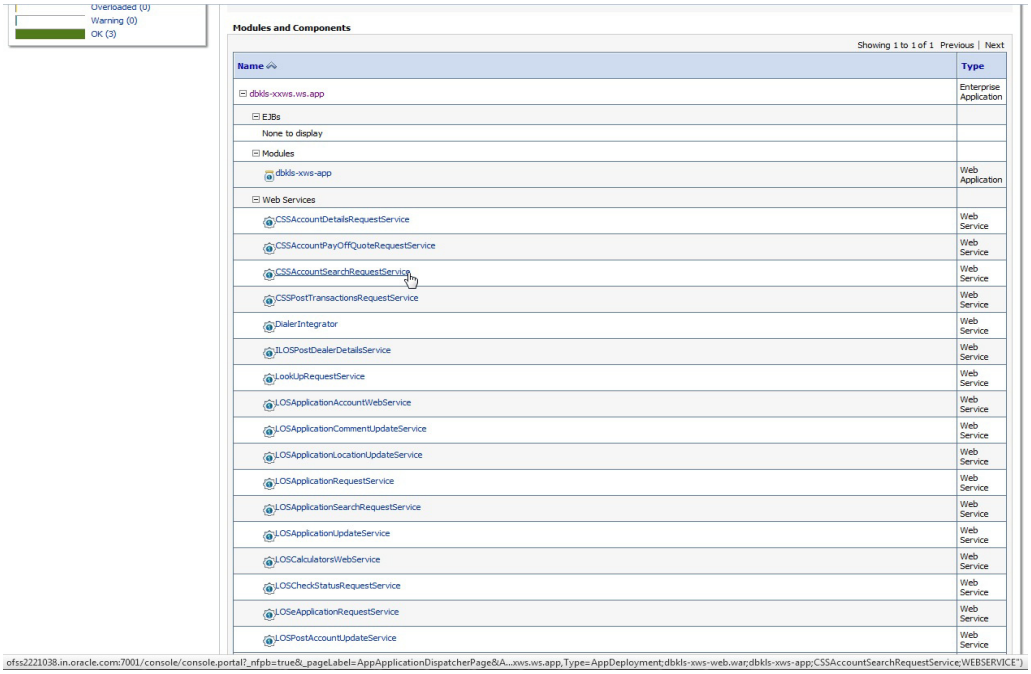


5. Click on application name dbkls-xws-app on right side panel.

6. Following screen appears.

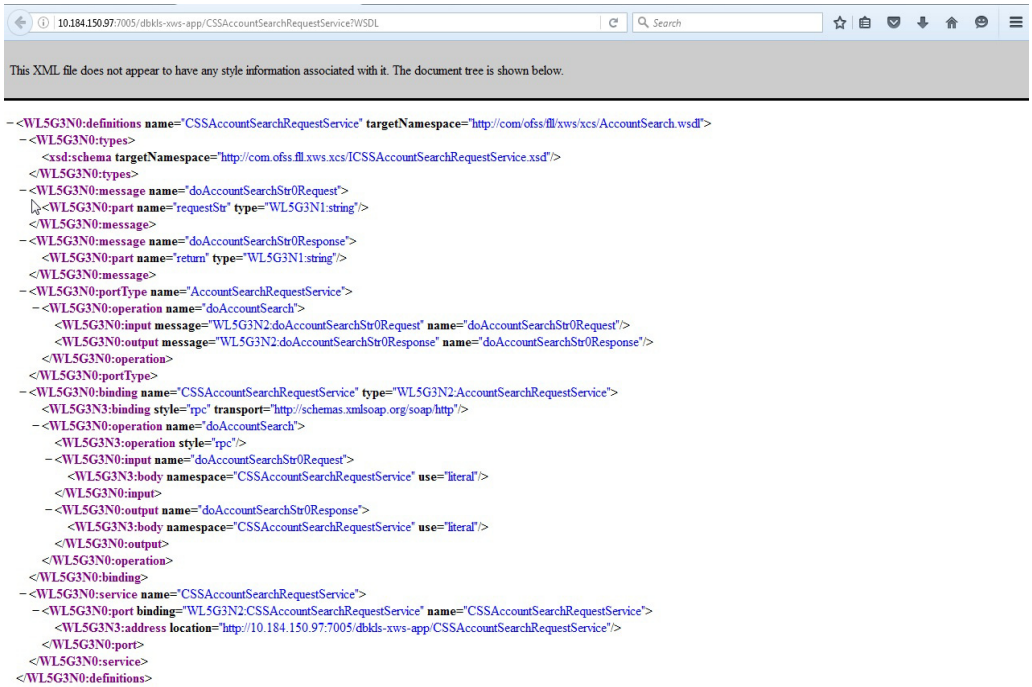


7. Scroll down the page.

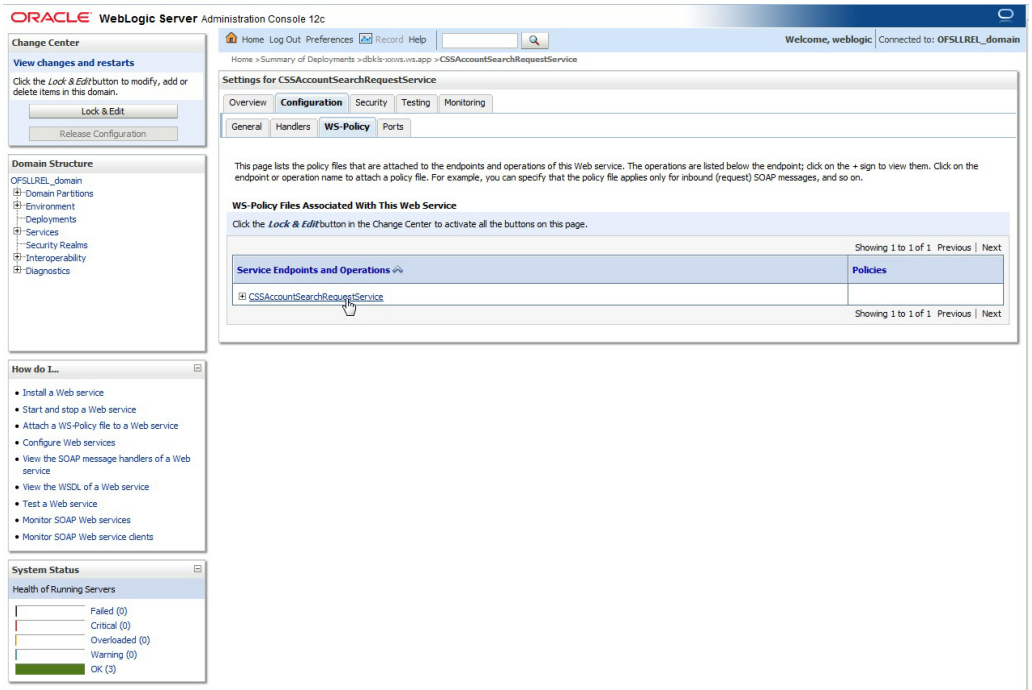


8. Click on WebServices CSSAccountSearchRequestService.

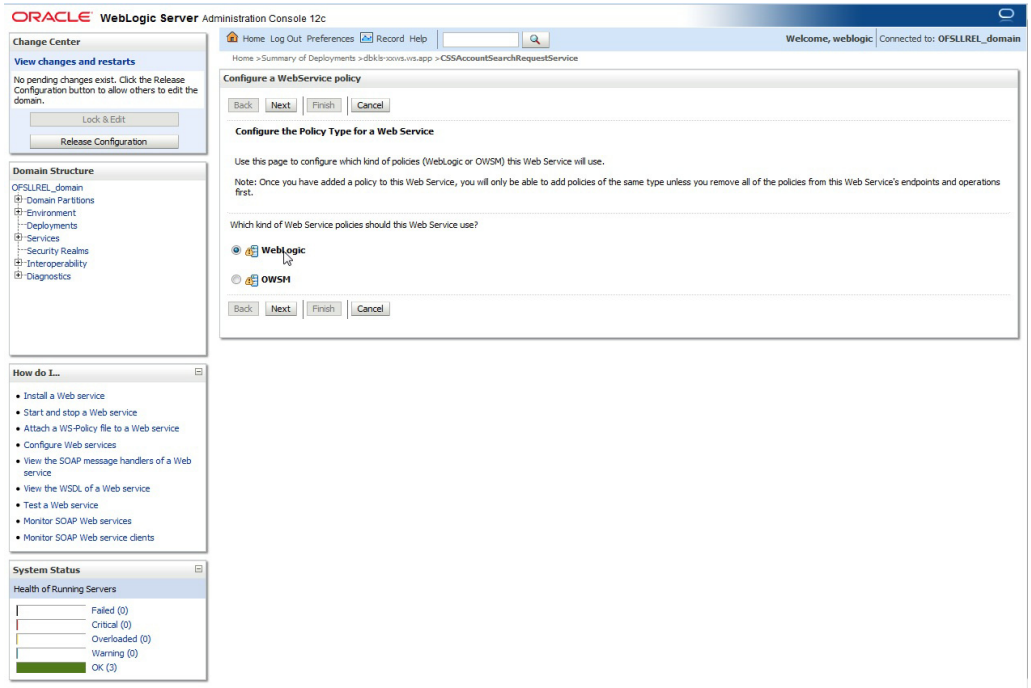
9. The WSDL will be accessible on http before applying WS-Policy.



