

Oracle Banking Digital Experience

**IDCS-OBDX Setup Guide
Release 18.2.0.0.0**

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1. Preface

1.1 Intended Audience

This document is intended for the following audience:

- Customers
- Partners

1.2 Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

1.3 Access to OFSS Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit

<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

1.4 Structure

This manual is organized into the following categories:

Preface gives information on the intended audience. It also describes the overall structure of the User Manual.

The subsequent chapters describes following details:

- Introduction
- Preferences & Database
- Configuration / Installation.

1.5 Related Information Sources

For more information on Oracle Banking Digital Experience Release 18.2.0.0.0, refer to the following documents:

- User Manual Oracle Banking Digital Experience Installation Guide

2. Pre-requisite step:

2.1 To create groups and user in IDCS

Access your Oracle Identity Cloud Service instance (for example: `https://<tenant-base-url>/ui/v1/adminconsole`) and log in with your Identity Domain Administrator credentials.

Glossary of Parameters:

<tenant-name>	Tenant name of your IDCS instance
<tenant-base-url>	Tenant base URL used to access your IDCS instance
<base-url>	Base URL used to access your IDCS instance without tenant name

Click on **Add a group** button shown below.

Enter the group name and group description for 'administrator' as shown below.

Add Group

Step 1: Groups Details

* Name

administrator

Description

Administrator

User can request access

☐

Next

Finish

Click **Finish**. You will get a message 'Group administrator has been successfully added.'

On **Groups** screen, click on **Create a group** button. Enter the group name and group description for 'retailuser' as shown below.

Add Group

Step 1: Groups Details

* Name

retailuser

Description

Retail User

User can request access

☒

Next

Finish

Click **Finish**. You will get a message 'Group retailuser has been successfully added.'

On **Groups** screen, click on **Create a group** button. Enter the group name and group description for 'corporateuser' as shown below.

Add Group

Step 1: Groups Details

* Name

corporateuser

Description

Corporate User

User can request access

☒

Next

Finish

Click **Finish**. You will get a message 'Group corporateuser has been successfully added.'

Click on **Add a user** button on **Dashboard** screen as shown below.

AO

Welcome admin@oracle.com

Watch the Video

Learn More

What's New

Here's what you can do:

Onboarding Users and Groups

Onboarding Applications

Auditing the System, Users, and Groups

Managing Security Settings

Performing Self-Service Diagnostics

Customizing the Service

Performing End-User Self Service

Filter by Date Range Last 30 Days

Users

190

Total

9 Created0 Removed

Applications

50

Total

8 Created0 Removed

Groups

9

Total

0 Created0 Removed

Passwords

27

Logins

218

All Reports

5

On the next screen, enter details of a new user 'superadmin' shown below.

Add User

Step 1: Add User Details

The user name will be used to log in, and the email address will be flagged as the primary email address for the user.

* First Name

super

* Last Name

admin

* User Name

superadmin

* Email

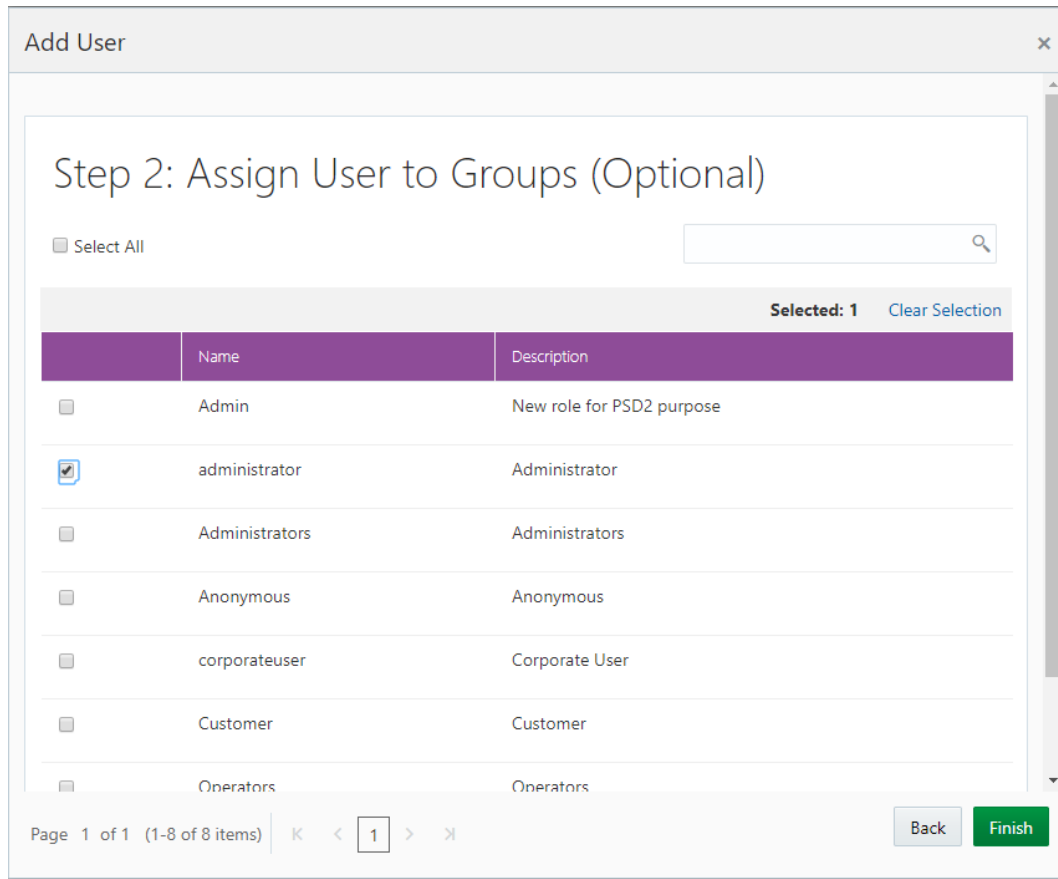
john.doe@domain.com

☐ Use the email address as the user name

Next

Finish

Click **Next**. You will get a list of existing groups in IDCS to which the user 'superadmin' can be assigned. Select group 'administrator'.



The screenshot shows a web-based 'Add User' dialog box. The title bar says 'Add User' with a close button. The main content area is titled 'Step 2: Assign User to Groups (Optional)'. Below the title, there is a 'Select All' checkbox and a search bar. A table lists available groups, with the 'administrator' group selected. The table has columns for 'Name' and 'Description'. At the bottom of the dialog, there is a pagination bar showing 'Page 1 of 1 (1-8 of 8 items)' and a 'Finish' button highlighted in green.

	Name	Description
☐	Admin	New role for PSD2 purpose
☒	administrator	Administrator
☐	Administrators	Administrators
☐	Anonymous	Anonymous
☐	corporateuser	Corporate User
☐	Customer	Customer
☐	Operators	Operators

Click **Finish**. The user 'superadmin' will be created and assigned 'administrator' group.

2.2 Install OpenSSL

Eg. [root@obdxohs devops]# yum install openssl*

2.3 OAM installation not required

Oracle Access Manager installation is not required for this setup.

3. Apply Oracle OPSS SCIM Identity Store OPatch on Weblogic server

Download the patch from the below link.

[ARU 22260908](#)

Extract the zip on weblogic machine.

Shutdown Managed and Admin weblogic server.

Glossary of Parameterized path:

oracle-home-path	Oracle Home path of Fusion Middleware Application (Weblogic/OHS)
jre-path	Location where jre is installed
local-patch-path	Location where relevant patch folder is stored locally. Eg. Location of 27644158 folder
weblogic-domain-path	Location where weblogic domain is installed
jdk-path	Location of JDK
ohs-domain-path	Location where OHS domain is installed

Run below commands on Weblogic machine.

```
[devops@obdxwls ~]$ export ORACLE_HOME=<oracle-home-path>
```

Eg. `export ORACLE_HOME=/home/devops/Oracle/Middleware/Oracle_Home/`

```
[devops@obdxwls ~]$ export PATH=$PATH:<oracle-home-path>/OPatch/
```

Eg. `export PATH=$PATH:/home/devops/Oracle/Middleware/Oracle_Home/OPatch/`

```
[devops@obdxwls ~]$ opatch lsinventory -jre <jre-path>
```

Eg. `opatch lsinventory -jre /home/devops/jdk18/jre/`

```
[devops@obdxwls ~]$ cd <local-patch-path>
```

Eg. `cd /scratch/obdx/wls/p27644158_122130_Generic/27644158/`

```
[devops@obdxwls 27644158]$ opatch apply
```

```
@obdxwls/scratch/obdx/wls/Setup/27644158
Bugs fixed:
2559137, 25232931, 24811916

Patch 26051289 : applied on Fri May 04 10:55:03 UTC 2018
Unique Patch ID: 21455037
Patch description: "One-off"
Created on 31 Jul 2017, 22:11:57 hrs UTC
Bugs fixed:
26051289

-----

OPatch succeeded.
[devops@obdxwls Oracle_Home]$ cd /scratch/obdx/wls/Setup/27644158/
[devops@obdxwls 27644158]$ ls -la
total 32
drwxrwxr-x 4 54322 54322 4096 Oct 12 08:01 .
drwxrwxr-x 3 54322 54322 4096 Oct 12 08:01 ..
-rw-rw-r-- 1 54322 54322 27 Jun 14 19:41 README.html
-rw-rw-r-- 1 54322 54322 8950 Jun 14 19:41 README.txt
drwxrwxr-x 3 54322 54322 4096 Oct 12 08:01 etc
drwxrwxr-x 6 54322 54322 4096 Oct 12 08:01 files
[devops@obdxwls 27644158]$ opatch apply
Oracle Interim Patch Installer version 13.9.2.0.0
Copyright (c) 2018, Oracle Corporation. All rights reserved.

Oracle Home : /home/devops/Oracle/Middleware/Oracle_Home
Central Inventory : /home/devops/orainventory
from : /home/devops/Oracle/Middleware/Oracle_Home/oraInst.loc
OPatch version : 13.9.2.0.0
OUI version : 13.9.2.0.0
Log file location : /home/devops/Oracle/Middleware/Oracle_Home/cfgtoollogs/opatch/opatch2018-10-12_08-03-04AM_1.log

OPatch detects the Middleware Home as "/home/devops/Oracle/Middleware/Oracle_Home"

Verifying environment and performing prerequisite checks...
OPatch continues with these patches: 27644158

Do you want to proceed? [y/n]
```

Press 'y'

```
@obdxwls/scratch/obdx/wls/Setup/27644158

-----

OPatch succeeded.
[devops@obdxwls Oracle_Home]$ cd /scratch/obdx/wls/Setup/27644158/
[devops@obdxwls 27644158]$ ls -la
total 32
drwxrwxr-x 4 54322 54322 4096 Oct 12 08:01 .
drwxrwxr-x 3 54322 54322 4096 Oct 12 08:01 ..
-rw-rw-r-- 1 54322 54322 27 Jun 14 19:41 README.html
-rw-rw-r-- 1 54322 54322 8950 Jun 14 19:41 README.txt
drwxrwxr-x 3 54322 54322 4096 Oct 12 08:01 etc
drwxrwxr-x 6 54322 54322 4096 Oct 12 08:01 files
[devops@obdxwls 27644158]$ opatch apply
Oracle Interim Patch Installer version 13.9.2.0.0
Copyright (c) 2018, Oracle Corporation. All rights reserved.

Oracle Home : /home/devops/Oracle/Middleware/Oracle_Home
Central Inventory : /home/devops/orainventory
from : /home/devops/Oracle/Middleware/Oracle_Home/oraInst.loc
OPatch version : 13.9.2.0.0
OUI version : 13.9.2.0.0
Log file location : /home/devops/Oracle/Middleware/Oracle_Home/cfgtoollogs/opatch/opatch2018-10-12_08-03-04AM_1.log

OPatch detects the Middleware Home as "/home/devops/Oracle/Middleware/Oracle_Home"

Verifying environment and performing prerequisite checks...
OPatch continues with these patches: 27644158

Do you want to proceed? [y/n]
y
User Responded with: Y
All checks passed.

Please shutdown Oracle instances running out of this ORACLE_HOME on the local system.
(Oracle Home = "/home/devops/Oracle/Middleware/Oracle_Home")

Is the local system ready for patching? [y/n]
```

Press 'y'

```
@obdxwls/scratch/obdx/wls/Setup/27644158
Oracle Interim Patch Installer version 13.9.2.0.0
Copyright (c) 2018, Oracle Corporation. All rights reserved.

Oracle Home      : /home/devops/Oracle/Middleware/Oracle_Home
Central Inventory : /home/devops/orainventory
   from           : /home/devops/Oracle/Middleware/Oracle_Home/orainst.loc
OPatch version    : 13.9.2.0.0
OUI version       : 13.9.2.0.0
Log file location : /home/devops/Oracle/Middleware/Oracle_Home/cfgtoollogs/patch/patch2018-10-12_08-03-04AM_1.log

OPatch detects the Middleware Home as "/home/devops/Oracle/Middleware/Oracle_Home"

Verifying environment and performing prerequisite checks...
OPatch continues with these patches: 27644158

Do you want to proceed? [y/n]
y
User Responded with: Y
All checks passed.

Please shutdown Oracle instances running out of this ORACLE_HOME on the local system.
(Oracle Home = "/home/devops/Oracle/Middleware/Oracle_Home")

Is the local system ready for patching? [y/n]
y
User Responded with: Y
Backing up files...
Applying interim patch '27644158' to OH '/home/devops/Oracle/Middleware/Oracle_Home'

Patching component oracle.opss.core, 12.2.1.3.0...
Patching component oracle.opss.jrf, 12.2.1.3.0...
Patching component oracle.opss.jrf, 12.2.1.3.0...
Patching component oracle.opss.wls, 12.2.1.3.0...
Patch 27644158 successfully applied.
Log file location: /home/devops/Oracle/Middleware/Oracle_Home/cfgtoollogs/patch/patch2018-10-12_08-03-04AM_1.log

OPatch succeeded.
[devops@obdxwls 27644158]$
```

4. Extending Weblogic Domain to load 'Oracle OPSS SCIM Identity Store' template

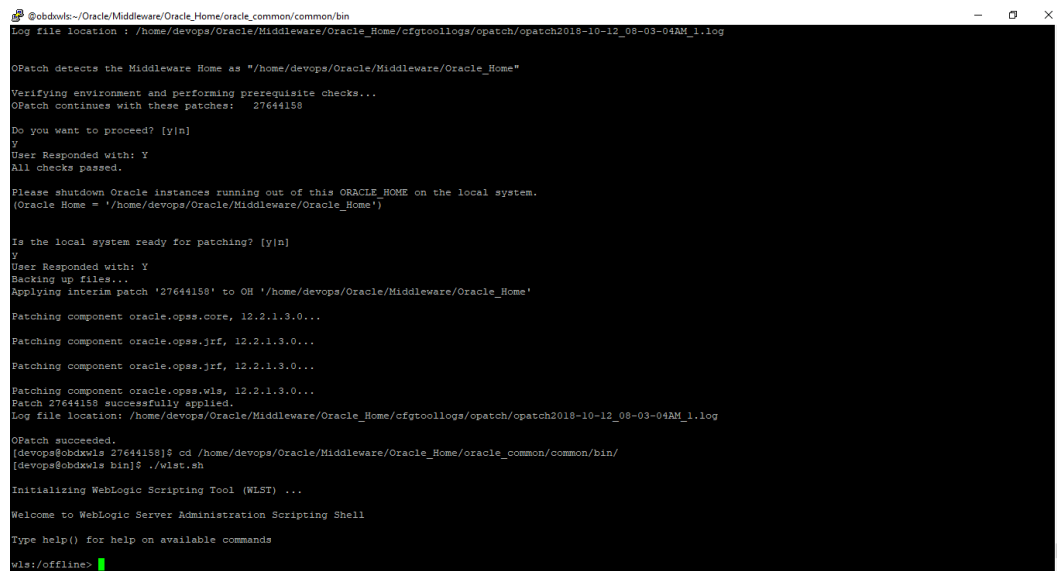
Run the below commands.

```
[devops@obdxwls fmwconfig]$ cd <ORACLE-HOME-PATH>/oracle_common/common/bin/
```

Eg. cd
/home/devops/Oracle/Middleware/Oracle_Home/oracle_common/common/bin/

```
[devops@obdxwls bin]$ ./wlst.sh
```

