

IDCS-OBDX Setup Guide
Oracle Banking Digital Experience
Patchset Release 21.1.3.0.0

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ORACLE®

IDCS-OBDX Setup Guide

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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 Oracle 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 Patchset Release 21.1.3.0.0, refer to the following documents:

- Oracle Banking Digital Experience Installation Manuals

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

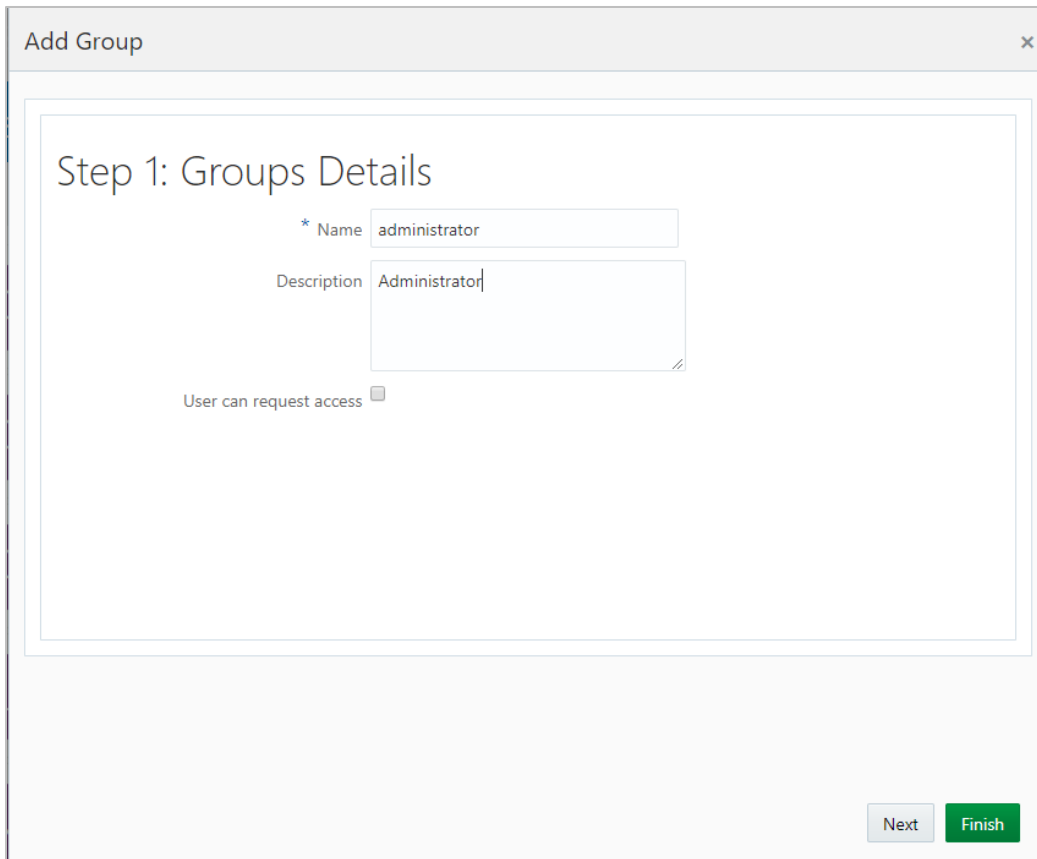
2. Click on **Add a group** button shown below.

The screenshot shows the Oracle Identity Cloud Service (IDCS) admin console dashboard for 'ZigBank Identity Cloud Service'. The user is logged in as 'admin@oracle.com'. The dashboard displays several key metrics:

- Users:** 190 Total (9 Created, 0 Removed)
- Applications:** 50 Total (8 Created, 0 Removed)
- Groups:** 9 Total (0 Created, 0 Removed). An 'Add a group' button is visible on the right side of the card.
- Passwords:** 27 Total
- Logins:** 219 Total
- All Reports:** 5 Total

The dashboard also includes a 'Filter by Date Range' dropdown set to 'Last 30 Days' and a 'Here's what you can do' section with links for 'Watch the Video', 'Learn More', and 'What's New'. A list of actions is provided, including 'Onboarding Users and Groups', 'Onboarding Applications', 'Auditing the System, Users, and Groups', 'Managing Security Settings', 'Performing Self-Service Diagnostics', 'Customizing the Service', and 'Performing End-User Self Service'.