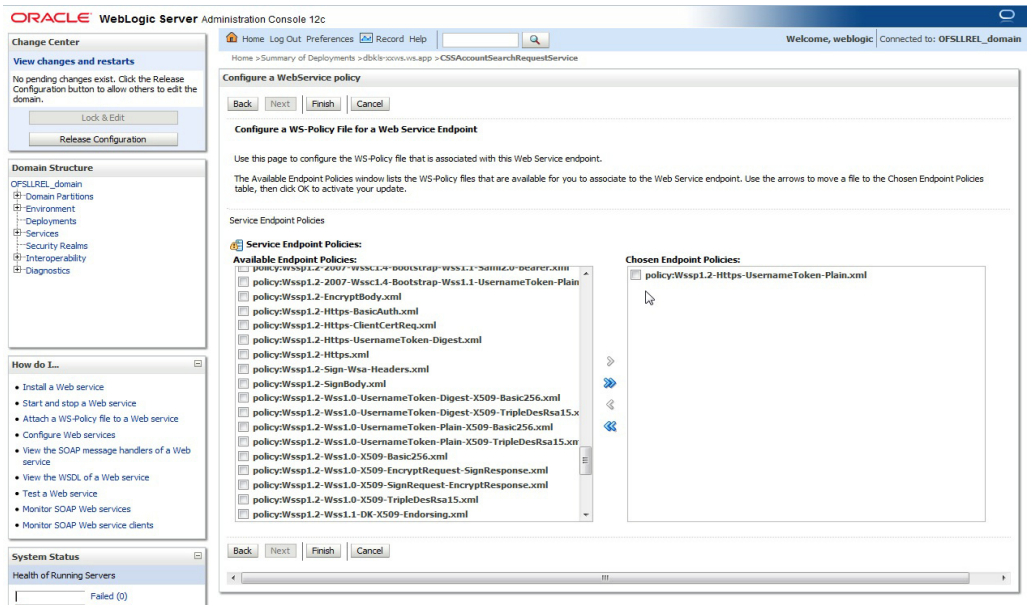
10. Browse to Configuration ' WS-Policy



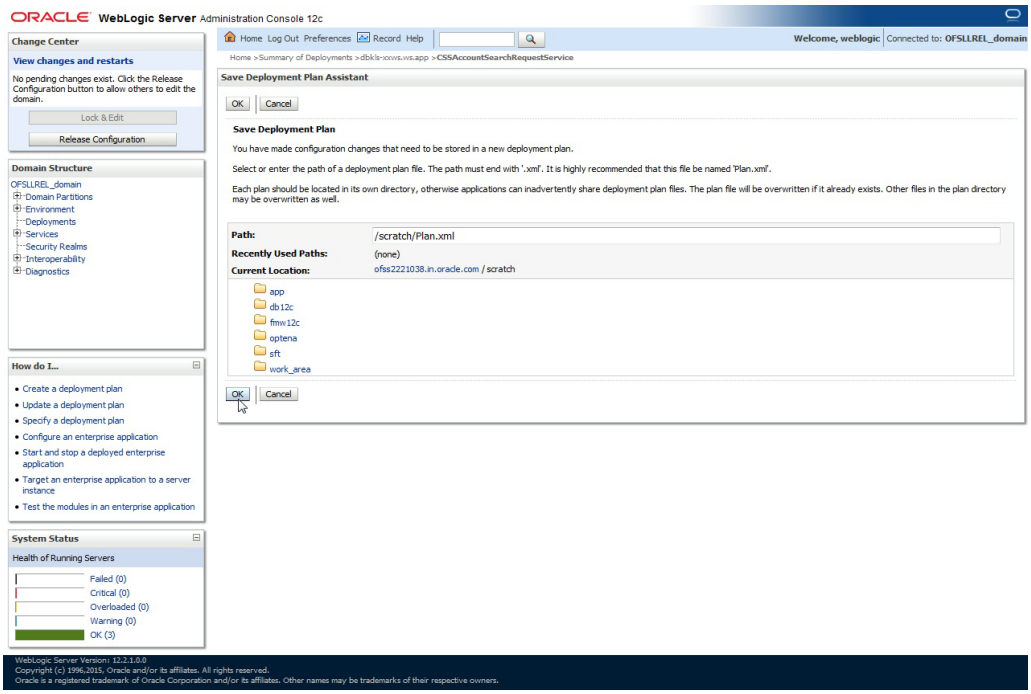
11. Click on CSSAccountSearchRequestService.



12. Select policy:Wssp1.2-Https-UsernameToken-Plain.xml and click arrow button as shown above.

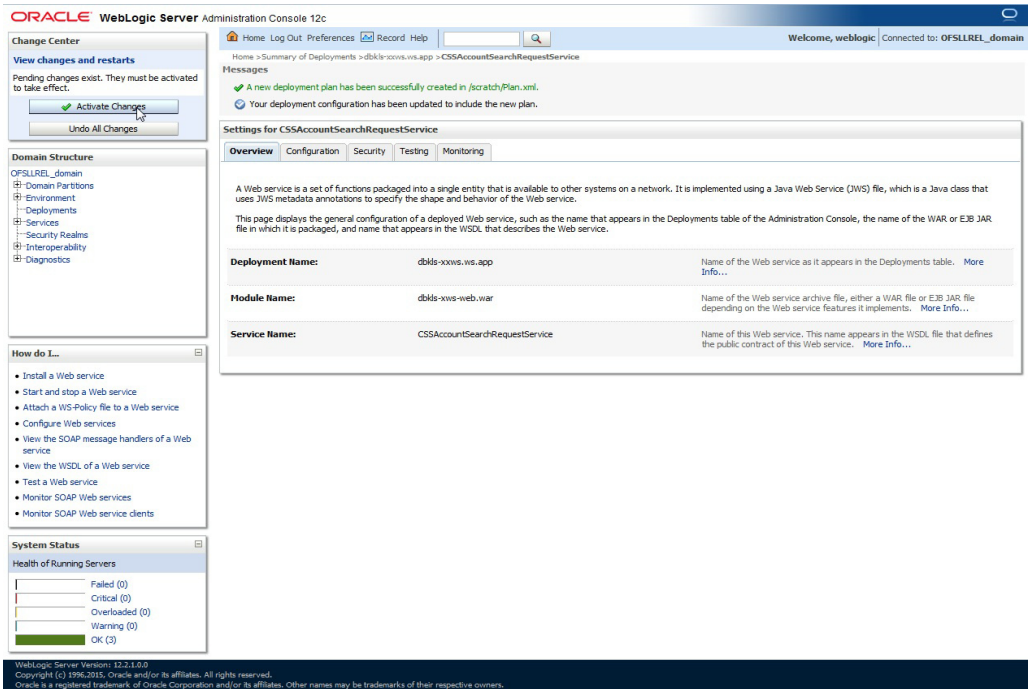