[This will take you to Weblogic Server Administration Scripting Shell]



```
@obdxwls:~/Oracle/Middleware/Oracle_Home/oracle_common/common/bin
Log file location : /home/devops/Oracle/Middleware/Oracle_Home/cfgtoollogs/patch/patch2018-10-12_08-03-04AM_1.log

OPatch detects the Middleware Home as "/home/devops/Oracle/Middleware/Oracle_Home"
Verifying environment and performing prerequisite checks...
OPatch continues with these patches: 27644158
Do you want to proceed? [y/n]
Y
User Responded with: Y
All checks passed.
Please shutdown Oracle instances running out of this ORACLE_HOME on the local system.
(Oracle Home = "/home/devops/Oracle/Middleware/Oracle_Home")

Is the local system ready for patching? [y/n]
Y
User Responded with: Y
Backing up files...
Applying interim patch '27644158' to OH '/home/devops/Oracle/Middleware/Oracle_Home'

Patching component oracle.opss.core, 12.2.1.3.0...
Patching component oracle.opss.jrf, 12.2.1.3.0...
Patching component oracle.opss.jrf, 12.2.1.3.0...
Patching component oracle.opss.wls, 12.2.1.3.0...
Patch 27644158 successfully applied.
Log file location: /home/devops/Oracle/Middleware/Oracle_Home/cfgtoollogs/patch/patch2018-10-12_08-03-04AM_1.log
OPatch succeeded.
[devops@obdxwls 27644158]$ cd /home/devops/Oracle/Middleware/Oracle_Home/oracle_common/common/bin/
[devops@obdxwls bin]$ ./wlst.sh

Initializing WebLogic Scripting Tool (WLST) ...
Welcome to WebLogic Server Administration Scripting Shell
Type help() for help on available commands

wls:/offline>
```

Run the below commands in wlst :

```
wls:/offline>readDomain("<weblogic-domain-path>")
```

Eg. readDomain("/home/devops/domain/obdx_domain")

```
wls:/offline/obdx_domain>selectTemplate("Oracle OPSS SCIM Identity Store")
```

```
wls:/offline/obdx_domain>loadTemplates()
```

```
wls:/offline/obdx_domain>updateDomain()
```

```
wls:/offline/obdx_domain>closeDomain()
```

```
wls:/offline/obdx_domain>exit()
```

```

@obdxwls:~/Oracle/Middleware/Oracle_Home/oracle_common/common/bin
Initializing WebLogic Scripting Tool (WLST) ...

Welcome to WebLogic Server Administration Scripting Shell

Type help() for help on available commands

wls:/offline> exit
<function exit 2>
wls:/offline> exit()

Exiting WebLogic Scripting Tool.

[devops@obdxwls bin]$ ./wlst.sh

Initializing WebLogic Scripting Tool (WLST) ...

Welcome to WebLogic Server Administration Scripting Shell

Type help() for help on available commands

wls:/offline> readDomain("/home/devops/domain/obdx_domain")
wls:/offline/obdx_domain>selectTemplate("Oracle OPSS SCIM Identity Store")
Traceback (innermost last):
  (no code object) at line 0
  File "<console>", line 1
    ??selectTemplate("Oracle OPSS SCIM Identity Store")
    ^
SyntaxError: Lexical error at line 1, column 1. Encountered: "\ufffd" (65533), after : ""
wls:/offline/obdx_domain>selectTemplate("Oracle OPSS SCIM Identity Store")
Traceback (innermost last):
  (no code object) at line 0
  File "<console>", line 1
    ?selectTemplate("Oracle OPSS SCIM Identity Store")
    ^
SyntaxError: Lexical error at line 1, column 1. Encountered: "\ufffd" (65533), after : ""
wls:/offline/obdx_domain>selectTemplate("Oracle OPSS SCIM Identity Store")
wls:/offline/obdx_domain>loadTemplates()
wls:/offline/obdx_domain>updateDomain()
Oct 12, 2018 9:36:14 AM oracle.mds
WARNING: MDS-11019: The default CharSet US-ASCII is not a unicode character set. File names with non-ASCII characters may not operate as expected. Check locale settings
.
wls:/offline/obdx_domain>closeDomain()
wls:/offline>

```


5. Change JPS configurations

Add the following to the jps-config.xml at <weblogic-domain-path>/config/fmwconfig/

Remove *GenericIdentityStoreProvider* *serviceProvider* inside **<serviceProviders>** tag:

- ```
<serviceProvider
class="oracle.security.jps.internal.idstore.generic.GenericIdentityStoreProvider"
name="custom.provider" type="IDENTITY_STORE">
<description>Custom IdStore Provider</description>
</serviceProvider>
```

Remove *idstore.custom* *serviceInstance* inside **<serviceInstances>** tag:

- ```
<serviceInstance location="dumb" name="idstore.custom" provider="custom.provider">
<description>Custom Identity Store Service Instance</description>
<property name="idstore.type" value="CUSTOM"/>
<property name="ADF_IM_FACTORY_CLASS"
value="com.ofss.sms.dbAuthenticator.providers.db.DBIdentityStoreFactory"/>
<property name="DATASOURCE_NAME" value="DIGX"/>
</serviceInstance>
```

Inside the **<jpsContext name="default">** tag, if *idstore.custom* is present, then:

- Change

```
<serviceInstanceRef ref="idstore.custom"/>
```

 to

```
<serviceInstanceRef
ref="idstore.scim"/>
```

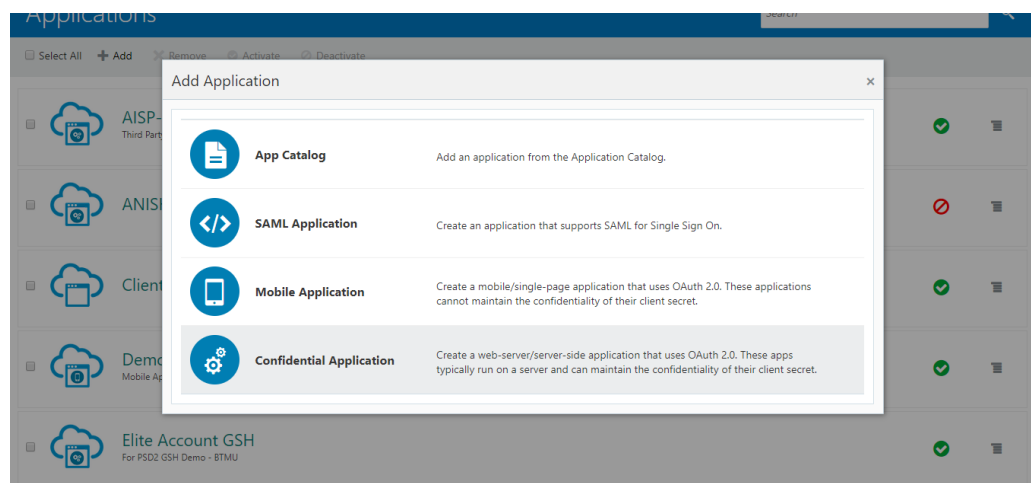
6. Create an OBDX Client Application in IDCS Console

Go to IDCS Admin Console → Enter Admin user name and Password.

On Applications tab → Click on + sign → Confidential Application

OBDX Client application details in IDCS:

Name	Is the OBDX Client Application Name in IDCS. Give a suitable name.
connection_scheme	http or https
webserver_host_name	Host name of web server
webserver_port	Port of web server
Application URL	<connection_scheme>://<webserver host name>:<webserver_port>
Redirect URL	<Application URL>/oauth/callback
Primary Audience	<Name>
Secondary Audience	<Application URL>



Add Confidential Application

Cancel

Details
Client
Resources
Web Tier Policy
Authorization

Next >

App Details

* Name

Description

Application Icon 

Upload

Application URL

Custom Login URL

Custom Logout URL



Upload

Application URL

Custom Login URL

Custom Logout URL

Custom Error URL

Linking callback URL

Tags

Add tags to your applications to organize and identify them. A tag consists of a key-value pair.

+ Add Tag

Display Settings

Display in My Apps ☐

User can request access ☒

Click **Next**.


ZigBank Identity Cloud Service
AO

Add Confidential Application

< Back

Details
Client
Resources
Web Tier Policy
Authorization

Next >

☒ Configure this application as a client now
 ☐ Skip for later

Authorization

Allowed Grant Types
☒ Resource Owner
☒ Client Credentials
☐ JWT Assertion
☐ SAML2 Assertion
☐ Refresh Token
☒ Authorization Code

☐ Implicit
☐ Device Code

Allow non-HTTPS URLs ☒

* Redirect URL

Logout URL

Post Logout Redirect URL

Security
☐ Trusted Client
☐ Certificate

Import

Allowed Operations
☒ Introspect
☒ On behalf Of

Resource	Protected	Scope
No data to display.		

Grant the client access to Identity Cloud Service Admin APIs

[+ Add](#)

App Roles	Protected	
Application Administrator	No	×
Kerberos Administrator	No	×
Me	No	×
Security Administrator	No	×
User Administrator	No	×
Signin	No	×
Self Registration	No	×
Identity Domain Administrator	No	×

Click **Next**.

Add Confidential Application

[< Back](#)

Details

Client

Resources

Web Tier Policy

Authorization

[Next >](#)

Expose APIs to Other Applications

Specify the APIs that need to be protected.

☒ Configure this application as a resource server now
 ☐ Skip for later

Configure application APIs that need to be OAuth protected

Access Token Expiration: seconds

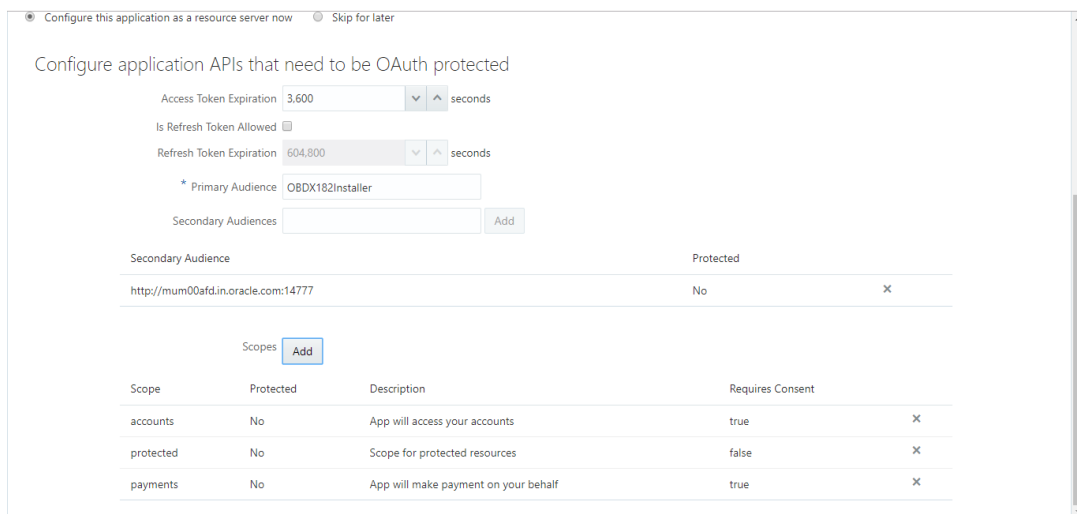
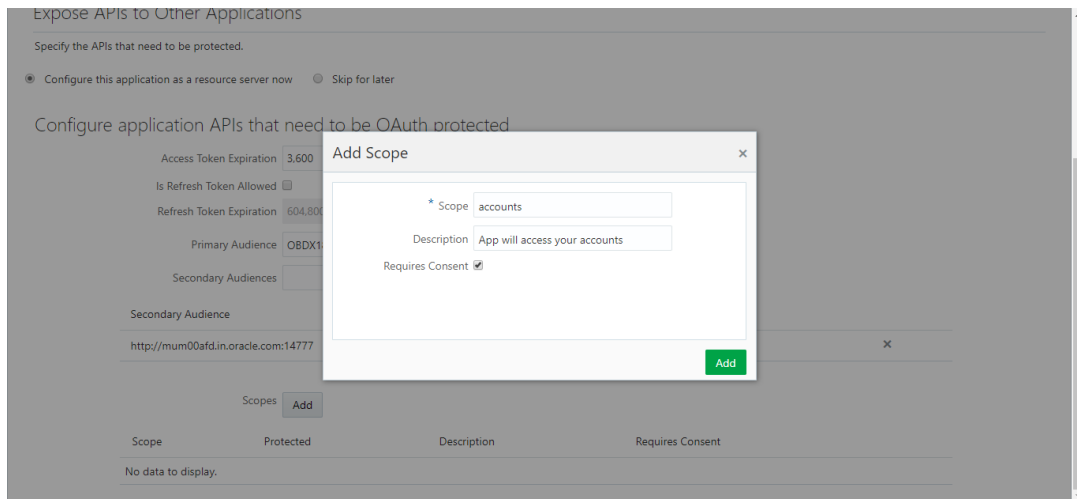
Is Refresh Token Allowed: ☐

Refresh Token Expiration: seconds

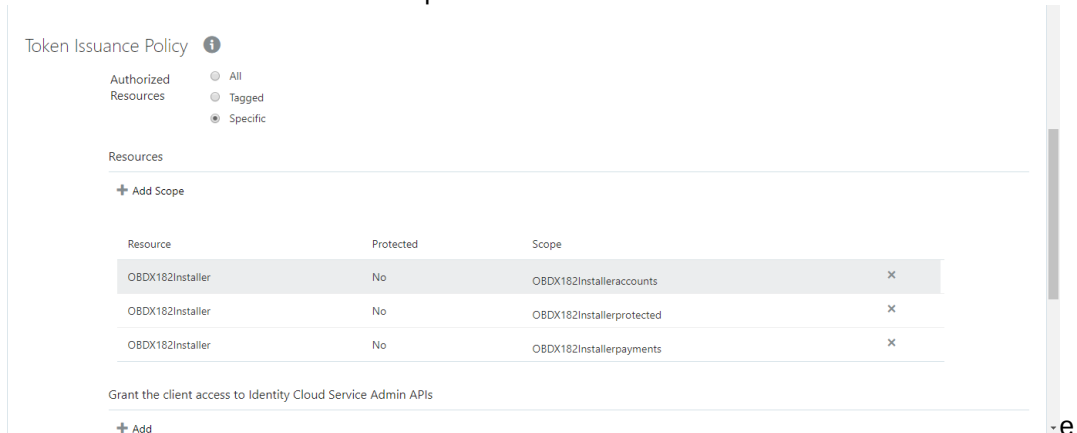
* Primary Audience:

Secondary Audiences: [Add](#)

Secondary Audience	Protected	
http://mum00afd.in.oracle.com:14777	No	×



Go Back to **Client** tab and Add Scope



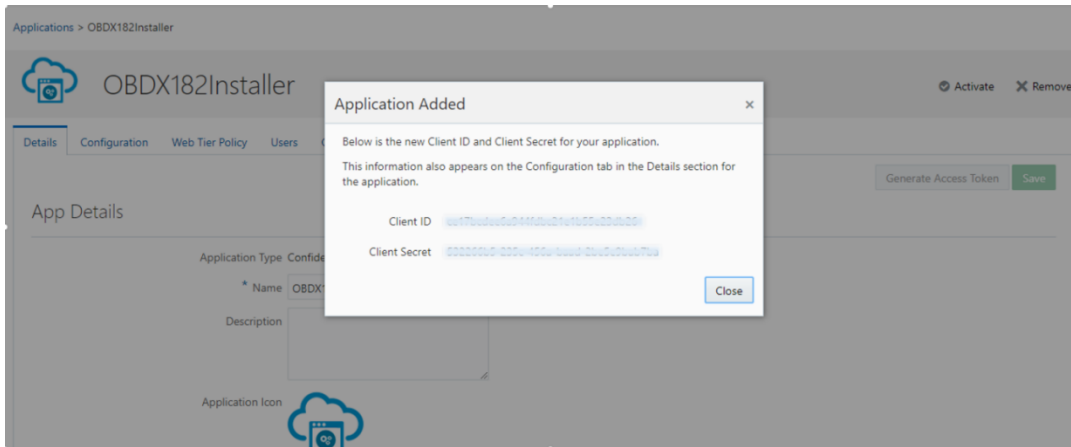
Note down the name of protected scope above.

allowed_scope_name_of_protected_in_OBDX_Client_App	Name of Protected scope. Eg. OBDX182Installerprotected
--	--

Next Go to **Web Tier Policy** tab.

Click **Next**.

