

Oracle Banking Digital Experience

**IDCS-OBDX Setup Guide
Release 19.1.0.0.0**

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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 19.1.0.0.0, 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

1. 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

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

3. 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

4. Click **Finish**. You will get a message 'Group administrator has been successfully added.'
5. 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

6. Click **Finish**. You will get a message 'Group retailuser has been successfully added.'
7. 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

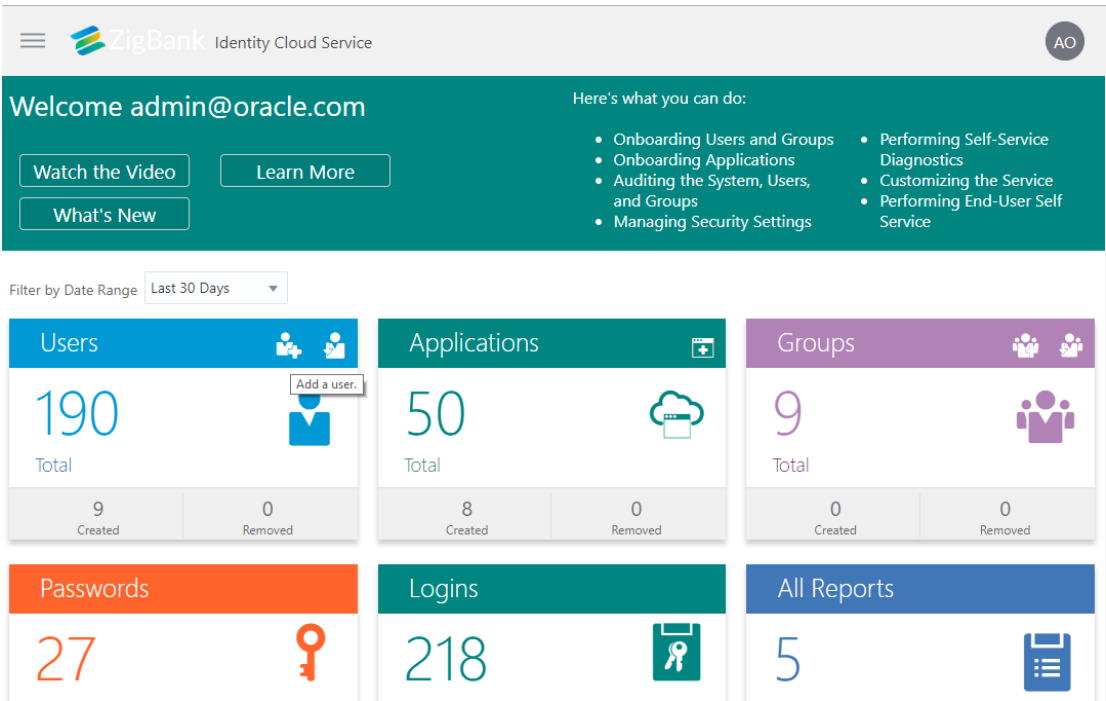
* Name

Description

User can request access ☒

Next Finish

8. Click **Finish**. You will get a message 'Group corporateuser has been successfully added.'
9. Click on **Add a user** button on **Dashboard** screen as shown below.



10. 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

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

Add User

Step 2: Assign User to Groups (Optional)

☐ Select All

Selected: 1

Clear Selection

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

Page 1 of 1 (1-8 of 8 items)

<

>

1

<

>

Back

Finish

12. 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

1. Download the patch from the below link.
ARU 22260908
2. Extract the zip on weblogic machine.
3. 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

4. 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:
25559137, 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 8898 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/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]
```

5. Press 'y'

```
-----

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 8898 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/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]
```

6. 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

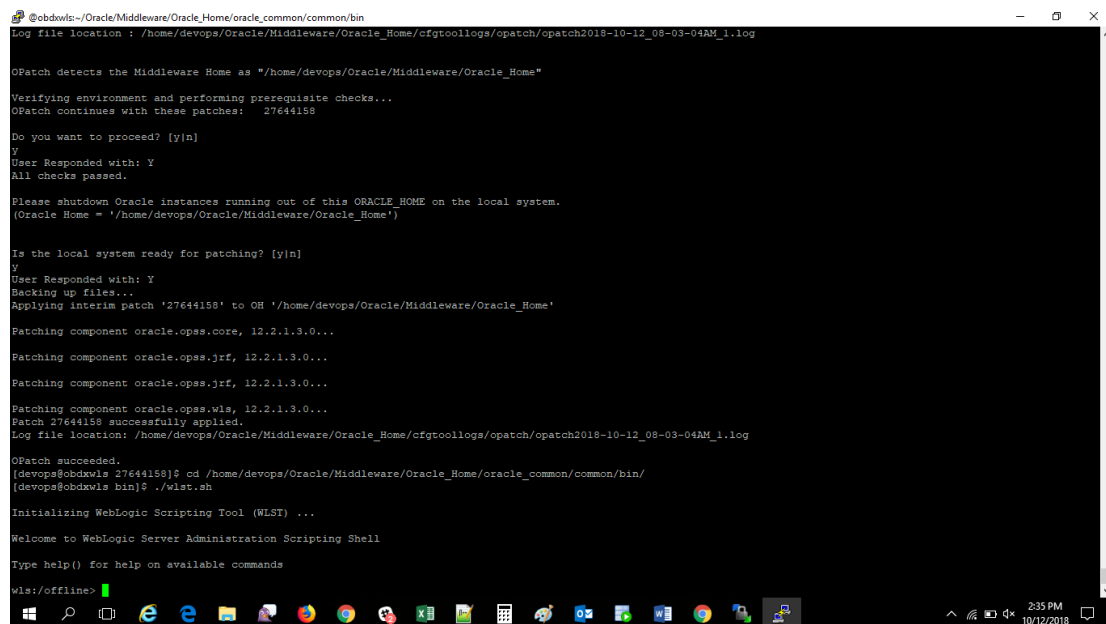
1. Run the below commands.