13. Click OK.



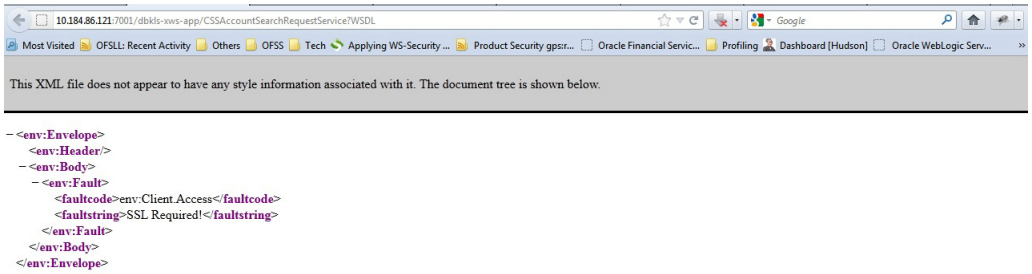
14. Browse to any folder to save Deployment Plan.

15. Then Click OK.



16. Now you will be not able to access the WSDL on http port.

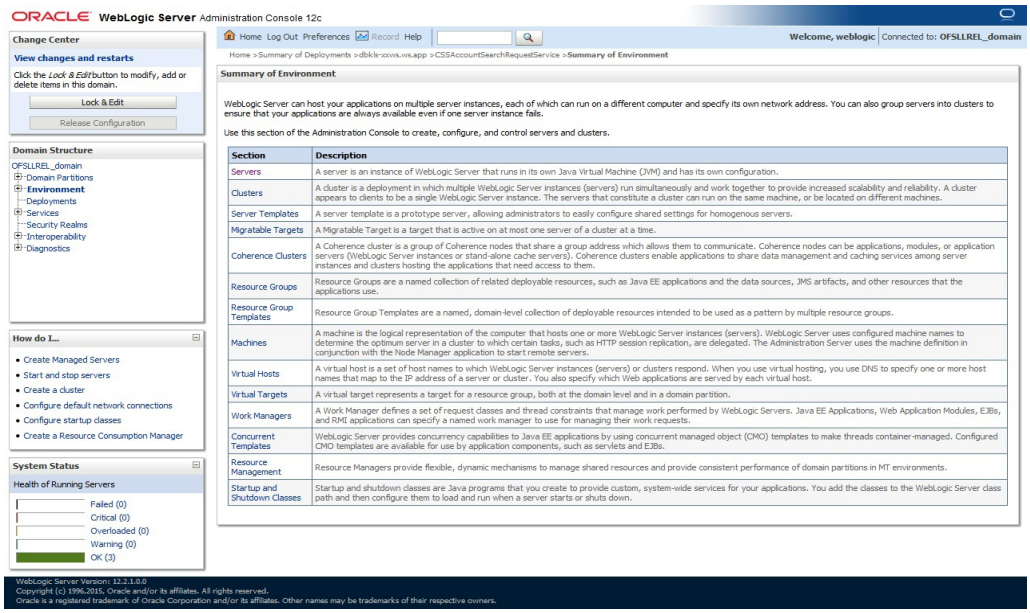
17. Following message will be shown when you access with http URL.