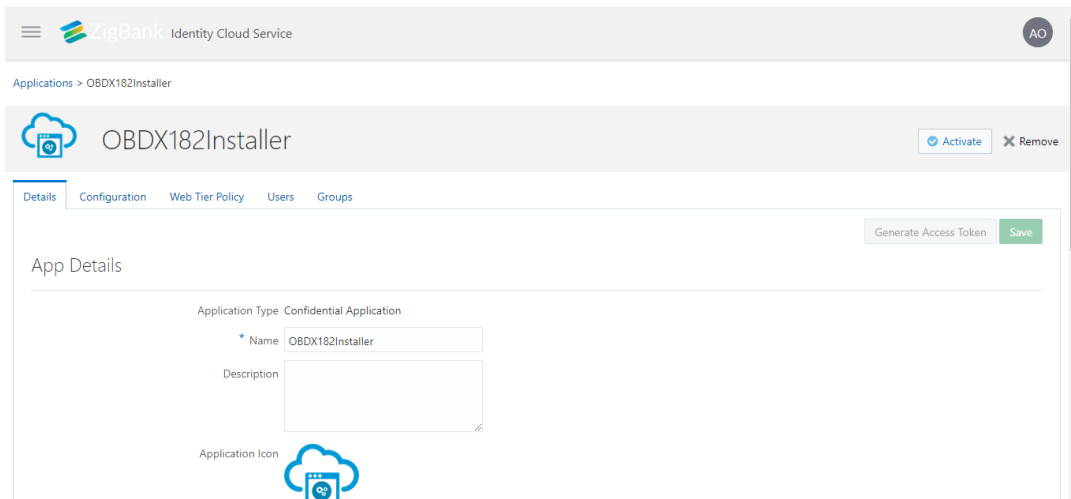
Click on **Finish**.



You will get Client ID and Client Secret on successful creation.

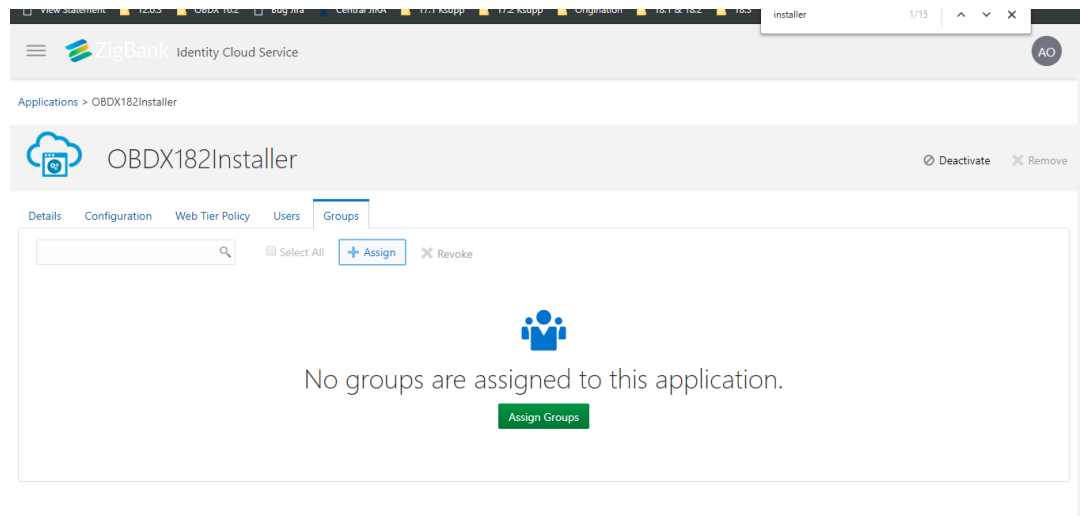
Glossary of parameters:

<code><client_id_of_OBDX_client_in_IDCS></code>	<i>Client ID given above</i>
<code><client_secret_of_OBDX_client_in_IDCS></code>	<i>Client Secret given above</i>

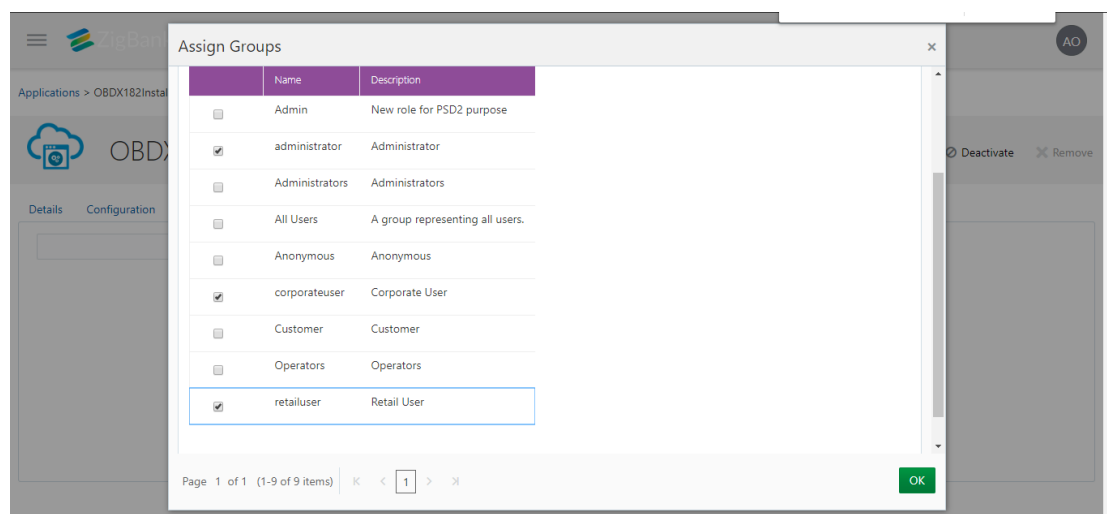


Click on **Activate** button.

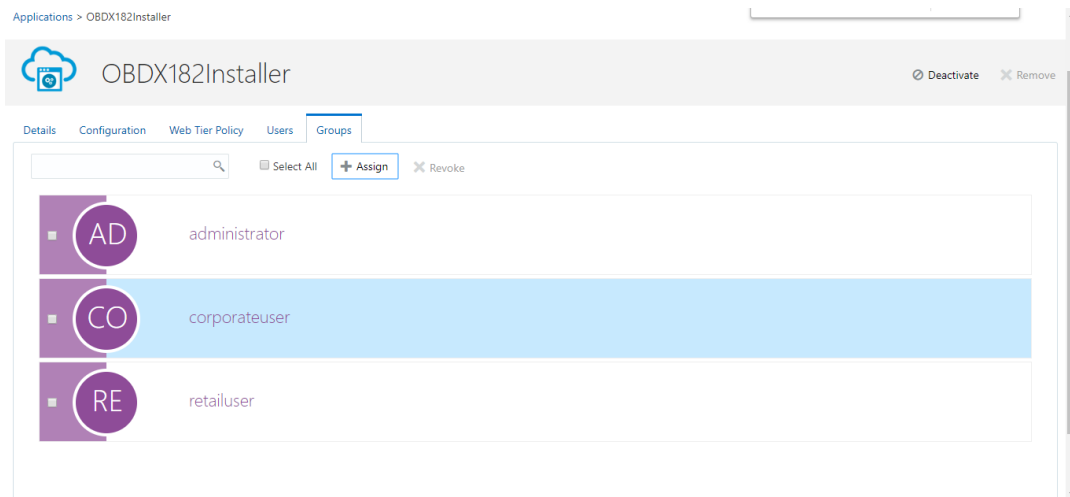
Search for created application and go to **Groups** tab.



Click on **Assign**.



Click **Add**.



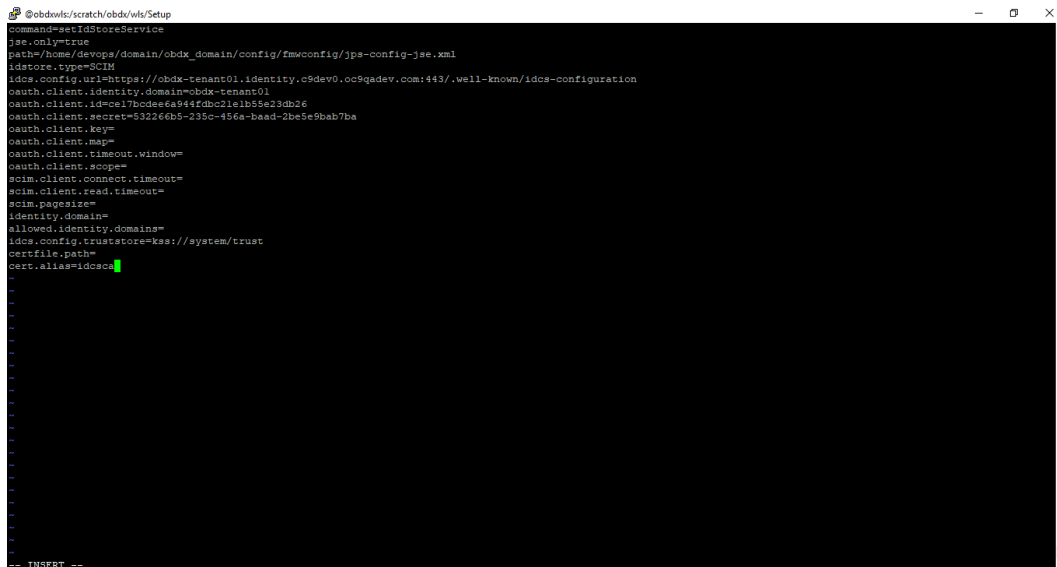
Above groups are added.

7. Configure OPSS IDCS Identity Store Service

1. Back up jps-config-jse.xml at [<weblogic-domain-path>/config/fmwconfig/](#)
2. Prepare a command property file named **opss_idcs_cmd.props**

opss_idcs_cmd.props:

```
command=setIdStoreService
jse.only=true
path=<weblogic-domain-path>/config/fmwconfig/jps-config-jse.xml
idstore.type=SCIM
idcs.config.url=https://<tenant-base-url>:443/.well-known/idcs-configuration
oauth.client.identity.domain=<tenant-name>
oauth.client.id=<client id of OBDX client in IDCS>
oauth.client.secret=<client secret of OBDX client in IDCS>
oauth.client.key=
oauth.client.map=
oauth.client.timeout.window=
oauth.client.scope=
scim.client.connect.timeout=
scim.client.read.timeout=
scim.pagesize=
identity.domain=
allowed.identity.domains=
idcs.config.truststore=kss://system/trust
certfile.path=
cert.alias=idcsca
```

A screenshot of a terminal window with a black background and white text. The terminal title bar shows a file icon, the path '@obdxwls/scratch/obdx/wls/Setup', and standard window controls. The text in the terminal is the same as the 'opss_idcs_cmd.props' file shown in the previous block, with the last line 'cert.alias=idcsca' followed by a green cursor. At the bottom of the terminal, there is a prompt '-- INSERT --'.

3. Go to [<jdk-path>/bin](#)

Run below command

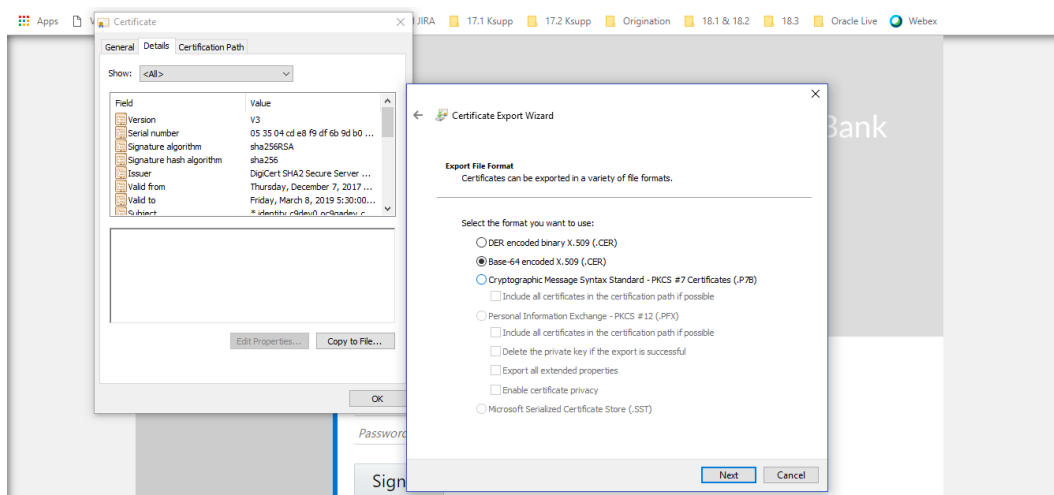
```
java -classpath <oracle-home-path>/oracle_common/modules/oracle.jps/jps-manifest.jar  
oracle.security.jps.internal.tools.configuration.Idap.LdapServiceEnabler -props <local-path-of-  
opss_idcs_cmd.props>
```

```
[devops@obdxwls bin]$ ^C  
[devops@obdxwls bin]$ ./java -classpath /home/devops/Oracle/Middleware/Oracle_Home/oracle_common/modules/oracle.jps/jps-manifest.jar oracle.security.jps.internal.tools.  
configuration.Idap.LdapServiceEnabler -props /scratch/obdxwls/Setup/opss_idcs_cmd.props  
Oct 12, 2018 11:02:10 AM oracle.security.jps.internal.tools.configuration.Idap.LdapServiceEnabler runLSE  
INFO: Back up of JPS Config file /home/devops/domain/obdx_domain/config/fmwconfig/jps-config-jse.xml done.  
Oct 12, 2018 11:02:11 AM oracle.security.jps.internal.tools.configuration.Idap.LdapServiceEnabler runLSE  
INFO: Back up of JPS Config file /home/devops/domain/obdx_domain/config/fmwconfig/jps-config-jse.xml done.  
Oct 12, 2018 11:02:12 AM oracle.security.jps.internal.tools.configuration.Idap.LdapServiceEnabler runConfiguration  
INFO: Service setup check completed for configurator.  
Oct 12, 2018 11:02:14 AM oracle.security.jps.internal.runtime.ServiceContextManagerImpl.getContext  
WARNING: Bootstrap services are used by OPSS internally and clients should never need to directly read/write bootstrap credentials. If required, use Wlst or configurat  
on management interfaces.  
Oct 12, 2018 11:02:14 AM oracle.security.jps.internal.tools.configuration.Idap.LdapServiceEnabler runConfiguration  
INFO: Service configuration update done for Configurator.  
Oct 12, 2018 11:02:14 AM oracle.security.jps.internal.tools.configuration.Idap.LdapServiceEnabler persistJse  
INFO: Persist jps-config-jse.xml to directory: /home/devops/domain/obdx_domain/config/fmwconfig - done.  
[devops@obdxwls bin]$
```