```
[devops@obdxwls frmwconfig]$ 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>
```

2. 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

1. Add the following to the `jps-config.xml` at `<weblogic-domain-path>/config/fmwconfig/`
2. 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>`

3. 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:

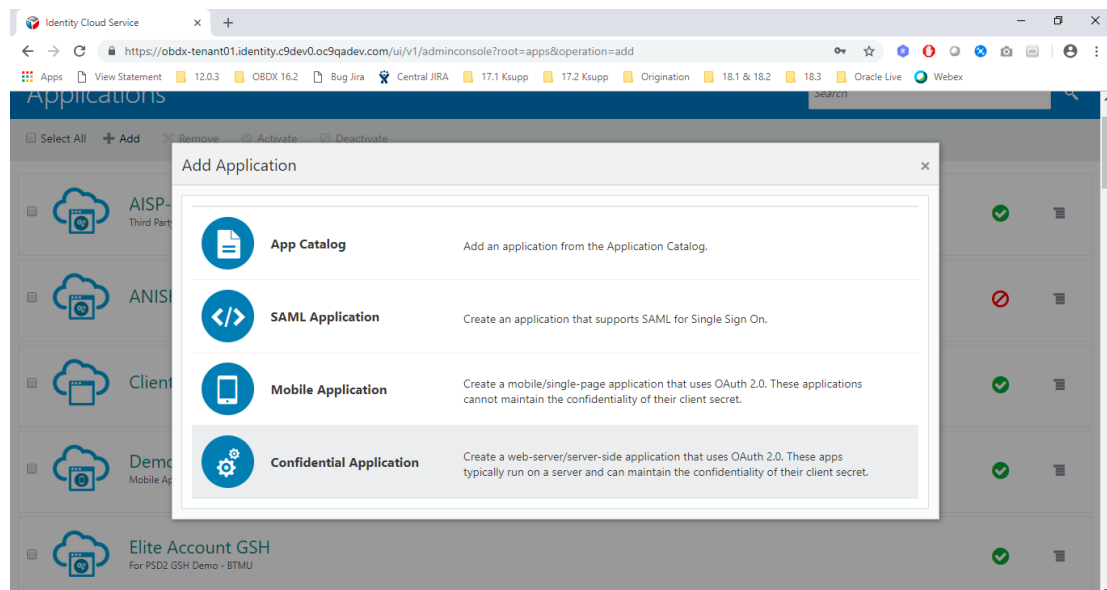
- Change `<serviceInstanceRef ref="idstore.custom"/>` to `<serviceInstanceRef
ref="idstore.scim"/>`

6. Create an OBDX Client Application in IDCS Console

1. Go to IDCS Admin Console → Enter Admin user name and Password.
2. 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	<u><connection_scheme>://<webserver_host_name>:<webserver_port></u>
Redirect URL	<u><Application URL>/oauth/callback</u>
Primary Audience	<u><Name></u>
Secondary Audience	<u><Application URL></u>



The screenshot shows the 'Add Confidential Application' form in the IDCS Console. The browser address bar indicates the URL: `https://obdx-tenant01.identity.c9dev0.oc9qadev.com/ui/v1/adminconsole?root=apps&app=add-CustomWebAppTemplateId`. The form has a progress bar at the top with five steps: Details (active), Client, Resources, Web Tier Policy, and Authorization. The 'Details' section includes the following fields:

- Name:** OBDX182Installer
- Description:** (empty text area)
- Application Icon:** A cloud icon with a lock symbol. Below it is an 'Upload' button.
- Application URL:** `http://mum00afd.in.oracle.com:14777`
- Custom Login URL:** (empty text field)
- Custom Logout URL:** (empty text field)

The screenshot shows the 'Add Confidential Application' form in the IDCS Console, now on the 'Client' tab. The 'Application URL' field is populated with `http://mum00afd.in.oracle.com:14777`. Below it are empty text fields for 'Custom Login URL', 'Custom Logout URL', 'Custom Error URL', and 'Linking callback URL'. There is an 'Upload' button above the 'Application URL' field. The 'Tags' section has a heading 'Add tags to your applications to organize and identify them. A tag consists of a key-value pair.' and an 'Add Tag' button. The 'Display Settings' section at the bottom has two checkboxes: 'Display in My Apps' (unchecked) and 'User can request access' (checked).

3. Click Next

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

Allowed Operations ☒ Introspect ☒ On behalf Of

Resource Protected Scope

No data to display.

Grant the client access to Identity Cloud Service Admin APIs

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

4. Click **Next**

Identity Cloud Service

https://obdx-tenant01.identity.c9dev0.oc9qadev.com/ui/v1/adminconsole?root=apps&app=add-CustomWebAppTemplateId

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: 3,600 seconds

Is Refresh Token Allowed: ☐

Refresh Token Expiration: 604,800 seconds

* Primary Audience: OBDX182Installer

Secondary Audiences: Add

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

Identity Cloud Service

https://obdx-tenant01.identity.c9dev0.oc9qadev.com/ui/v1/adminconsole?root=apps&app=add-CustomWebAppTemplateId

Expose APIs to Other Applications

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: 3,600 seconds

Is Refresh Token Allowed: ☐

Refresh Token Expiration: 604,800 seconds

* Primary Audience: OBDX182Installer

Secondary Audiences: Add

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

Add Scope

* Scope: accounts

Description: App will access your accounts

Requires Consent: ☒

Add

Scope	Protected	Description	Requires Consent
No data to display.			

Identity Cloud Service

Configure application APIs that need to be OAuth protected

Access Token Expiration: 3,600 seconds

Is Refresh Token Allowed: ☐

Refresh Token Expiration: 604,800 seconds

* Primary Audience: OBDX182Installer

Secondary Audiences: Add

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

Scopes: Add

Scope	Protected	Description	Requires Consent
accounts	No	App will access your accounts	true
protected	No	Scope for protected resources	false
payments	No	App will make payment on your behalf	true

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

Identity Cloud Service

Token Issuance Policy

Authorized Resources: ☐ All ☐ Tagged ☒ Specific

Resources

+ Add Scope

Resource	Protected	Scope
OBDX182Installer	No	OBDX182Installeraccounts
OBDX182Installer	No	OBDX182Installerprotected
OBDX182Installer	No	OBDX182Installerpayments

Grant the client access to Identity Cloud Service Admin APIs

+ Add

6. Note down the name of protected scope above.

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

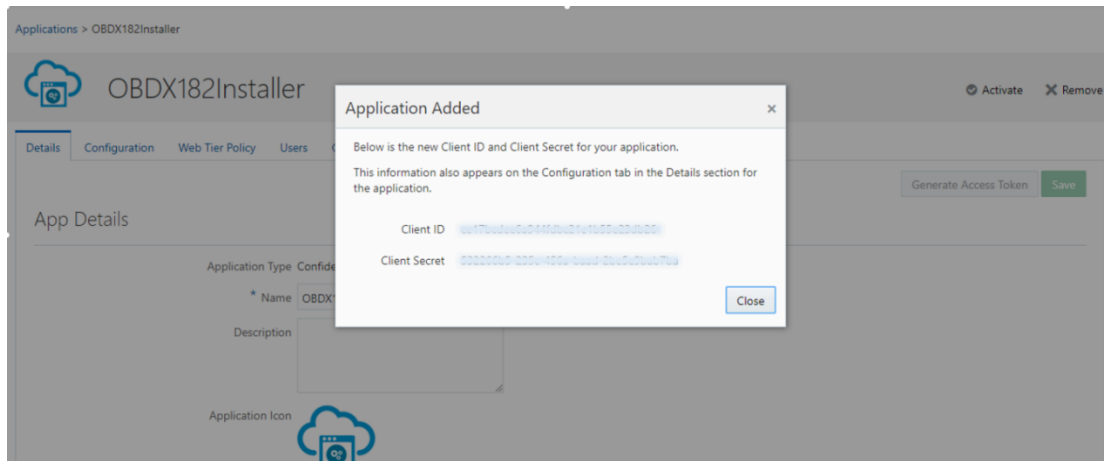
7. Next Go to **Web Tier Policy** tab

The screenshot shows the 'Add Confidential Application' wizard in the Identity Cloud Service console. The breadcrumb navigation at the top includes 'Apps', 'View Statement', '12.0.3', 'OBDX 16.2', 'Bug Jira', 'Central JIRA', '17.1 Ksupp', '17.2 Ksupp', 'Origination', '18.1 & 18.2', '18.3', 'Oracle Live', and 'Webex'. The wizard progress bar shows five steps: Details, Client, Resources, Web Tier Policy (current), and Authorization. The 'Web Tier Policy' section has a heading and a description: 'Use this page to configure, edit, and validate a web tier policy. Additionally, you can import and export existing policies.' Below this, there are two radio buttons: 'Configure Web Tier Policy for this application' (selected) and 'Skip for later'. A 'Next >' button is located at the top right of the wizard.

8. Click Next

The screenshot shows the 'Add Confidential Application' wizard in the Identity Cloud Service console, now at the 'Authorization' step. The breadcrumb navigation and progress bar are the same as in the previous screenshot. The 'Authorization' section has a heading and a checkbox labeled 'Enforce Grants as Authorization' which is checked. A green 'Finish' button is now visible at the top right of the wizard.

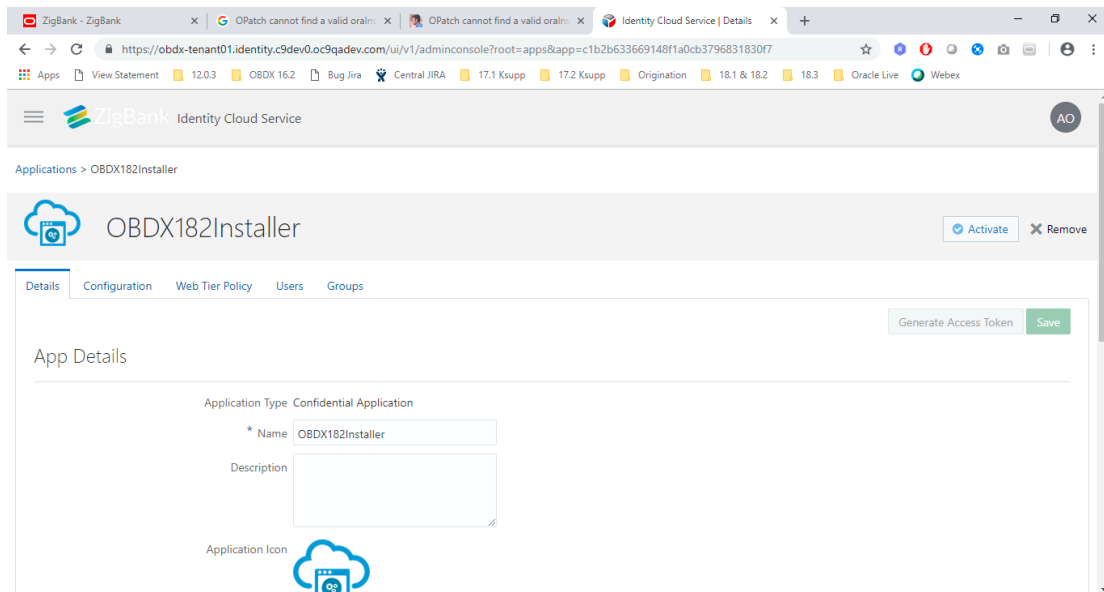
9. Click on Finish.



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

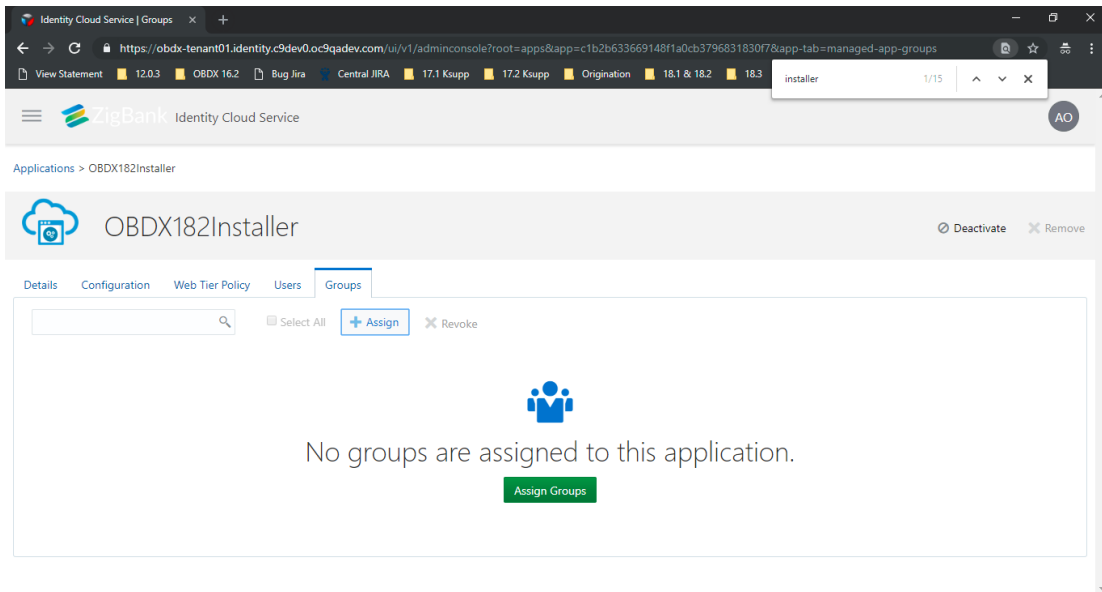
Glossary of parameters:

<client_id_of_OBDX_client_in_IDCS>	Client ID given above
<client_secret_of_OBDX_client_in_IDCS>	Client Secret given above

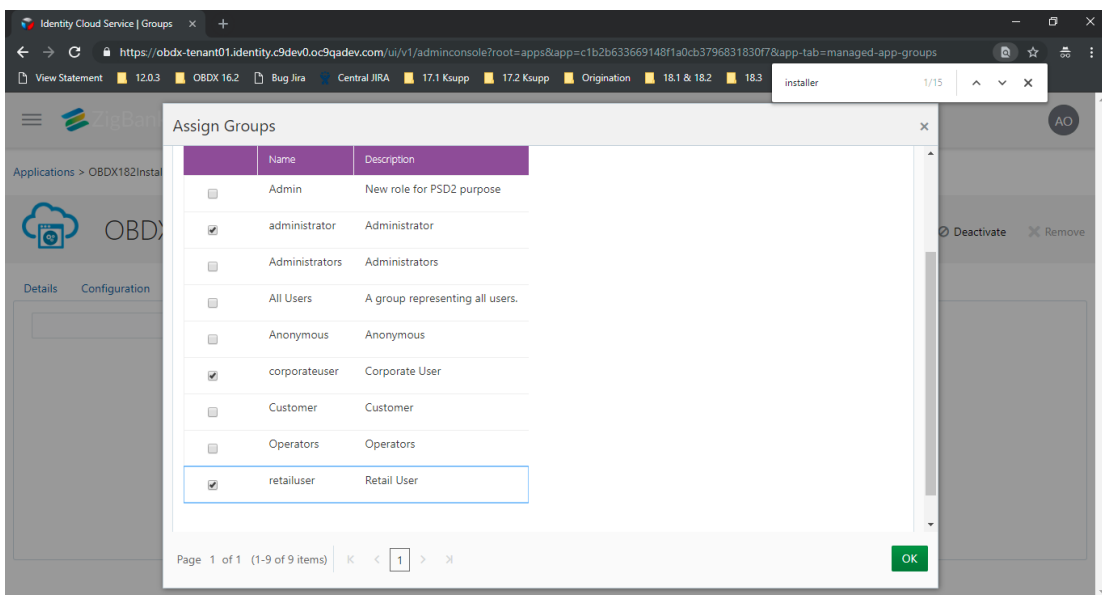


11. Click on **Activate** button.

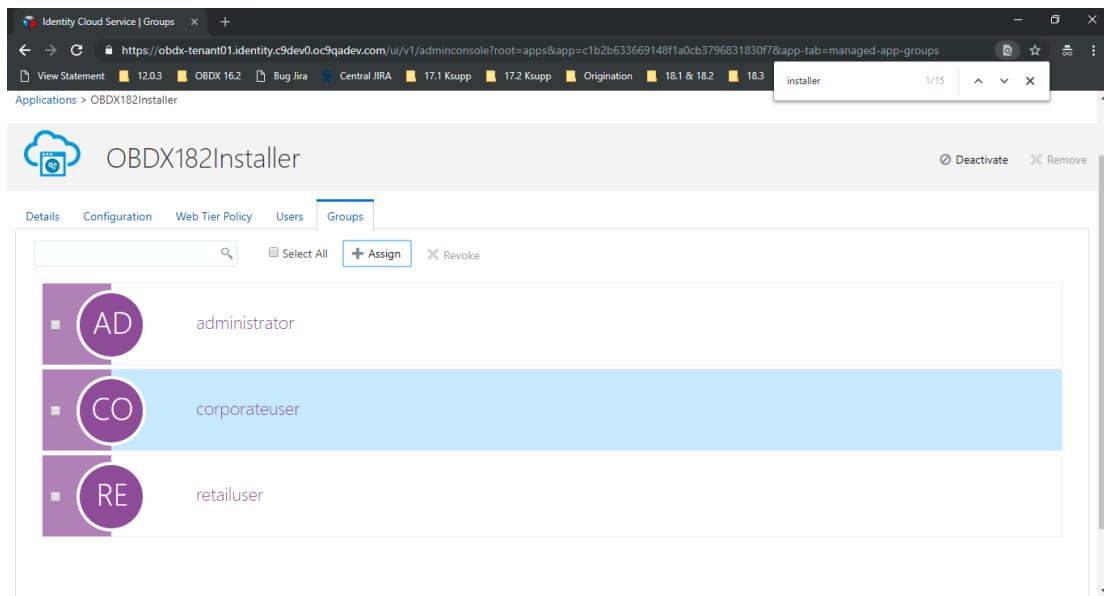
12. Search for created application and go to **Groups** tab.



13. Click on **Assign**.



14. Click **Add**.



15. Above groups are added.

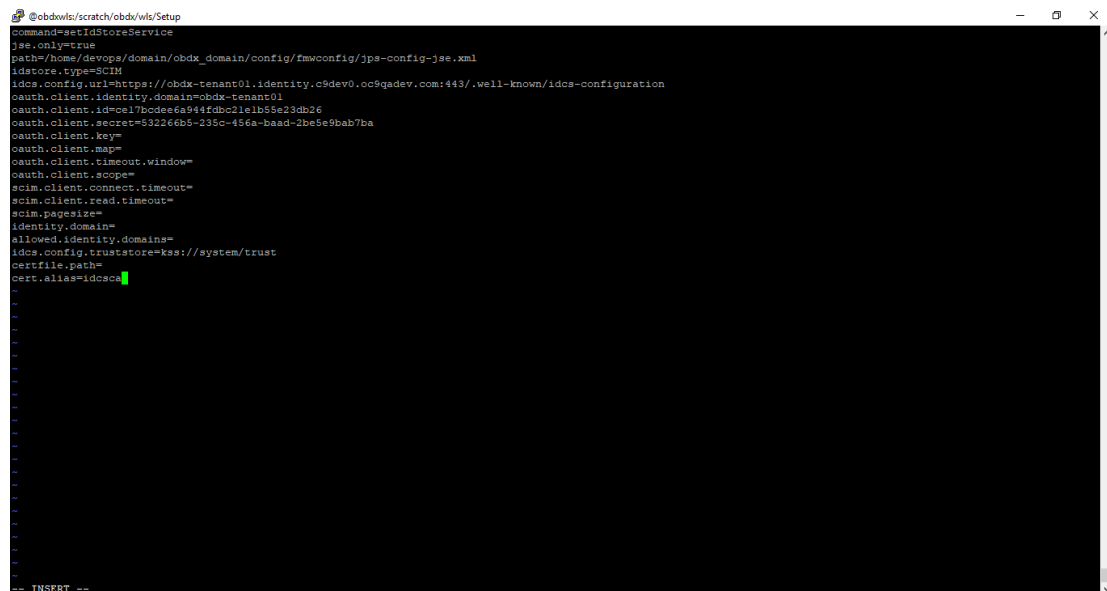
7. Configure OPSS IDCS Identity Store Service

1. Back up `jps-config-jse.xml` at [<weblogic-domain-path>/config/fmwconfig/](#)

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
```



```
@obdxwls/scratch/obdx/wls/Setup
command=setIdStoreService
jse.only=true
path=/home/devops/domain/obdx_domain/config/fmwconfig/jps-config-jse.xml
idstore.type=SCIM
idcs.config.url=https://obdx-tenant01.identity.c9dev0.oc9gdev.com:443/.well-known/idcs-configuration
oauth.client.identity.domain=obdx-tenant01
oauth.client.id=cel7b0dee6a94fdbc21eb55e23db26
oauth.client.secret=532266b5-235c-456a-baad-2be5e9bab7ba
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
-- INSERT --
```