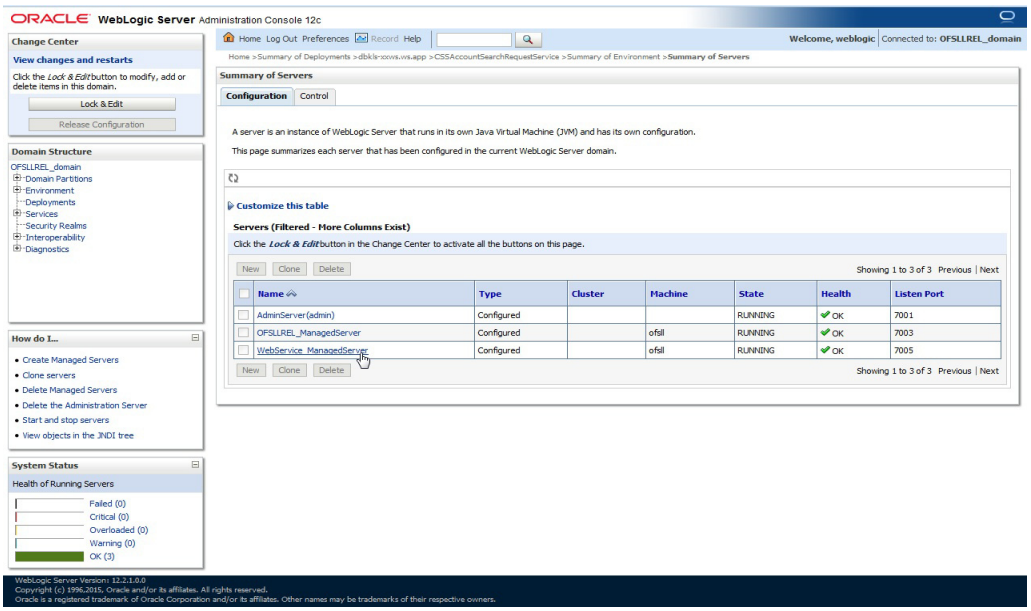
For SSL communication, the vendor servers seek public certificates. Hence, you need to download the certificates from vendor website and import into your java keystore.

You then need to configure Weblogic to present the certificates to vendor servers for successful handshake.

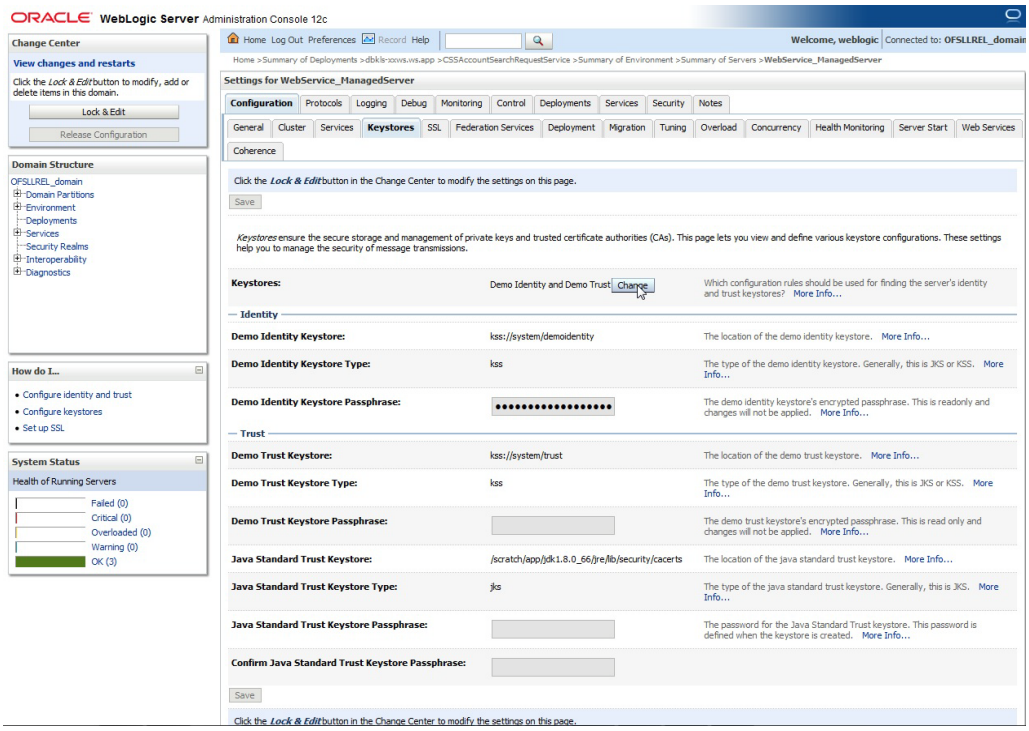
18. Select the environment on the left pane. The following window is displayed.