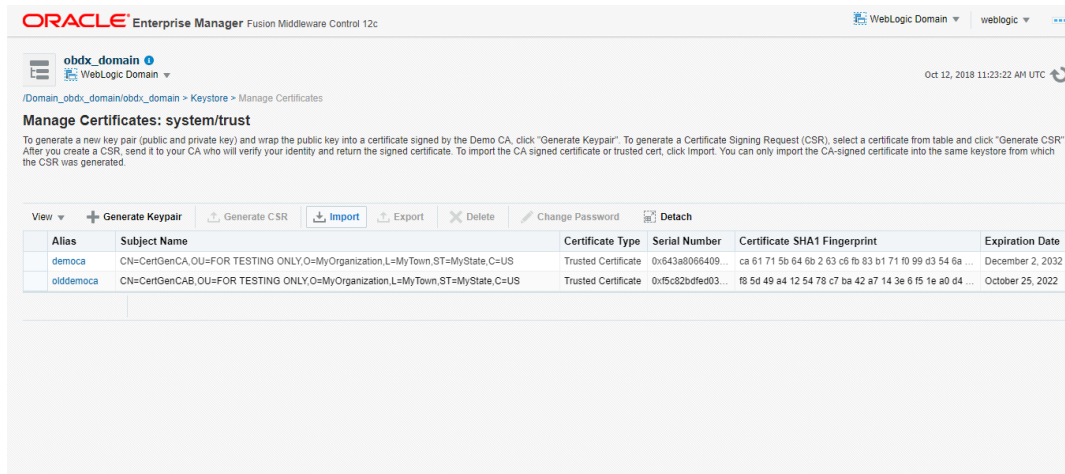
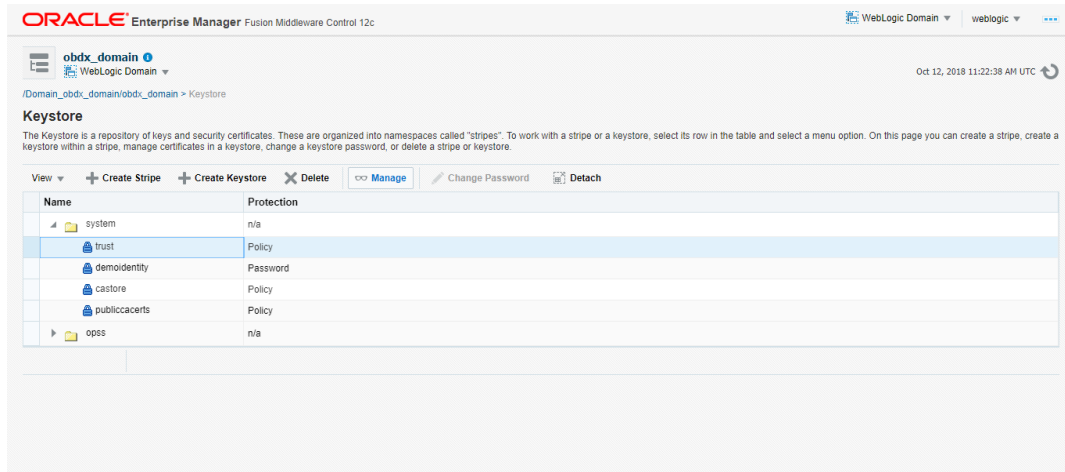
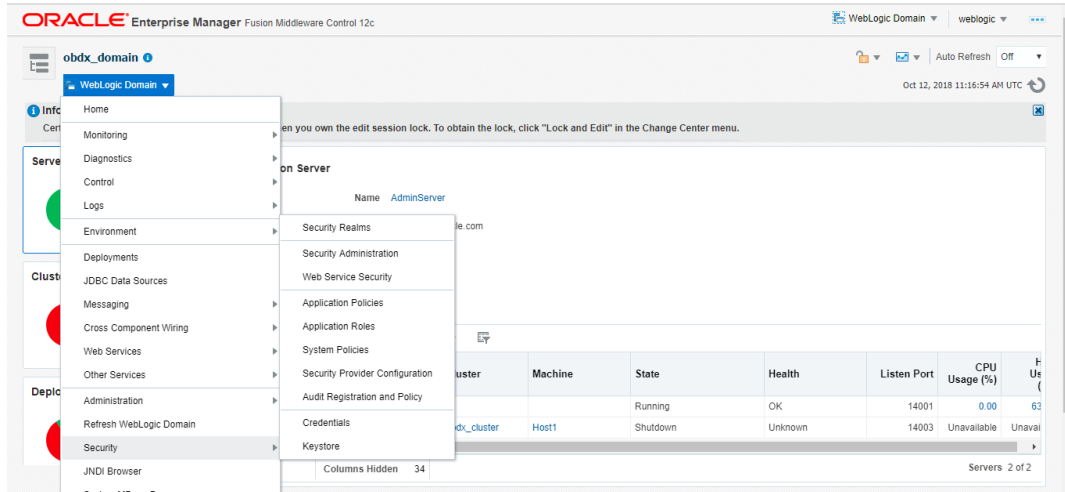
4. To provide cert to SSL connection:

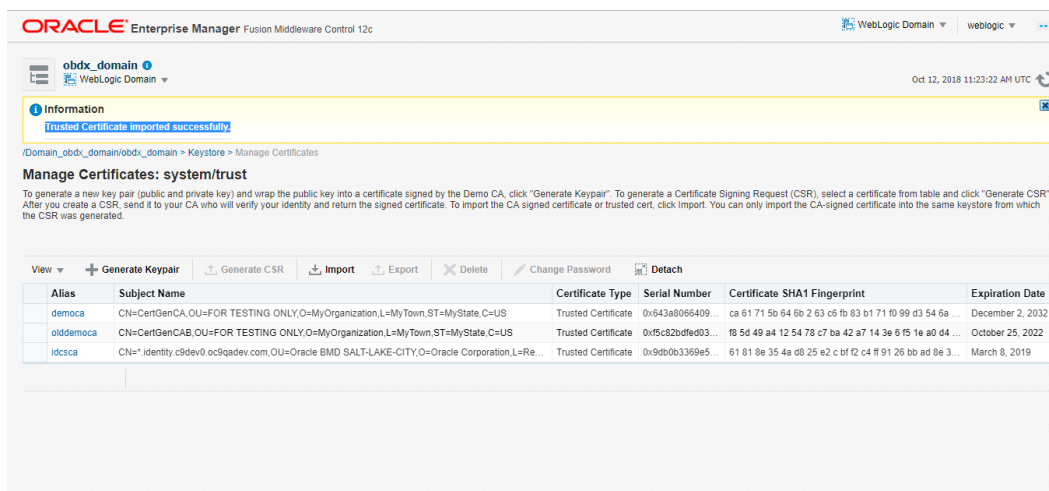
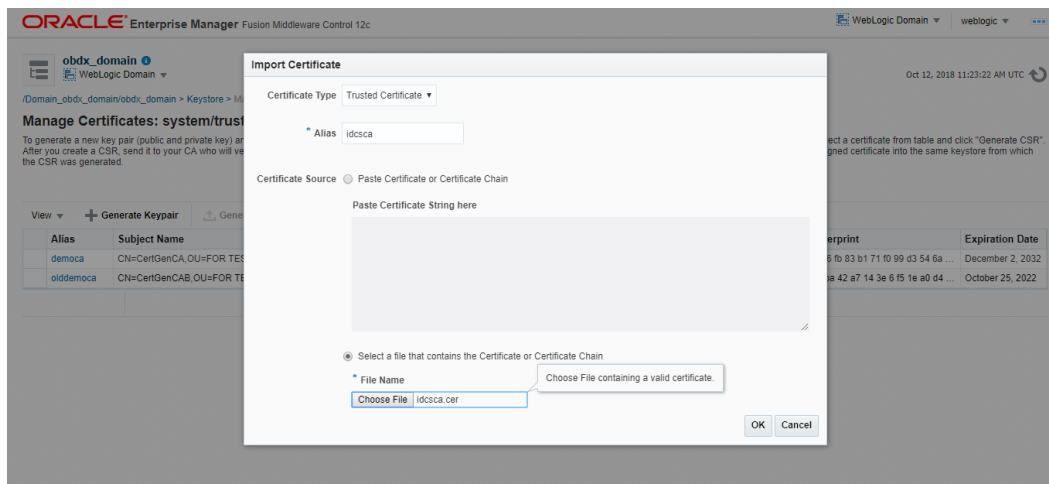
Start the Weblogic Admin server.

Download the IDCS certificate from IDCS My console. 'https://<tenant-base-url>
/ui/v1/myconsole'.

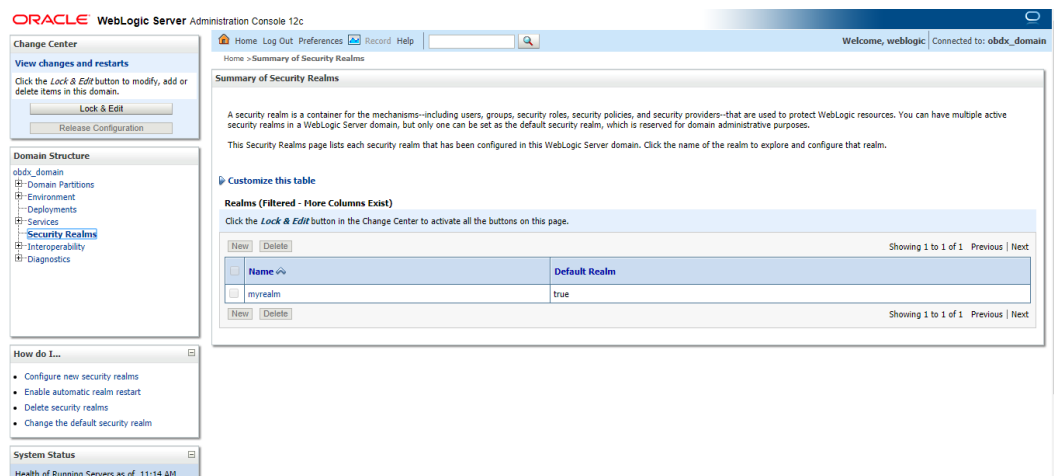
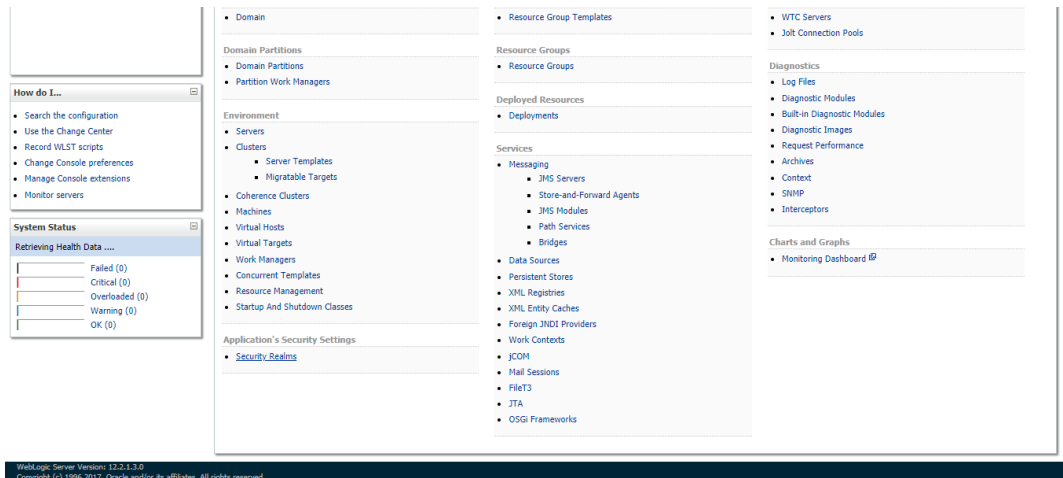


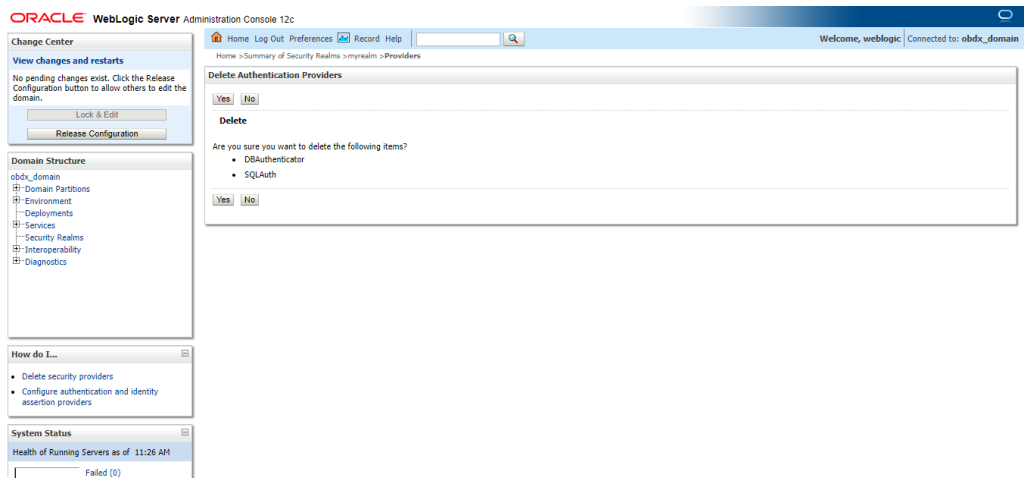
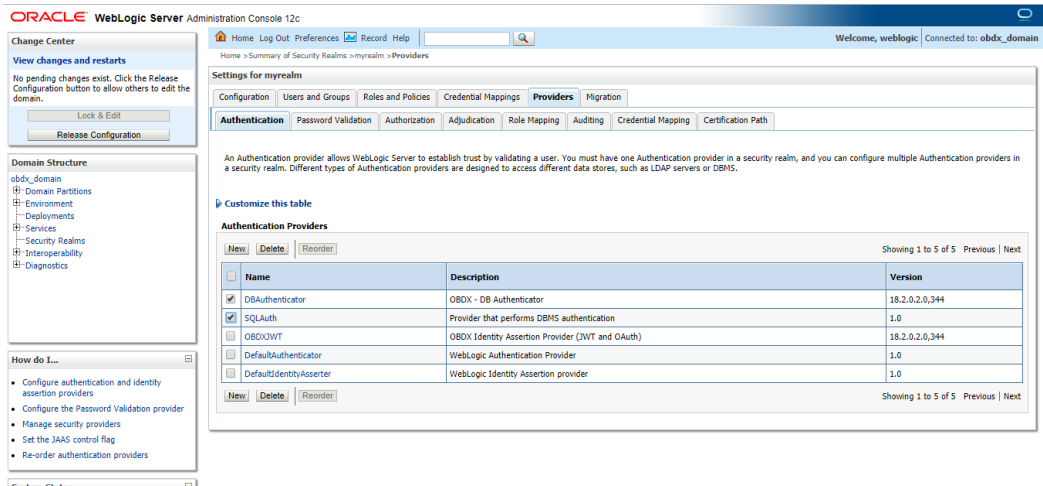
Login to weblogic Enterprise Manager (EM) and Import this certificate in EM as 'idcsca' under
kss://system/trust.



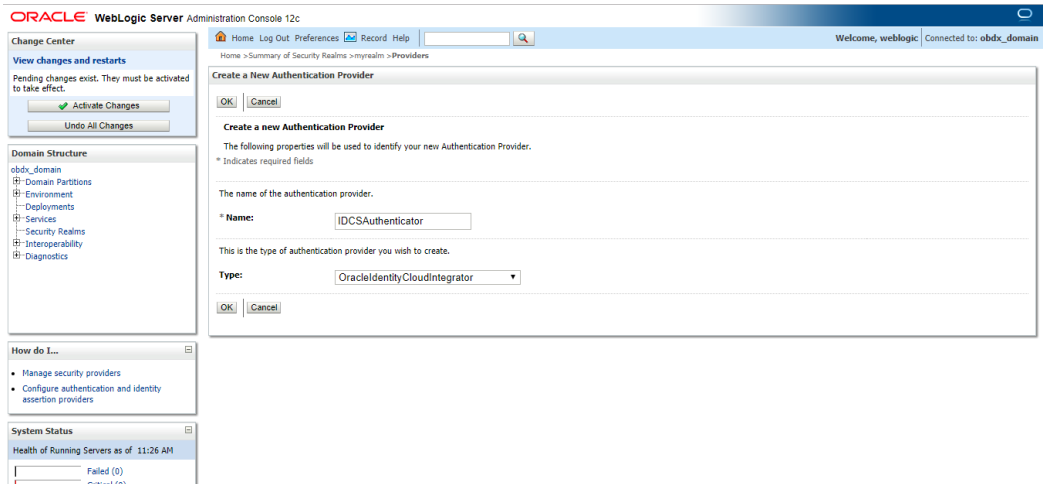


8. Adding IDCS as an Identity Provider in Weblogic Security Realms



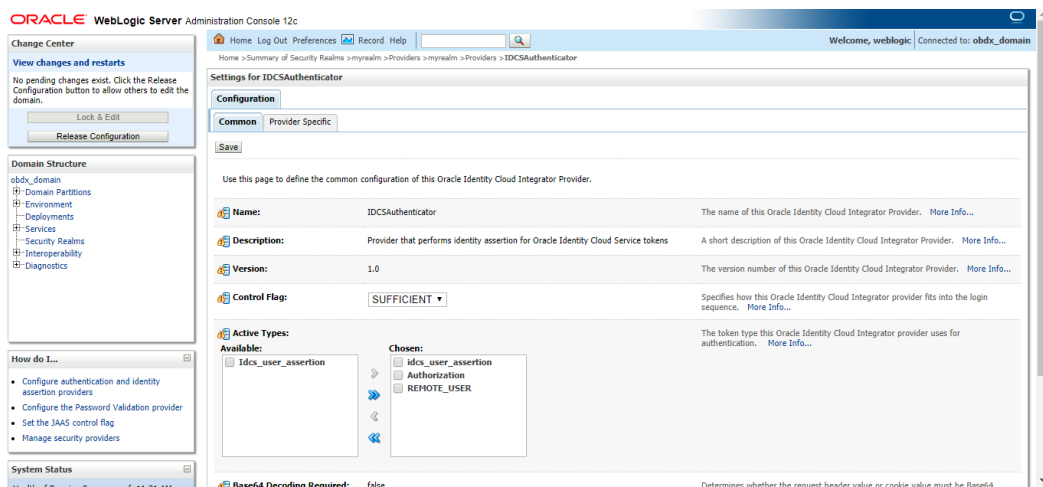


1. Delete *DBAuthenticator* and *SQLAuth* from the list of Authenticator Providers.
2. Create a New Provider.
 - Name : *IDCSAuthenticator*
 - Type : *OracleIdentityCloudIntegrator*



3. IDCSAuthenticator > Configurations > Common

- Control Flag: SUFFICIENT
- Active Types:
 - i. Available: Idcs_user_assertion
 - ii. Chosen: idcs_user_assertion, Authorization, IDCS_REMOTE_USER, REMOTE_USER



4. IDCSAuthenticator > Configurations > Provider Specific

- Port: 443
- Tenant Names: <tenant_name>
- SSLEnabled: True
- Client IDResource Attribute: client_id
- Client Id: <client_ID_of_OBDX_client_in_IDCS>
- Client Tenant: <tenant_name>
- Tenant: <tenant_name>

- Host: <base-url>
- Client Secret: <client secret of OBDX client in IDCS>

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

Lock & Edit
Release Configuration

Domain Structure

- obdx_domain
 - Domain Partitions
 - Environments
 - Deployments
 - Services
 - Security Realms
 - Interoperability
 - Diagnostics

How do I...