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

Run below command

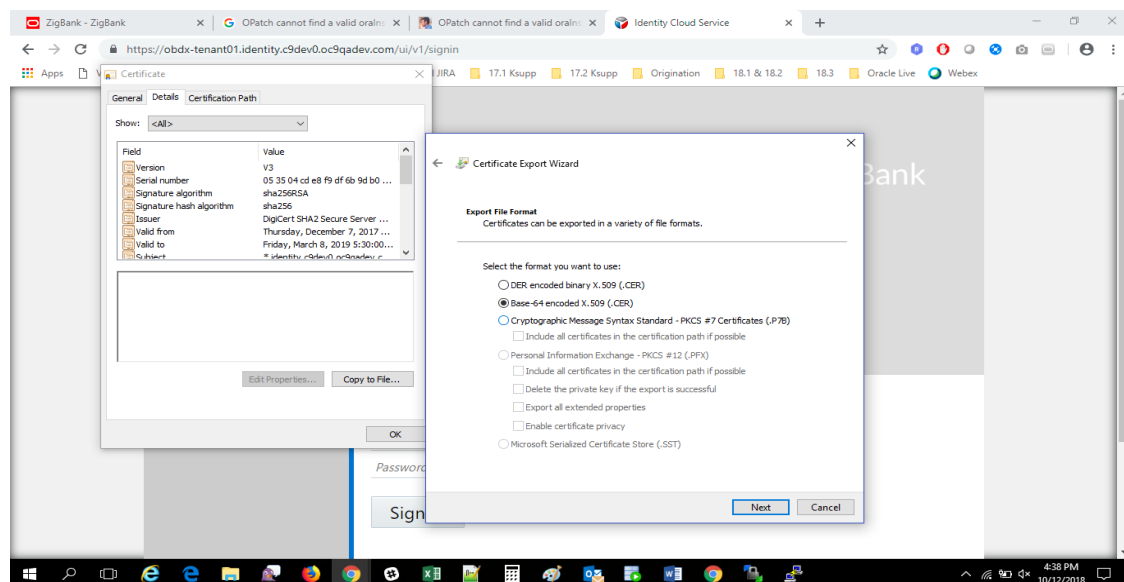
```
java -classpath <oracle-home-path>/oracle_common/modules/oracle.jps/jps-manifest.jar
oracle.security.jps.internal.tools.configuration.Ldap.LdapServiceEnabler -props <local-path-of-
opss_idcs_cmd.props>
```

[illegible]