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

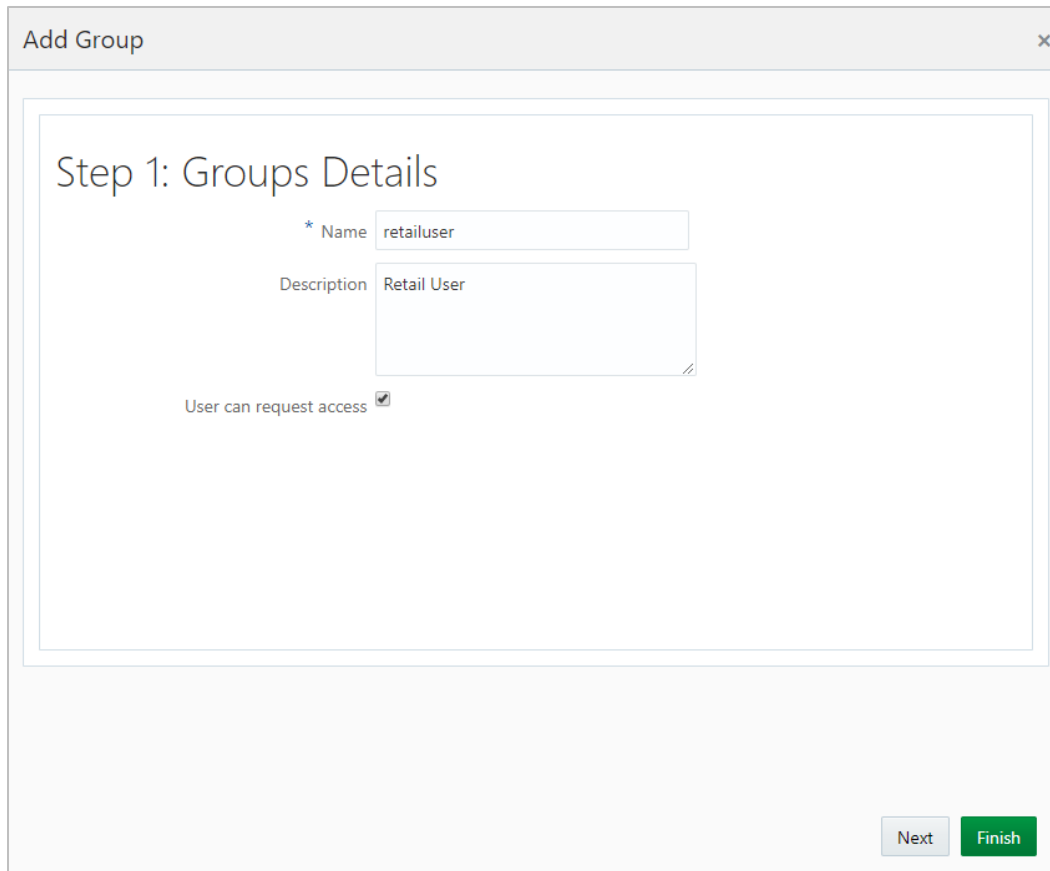


The screenshot shows a window titled "Add Group" with a close button (X) in the top right corner. Inside the window, the title "Step 1: Groups Details" is displayed. Below the title, there are two input fields: "Name" with the value "administrator" and "Description" with the value "Administrator". Below these fields is a checkbox labeled "User can request access" which is currently unchecked. At the bottom right of the window, there are two buttons: "Next" and "Finish".