- Configure authentication and identity assertion providers
- Set the JAAS control flag
- Manage security providers

System Status

Health of Running Servers as of 11:33 AM

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

Settings for IDCSAuthenticator

Configuration

Common Provider Specific

Save

This page allows you to configure additional attributes for this security provider.

Connection

Host: identity.c9dev0.oc9qadev.co The host name used to connect to the Oracle Identity Cloud Service. [More Info...](#)

Port: 443 The port number used to connect to the Oracle Identity Cloud Service. [More Info...](#)

☒ SSL Enabled Specifies whether the TLS/SSL protocol is used when connecting to the Oracle Identity Cloud Service. [More Info...](#)

Tenant: obdx-tenant01 The name of the primary tenant where users and groups reside from the Oracle Identity Cloud Service. When the primary tenant is not configured, the user authentication processing must identify the tenant name. [More Info...](#)

Client Id: ce17bcd6e6a944fdbc21e1b The Client Id used when retrieving tokens from the Oracle Identity Cloud Service. [More Info...](#)

Client Secret: The Client secret used when retrieving tokens from the Oracle Identity Cloud Service. [More Info...](#)

Confirm Client Secret: The Client secret used when retrieving tokens from the Oracle Identity Cloud Service. [More Info...](#)

Client Tenant: obdx-tenant01 The tenant in which the Client Id resides from the Oracle Identity Cloud Service. When no client tenant name is configured, the tenant configured for the provider is used. [More Info...](#)

Caching

☒ Cache Enabled Specifies whether to cache the Oracle Identity Cloud Service user's information. [More Info...](#)

General

Connect Timeout: 300 The maximum time to wait, in seconds, for the connection to the Oracle Identity Cloud Service to be established. [More Info...](#)

Response Read Timeout: 60 The maximum time to wait, in seconds, for a response from the Oracle Identity Cloud Service. [More Info...](#)

User Authentication Assertion Attribute: Used for User Authentication and Assertion. The default value results in the use of the attribute configured by the Oracle Identity Cloud Service. [More Info...](#)

User Name Resource Attribute: userName SCIM User resource type attribute that specifies the name of the user. [More Info...](#)

User ID Resource Attribute: id SCIM User resource type attribute that specifies the ID (GUID) of the user. [More Info...](#)

Client ID Resource Attribute: client_id Used for Client ID App Assertion. The default value results in the use of the attribute configured by the Oracle Identity Cloud Service. [More Info...](#)

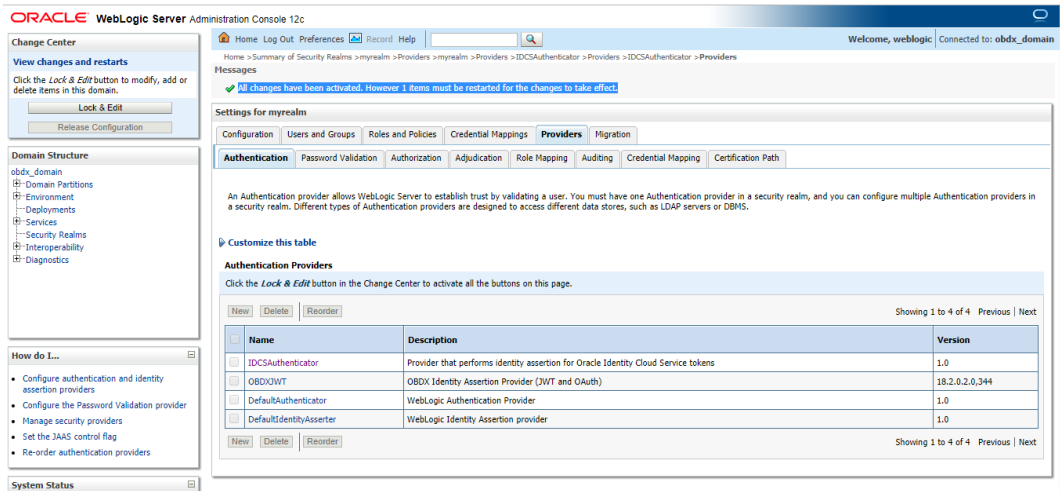
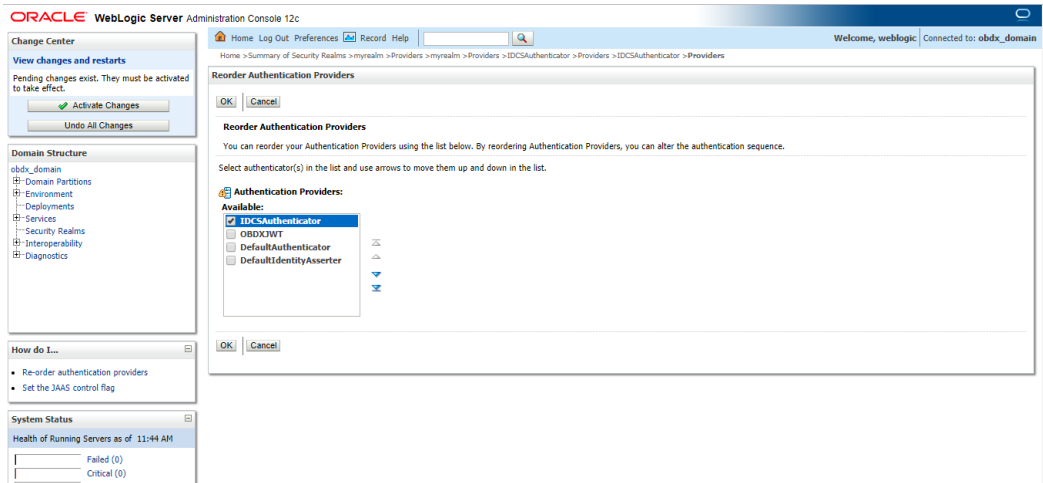
Tenant Header Names: X-USER-IDENTITY-SERVICE-GUID
X-USER-IDENTITY-DOMAIN-NAME
X-RESOURCE-IDENTITY-SERVICE-GUID
X-RESOURCE-IDENTITY-DOMAIN-NAME The names of HTTP headers sent on requests to the Oracle Identity Cloud Service that are used to determine the tenancy during authentication. [More Info...](#)

Application Name Filter Header Name: X-RESOURCE-SERVICE-IN The name of the HTTP header used to determine the application name applied when filtering the authentication and assertion requests to the Oracle Identity Cloud Service. When no value is supplied or can be determined, requests are not filtered by an application. [More Info...](#)

Token Validation

Token Validation Level: NORMAL The level of validation performed on Oracle Identity Cloud Service tokens passed to the Identity Asserter. Valid values are FULL, NORMAL, SIGNATURE and NONE. [More Info...](#)

5. Reorder IDCSAuthenticator to the top of all providers.



9. Application Server Changes

9.1 Add below argument to Managed server:

Dweblogic.security.SSL.hostnameVerifier=weblogic.security.utils.SSLWLSW
ildcardHostnameVerifier

Starting this server: [More Info...](#)

Java Vendor: The Java Vendor value to use when starting this server. [More Info...](#)

BEA Home: The BEA home directory (path on the machine running Node Manager) to use when starting this server. [More Info...](#)

Root Directory: The directory that this server uses as its root directory. This directory must be on the computer that hosts Node Manager. If you do not specify a Root Directory value, the domain directory is used by default. [More Info...](#)

Class Path: The classpath (path on the machine running Node Manager) to use when starting this server. [More Info...](#)

Arguments: The arguments to use when starting this server. [More Info...](#)

`-Dfcet JVM.id=1 -Xms2560m -Xmx2560m -XX:NewSize=640m -XX:MaxNewSize=640m -Dcom.sun.xml.internal.ws.transport.http.client.HttpTransportPipe.dump=true -Dcom.sun.xml.ws.transport.http.client.HttpTransportPipe.dump=true -Dcom.sun.xml.ws.transport.http.client.HttpTransportPipe.dump=true -Dcom.sun.xml.ws.transport.http.client.HttpTransportPipe.dump=true -Xrunjdwp:transport=dt_socket,server=y,address=14343,suspend=n -Dweblogic.security.SSL.hostnameVerifier=weblogic.security.utils.SSLWLSWildcardHostnameVerifier`

Security Policy File: The security policy file (directory and filename on the machine running Node Manager) to use when starting this server. [More Info...](#)

User Name: The user name to use when booting this server. [More Info...](#)

Password: The password of the username used to host the server and perform server health

9.2 Managed Server Start Configurations

Go to Home > Summary of Clusters > obdx_cluster > Configuration Tab > General Tab >

Expand **Advanced** Section.

Set the Value of **WebLogic Plug-In Enabled** to **yes**.

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

- obdx_domain
 - Domain Partitions
 - Environment
 - Servers
 - Clusters
 - Coherence Clusters
 - Resource Groups
 - Resource Group Templates
 - Machines
 - Virtual Hosts
 - Virtual Targets
 - Work Managers
 - Concurrent Templates
 - Resource Management

How do I...

- Configure clusters
- Assign server instances to clusters
- Configure server migration in a cluster
- Configure cross-cluster replication

System Status

Health of Running Servers as of 2:58 PM

Failed (0)

Critical (0)

Overloaded (0)

Warning (0)

OK (1)

Home > Summary of Servers > Summary of Deployments > com.oracle.jps.connector.jar > Roles > Summary of Servers > OBDX_MSI > Summary of Clusters > obdx_cluster

Settings for obdx_cluster

[Configuration](#) [Monitoring](#) [Control](#) [Deployments](#) [Services](#) [Notes](#)

General [JTA](#) [Messaging](#) [Servers](#) [Replication](#) [Migration](#) [Singleton Services](#) [Scheduling](#) [Overload](#) [Health Monitoring](#) [HTTP](#) [Coherence](#)

[Save](#)

This page allows you to define the general settings for this cluster.

Name: obdx_cluster The name of this configuration. WebLogic Server uses an MBean to implement and persist the configuration. [More Info...](#)

Default Load Algorithm: round-robin Defines the algorithm to be used for load-balancing between replicated services if none is specified for a particular service. The round-robin algorithm cycles through a list of WebLogic Server instances in order. Weight-based load balancing improves on the round-robin algorithm by taking into account a pre-assigned weight for each server. In random load balancing, requests are routed to servers at random. [More Info...](#)

Cluster Address: The address that forms a portion of the URL a client uses to connect to this cluster, and that is used for generating EJB failover addresses. (This address may be either a DNS host name that maps to multiple IP addresses or a comma-separated list of single address host names or IP addresses.) [More Info...](#)

Number Of Servers In Cluster Address: 3 Number of servers to be listed from this cluster when generating a cluster address automatically. This setting has no effect if Cluster Address is explicitly set. [More Info...](#)

☐ **Enable Transaction Affinity** If enabled, a server's transaction requests go to servers in the cluster that are already participating in the global transaction. [More Info...](#)

☐ **Enable Concurrent Single Activation** Specifies whether to allow the concurrent activation, deactivation, or restart of two or more singleton services. [More Info...](#)

Advanced

WebLogic Plug-In Enabled: ☒ yes Specifies if this cluster will receive requests from a proxy plug-in or HttpClusterServlet. [More Info...](#)

10. Change in Weblogic Deployments

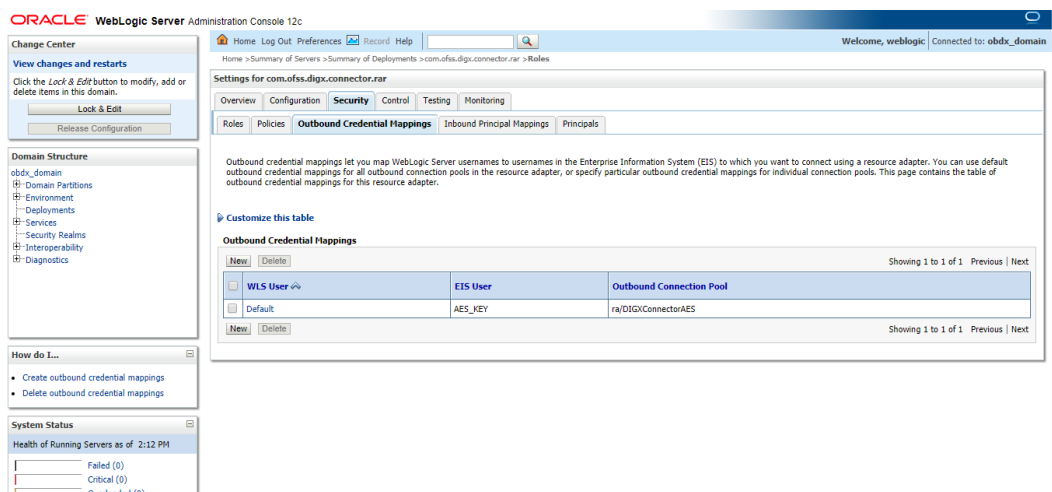
10.1 Creating a Connection in Connector ear

- Start the managed server if it is down.
- Summary of Deployments > com.ofss.digx.connector.rar > Security > Outbound Credential Mappings



The screenshot shows the WebLogic Server Administration Console. On the left, the 'System Status' panel displays the health of running servers as of 1:45 PM. The status is 'OK (1)'. The main area shows the 'Summary of Deployments' for the 'com.ofss.digx.connector.rar' resource adapter. The table lists various deployments, including 'adf.oracle.domain.webapp.apache.httpcore(1.0,12.2.1.3.0)', 'adf.oracle.domain.webapp.apache.velocity(1.0,12.2.1.3.0)', 'adf.oracle.domain.webapp.batik-bundle(1.0,12.2.1.3.0)', 'adf.oracle.domain.webapp.guava(1.0,12.2.1.3.0)', 'adf.oracle.domain.webapp.xml-api-ext(1.0,12.2.1.3.0)', 'AuditMDBEAR', 'BatchResourceAdapter', 'coherence-transaction-rar', 'com.ofss.digx.app.connector', 'Modules', 'EJBs', 'None to display', 'Web Services', 'None to display', 'DMS Application (12.2.1.1.0)', 'em', and 'emagentsdimplpriv.jar(12.4,12.1.0.4.0)'. The table columns include Name, Status, Type, Target, and Size.