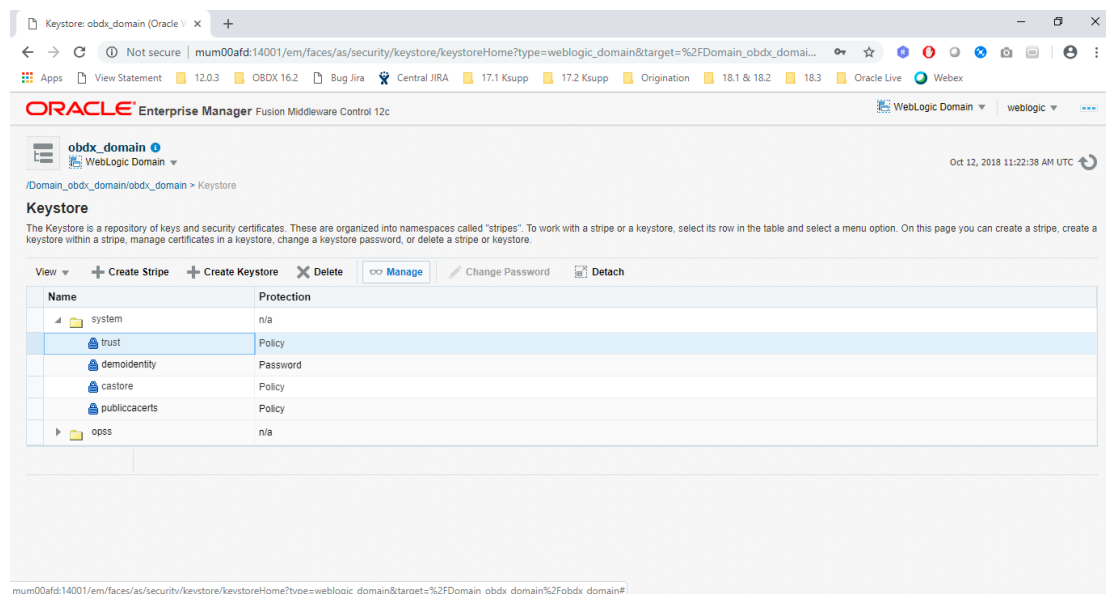
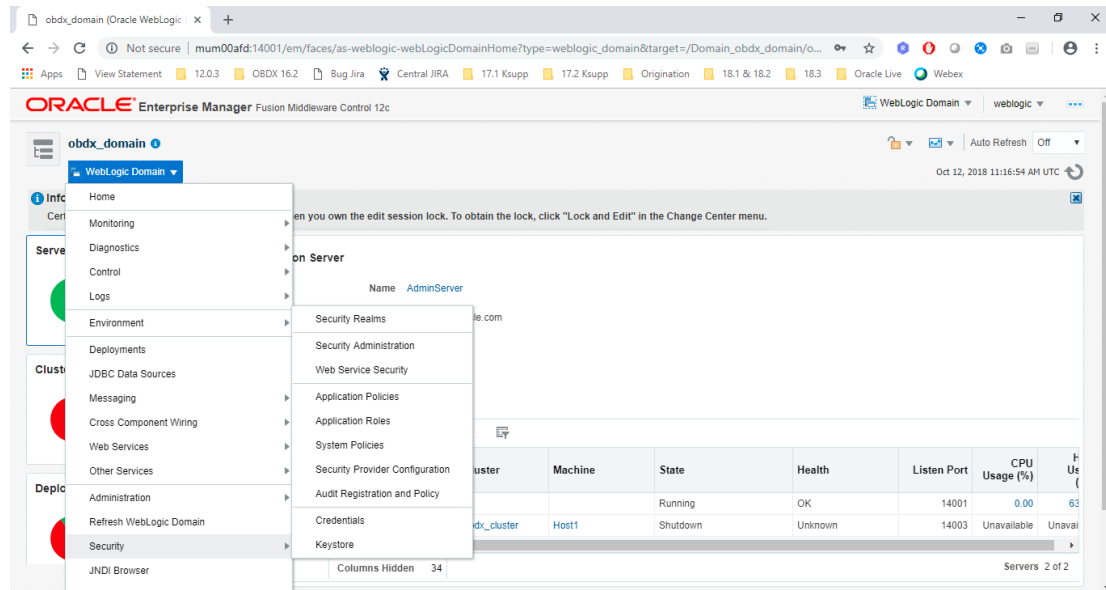
3. To provide cert to SSL connection:

Start the Weblogic Admin server.

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



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



Manage Certificates: system/trust

To generate a new key pair (public and private key) and wrap the public key into a certificate signed by the Demo CA, click "Generate Keypair". To generate a Certificate Signing Request (CSR), select a certificate from table and click "Generate CSR". After you create a CSR, send it to your CA who will verify your identity and return the signed certificate. To import the CA signed certificate or trusted cert, click Import. You can only import the CA-signed certificate into the same keystore from which the CSR was generated.

Alias	Subject Name	Certificate Type	Serial Number	Certificate SHA1 Fingerprint	Expiration Date
democa	CN=CertGenCA,OU=FOR TESTING ONLY,O=MyOrganization,L=MyTown,ST=MyState,C=US	Trusted Certificate	0x643a8066409...	ca 61 71 5b 64 6b 2 63 c6 fb 83 b1 71 f0 99 d3 54 6a ...	December 2, 2032
olddemoca	CN=CertGenCAB,OU=FOR TESTING ONLY,O=MyOrganization,L=MyTown,ST=MyState,C=US	Trusted Certificate	0xf5c82bdf603...	f8 5d 49 a4 12 54 78 c7 ba 42 a7 14 3e 6 f5 1e a0 d4 ...	October 25, 2022

Import Certificate

Certificate Type: Trusted Certificate

Alias: idcsca

Certificate Source: ☐ Paste Certificate or Certificate Chain

Paste Certificate String here

☒ Select a file that contains the Certificate or Certificate Chain

File Name: idcsca.cer

Choose File containing a valid certificate.

OK Cancel

Manage Certificates: obdx_domain

Not secure | mum00afd:14001/em/faces/as/security/keystore/manageCertificate?type=weblogic_domain&target=%2FDomain_obdx_do...

Apps | View Statement | 12.0.3 | OBDX 16.2 | Bug Jira | Central JIRA | 17.1 Kuupp | 17.2 Kuupp | Origination | 18.1 & 18.2 | 18.3 | Oracle Live | Webex

ORACLE Enterprise Manager Fusion Middleware Control 12c

WebLogic Domain | weblogic

obdx_domain | WebLogic Domain | Oct 12, 2018 11:23:22 AM UTC

Information

Trusted Certificate imported successfully.

/Domain_obdx_domain/obdx_domain > Keystore > Manage Certificates

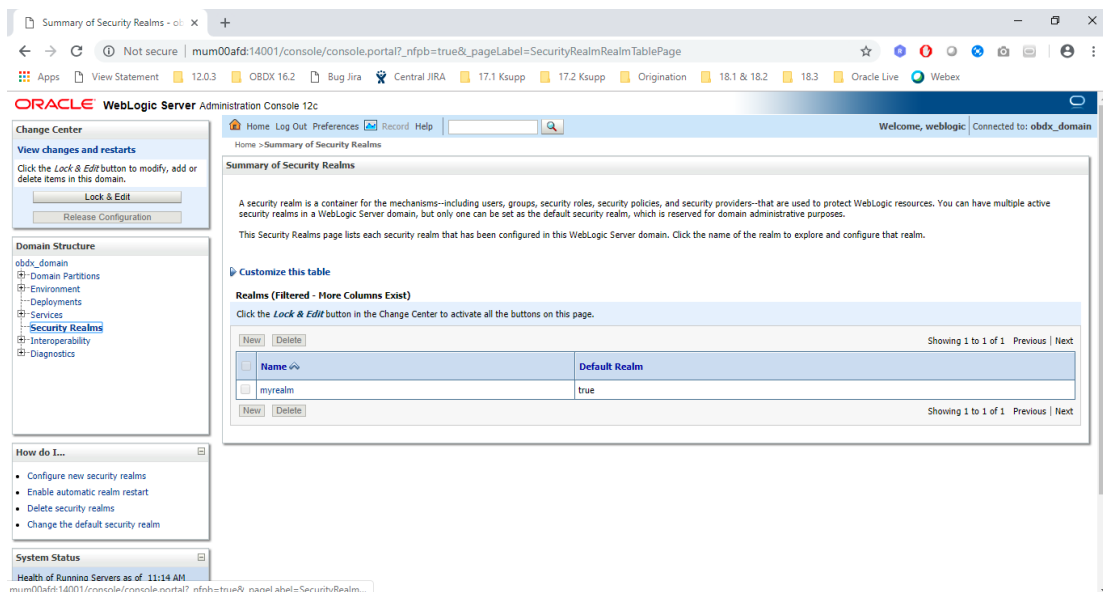
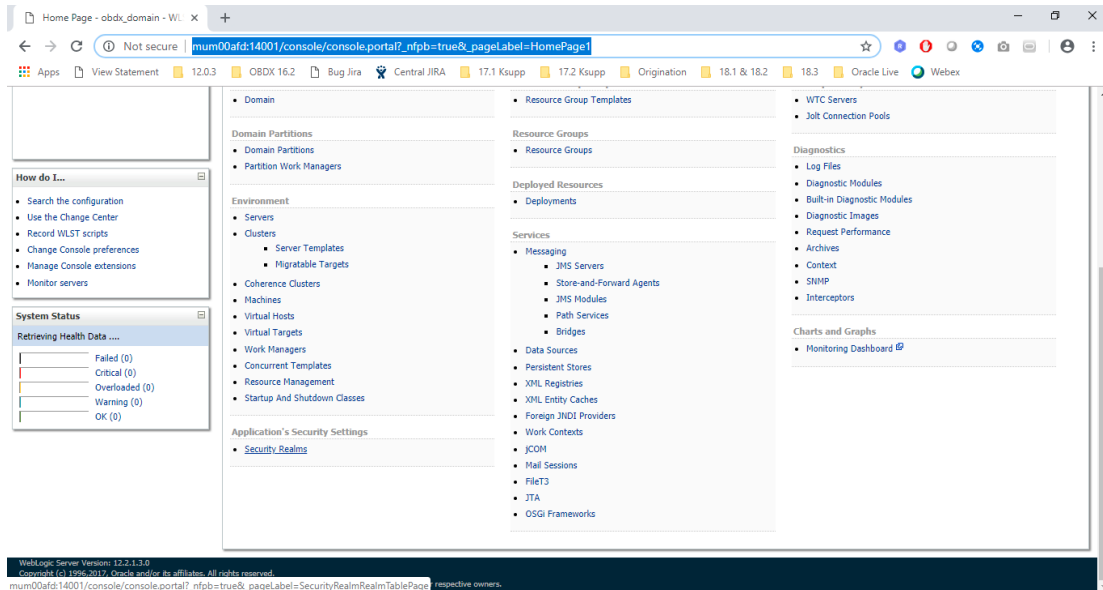
Manage Certificates: system/trust

To generate a new key pair (public and private key) and wrap the public key into a certificate signed by the Demo CA, click "Generate Keypair". To generate a Certificate Signing Request (CSR), select a certificate from table and click "Generate CSR". After you create a CSR, send it to your CA who will verify your identity and return the signed certificate. To import the CA signed certificate or trusted cert, click Import. You can only import the CA-signed certificate into the same keystore from which the CSR was generated.