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

Pre-requisite step:

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

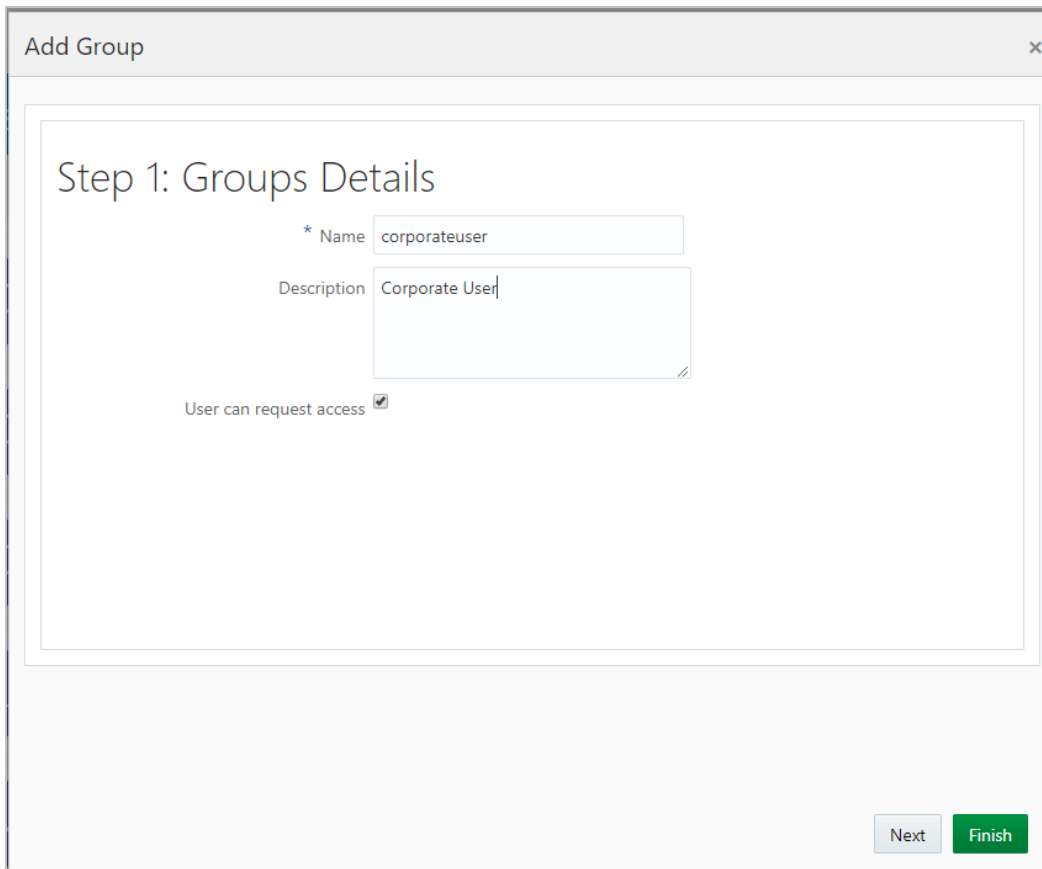


The screenshot shows a window titled "Add Group" with a close button (X) in the top right corner. Inside the window, there is a section titled "Step 1: Groups Details". Below this title, there are three input fields: a text box for "Name" containing "retailuser", a text box for "Description" containing "Retail User", and a checkbox labeled "User can request access" which is checked. At the bottom right of the window, there are two buttons: "Next" and "Finish".

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

Pre-requisite step:

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



The screenshot shows a dialog box titled "Add Group" with a close button (X) in the top right corner. Inside the dialog, there is a section titled "Step 1: Groups Details". Below this title, there are two input fields: "Name" with the value "corporateuser" and "Description" with the value "Corporate User". Below the description field, there is a checkbox labeled "User can request access" which is checked. At the bottom right of the dialog, there are two buttons: "Next" (disabled) and "Finish" (active).

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.