Name	Status	Type	Target	Size
adf.oracle.domain.webapp.apache.httpcore(1.0,12.2.1.3.0)	Active	Library	AdminServer, obdx_cluster	100
adf.oracle.domain.webapp.apache.velocity(1.0,12.2.1.3.0)	Active	Library	AdminServer, obdx_cluster	100
adf.oracle.domain.webapp.batik-bundle(1.0,12.2.1.3.0)	Active	Library	AdminServer, obdx_cluster	100
adf.oracle.domain.webapp.guava(1.0,12.2.1.3.0)	Active	Library	AdminServer, obdx_cluster	100
adf.oracle.domain.webapp.xml-api-ext(1.0,12.2.1.3.0)	Active	Library	AdminServer, obdx_cluster	100
AuditMDBEAR	New	Enterprise Application	obdx_cluster	100
BatchResourceAdapter	New	Enterprise Application	obdx_cluster	100
coherence-transaction-rar	Active	Resource Adapter	AdminServer, obdx_cluster	100
com.ofss.digx.app.connector	New	Enterprise Application	obdx_cluster	100
Modules				
com.ofss.digx.connector.rar		Resource Adapter		
EJBs				
None to display				
Web Services				
None to display				
DMS Application (12.2.1.1.0)	Active	Web Application	AdminServer, obdx_cluster	5
em	Active	Enterprise Application	AdminServer	400
emagentsdimplpriv.jar(12.4,12.1.0.4.0)	Active	Library	AdminServer	100

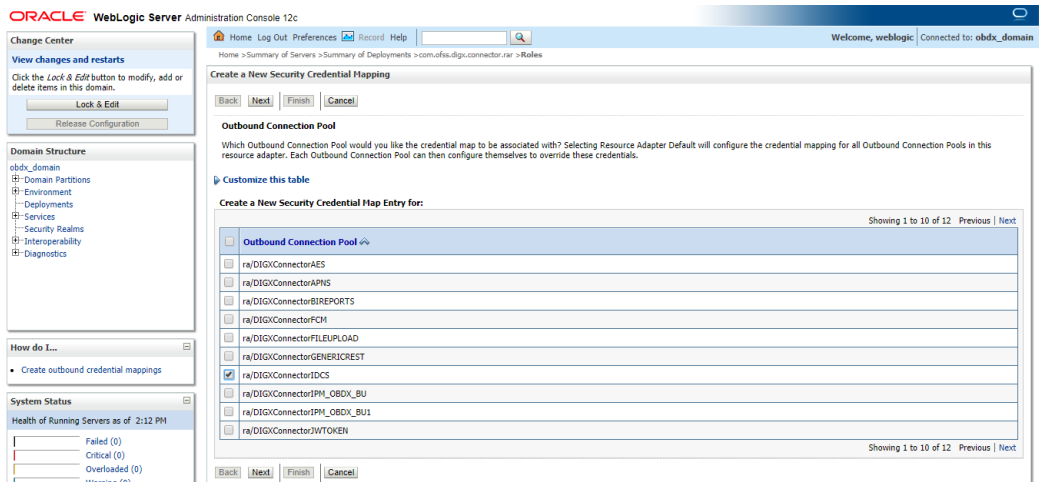


The screenshot shows the 'Outbound Credential Mappings' page in the WebLogic Server Administration Console. The page title is 'Settings for com.ofss.digx.connector.rar'. The 'Security' tab is selected, and the 'Outbound Credential Mappings' sub-tab is active. The page contains a table with the following data:

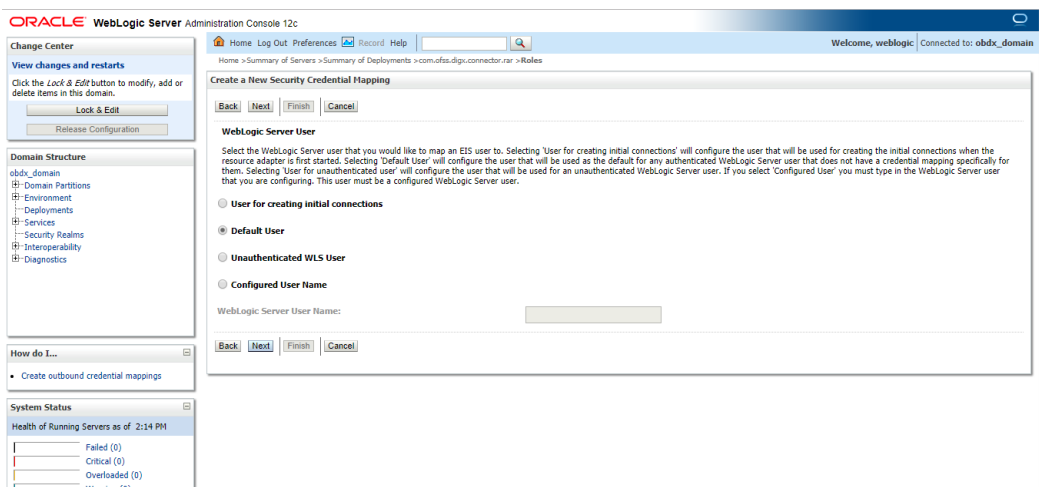
WLS User	EIS User	Outbound Connection Pool
Default	AES_KEY	ra/DIGXConnectorAES

The page also includes a 'Customize this table' section with 'New' and 'Delete' buttons. The 'System Status' panel on the left shows the health of running servers as of 2:12 PM, with a status of 'OK (1)'.

Click **New**.



Click **Next**.



Click **Next**.

Create a new Security Credential Mapping –

- Outbound Connection Pool: **ra/DIGXConnectorIDCS**
- WebLogic Server User: **Default**
- EIS User Name: <client_id of OBDX client in IDCS>
- EIS Password: <client_secret of OBDX client in IDCS>

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help Welcome, weblogic Connected to: obdx_domain

Change Center
View changes and restarts
Click the *Lock & Edit* button to modify, add or delete items in this domain.
Lock & Edit
Release Configuration

Domain Structure
obdx_domain
├─ Domain Partitions
├─ Environment
├─ Deployments
├─ Services
├─ Security Realms
├─ Interoperability
└─ Diagnostics

How do I...
• Create outbound credential mappings

System Status
Health of Running Servers as of 2:15 PM
Failed (0)
Critical (0)
Overloaded (0)
Warning (0)

Create a New Security Credential Mapping
Back Next Finish Cancel

EIS User Name and Password
Configure the EIS User Name and Password that you would like to map the WebLogic Server User to:
* Indicates required fields

Enter the EIS User Name:
* EIS User Name: ce17bcdde6a944fdbc21e1b1e

Enter the EIS Password:
* EIS Password:

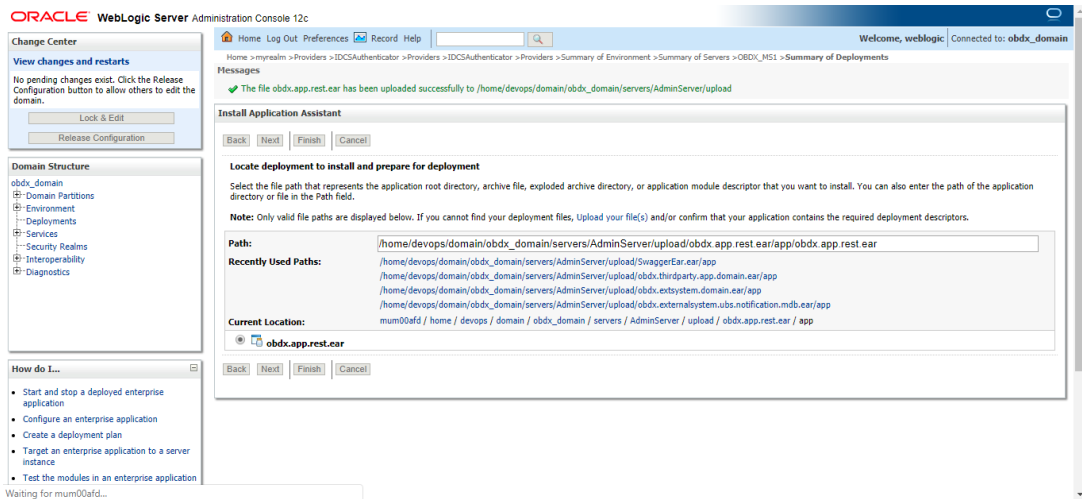
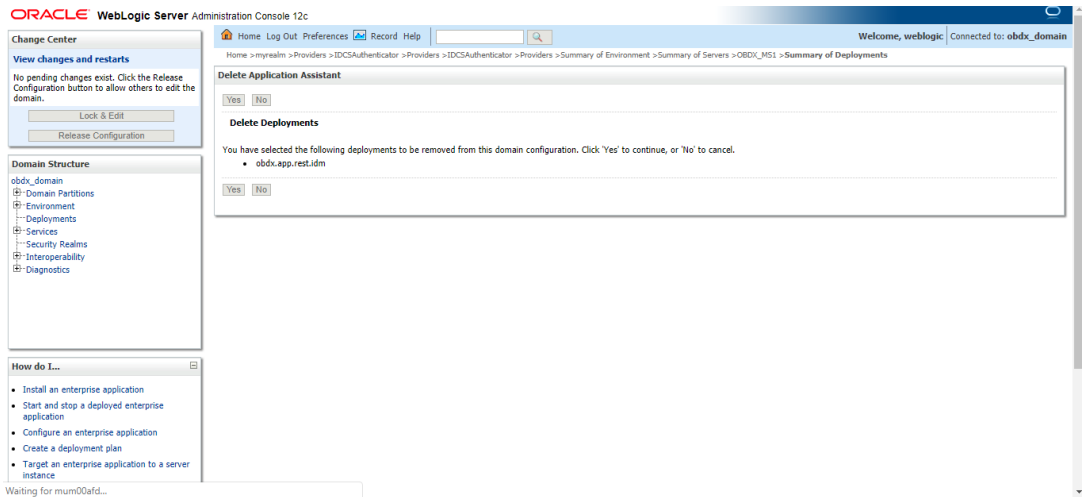
* Confirm Password:
.....

Back Next Finish Cancel

Click **Finish**.

- Delete **obdx.app.rest.idm.ear** and install deployment **obdx.app.rest.ear** from <Installer_Path>\OBDX_Patch_Installer\installables\app\components\obdx\deploy\obdx.app.rest.ear in **Installer.zip**.

obdx_cluster						0
jeff(2.0,1.0.0.0_2-2-8)	Active	Library	AdminServer, obdx_cluster	Global		100
jeff(1.2,1.2.0.1)	Active	Library	AdminServer, obdx_cluster	Global		100
log4j_jar(1.3,1.2.15)	Active	Library	AdminServer	Global		100
obdx.app.core.domain(18.2.0.2.0,359)	Active	Library	AdminServer, obdx_cluster	Global		0
obdx.app.core.patch(18.2.0.2.0,359)	Active	Library	AdminServer, obdx_cluster	Global		0
obdx.app.domain(18.2.0.2.0,359)	Active	Library	AdminServer, obdx_cluster	Global		0
obdx.app.framework(18.2.0.2.0,359)	Active	Library	AdminServer, obdx_cluster	Global		0
obdx.app.mdb.report	New	Enterprise Application	obdx_cluster	Global		100
obdx.app.rest.idm	New	Enterprise Application	obdx_cluster	Global		100
obdx.app.soap	New	Enterprise Application	obdx_cluster	Global		100
obdx.app.timer	New	Enterprise Application	obdx_cluster	Global		100
obdx.externalsystem.obpm.notification.mdb	New	Enterprise Application	obdx_cluster	Global		100
obdx.externalsystem.ubs.notification.mdb	New	Enterprise Application	obdx_cluster	Global		100
obdx.extsystem.domain(18.2.0.2.0,359)	Active	Library	AdminServer, obdx_cluster	Global		0
obdx.thirdparty.app.domain(18.2.0.2.0,359)	Active	Library	AdminServer, obdx_cluster	Global		0
odl.clickhistory(1.0,12.2.1)	Active	Library	AdminServer, obdx_cluster	Global		100
odl.clickhistory.webapp(1.0,12.2.1)	Active	Library	AdminServer, obdx_cluster	Global		100



11. Create Client Applications for Internal OBDX Apps in IDCS Console

Client applications need to be created for below Internal applications.

1. Mobile App
2. Siri Chatbot
3. Snapshot
4. Wearable

The screenshot shows the 'Add Confidential Application' wizard in the ZigBank Identity Cloud Service console. The 'Details' step is active, showing a progress bar with steps: Details, Client, Resources, Web Tier Policy, and Authorization. The 'App Details' section includes a 'Name' field with the value 'OBDX182InstallerMOBAPP', a 'Description' field, an 'Application Icon' field with a cloud icon and an 'Upload' button, and an 'Application URL' field. A tooltip indicates 'Enter 125 or fewer characters' for the name field. A 'Cancel' button is on the left and a 'Next >' button is on the right.

The screenshot shows the 'Add Confidential Application' wizard in the ZigBank Identity Cloud Service console, now on the 'Client' step. The progress bar shows 'Details' as completed and 'Client' as the current step. The 'Configure this application as a client now' radio button is selected. The 'Authorization' section includes 'Allowed Grant Types' (Resource Owner, Client Credentials, JWT Assertion, SAML2 Assertion, Refresh Token, Authorization Code, Implicit, Device Code), 'Allow non-HTTPS URLs' (Redirect URL, Logout URL, Post Logout Redirect URL), 'Security' (Trusted Client, Certificate, Import), and 'Allowed Operations' (Introspect, On behalf Of). A '< Back' button is on the left and a 'Next >' button is on the right.

Add Confidential Application

[< Back](#)

Details

Client

Resources

Web Tier Policy

Authorization

[Next >](#)

Expose APIs to Other Applications

Specify the APIs that need to be protected.

☒ Configure this application as a resource server now
 ☐ Skip for later

Configure application APIs that need to be OAuth protected

Access Token Expiration seconds

Is Refresh Token Allowed ☒

Refresh Token Expiration seconds

Primary Audience

Secondary Audiences [Add](#)

Secondary Audience Protected

No data to display.

ZigBank Identity Cloud Service

AO

Add Confidential Application

[< Back](#)

Details

Client

Resources

Web Tier Policy

Authorization

[Next >](#)

Web Tier Policy

Use this page to configure, edit, and validate a web tier policy. Additionally, you can import and export existing policies.

☐ Configure Web Tier Policy for this application
 ☒ Skip for later

ZigBank Identity Cloud Service

AO

Add Confidential Application

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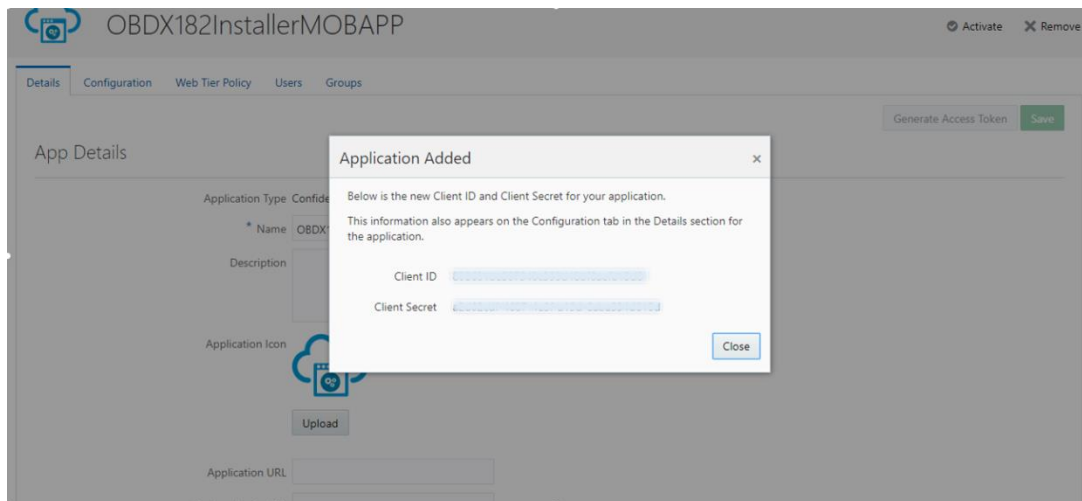
Web Tier Policy

Authorization

[Finish](#)

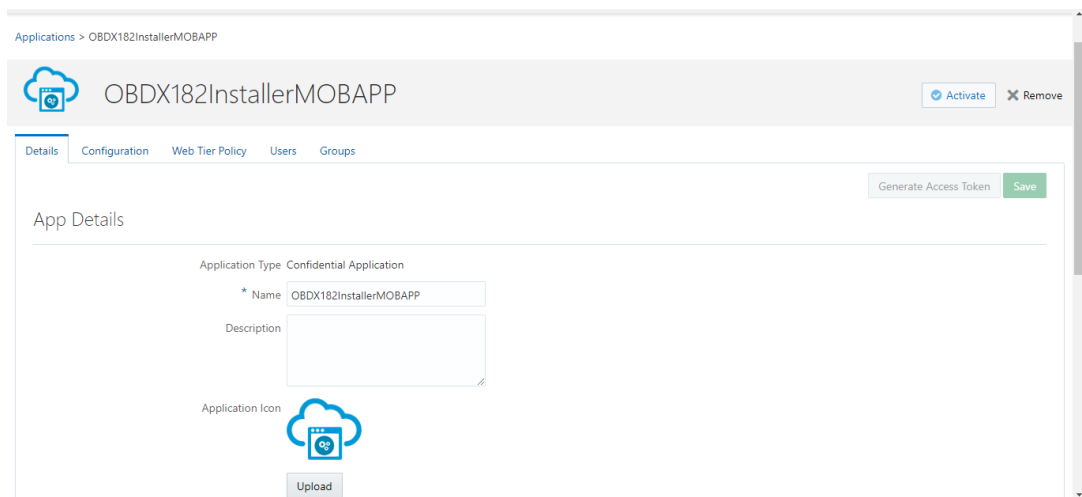
Authorization

Enforce Grants as Authorization ☒



Glossary of parameters:

<code><client_id_of_SNAPSHOT_client></code>	Client Id of Snapshot app created in IDCS
<code><client_id_of_MobileApp_client></code>	Client Id of Mobile app created in IDCS created above
<code><client_id_of_SIRICHATBOT_client></code>	Client Id of Siri chatbot app created in IDCS
<code><client_id_of_WEARABLE_client></code>	Client Id of Wearable app created in IDCS



Click **Activate** button.