View | Generate Keypair | Generate CSR | Import | Export | Delete | Change Password | Detach

Alias	Subject Name	Certificate Type	Serial Number	Certificate SHA1 Fingerprint	Expiration Date
democa	CN=CertGenCA,OU=FOR TESTING ONLY,O=MyOrganization,L=MyTown,ST=MyState,C=US	Trusted Certificate	0x543a8066409...	ca 61 71 5b 64 6b 2 83 c6 fb 83 b1 71 f0 99 d3 54 6a ...	December 2, 2032
olddemoca	CN=CertGenCAB,OU=FOR TESTING ONLY,O=MyOrganization,L=MyTown,ST=MyState,C=US	Trusted Certificate	0xf5c82bdfed03...	f8 5d 49 a4 12 54 78 c7 ba 42 a7 14 3e 6 f5 1e a0 d4 ...	October 25, 2022
idcsca	CN="identity.c9dev0.oc9qadev.com,OU=Oracle BMD SALT-LAKE-CITY,O=Oracle Corporation,L=Re...	Trusted Certificate	0x9db0b3369e5...	61 81 8e 35 4a d8 25 62 c bf f2 c4 ff 91 26 bb ad 8e 3...	March 8, 2019

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



The first screenshot shows the 'Providers' tab in the 'Settings for myrealm' configuration page. It displays a table of authentication providers:

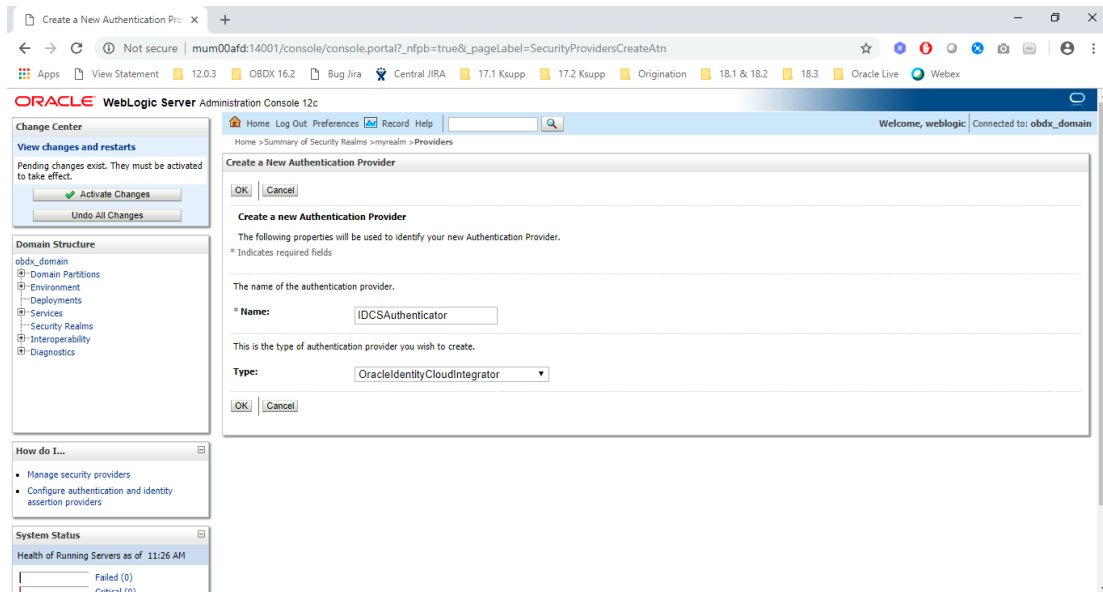
Name	Description	Version
☒ DBAuthenticator	OBDX - DB Authenticator	18.2.0.2.0.344
☒ SQLAuth	Provider that performs DBMS authentication	1.0
☐ OBDXJWT	OBDX Identity Assertion Provider (JWT and OAuth)	18.2.0.2.0.344
☐ DefaultAuthenticator	WebLogic Authentication Provider	1.0
☐ DefaultIdentityAsserter	WebLogic Identity Assertion provider	1.0

The second screenshot shows the 'Delete Authentication Providers' dialog box. It lists the providers to be deleted:

- DBAuthenticator
- SQLAuth

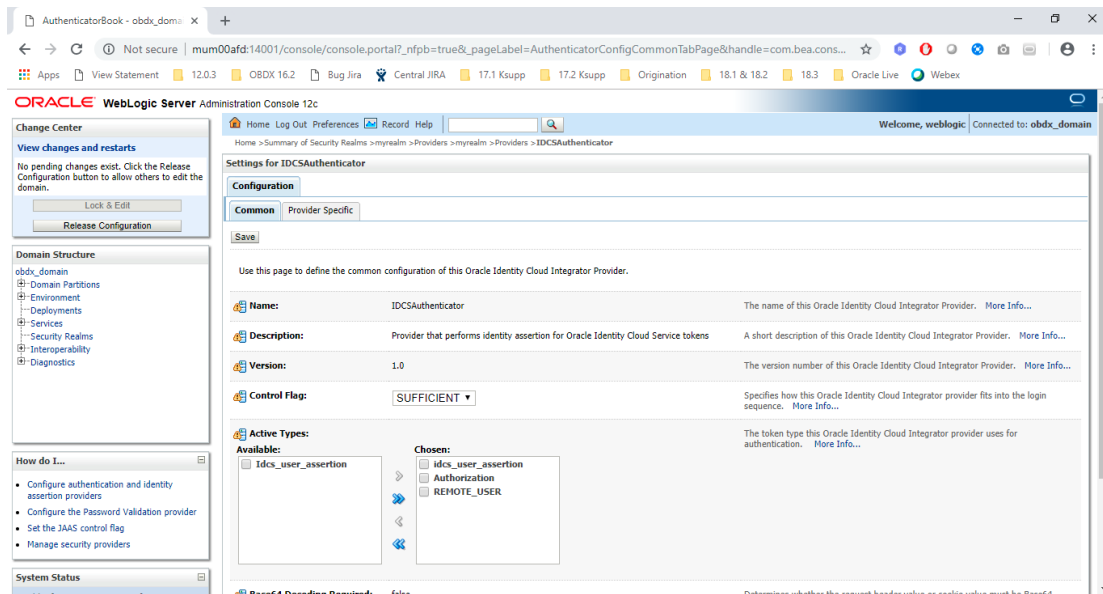
The dialog asks 'Are you sure you want to delete the following items?' with 'Yes' and 'No' buttons.

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>](#)

The screenshot shows the 'Settings for IDCSAuthenticator' page in the Oracle WebLogic Console. The 'Provider Specific' tab is selected, and the 'Save' button is visible at the top. The configuration fields are as follows:

Field	Value	Description
Host	identity.c9dev0.oc9gdevv.com	The host name used to connect to the Oracle Identity Cloud Service.
Port	443	The port number used to connect to the Oracle Identity Cloud Service.
SSLEnabled	☒	Specifies whether the TLS/SSL protocol is used when connecting to the Oracle Identity Cloud Service.
Tenant	obdx-tenant01	The name of the primary tenant where users and groups reside from the Oracle Identity Cloud Service.
Client Id	ce17bcdee6a944fdbc21e1b2	The Client Id used when retrieving tokens from the Oracle Identity Cloud Service.
Client Secret		The Client secret used when retrieving tokens from the Oracle Identity Cloud Service.
Confirm Client Secret		
Client Tenant	obdx-tenant01	The tenant in which the Client Id resides from the Oracle Identity Cloud Service.
Cache Enabled	☒	Specifies whether to cache the Oracle Identity Cloud Service user's information.

AuthenticatorBook - obdx_domain

Not secure | mum00afd:14001/console/console.portal?_nfpb=true&_pageLabel=AuthenticatorConfigProviderSpecificTabPage&handle=c...

Apps | View Statement | 12.0.3 | OBDX 16.2 | Bug Jira | Central JIRA | 17.1 Kuapp | 17.2 Kuapp | Origination | 18.1 & 18.2 | 18.3 | Oracle Live | Webex

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 Assertion. Valid values are FULL, NORMAL, SIGNATURE and NONE. [More Info...](#)

5. Reorder IDCSAuthenticator to the top of all providers.

Reorder Authentication Providers

Home | Log Out | Preferences | Record | Help

Welcome, weblogic | Connected to: obdx_domain

Home > Summary of Security Realms > myrealm > Providers > myrealm > Providers > IDCSAuthenticator > Providers > IDCSAuthenticator > Providers

Reorder Authentication Providers

You can reorder your Authentication Providers using the list below. By reordering Authentication Providers, you can alter the authentication sequence.

Select authenticator(s) in the list and use arrows to move them up and down in the list.

Authentication Providers:

Available:

- ☒ IDCSAuthenticator
- ☐ OBDXJWT
- ☐ DefaultAuthenticator
- ☐ DefaultIdentityAsserter

OK | Cancel

Change Center

View changes and restarts

Pending changes exist. They must be activated to take effect.

Activate Changes

Undo All Changes

Domain Structure

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

How do I...

- Re-order authentication providers
- Set the JAAS control flag

System Status

Health of Running Servers as of 11:44 AM

State	Count
Failed	(0)
Critical	(0)
Downloaded	(0)

The screenshot shows the Oracle WebLogic Server Administration Console 12c. The browser address bar indicates the URL: `mum00afd:14001/console/console.portal?_nfpb=true&_pageLabel=RealmauthenticatorTabPage`. The console is titled "ORACLE WebLogic Server Administration Console 12c".

On the left sidebar, the "Domain Structure" tree is expanded to "obdx_domain" > "Security Realms". The "Change Center" section shows "View changes and restarts" with buttons for "Lock & Edit" and "Release Configuration".

The main content area shows the "Providers" tab under "Settings for myrealm". The breadcrumb trail is: Home > Summary of Security Realms > myrealm > Providers > myrealm > Providers > IDCSAuthenticator > Providers > IDCSAuthenticator > Providers. A message states: "All changes have been activated. However, 1 item must be restarted for the changes to take effect." The tabs include Configuration, Users and Groups, Roles and Policies, Credential Mappings, **Providers**, and Migration. Sub-tabs under Providers are Authentication, Password Validation, Authorization, Adjudication, Role Mapping, Auditing, Credential Mapping, and Certification Path.

An explanatory text states: "An Authentication provider allows WebLogic Server to establish trust by validating a user. You must have one Authentication provider in a security realm, and you can configure multiple Authentication providers in a security realm. Different types of Authentication providers are designed to access different data stores, such as LDAP servers or DBMS."

Below this is a section titled "Customize this table" for "Authentication Providers". It instructs to click the "Lock & Edit" button in the Change Center to activate all buttons on this page. A table lists the providers:

Name	Description	Version
IDCSAuthenticator	Provider that performs identity assertion for Oracle Identity Cloud Service tokens	1.0
OBDXJWT	OBDX Identity Assertion Provider (JWT and OAuth)	18.2.0.2.0.344
DefaultAuthenticator	WebLogic Authentication Provider	1.0
DefaultIdentityAsserter	WebLogic Identity Assertion provider	1.0

At the bottom of the table are buttons for "New", "Delete", and "Reorder". The status "Showing 1 to 4 of 4" is displayed.

The bottom left of the console shows the "System Status" section.