The screenshot displays the ZigBank Identity Cloud Service dashboard. At the top, the header includes the ZigBank logo, the text 'Identity Cloud Service', and a user profile icon labeled 'AO'. Below the header, a green banner welcomes the user as 'admin@oracle.com' and provides navigation links for 'Watch the Video', 'Learn More', and 'What's New'. A list of tasks is shown, including 'Onboarding Users and Groups', 'Onboarding Applications', 'Auditing the System, Users, and Groups', 'Managing Security Settings', 'Performing Self-Service Diagnostics', 'Customizing the Service', and 'Performing End-User Self Service'. A filter for 'Last 30 Days' is present. The dashboard features six main cards: 'Users' (190 Total, 9 Created, 0 Removed) with an 'Add a user.' button; 'Applications' (50 Total, 8 Created, 0 Removed); 'Groups' (9 Total, 0 Created, 0 Removed); 'Passwords' (27 Total); 'Logins' (218 Total); and 'All Reports' (5 Total).

Category	Total	Created	Removed
Users	190	9	0
Applications	50	8	0
Groups	9	0	0
Passwords	27		
Logins	218		
All Reports	5		

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

The screenshot shows a window titled "Add User" with a close button (x) in the top right corner. Inside the window, the heading "Step 1: Add User Details" is displayed. Below the heading, a note states: "The user name will be used to log in, and the email address will be flagged as the primary email address for the user." The form contains four required fields, each marked with an asterisk (*):

- * First Name: super
- * Last Name: admin
- * User Name: superadmin
- * Email: john.doe@domain.com

Below the email field, there is a checkbox labeled "Use the email address as the user name" which is currently unchecked. At the bottom right of the window, there are two buttons: "Next" (disabled) and "Finish" (active).

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

Pre-requisite step:

Add User x

Step 2: Assign User to Groups (Optional)

Select All

Selected: 1 [Clear Selection](#)

	Name	Description
<input type="checkbox"/>	Admin	New role for PSD2 purpose
<input checked="" type="checkbox"/>	administrator	Administrator
<input type="checkbox"/>	Administrators	Administrators
<input type="checkbox"/>	Anonymous	Anonymous
<input type="checkbox"/>	corporateuser	Corporate User
<input type="checkbox"/>	Customer	Customer
<input type="checkbox"/>	Operators	Operators

Page 1 of 1 (1-8 of 8 items) K < 1 > X [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.

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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/`

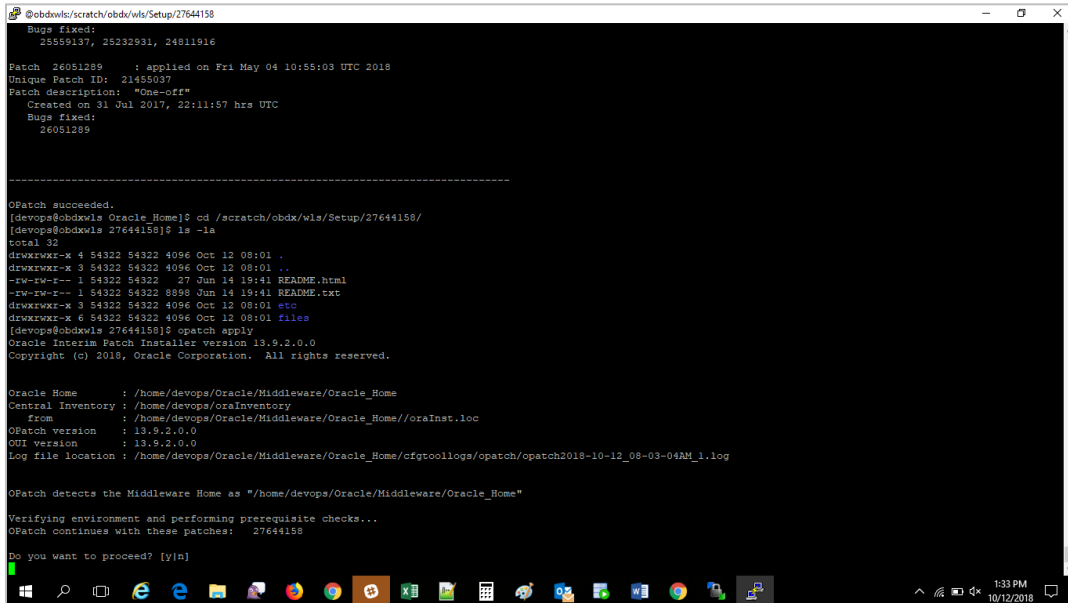
```
[devops@obdxwls ~]$ opatch lsinventory -jre <jre-path>
```

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: 21485037
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.