Similarly, do the same for the rest.

12. Database Scripts (to be executed after day0 scripts)

Replace below parameters in database scripts with appropriate values as per glossary.

```
<tenant-base-url>

<client_id_of_SNAPSHOT_client>

<client_id_of_MobileApp_client>

<client_id_of_SIRICHATBOT_client>

<client_id_of_WEARABLE_client>
```

```
Insert into DIGX_FW_CONFIG_ALL_B
(PROP_ID,CATEGORY_ID,PROP_VALUE,FACTORY_SHIPPED_FLAG,PROP_COMMENTS,SUMMARY_TEXT,CREATED_BY,CREATION_DATE,
LAST_UPDATED_BY, LAST_UPDATED_DATE,OBJECT_STATUS,OBJECT_VERSION_NUMBER,EDITABLE,CATEGORY_DESCRIPTION) values
('POLICY_STORE_UTIL','SecurityConstants','IGF','N',null,'Security Constant','ofssuser',sysdate,'ofssuser',sysdate,'Y',1,'N',null);
```

```
update DIGX_FW_CONFIG_ALL_B set prop_value =
'ipml.0,ORACLEBI12.2.1.2,GENERIC1.0,IDCS18.2.4',SUMMARY_TEXT = 'Entry to set IPM,ORCALE BI and IDCS at enterprise level' where category_id =
'extxfaceadapterconfig' and prop_id='01';
```

```
Insert into DIGX_FW_CONFIG_VAR_B
(PROP_ID,ENV_ID,PROP_VALUE,FACTORY_SHIPPED_FLAG,PROP_COMMENTS,CREATED_BY,CREATION_DATE,
LAST_UPDATED_BY, LAST_UPDATED_DATE,OBJECT_STATUS,OBJECT_VERSION_NUMBER,MODULE,DETERMINANT_VALUE,TYPE,UI_DEFINITION) values
('HOST_IP_IDCS','OBDX','<tenant-base-url>','Y','set host IP for IDCS REST calls','ofssuser',sysdate,'ofssuser',sysdate,null,null,'OTHERMODULE','OBDX_BU','TXT',{'title': "IDCS Host IP","validator":"","required":false});
```

```
Insert into DIGX_FW_CONFIG_VAR_B
(PROP_ID,ENV_ID,PROP_VALUE,FACTORY_SHIPPED_FLAG,PROP_COMMENTS,CREATED_BY,CREATION_DATE,
LAST_UPDATED_BY, LAST_UPDATED_DATE,OBJECT_STATUS,OBJECT_VERSION_NUMBER,MODULE,DETERMINANT_VALUE,TYPE,UI_DEFINITION) values
('HOST_PORT_IDCS','OBDX','443','Y','set host Port for IDCS REST calls','ofssuser',sysdate,'ofssuser',sysdate,null,null,'OTHERMODULE','OBDX_BU','TXT',{'title': "IDCS Host Port","validator":"PORT","required":false});
```

```
Insert into DIGX_FW_CONFIG_VAR_B
(PROP_ID,ENV_ID,PROP_VALUE,FACTORY_SHIPPED_FLAG,PROP_COMMENTS,CREATED_BY,CREATION_DATE,
LAST_UPDATED_BY, LAST_UPDATED_DATE,OBJECT_STATUS,OBJECT_VERSION_NUMBER,MODULE,DETERMINANT_VALUE,TYPE,UI_DEFINITION) values
('IDCS_CONNECTION_SCHEME','OBDX','https','Y','set host connection scheme for IDCS REST calls
```

```
', 'ofssuser', sysdate, 'ofssuser', sysdate, null, null, 'OTHERMODULE', 'OBDX_B
U', 'TXT', '{"title": "IDCS Connection
Scheme", "validator": "", "required": false}');
```

```
delete from DIGX_UM_PWD_POLICY_ROLE_MAP where PASSWORDPOLICYID in
('0000001', '9999999');
```

```
delete from DIGX_UM_PWD_POLICY where PASSWORDPOLICYID in
('0000001', '9999999');
```

```
Update DIGX_FW_ACCESSPOINT set CLIENT_ID =
'<client_id_of_SNAPSHOT_client>' where ID = 'APSNAPSHOT';
```

```
Update DIGX_FW_ACCESSPOINT set CLIENT_ID =
'<client_id_of_MobileApp_client>' where ID = 'APMOBAPP';
```

```
Update DIGX_FW_ACCESSPOINT set CLIENT_ID =
'<client_id_of_SIRICHATBOT_client>' where ID = 'APSIRICHATBOT';
```

```
Update DIGX_FW_ACCESSPOINT set CLIENT_ID =
'<client_id_of_WEARABLE_client>' where ID = 'APWEARABLE';
```

```
Update DIGX_FW_CONFIG_VAR_B set PROP_VALUE = '<tenant-base-url>' where
PROP_ID = 'HOST_IP_IDCS' and DETERMINANT_VALUE in ('OBDX_BU', '*');
```

```
update DIGX_FW_CONFIG_OUT_RS_CFG_B set
CREDENTIAL_STORE_TYPE='credential_impl', CREDENTIAL_STORE_KEY = 'IDCS'
where service_id in ('introspectAccessToken', 'fetchAccessToken');
```

WebGate Configuration

13. Apply Webgate Patch on OHS using OPatch

Download the patch from the below link.

https://support.oracle.com/epmos/faces/PatchDetail?_afz.ctrl-state=hyoym65na_9&patch_name=28243743&releaseId=600000000073630&patchId=28243743&languageId=0&platformId=226&_afzLoop=441568515075199

Run below commands on webgate installation.

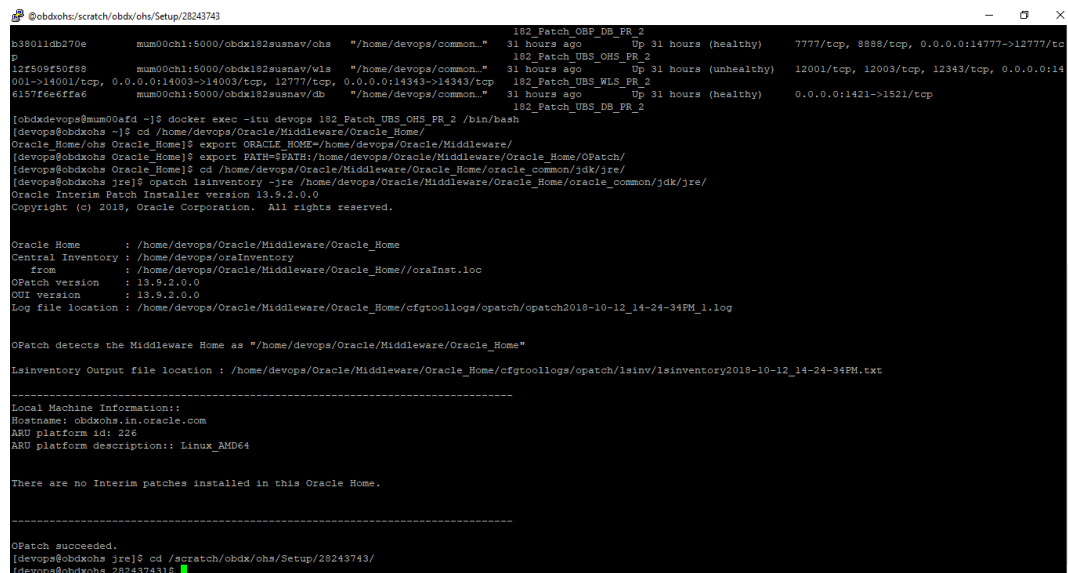
```
[devops@obdxohs ~]$ export ORACLE_HOME=<oracle-home-path>
Eg. export ORACLE_HOME=/home/devops/Oracle/Middleware/Oracle_Home/

[devops@obdxohs ~]$ export PATH=$PATH:<oracle-home-path>/OPatch/
Eg. export
PATH=$PATH:/home/devops/Oracle/Middleware/Oracle_Home/OPatch/

[devops@obdxohs ~]$ opatch lsinventory -jre <jre-path>
Eg. opatch lsinventory -jre
/home/devops/Oracle/Middleware/Oracle_Home/oracle_common/jdk/jre/

[devops@obdxohs ~]$ cd <local-patch-path>
Eg. cd /scratch/obdx/ohs/p28243743_122130_Linux-x86-64/28243743/

[devops@obdxohs 28243743]$ opatch apply
```



```
@obdxohs/scratch/obdx/ohs/Setup/28243743
b38011db270e      mmm00chl:5000/obdx182susnav/ohs      "/home/devops/common..."      182_Patch_OBF_DB_FR_2
p                  31 hours ago      Up 31 hours (healthy)      7777/tcp, 8888/tcp, 0.0.0.0:14777->12777/tc
12f50sf50f88      mmm00chl:5000/obdx182susnav/wls      "/home/devops/common..."      182_Patch_UBS_OHS_FR_2
001-314001/tcp, 0.0.0.0:14003->14003/tcp, 12777/tcp, 0.0.0.0:14343->14343/tcp      31 hours ago      Up 31 hours (unhealthy)      12001/tcp, 12003/tcp, 12343/tcp, 0.0.0.0:14
6157f6e6ffa6      mmm00chl:5000/obdx182susnav/db      "/home/devops/common..."      182_Patch_UBS_WLS_FR_2
                  31 hours ago      Up 31 hours (healthy)      0.0.0.0:1421->1521/tcp
                  182_Patch_UBS_DB_FR_2
[devops@obdxohs ~]$ docker exec -it devops 182_Patch_UBS_OHS_FR_2 /bin/bash
[devops@obdxohs ~]$ cd /home/devops/Oracle/Middleware/Oracle_Home/
[devops@obdxohs Oracle_Home]$ export ORACLE_HOME=/home/devops/Oracle/Middleware/
[devops@obdxohs Oracle_Home]$ export PATH=$PATH:/home/devops/Oracle/Middleware/Oracle_Home/OPatch/
[devops@obdxohs Oracle_Home]$ cd /home/devops/Oracle/Middleware/Oracle_Home/oracle_common/jdk/jre/
[devops@obdxohs jre]$ opatch lsinventory -jre /home/devops/Oracle/Middleware/Oracle_Home/oracle_common/jdk/jre/
Oracle Interim Patch Installer version 13.9.2.0.0
Copyright (c) 2018, Oracle Corporation. All rights reserved.

Oracle Home      : /home/devops/Oracle/Middleware/Oracle_Home
Central Inventory : /home/devops/oraInventory
   from           : /home/devops/Oracle/Middleware/Oracle_Home/oraInst.loc
OPatch version   : 13.9.2.0.0
OUI version      : 13.9.2.0.0
Log file location : /home/devops/Oracle/Middleware/Oracle_Home/cfgtoollogs/opatch/opatch2018-10-12_14-24-34PM_1.log

OPatch detects the Middleware Home as "/home/devops/Oracle/Middleware/Oracle_Home"

Lsinventory Output file location : /home/devops/Oracle/Middleware/Oracle_Home/cfgtoollogs/opatch/lsinv/lsinventory2018-10-12_14-24-34PM.txt

-----
Local Machine Information::
  Hostname: obdxohs.in.oracle.com
  ARU platform id: 226
  ARU platform description: Linux_AMD64

There are no Interim patches installed in this Oracle Home.

-----

OPatch succeeded.
[devops@obdxohs jre]$ cd /scratch/obdx/ohs/Setup/28243743/
[devops@obdxohs 28243743]$
```

```
@obdxohs/scratch/obdx/ohs/Setup/28243743
from : /home/devops/Oracle/Middleware/Oracle_Home//oraInst.loc
OPatch version : 13.9.2.0.0
OUI version : 13.9.2.0.0
Log file location : /home/devops/Oracle/Middleware/Oracle_Home/cfgtoollogs/patch/patch2018-10-12_14-24-34PM_1.log

OPatch detects the Middleware Home as "/home/devops/Oracle/Middleware/Oracle_Home"
lsinventory Output file location : /home/devops/Oracle/Middleware/Oracle_Home/cfgtoollogs/patch/lsinv/lsinventory2018-10-12_14-24-34PM.txt

-----
Local Machine Information:
Hostname: obdxohs.in.oracle.com
ARU platform id: 226
ARU platform description: Linux_AMD64

There are no Interim patches installed in this Oracle Home.

-----
OPatch succeeded.
[devops@obdxohs jre]$ cd /scratch/obdx/ohs/Setup/28243743/
[devops@obdxohs 28243743]$ opatch apply
Oracle Interim Patch Installer version 13.9.2.0.0
Copyright (c) 2018, Oracle Corporation. All rights reserved.

Oracle Home : /home/devops/Oracle/Middleware/Oracle_Home
Central Inventory : /home/devops/orainventory
from : /home/devops/Oracle/Middleware/Oracle_Home//oraInst.loc
OPatch version : 13.9.2.0.0
OUI version : 13.9.2.0.0
Log file location : /home/devops/Oracle/Middleware/Oracle_Home/cfgtoollogs/patch/patch2018-10-12_14-25-54PM_1.log

OPatch detects the Middleware Home as "/home/devops/Oracle/Middleware/Oracle_Home"
Verifying environment and performing prerequisite checks...
OPatch continues with these patches: 28243743
Do you want to proceed? [y/n]
```

Enter y.

```
@obdxohs/scratch/obdx/ohs/Setup/28243743
[devops@obdxohs jre]$ cd /scratch/obdx/ohs/Setup/28243743/
[devops@obdxohs 28243743]$ opatch apply
Oracle Interim Patch Installer version 13.9.2.0.0
Copyright (c) 2018, Oracle Corporation. All rights reserved.

Oracle Home : /home/devops/Oracle/Middleware/Oracle_Home
Central Inventory : /home/devops/orainventory
from : /home/devops/Oracle/Middleware/Oracle_Home//oraInst.loc
OPatch version : 13.9.2.0.0
OUI version : 13.9.2.0.0
Log file location : /home/devops/Oracle/Middleware/Oracle_Home/cfgtoollogs/patch/patch2018-10-12_14-25-54PM_1.log

OPatch detects the Middleware Home as "/home/devops/Oracle/Middleware/Oracle_Home"
Verifying environment and performing prerequisite checks...
OPatch continues with these patches: 28243743
Do you want to proceed? [y/n]
y
User Responded with: Y
All checks passed.

Please shutdown Oracle instances running out of this ORACLE_HOME on the local system.
(Oracle Home = "/home/devops/Oracle/Middleware/Oracle_Home")

Is the local system ready for patching? [y/n]
y
User Responded with: Y
Backing up files...
Applying interim patch '28243743' to OH '/home/devops/Oracle/Middleware/Oracle_Home'
ApplySession: Optional component(s) [ oracle.oamclient.webgate.oid, 12.2.1.3.0 ] , [ oracle.oamclient.webgate.oid, 12.2.1.3.0 ] not present in the Oracle Home or a higher version is found.

Patching component oracle.oamclient.webgate.ohs, 12.2.1.3.0...
Patching component oracle.oamclient.webgate.ohs, 12.2.1.3.0...
Patch 28243743 successfully applied.
Log file location: /home/devops/Oracle/Middleware/Oracle_Home/cfgtoollogs/patch/patch2018-10-12_14-25-54PM_1.log

OPatch succeeded.
[devops@obdxohs 28243743]$
```

14. cloud.config

Go to this location <ohs-domain-path>/config/fmwconfig/components/OHS/instances/ohs1/webgate/config/

Eg.