9. Application Server Changes

9.1 Add below argument to Managed server:

-
Dweblogic.security.SSL.hostnameVerifier=weblogic.security.util.SSLWLSWildcardHostnameVerifier

The screenshot shows the 'Settings for OBDX_MS1 - obdx' page in the Oracle WebLogic Administration Console. The left sidebar contains navigation links for Security Realms, Interoperability, and Diagnostics. The main content area is divided into several sections: Java Vendor, BEA Home, Root Directory, Class Path, Arguments, Security Policy File, User Name, and Password. The 'Arguments' section is highlighted with a blue box, showing the following command line arguments:

```
-Dfcit.lvm.id=1 -Xms2560m -Xmx2560m -XX:NewSize=640m -XX:MaxNewSize=640m -
Dcom.sun.xml.internal.ws.transport.http.client.HttpTransportPipe.dump=true -
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 -
-XrunIdp:transport=dt_socket,server=y,address=14343,suspend=n -
Dweblogic.security.SSL.hostnameVerifier=weblogic.security.util.SSLWLSWildcardHost
nameVerifier
```


9.2 Managed Server Start Configurations

1. Go to Home > Summary of Clusters > obdx_cluster > Configuration Tab > General Tab >
2. Expand **Advanced** Section.
3. Set the Value of **WebLogic Plug-In Enabled** to **yes**.

The screenshot shows the Oracle WebLogic Console interface. The breadcrumb navigation at the top indicates the path: Home > Summary of Servers > Summary of Deployments > com.oracle.digic.connector.rar > Roles > Summary of Servers > OBDX_MS1 > Summary of Clusters > obdx_cluster. The left sidebar shows the 'Domain Structure' tree with 'obdx_domain' expanded, and 'Clusters' selected. Below the tree, the 'How do I...' section lists tasks like 'Configure clusters' and 'Assign server instances to clusters'. The 'System Status' section shows the 'Health of Running Servers as of 2:58 PM' with indicators for 'Failed (0)', 'Critical (0)', and 'Overloaded (0)'. The main content area is titled 'Settings for obdx_cluster' and has tabs for 'Configuration', 'Monitoring', 'Control', 'Deployments', 'Services', and 'Notes'. The 'Configuration' tab is active, and the 'General' sub-tab is selected. The 'General' sub-tab contains a 'Save' button and a description: 'This page allows you to define the general settings for this cluster.' Below this, several configuration items are listed: 'Name' (obdx_cluster), 'Default Load Algorithm' (round-robin), 'Cluster Address' (empty), 'Number of Servers in Cluster Address' (3), 'Enable Transaction Affinity' (unchecked), and 'Enable Concurrent Single Activation' (unchecked). The 'Advanced' section is expanded, showing 'WebLogic Plug-In Enabled' set to 'yes'. Each configuration item has a 'More Info...' link.

10. Change in Weblogic Deployments

10.1 Creating a Connection in Connector ear

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

Application Name	State	Resource Adapter	Environment	Global	Instances
adf.oracle.domain.webapp.apache.httpcore(1.0,12.2.1.3.0)	Active	Library	AdminServer, obdx_cluster	Global	100
adf.oracle.domain.webapp.apache.httpmime(1.0,12.2.1.3.0)	Active	Library	AdminServer, obdx_cluster	Global	100
adf.oracle.domain.webapp.apache.velocity(1.0,12.2.1.3.0)	Active	Library	AdminServer, obdx_cluster	Global	100
adf.oracle.domain.webapp.batik-bundle(1.0,12.2.1.3.0)	Active	Library	AdminServer, obdx_cluster	Global	100
adf.oracle.domain.webapp.guava(1.0,12.2.1.3.0)	Active	Library	AdminServer, obdx_cluster	Global	100
adf.oracle.domain.webapp.xml-apis-ext(1.0,12.2.1.3.0)	Active	Library	AdminServer, obdx_cluster	Global	100
AuditMDBEAR	New	Enterprise Application	obdx_cluster	Global	100
BatchResourceAdapter	New	Enterprise Application	obdx_cluster	Global	100
coherence-transaction-rar	Active	Resource Adapter	AdminServer, obdx_cluster	Global	100
com.ofss.digx.app.connector	New	Enterprise Application	obdx_cluster	Global	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	Global	5
em	Active	Enterprise Application	AdminServer	Global	400
emagentdimplpriv_jar(12.4.12.1.0.4.0)	Active	Library	AdminServer	Global	100

Settings for com.ofss.digx.connector.rar

Overview Configuration **Security** Control Testing Monitoring

Roles Policies **Outbound Credential Mappings** Inbound Principal Mappings Principals

Outbound credential mappings let you map WebLogic Server usernames to usernames in the Enterprise Information System (EIS) to which you want to connect using a resource adapter. You can use default outbound credential mappings for all outbound connection pools in the resource adapter, or specify particular outbound credential mappings for individual connection pools. This page contains the table of outbound credential mappings for this resource adapter.

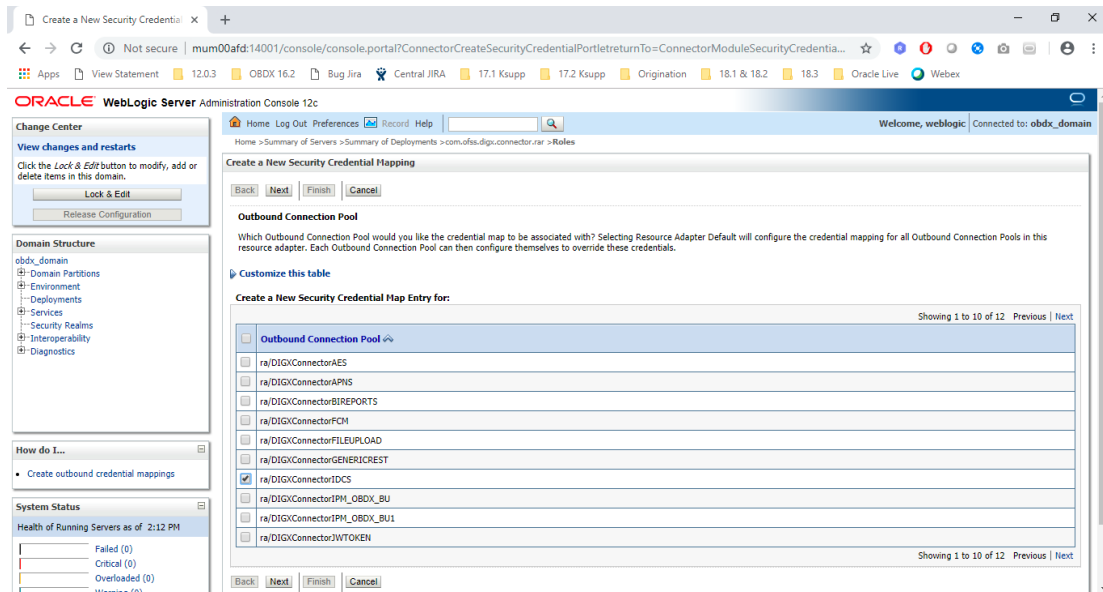
Customize this table

Outbound Credential Mappings

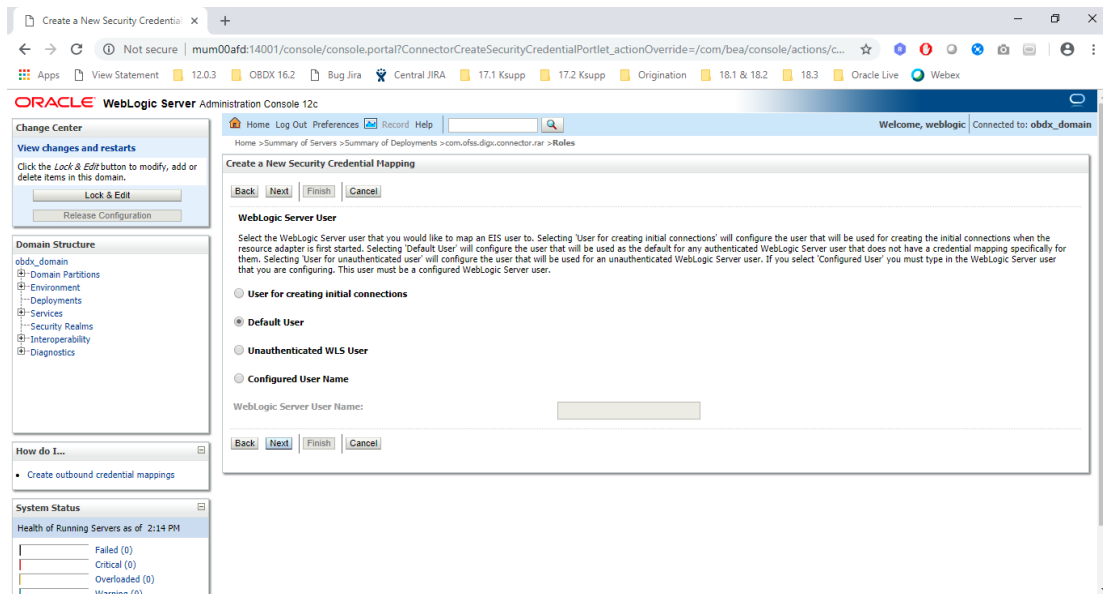
WLS User	EIS User	Outbound Connection Pool
Default	AES_KEY	ra/DIGXConnectorAES

Showing 1 to 1 of 1 Previous Next

3. Click New



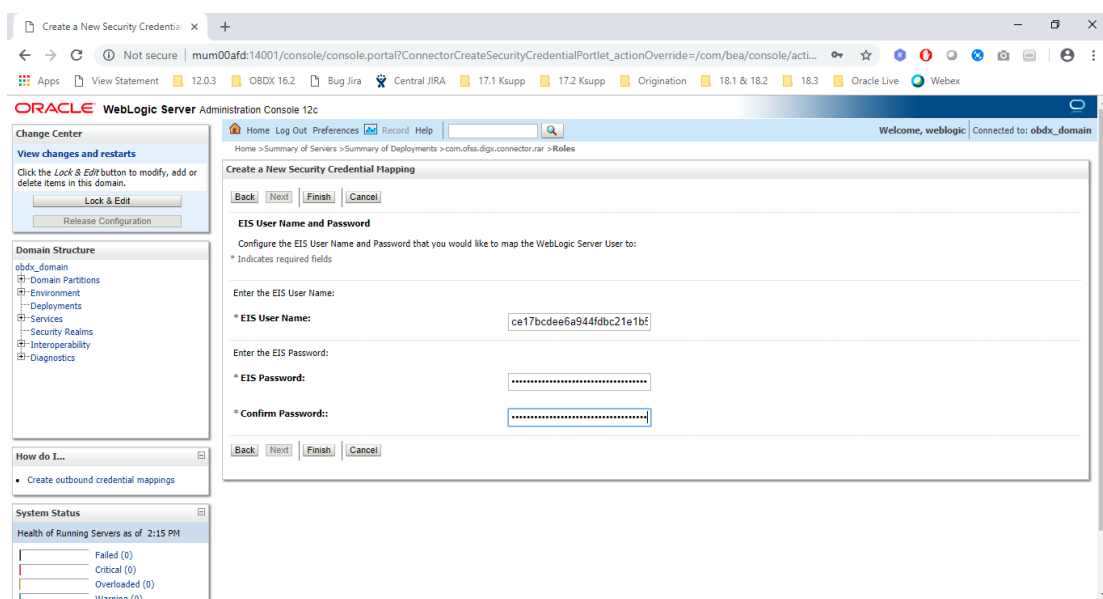
4. Click Next



5. Click Next

6. 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>](#)



7. Click **Finish**

- a. 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**.