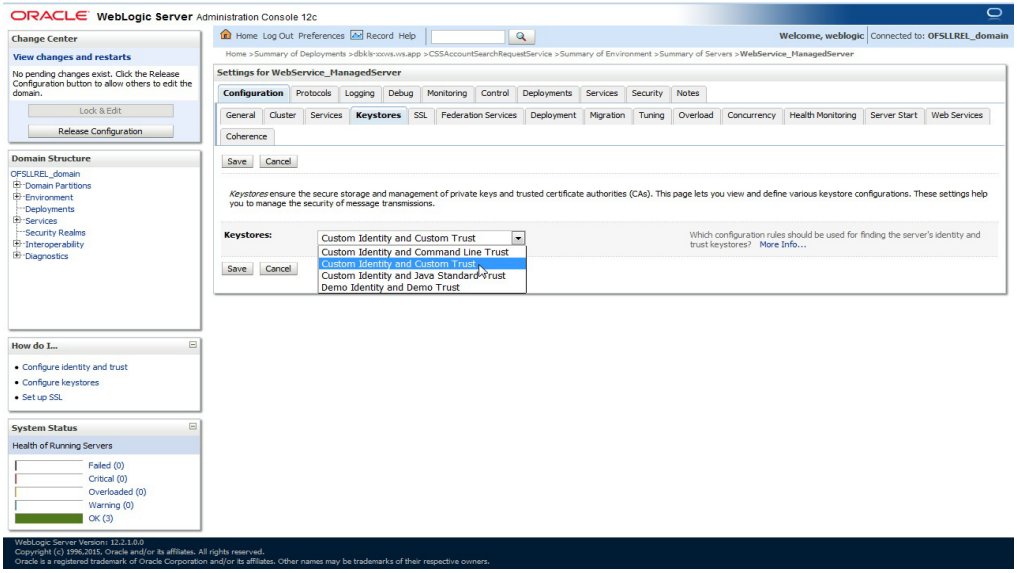
19. Click **Servers**



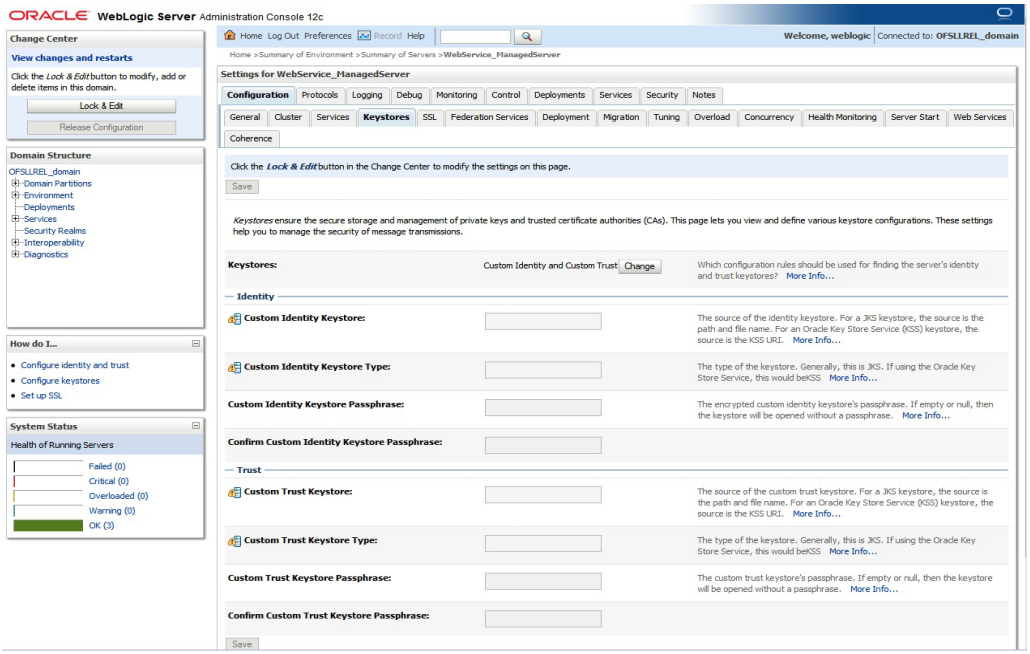
20. Select the Server into which the webservices are deployed.



21. Select **Keystores**.



22. 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 Passpharses: keystore password

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

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


```
- <WL5G3N0:definitions name="CSSAccountSearchRequestService" targetNamespace="http://com/ofss/fll/xws/xcs/AccountSearch.wsdl">
  - <WL5G3N0:types>
      <xsd:schema targetNamespace="http://com.ofss.fll.xws.xcs/ICSSAccountSearchRequestService.xsd"/>
    </WL5G3N0:types>
  - <WL5G3N0:message name="doAccountSearchStr0Request">
      <WL5G3N0:part name="requestStr" type="WL5G3N1:string"/>
    </WL5G3N0:message>
  - <WL5G3N0:message name="doAccountSearchStr0Response">
      <WL5G3N0:part name="return" type="WL5G3N1:string"/>
    </WL5G3N0:message>
  - <WL5G3N0:portType name="AccountSearchRequestService">
    - <WL5G3N0:operation name="doAccountSearch">
        <WL5G3N0:input message="WL5G3N2:doAccountSearchStr0Request" name="doAccountSearchStr0Request"/>
        <WL5G3N0:output message="WL5G3N2:doAccountSearchStr0Response" name="doAccountSearchStr0Response"/>
      </WL5G3N0:operation>
    </WL5G3N0:portType>
  - <WL5G3N0:binding name="CSSAccountSearchRequestService" type="WL5G3N2:AccountSearchRequestService">
      <WL5G3N3:binding style="rpc" transport="http://schemas.xmlsoap.org/soap/http"/>
    - <WL5G3N0:operation name="doAccountSearch">
        <WL5G3N3:operation style="rpc"/>
      - <WL5G3N0:input name="doAccountSearchStr0Request">
          <WL5G3N3:body namespace="CSSAccountSearchRequestService" use="literal"/>
        </WL5G3N0:input>
      - <WL5G3N0:output name="doAccountSearchStr0Response">
          <WL5G3N3:body namespace="CSSAccountSearchRequestService" use="literal"/>
        </WL5G3N0:output>
      </WL5G3N0:operation>
    </WL5G3N0:binding>
  - <WL5G3N0:service name="CSSAccountSearchRequestService">
    - <WL5G3N0:port binding="WL5G3N2:CSSAccountSearchRequestService" name="CSSAccountSearchRequestService">
        <WL5G3N3:address location="http://10.184.150.97:7005/dbkls-xws-app/CSSAccountSearchRequestService"/>
      </WL5G3N0:port>
    </WL5G3N0:service>
  </WL5G3N0:definitions>
```

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

1. CSSAccountDetailsRequestService
2. CSSAccountPayOffQuoteRequestService
3. CSSAccountSearchRequestService
4. CSSPostTransactionsRequestService