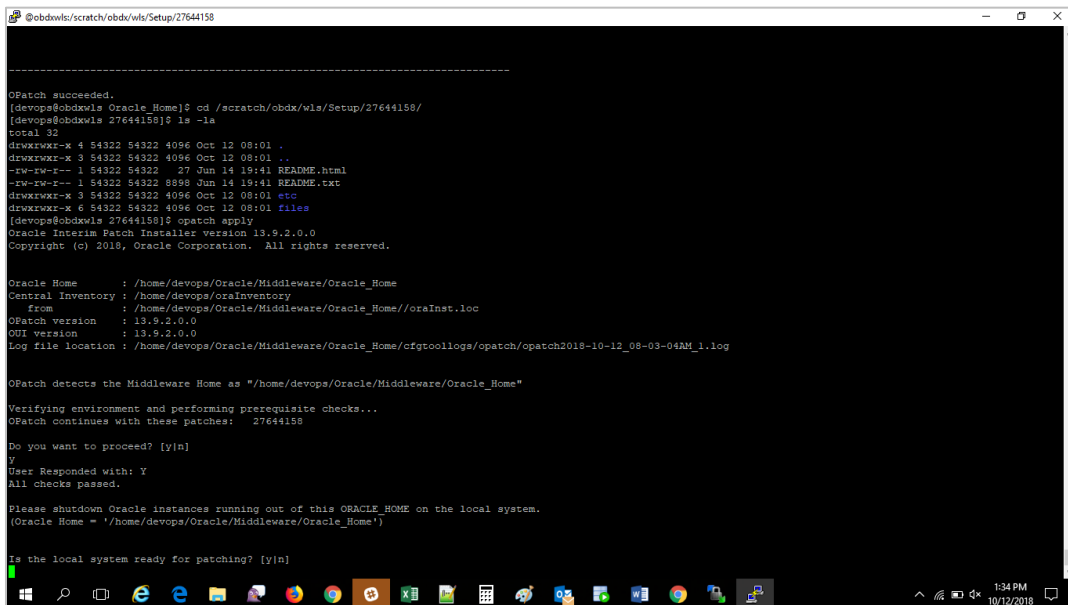
Oracle Home      : /home/devops/Oracle/Middleware/Oracle_Home
Central Inventory : /home/devops/oraInventory
   from           : /home/devops/Oracle/Middleware/Oracle_Home/oraInst.loc
Patch version    : 13.9.2.0.0
OUI version      : 13.9.2.0.0
Log file location: /home/devops/Oracle/Middleware/Oracle_Home/cfgtoollogs/patch/patch2018-10-12_08-03-04AM_1.log

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
Patch 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/obdxwls/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.wis, 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]#
```

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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/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()
```

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

```
@obdowls~/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@obdowls 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>
```

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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"/>`