Summary of Deployments - obdx - +

Not secure | mum00afdc14001/console/console.portal?_rfpb=true&_pageLabel=AppDeploymentsControlPage&AppDeploymentsControl... | Live Webex

Apps	View Statement	12.0.3	OBDX 16.2	Bug Jira	Central JIRA	17.1 Kuupp	17.2 Kuupp	rest	1/4	X	Live	Webex
		obdx.jar(2.0.1.0.0.0.2-2-8)	Active	Library	AdminServer, obdx_cluster	Global	100					
		pyth(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.mdb.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.exstsystem.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					
		odi.clickhistory(1.0.12.2.1)	Active	Library	AdminServer, obdx_cluster	Global	100					
		odi.clickhistory.webapp(1.0.12.2.1)	Active	Library	AdminServer, obdx_cluster	Global	100					

The first screenshot shows the 'Delete Application Assistant' dialog box in the Oracle WebLogic Server Administration Console. The console is titled 'Delete Application Assistant' and shows the 'Delete Deployments' section. It states: 'You have selected the following deployments to be removed from this domain configuration. Click 'Yes' to continue, or 'No' to cancel.' The selected deployment is 'obdx.app.rest.idm'. There are 'Yes' and 'No' buttons at the bottom.

The second screenshot shows the 'Install Application Assistant' dialog box. It displays a message: 'The file obdx.app.rest.ear has been uploaded successfully to /home/devops/domain/obdx_domain/servers/AdminServer/upload'. Below this, the 'Install Application Assistant' section is active, showing the 'Locate deployment to install and prepare for deployment' step. It prompts the user to 'Select the file path that represents the application root directory, archive file, exploded archive directory, or application module descriptor that you want to install.' The 'Path' field is populated with '/home/devops/domain/obdx_domain/servers/AdminServer/upload/obdx.app.rest.ear/app/obdx.app.rest.ear'. The 'Recently Used Paths' list includes several paths, and the 'Current Location' is 'mum00afd / home / devops / domain / obdx_domain / servers / AdminServer / upload / obdx.app.rest.ear / app'. The 'obdx.app.rest.ear' file is selected in the file list. Navigation buttons 'Back', 'Next', 'Finish', and 'Cancel' are at the bottom.

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

Client applications need to be created for below Internal applications.

- Mobile App
- Siri Chatbot
- Snapshot
- Wearable

The screenshot shows the 'Add Confidential Application' wizard in the Identity Cloud Service console. The wizard has five steps: Details, Client, Resources, Web Tier Policy, and Authorization. The 'Details' step is currently active. The 'App Details' section includes a 'Name' field with the value 'OBDX182InstallerMOBAPP', a 'Description' field, an 'Application Icon' field with a default icon and an 'Upload' button, and an 'Application URL' field. A tooltip indicates that the name must be 125 or fewer characters. The browser address bar shows the URL: <https://obdx-tenant01.identity.c9dev0.oc9qadev.com/ui/v1/adminconsole?root=apps&app=add-CustomWebAppTemplateId>. The top navigation bar includes the 'ZigBank Identity Cloud Service' logo and a user profile icon labeled 'AO'.

Identity Cloud Service

https://obdx-tenant01.identity.c9dev0.oc9qadev.com/ui/v1/adminconsole?root=apps&app=add-CustomWebAppTemplateId

Apps View Statement 12.0.3 OBDX 16.2 Bug Jira Central JIRA 17.1 Ksupp 17.2 Ksupp Origination 18.1 & 18.2 18.3 Oracle Live Webex

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

Allowed Operations ☒ Introspect ☐ On behalf Of

Identity Cloud Service

https://obdx-tenant01.identity.c9dev0.oc9qadev.com/ui/v1/adminconsole?root=apps&app=add-CustomWebAppTemplateId

Apps View Statement 12.0.3 OBDX 16.2 Bug Jira Central JIRA 17.1 Ksupp 17.2 Ksupp Origination 18.1 & 18.2 18.3 Oracle Live Webex

Add Confidential Application

[< Back](#)
Details
Client
Resources
Web Tier Policy
Authorization
[Next >](#)

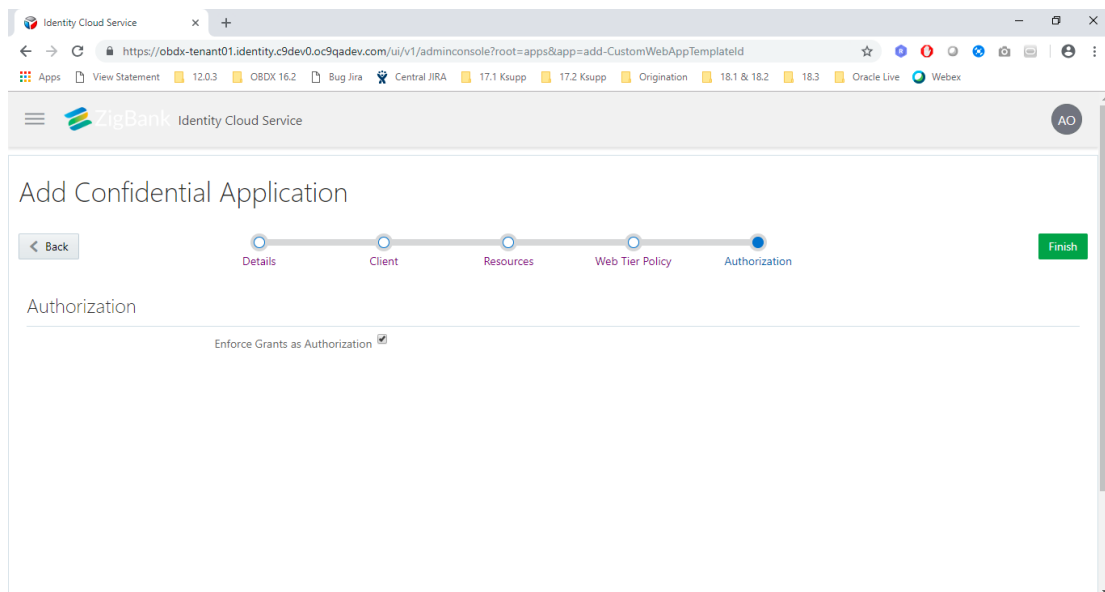
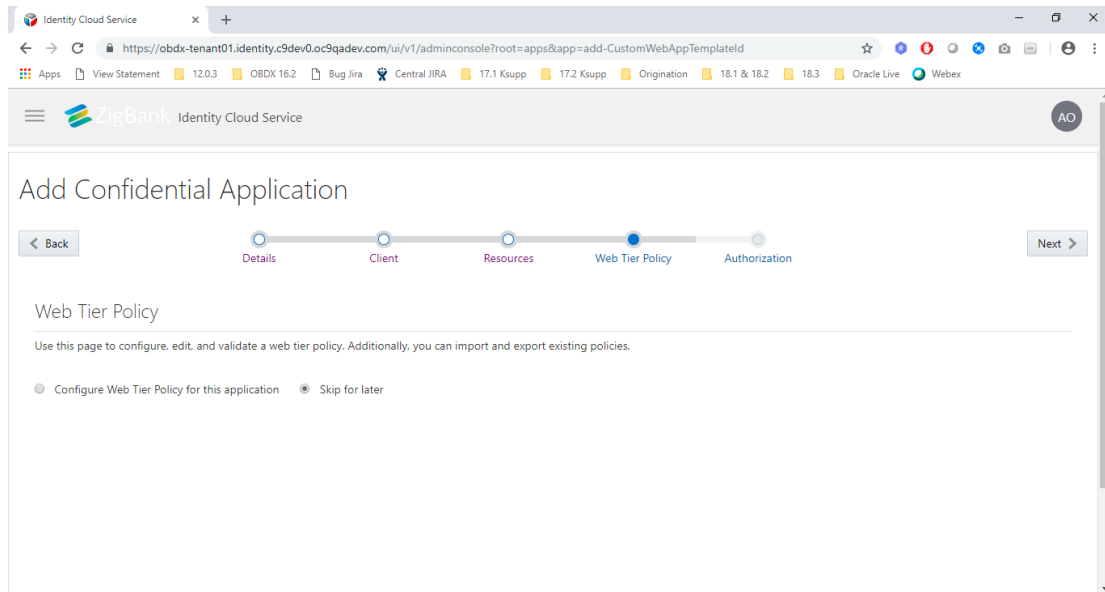
Expose APIs to Other Applications

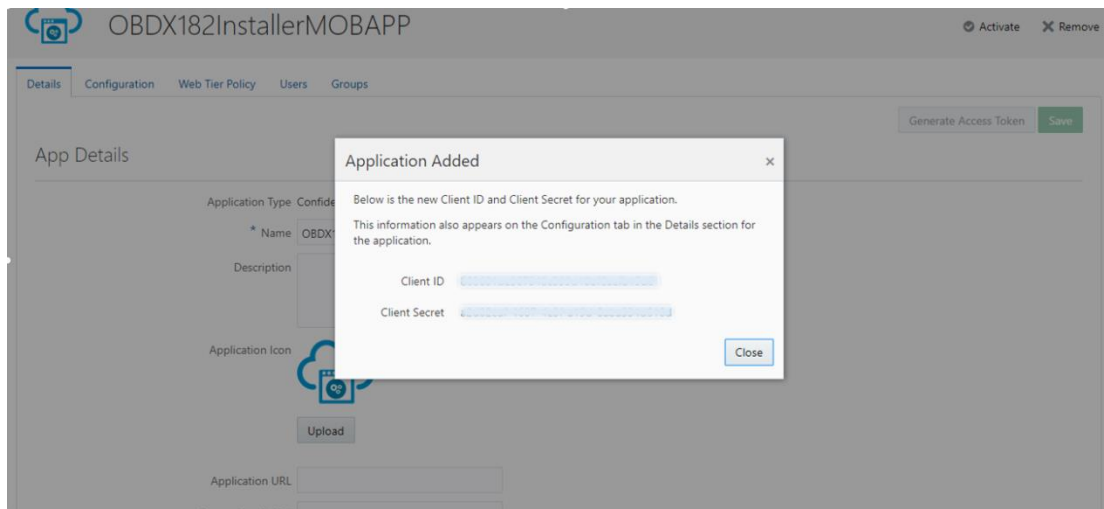
Specify the APIs that need to be protected.