5. Verifying Successful Installation

5.1 Steps to Verify Successful Webservices deployment:

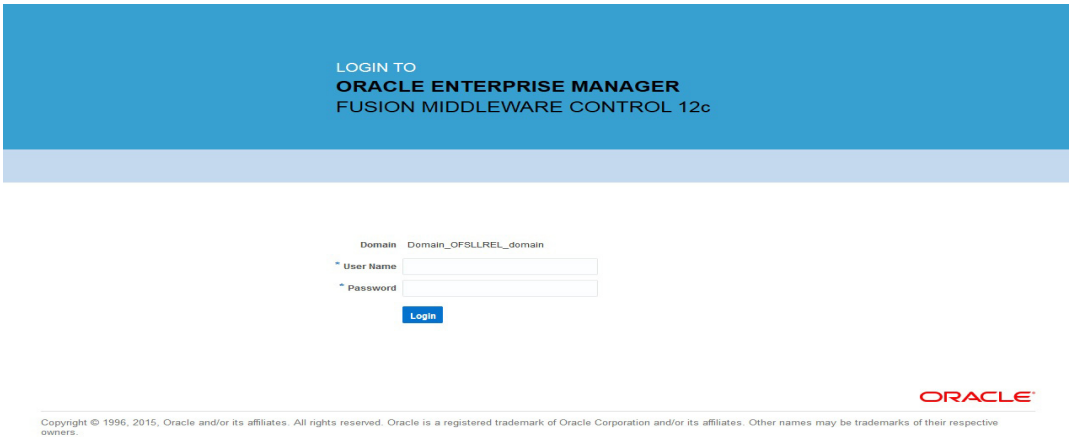
1. Making sure that the state is ACTIVE and health in OK in the Weblogic
2. Accessing the WSDL using: http://<hostname>:<port>/<context root>/ CSSAccountDetailsRequestService?WSDL and receiving error: “No valid XML found”

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

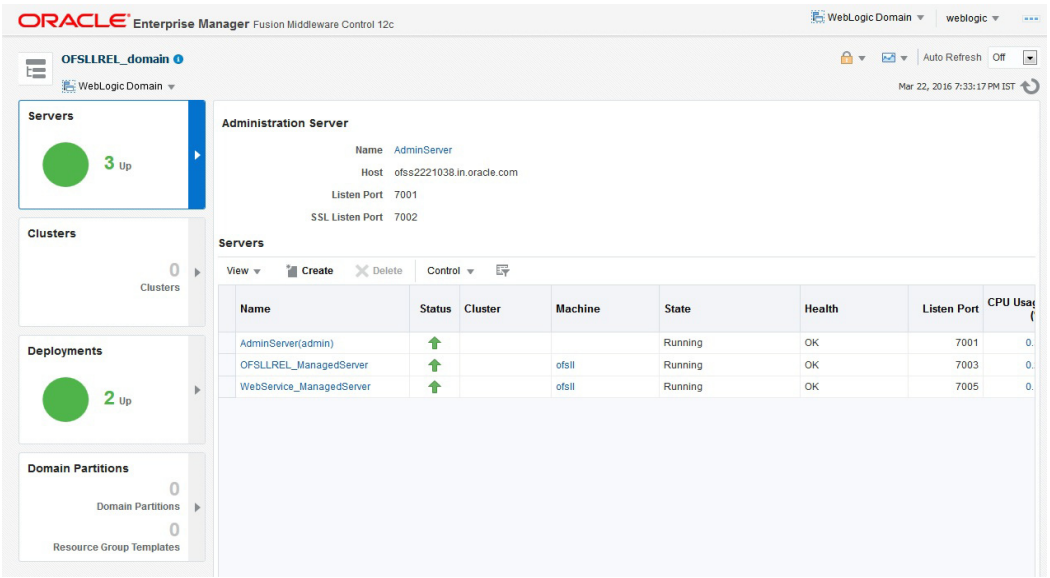
1. Making sure that the state is ACTIVE and health in OK in the Weblogic
2. Accessing the interface URLs mentioned below from the browser and receiving error: "No valid XML found":
   - "http://<hostname>:<port>/<context root>/postdt2xws?xaeprc
   - "http://<hostname>:<port>/<context root>/postds2xws?xaeprc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

6. Undeployment of Web Services

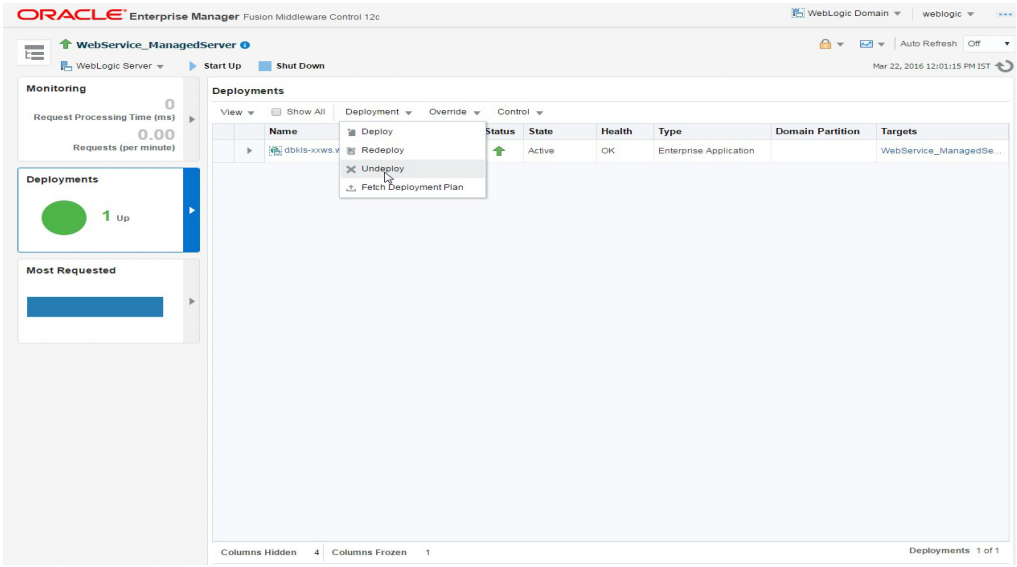
1. Login to Web Logic application server enterprise manager (eg.: http://hostname:port/em).