/home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/components/OHS/instances/ohs1/webgate/config/

CREATE THE FOLLOWING FILE NAMED as cloud.config:

Replace below parameters in file:

<webserver_host_name>

<webserver_port>

```
{
  "cloudgateConfig":{
    "bootstrap":{
      "callbackPrefix": "<connection_scheme>://<webserver_host_name>:<webserver_port>/oauth/callback",
      "externalIdUrl": "https://<tenant-base-url>",
      "refresh_token": false
    },
    "rest":{
      "httpsVerifyHost": false,
      "httpsVerifyServer": false,
      "httpsCertAuthFile": "",
      "httpsCr1File": ""
    }
  }
}
```


15. cloud.policy

Go to this location [<ohs-domain-path>/config/fmwconfig/components/OHS/instances/ohs1/webgate/config/](#)

Eg.

`/home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/components/OHS/instances/ohs1/webgate/config/`

CREATE THE FOLLOWING FILE NAMED as cloud.policy:

Replace below parameter.

`<allowed_scope_name_of_scope_protected_in_OBDX_Client_App>`

```
{
  "cloudgatePolicy":{
    "webtierPolicy":[
      {
        "policyName":"default",
        "resourceFilters":[
          {
            "comment":"Test Application OAuth+Logout Filter",
            "type":"text",
            "filter":"/logout",
            "method":"oauth+logout"
          },
          {
            "comment":"Test Application Public Filter",
            "type":"regex",
            "filter":"/*.js",
            "method":"anonymous",
            "headers":[
              {
                "PolicyName":"$request.policy_name"
              },
              {
                "PolicyResourceMatched":"$request.policy_res"
              }
            ]
          }
        ]
      },
      {
        "comment":"Test Application OAuth Filter",
        "type":"regex",
        "filter":"/pages/*",
        "method":"oauth",
        "authorize":true,
        "scope":"<allowed_scope_name_of_scope_protected_in_OBDX_Client_App> openid",
        "idcscope":"protected openid",
        "headers":[
          {
            "UserName":"$subject.user.name"
          },
          {

```

```
{
    {
        "PrimaryEmail": "$subject.user.emails"
    },
    {
        "PolicyName": "$request.policy_name"
    },
    {
        "PolicyResourceMatched": "$request.policy_res"
    }
]
},
{
    "comment": "Test Application Public Filter",
    "type": "regex",
    "filter": "/**",
    "method": "anonymous",
    "headers": [
        {
            "PolicyName": "$request.policy_name"
        },
        {
            "PolicyResourceMatched": "$request.policy_res"
        }
    ]
}
]
}
```

16. CWallet configuration

```
[devops@obdxohs ~]$ mkdir <ohs-domain-  
path>/config/fmwconfig/components/OHS/instances/ohs1/webgate/config/cwg_wallet
```

Eg. mkdir

```
/home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmw  
config/components/OHS/instances/ohs1/webgate/config/cwg_wallet
```

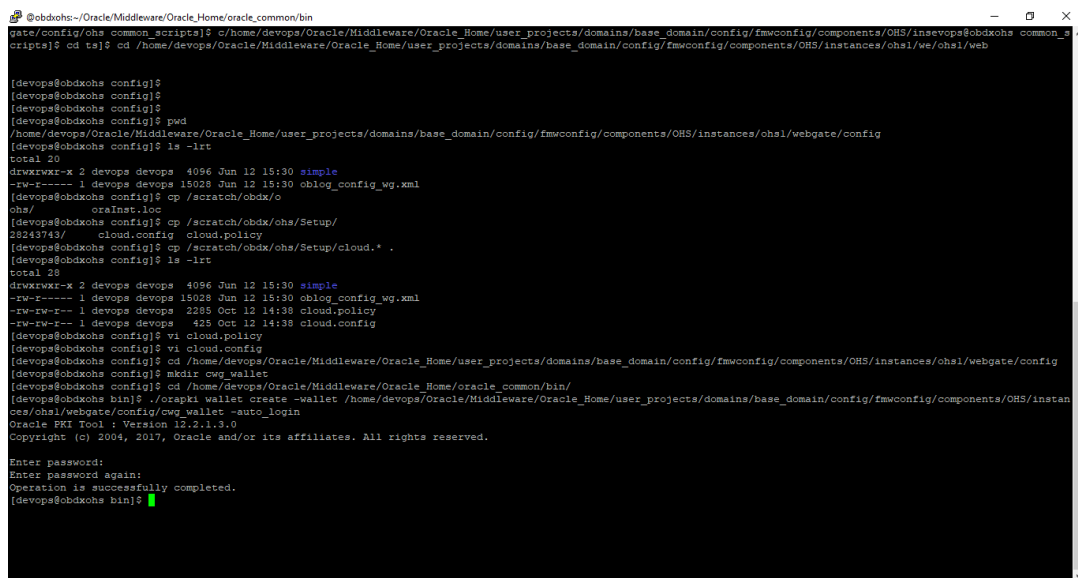
```
[devops@obdxohs ~]$ cd <oracle-home-path>/oracle_common/bin/
```

```
[devops@obdxohs bin]$ ./orapki wallet create -wallet <ohs-domain-  
path>/config/fmwconfig/components/OHS/instances/ohs1/webgate/config/cwg_  
wallet -auto_login
```

Eg. ./orapki wallet create -wallet

```
/home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmw  
config/components/OHS/instances/ohs1/webgate/config/cwg_wallet -auto_login
```

You will be asked to create wallet password here.



```
@obdxohs:~/Oracle/Middleware/Oracle_Home/oracle_common/bin
gate/config/ohs_common_scripts]$ cd /home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/components/OHS/instances/ohs1/web
cripts]$ cd ts]$ cd /home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/components/OHS/instances/ohs1/web

[devops@obdxohs config]$
[devops@obdxohs config]$
[devops@obdxohs config]$ pwd
/home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/components/OHS/instances/ohs1/webgate/config
[devops@obdxohs config]$ ls -lrt
total 20
drwxrwxr-x 2 devops devops 4096 Jun 12 15:30 simple
-rw-r----- 1 devops devops 15028 Jun 12 15:30 ohlog_config_wg.xml
[devops@obdxohs config]$ cp /scratch/obdx/o
ohs/
oraInst.loc
[devops@obdxohs config]$ cp /scratch/obdx/ohs/Setup/
28243743/ cloud.config cloud.policy
[devops@obdxohs config]$ cp /scratch/obdx/ohs/Setup/cloud.*
[devops@obdxohs config]$ ls -lrt
total 20
drwxrwxr-x 2 devops devops 4096 Jun 12 15:30 simple
-rw-r----- 1 devops devops 15028 Jun 12 15:30 ohlog_config_wg.xml
-rw-rw-r-- 1 devops devops 2288 Oct 12 14:38 cloud.policy
-rw-rw-r-- 1 devops devops 425 Oct 12 14:38 cloud.config
[devops@obdxohs config]$ vi cloud.policy
[devops@obdxohs config]$ vi cloud.config
[devops@obdxohs config]$ cd /home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/components/OHS/instances/ohs1/webgate/config
[devops@obdxohs config]$ mkdir cwg_wallet
[devops@obdxohs config]$ cd /home/devops/Oracle/Middleware/Oracle_Home/oracle_common/bin/
[devops@obdxohs bin]$ ./orapki wallet create -wallet /home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/components/OHS/instan
ces/ohs1/webgate/config/cwg_wallet -auto_login
Oracle FKI Tool : Version 12.2.1.3.0
Copyright (c) 2004, 2017, Oracle and/or its affiliates. All rights reserved.

Enter password:
Enter password again:
Operation is successfully completed.
[devops@obdxohs bin]$
```

```
[devops@obdxohs bin]$ export JAVA_HOME=<jre-path>
```

Eg. export

```
JAVA_HOME=/home/devops/Oracle/Middleware/Oracle_Home/oracle_common/jdk/  
jre
```

```
[devops@obdxohs bin]$ ./mkstore -wrl <ohs-domain-  
path>/config/fmwconfig/components/OHS/instances/ohs1/webgate/config/cwg_  
wallet -createUserCredential CWG id_secret_key <client-id> <client-secret>
```

Eg. ./mkstore -wrl

```
/home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_d  
omain/config/fmwconfig/components/OHS/instances/ohs1/webgate/config/cwg  
_wallet -createUserCredential CWG id_secret_key <client-id> <client-secret>
```

```

@obdxohs:~/Oracle/Middleware/Oracle_Home/oracle_common/bin
cripts]$ cd ts]$ cd /home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/components/OHS/instances/ohs1/web
[devops@obdxohs config]$
[devops@obdxohs config]$
[devops@obdxohs config]$ pwd
/home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/components/OHS/instances/ohs1/webgate/config
[devops@obdxohs config]$ ls -lrt
total 20
drwxrwxr-x 2 devops devops 4096 Jun 12 15:30 simple
-rw-r----- 1 devops devops 15028 Jun 12 15:30 oblog_config_wg.xml
[devops@obdxohs config]$ cp /scratch/obdx/o
ohs/
[devops@obdxohs config]$ cp /scratch/obdx/ohs/Setup/
28243743/ cloud.config
[devops@obdxohs config]$ cp /scratch/obdx/ohs/Setup/cloud.* .
[devops@obdxohs config]$ ls -lrt
total 28
drwxrwxr-x 2 devops devops 4096 Jun 12 15:30 simple
-rw-r----- 1 devops devops 15028 Jun 12 15:30 oblog_config_wg.xml
-rw-rw-r-- 1 devops devops 2285 Oct 12 14:38 cloud.policy
-rw-rw-r-- 1 devops devops 425 Oct 12 14:38 cloud.config
[devops@obdxohs config]$ vi cloud.config
[devops@obdxohs config]$ cd /home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/components/OHS/instances/ohs1/webgate/config
[devops@obdxohs config]$ mkdir cwg_wallet
[devops@obdxohs config]$ cd /home/devops/Oracle/Middleware/Oracle_Home/oracle_common/bin/
[devops@obdxohs bin]$ ./orapki wallet create -wallet /home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/components/OHS/instan
ces/ohs1/webgate/config/cwg_wallet -auto_login
Oracle PKI Tool : Version 12.2.1.3.0
Copyright (c) 2004, 2017, Oracle and/or its affiliates. All rights reserved.

Enter password:
Enter password again:
Operation is successfully completed.
[devops@obdxohs bin]$ export JAVA_HOME=/home/devops/Oracle/Middleware/Oracle_Home/oracle_common/jdk/jre
[devops@obdxohs bin]$ ./mkstore -wrl /home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/components/OHS/instances/ohs1/webgate
/config/cwg_wallet -createUserCredential CWG id_secret_key csl7b0de6e6a941fdbc21e1b5e23db26 532266b5-235c-356a-baad-2ba5e2bab7ba
Oracle Secret Store Tool : Version 12.2.1.3.0
Copyright (c) 2004, 2017, Oracle and/or its affiliates. All rights reserved.

Enter wallet password:
[devops@obdxohs bin]$

```

<passphrase> is the password phrase used for encryption. Enter a passphrase in below command and execute it.

```
[root@obdxohs devops]# openssl enc -aes-128-cbc -k "<passphrase>" -P -md sha256
```

```
salt=4EBB2F22640F225F
```

```
key=701593B3EDE07C37FD09ECB532F7E0E5
```

```
iv =E5D3D73CED2C624900F952C05BC73A6E
```

```
[devops@obdxohs bin]$ ./mkstore -wrl <ohs-domain-path>/config/fmwconfig/components/OHS/instances/ohs1/webgate/config/cwg_wallet -createUserCredential CWG enc_key enc <key>
```

Eg. ./mkstore -wrl
/home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_d
omain/config/fmwconfig/components/OHS/instances/ohs1/webgate/config/cwg
_wallet -createUserCredential CWG enc_key enc <key>

Please enter the wallet password given above.

```
[devops@obdxohs bin]$ ./orapki wallet display -wallet <ohs-domain-path>/config/fmwconfig/components/OHS/instances/ohs1/webgate/config/cwg_wallet
```

Eg. ./orapki wallet display -wallet
/home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_d
omain/config/fmwconfig/components/OHS/instances/ohs1/webgate/config/cwg
_wallet

```

@obdxohs/home/devops/Oracle/Middleware/Oracle_Home/oracle_common/bin
openssl098e.x86_64 0:0.9.8e-29.el7_2.3

Dependency Installed:
keyutils-libs-devel.x86_64 0:1.5.8-3.el7 krb5-devel.x86_64 0:1.15.1-19.el7
libcom_err-devel.x86_64 0:1.42.9-12.el7_5 libkadm5.x86_64 0:1.15.1-19.el7
libselinux-devel.x86_64 0:2.5-12.0.1.el7 libsepol-devel.x86_64 0:2.5-8.1.el7
libverto-devel.x86_64 0:0.2.5-4.el7 pcre-devel.x86_64 0:8.32-17.el7
zlib-devel.x86_64 0:1.2.7-17.el7

Dependency Updated:
krb5-libs.x86_64 0:1.15.1-19.el7 libcom_err.x86_64 0:1.42.9-12.el7_5
libselinux.x86_64 0:2.5-12.0.1.el7 libselinux-utils.x86_64 0:2.5-12.0.1.el7

[root@obdxohs devops]# openssl enc -aes-128-cbc -k "god bless you" -P -md sha256
salt=59E54065F01C156# openssl enc -aes-128-cbc -k "god bless you" -P -md sha256
key=611D6C63AD4A55FABFE06EE0C9E1658
iv=97A2UC0C3AD4A55FABFE06EE0C9E1658
[root@obdxohs devops]# ./mkstore -url /home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/components/OHS/instances/ohs1/webgate/c
e/config/cwg wallet -createUserCredential CWG enc_key enc 611D6C63AD4A55FABFE06EE0C9E1658
bash: ./mkstore: No such file or directory
[root@obdxohs devops]# cd /home/devops/Oracle/Middleware/Oracle_Home/oracle_common/bin/
[root@obdxohs bin]# ./mkstore -url /home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/components/OHS/instances/ohs1/webgate/c
onfig/cwg wallet -createUserCredential CWG enc_key enc 611D6C63AD4A55FABFE06EE0C9E1658
ERROR: No Java
/home/devops/Oracle/Middleware/Oracle_Home/oracle_common/jdk or $JAVA_HOME should point to valid Java runtime
[root@obdxohs bin]# export JAVA_HOME=/home/devops/Oracle/Middleware/Oracle_Home/oracle_common/jdk/jre
[root@obdxohs bin]# ./mkstore -url /home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/components/OHS/instances/ohs1/webgate/c
onfig/cwg wallet -createUserCredential CWG enc_key enc 611D6C63AD4A55FABFE06EE0C9E1658
Oracle Secret Store Tool : Version 12.2.1.3.0
Copyright (c) 2004, 2017, Oracle and/or its affiliates. All rights reserved.

Enter wallet password:
[root@obdxohs bin]# ./orapki wallet display -wallet /home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/components/OHS/instanc
es/ohs1/webgate/config/cwg_wallet
Oracle PKI Tool : Version 12.2.1.3.0
Copyright (c) 2004, 2017, Oracle and/or its affiliates. All rights reserved.

Requested Certificates:
User Certificates:
Oracle Secret Store entries:
CWG#3#enc_key
CWG#3#id_secret_key
Trusted Certificates:
[root@obdxohs bin]#

```

17. Enabling webgate in httpd.conf

Go to <ohs-domain-path>/config/fmwconfig/components/OHS/instances/ohs1/

Eg.

/home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/components/OHS/instances/ohs1/

UNCOMMENT THE FOLLOWING:

```
include "webgate.conf"
```

18. Change in mod_wl_ohs.conf

Go to <ohs-domain-path>/config/fmwconfig/components/OHS/instances/ohs1/

ADD THE FOLLOWING:

```
<IfModule weblogic_module>
    WebLogicHost obdxwls.in.oracle.com
    WebLogicPort 12003
    Debug ON
    WLLogFile /scratch/obdx/ohs/logs/weblogic.log
    MatchExpression /digx/*
</IfModule>

<Location /digx>
    WLSRequest On
    WLPProxySSL ON
    WLPProxySSLPassThrough ON
</Location>
```

19. UI Changes

19.1 constants.js:

In UI deployments, go to channel\framework\js\constants\constants.js file, keep the value of 'authenticator' as below.

authenticator: "IDCSAuthenticator"

19.2 idcs-config.json:

In UI deployments, go to channel\json\index\login\idcs-config.json file, put the appropriate values of OBDX Client Application in IDCS.

- <name of obdx client app in idcs> is the client application name. Eg. "OBDXClient"
- <client id of obdx client app in idcs> is client id of client application. Eg. "00fa15d18cd147398ca4b53f957a4e3f"
- <client secret of obdx client app in idcs> is the client secret of client application.