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

Configure application APIs that need to be OAuth protected

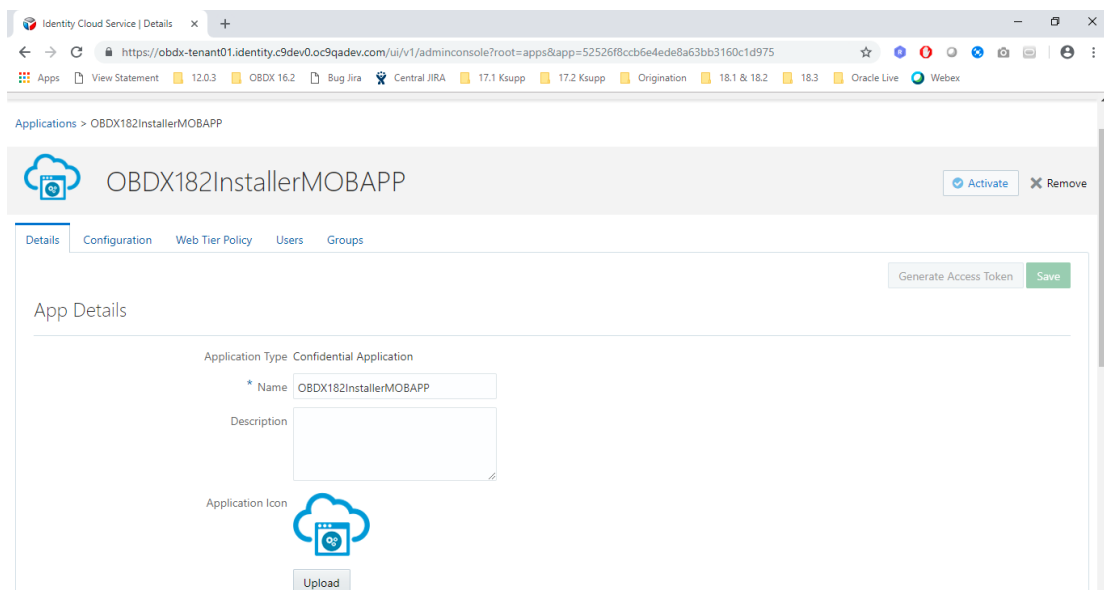
Access Token Expiration seconds
 Is Refresh Token Allowed ☒
 Refresh Token Expiration seconds
 Primary Audience
 Secondary Audiences
 Secondary Audience Protected
 No data to display.





Glossary of parameters:

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



1. 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 =

'ipm1.0,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_BU','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';
```

13. Apply Webgate Patch on OHS using OPatch

1. Download the patch from the below link.

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

2. 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      mum00chl:5000/obdx182susnav/ohs      "/home/devops/common..."      182_Patch_OBP_DB_FR_2
P                  mum00chl:5000/obdx182susnav/vls      "/home/devops/common..."      31 hours ago      Up 31 hours (healthy)      7777/tcp, 8888/tcp, 0.0.0.0:14777->12777/tc
12f509e50f98      mum00chl:5000/obdx182susnav/vls      "/home/devops/common..."      31 hours ago      Up 31 hours (unhealthy)      12001/tcp, 12003/tcp, 12343/tcp, 0.0.0.0:14
001->14001/tcp, 0.0.0.0:14003->14003/tcp, 12777/tcp, 0.0.0.0:14343->14343/tcp      182_Patch_UBS_WLS_FR_2
6157fe6effa6      mum00chl:5000/obdx182susnav/db      "/home/devops/common..."      31 hours ago      Up 31 hours (healthy)      0.0.0.0:1421->1521/tcp
182_Patch_UBS_DB_FR_2

[obdxdevops@mum00afd ~]$ docker exec -itu 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) 2016, 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]
y

```

3. 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.otd, 12.2.1.3.0 ] , [ oracle.oamclient.webgate.otd, 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

1. 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:

2. 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/

E.g.,

/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:

1. 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_protected_in_OBDX_Client_App> openid",
        "idcsscope":"protected openid",
        "headers":[
          {
            "UserName":"$subject.user.name"
          },
          {
            "PrimaryEmail":"$subject.user.emails"
          },
          {
            "PolicyName":"$request.policy_name"
          }
        ]
      }
    ]
  }
}
```

```
{
    {
        [
            }
        ],
        {
            "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
```

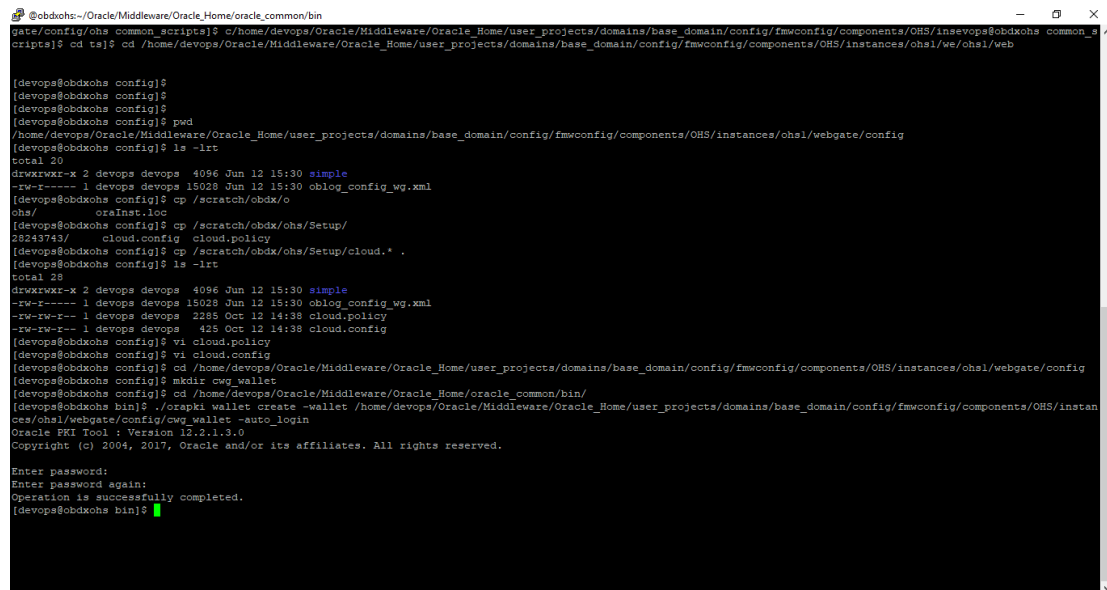
```
[devops@obdxohs ~]$ cd <oracle-home-path>/oracle_common/bin/
```

```
[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/webgate/config/cwg_wallet
[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 -ltr
total 20
drwxrwxr-x 2 devops devops 4096 Jun 12 15:30 simple
-rw-r--r-- 1 devops devops 15028 Jun 12 15:30 oblog_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 -ltr
total 28
drwxrwxr-x 2 devops devops 4096 Jun 12 15:30 simple
-rw-r--r-- 1 devops devops 15028 Jun 12 15:30 oblog_config_wg.xml
-rw-r--r-- 1 devops devops 2285 Oct 12 14:38 cloud.policy
-rw-r--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 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]$
```

```
[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_domain/config/fmw
```

config/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
crtp@tsj:~$ cd /home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/components/OHS/instances/ohs1/webgate/config
[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 -l
total 20
drwxrwxr-x 2 devops devops 4096 Jun 12 15:30 simple
-rw-r--r-- 1 devops devops 15028 Jun 12 15:30 oblog_config_wg.xml
[devops@obdxohs config]$ cp /scratch/obdx/o
ohs/
oraInst.loc
[devops@obdxohs config]$ cp /scratch/obdx/ohs/Setup/
28249743/ cloud.config cloud.policy
[devops@obdxohs config]$ cp /scratch/obdx/ohs/Setup/cloud.*
[devops@obdxohs config]$ ls -l
total 28
drwxrwxr-x 2 devops devops 4096 Jun 12 15:30 simple
-rw-r--r-- 1 devops devops 15028 Jun 12 15:30 oblog_config_wg.xml
-rw-r--r-- 1 devops devops 2285 Oct 12 14:38 cloud.policy
-rw-r--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/instances/ohs1/webgate/config/cwg_wallet -auto_login
Oracle PKI Tool : Version 12.2.1.3.0
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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 ccl7b0dee6a944f3bc21eb55e23db26 532266b5-235c-196a-baad-2be5e9bab7ba
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_domain/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_domain/config/fmwconfig/components/OHS/instances/ohs1/webgate/config/cwg_wallet

```

@obdxhls/home/devops/Oracle/Middleware/Oracle_Home/oracle_common/bin
openseal098e.x86_64 0:0.9.8e-29.e17_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@obdxhls devops]# openssl enc -aes-128-cbc -k "god bless you" -P -md sha256
salt=59E548065F81C1564 openssl enc -aes-128-cbc -k "god bless you" -P -md sha256
key=611D6C63AD4A55FABFE06EE0C9E1658
iv =97AFDC0C9DAD3D91FE36EB2B0BE4DF
[root@obdxhls devops]# ./mkstore -url /home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/components/OHS/instances/ohs1/webgate/config/cwg_wallet -createUserCredential CWG enc_key enc 611D6C63AD4A55FABFE06EE0C9E1658
bash: ./mkstore: No such file or directory
[root@obdxhls devops]# cd /home/devops/Oracle/Middleware/Oracle_Home/oracle_common/bin/
[root@obdxhls bin]# ./mkstore -url /home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/components/OHS/instances/ohs1/webgate/config/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@obdxhls bin]# export JAVA_HOME=/home/devops/Oracle/Middleware/Oracle_Home/oracle_common/jdk/jre
[root@obdxhls bin]# ./mkstore -url /home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/components/OHS/instances/ohs1/webgate/config/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@obdxhls bin]# ./orapki wallet display -wallet /home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/components/OHS/instances/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@obdxhls 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
```

```
    WLProxySSL ON
```

```
    WLProxySSLPassThrough 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.