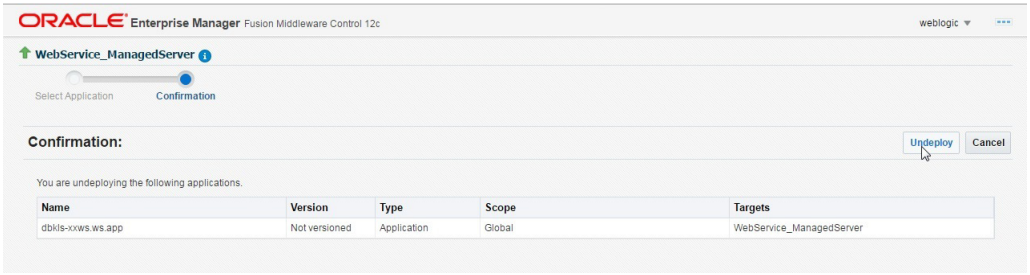
2. Enter valid login credentials. The following window is displayed.



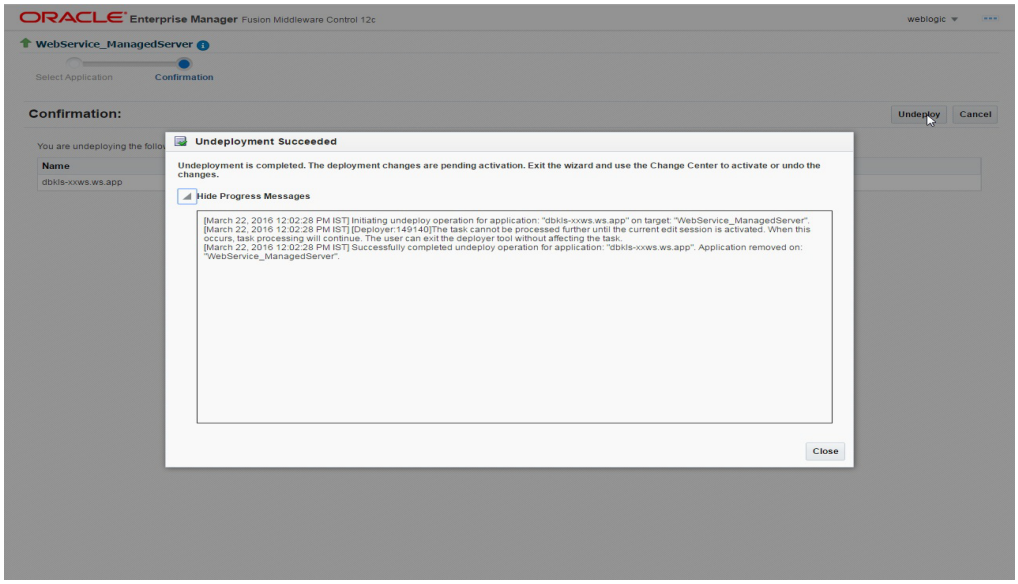
3. Expand Application Deployments. Right click on the web service to be undeployed. Select Undeploy.



4. The following window is displayed. Click on Undeploy.



5. The following window is displayed. Click on Close.



6. Similarly undeploy rest of the web services present.

7. Enable Logging

7.1 Enabling Web Service 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 below mentioned steps. Follow the steps below:

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:

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

7.2 Enabling SQL Log for Web Services 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.

DialerIntegrator: 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

CSSAccountDetailsRequestService: XCSPRC_EM_100_01	To receive loan application/deal update from dealer track: XAEUPD_EM_100_01	To receive edocs comment update : XAEEDS_EM_100_01	To receive loan application/deal refresh from route one : XAEUPD_EM_100_01
CSSAccountSearchRequestService: XCSACS_EM_100_01	To receive comments from dealer track : XAEPRC_EM_100_01	To receive edocs location update : XAEEDS_EM_100_01	To receive comments from route one: XEAUPD_EM_100_01
CSSPostTransactionsRequestService: XCSUPD_EM_100_01	To post comments to dealer track: XAECHK_EM_100_01		To post comments to route one: XAECHK_EM_100_01
CSSAccountPayOffQuoteRequestService: N/A	To post application status to dealer track: XAECHK_EM_100_01		To post application status to route one: XAECHK_EM_100_01
LOSeApplicationRequestService: XAEEDS_EM_100_01	To post dealer details to dealer track: XPRPRC_EM_100_01		To post dealer details to dealer track: XPRPRC_EM_100_01
LOSApplicationRequestService: XAEPRC_EM_100_01			
LOSApplicationSearchRequestService: XAEQUE_EM_100_01			
LOSApplicationLocationUpdateService: XAEEDS_EM_100_01			
LOSApplicationCommentUpdateService: XAEEDS_EM_100_01			
LOSPostStatusRequestService: XAECHK_EM_100_01			

LOSApplica-tionUpdateSer-vice: XAEUP-D_EM_100_01			
LOSCheckStatus-RequestService: XAECH-K_EM_100_01			

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: **ro_servlet_init.conf**			
LOSApplicationRequestServiceURL	http://<HOST NAME>:<PORT>/<CONTEXT ROOT>/LOSApplicationRequestService	URL for OFSLL New application web service	Refer the recommended context root table for CONTEXT ROOT. Sample URL: http://hostname:port/dbkls-xws-app-ro/LOSApplicationRequestService
LOSApplicationUpdateServiceURL	http://<HOST NAME>:<PORT>/<CONTEXT ROOT>/LOSApplicationUpdateService	URL for OFSLL application update web service	Refer the recommended context root table for CONTEXT ROOT. Sample URL: http://hostname:port/dbkls-xws-app-ro/LOSApplicationUpdateService
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 deafult password is "changeit". Modify the property in case the password is different for the keystore.
roKeyAlias	routeone_pub	RouteOne's public key alias name.The public key is needed to verify the xml signature of the request.	You may import the route one public key with alias "routeone_pub" else modify the property value to alias used while importing the public key into 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.

Property Name	Property Value	Description	Remarks
sscroKeyPass-word	demotestSSCR1	OFSLL's private key password	demotestSSCR1 is a sample value
postURL	https://messag-ing.itl.routeone.net/IF1_ITL/CASSB-MessagingRe-ceiver	URL for posting acknowledgement message to Route one	Verify the URL with Route One
fileLocation	/tmp	temporary file direc-tory	The directory for tempo-rary 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.
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: **dbkws_xae_init.conf**			
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
dealerEle-mentName	DEALER_DE-TAILS	Name of XML ele-ment 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	Needed only for RouteOne
jndiLookupDataSource	jdbc/IN1HukWznG0b4esj	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_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
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.	

Property Name	Property Value	Description	Remarks
proxyPort	80	Parameter to set proxy port. This is required if useProxy is set to 1.	
Configuration File: **dbkws_xcl_init.conf**			
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	
jndiLookupDataSource	jdbc/dbk105nlEJBDS	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_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.

Property Name	Property Value	Description	Remarks
sscroKeyPass-word	demotestSSCR1	OFSLL's private key password	demotestSSCR1 is a sample value
Configuration File: **Logging.properties**			
handlers	java.util.log-ging.FileHandler, java.util.log-ging.Console-Handler		
java.util.log-ging.File-Handler.level	ALL		
java.util.log-ging.File-Handler.patter n	/somewhere/logs/ dbkls_xws_%g.log		
java.util.log-ging.File-Handler.limit	1000000		
java.util.log-ging.File-Handler.count	4		
java.util.log-ging.File-Handler.appen d	true		
java.util.log-ging.File-Handler.format ter	java.util.log-ging.SimpleFor-matter		
java.util.log-ging.Console-Handler.level	WARNING		
java.util.log-ging.Console-Handler.format ter	java.util.log-ging.SimpleFor-matter		
com.ofss.fll.xw s.level	FINER	set the logging level for the application	Other Level values -- FIN-EST,FINE,CONFIG and INFO

Dealer Track

Property Name	Property Value	Description	Remarks
Configuration File: **dt_servlet_init.conf**			
LOSApplicationRequestServiceURL	http://<HOST NAME>:<PORT>/<CONTEXT ROOT>/LOSApplicationRequestService	URL for OFSLL New application web service	Refer the recommended context root table for CONTEXT ROOT. Sample URL: http://hostname:port/dbkls-xws-app-dt/LOSApplicationRequestService
LOSApplicationUpdateServiceURL	http://<HOST NAME>:<PORT>/<CONTEXT ROOT>/LOSApplicationUpdateService	URL for OFSLL application update web service	Refer the recommended context root table for CONTEXT ROOT. Sample URL: http://hostname:port/dbkls-xws-app-dt/LOSApplicationUpdateService
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: **dbkws_xae_init.conf**			
lenderId	SOMELENDER_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	DEALERTRACK	Parameter to set application 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 applicaton 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 deafult 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: **dbkws_xcl_init.conf**			
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
jndiLookupDataSource	jdbc/dbk105nlEJBDS	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.
sscroKey Alias	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: **Logging.properties**			
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: **ds_servlet_init.conf**			
LOSeApplication-RequestServi-ceURL	http://<HOST NAME>:<PORT>/<CONTEXT ROOT>/LOSeAp-plicationRequest-Service	URL for OFSLL eDocs Create/ update applica-tion web service	Refer the recommended context root table for CON-TEXT ROOT. Sample URL: http://host-name:port/dbkls-xws-app-ds/LOSeApplicationRe-questService
LOSApplication-CommentUpdate-ServiceURL	http://<HOST NAME>:<PORT>/<CONTEXT ROOT>/LOSAp-plicationCom-mentUpdateServi ce	URL for OFSLL eDocs comment update web ser-vice	Refer the recommended context root table for CON-TEXT ROOT. Sample URL: http://host-name:port/dbkls-xws-app-ds/LOSApplicationCom-mentUpdateService
LOSApplication-LocationUpdate-ServiceURL	http://<HOST NAME>:<PORT>/<CONTEXT ROOT>/LOSAp-plicationLoca-tionUpdateServic e	URL for OFSLL eDocs location update web ser-vice	Refer the recommended context root table for CON-TEXT ROOT. Sample URL: http://host-name:port/dbkls-xws-app-ds/LOSApplicationLoca-tionUpdateService
postTimeout	10	Parameter to set timeout value to post XML mes-sage to third party.	Timeout value should be specified in number of sec-onds.
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: **dbkws_xae_init.conf**			
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_DE-TAILS	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 applicaton data-source	Don't modify the value
keystoreLocation	config/dls_cacerts	Parameter to set location for pub-lic/private key store for HTTPS posting and for XML Digital Sig-nature	The keystore location should not be changed and keystore should be availa-ble in this location
keystorePassword	changeit	The keystore password	The deafult password is "changeit". Modify the property in case the pass-word is different for the keystore.
postTimeout	10	Parameter to set timeout value to post XML mes-sage to third party.	Timeout value should be specified in number of sec-onds.

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: **dbkws_xcl_init.conf**			
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_DE-TAILS	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/dbk105nlE-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 deafult 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: **Logging.properties**			
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.fll.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: **dbkws_lookups_init.conf**			
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 deafult password is "changeit". Modify the property in case the password is different for the keystore.
Configuration File: **dbkws_xae_init.conf**			
lenderId	SOMELENDER_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/IN1HukWznG0b4esj	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
keystorePassword	changeit	The keystore password	The deafult 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
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: **dbkws_xcl_init.conf**			
lenderId	SOMELENDER_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/dbk105nlE-JBDS	Parameter that defines the JNDI look up for the applicaton datasource	
keystoreLo-cation	config/dls_-cacerts	Parameter to set location for public/private key store for HTTPS posting and for XML Digital Sig-nature	The keystore location should not be changed and keystore should be availa-ble in this location
keystore-Password	changeit	The keystore password	The deafult password is "changeit". Modify the prop-erty in case the password is different for the keystore.
sscroKeyAlia s	ofss_route-one	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_route-one" else modify the prop-erty value to alias used while importing the private key into keystore.
sscroKey-Password	demotestSS-CR1	OFSLL's private key password	demotestSSCR1 is a sam-ple value
Configuration File: **dbkws_xcs_init.conf**			
jndiLookup-DataSource	jdbc/dbk-wsDS	Parameter that defines the JNDI look up for the applicaton datasource	Don't modify the value
keystoreLo-cation	config/dls_-cacerts	Parameter to set location for public/private key store for HTTPS posting and for XML Digital Sig-nature	The keystore location should not be changed and keystore should be availa-ble in this location
keystore-Password	changeit	The keystore password	The deafult password is "changeit". Modify the prop-erty 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: **Logging properties**			
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		
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

Others

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

- Verify that System parameters for Web Services 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

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_DL-R_TRACK_LENDER_NAME	DEALERTRACK LENDER NAME
XWS_XAE_ROUTE-ONE_LENDER_NAME	ROUTEONE LENDER NAME