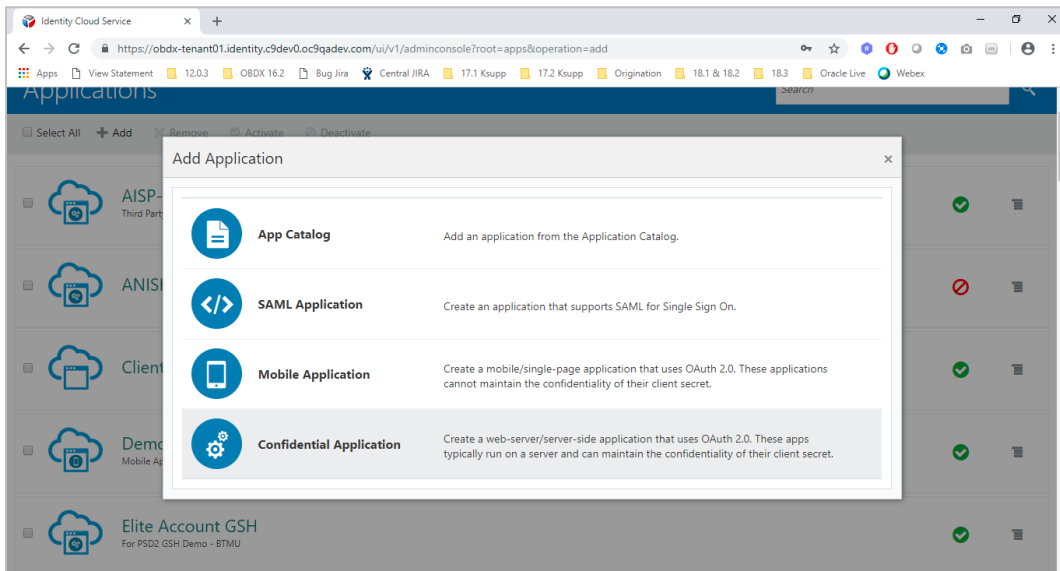
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6. Create an OBDX Client Application in IDCS Console

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	<connection_scheme>://<webserver_host_name>:<webserver_port>
Redirect URL	<Application URL>/oauth/callback
Primary Audience	<Name>
Secondary Audience	<Application URL>



Create an OBDX Client Application in IDCS Console

The screenshot shows the 'Add Confidential Application' wizard in the Identity Cloud Service console. The wizard is at the 'App Details' step, with a progress bar indicating the sequence: Details (active), Client, Resources, Web Tier Policy, and Authorization. The 'App Details' section includes the following fields:

- Name:** OBDX182Installer
- Description:** (empty text area)
- Application Icon:** A cloud icon with a gear and a plus sign. An 'Upload' button is located below the icon.
- 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' wizard in the Identity Cloud Service console, now at the 'Client' step. The 'App Details' section is partially visible at the top. The 'Client' section includes the following fields:

- Application URL:** http://mum00afd.in.oracle.com:14777
- Custom Login URL:** (empty text field)
- Custom Logout URL:** (empty text field)
- Custom Error URL:** (empty text field)
- Linking callback URL:** (empty text field)

Below the 'Client' section is the 'Tags' section, which includes a sub-header 'Add tags to your applications to organize and identify them. A tag consists of a key-value pair.' and an '+ Add Tag' button.

At the bottom is the 'Display Settings' section, which includes two checkboxes:

- Display in My Apps:**
- User can request access:**

3. Click Next

Create an OBDX Client Application in IDCS Console

The screenshot shows the 'Add Confidential Application' wizard in the Identity Cloud Service console. The 'Authorization' step is active, with a progress bar indicating the sequence: Details, Client, Resources, Web Tier Policy, and Authorization. The 'Configure this application as a client now' radio button is selected. Under 'Allowed Grant Types', 'Resource Owner', 'Client Credentials', and 'Authorization Code' are checked. 'Allow non-HTTPS URLs' is also checked, with a 'Redirect URL' field containing 'http://mum00afd.in.oracle.com:14777/'. There are fields for 'Logout URL' and 'Post Logout Redirect URL'. At the bottom, 'Allowed Operations' includes 'Introspect' and 'On behalf Of' checked. An 'Import' button is visible.

The screenshot shows the 'Grant the client access to Identity Cloud Service Admin APIs' section. It features a '+ Add' button and a table with columns for 'App Roles' and 'Scope'. The table lists various roles and their access status to protected resources.

App Roles	Protected	Scope
No data to display.		
Grant the client access to Identity Cloud Service Admin APIs		
+ Add		
Application Administrator	No	×
Kerberos Administrator	No	×
Me	No	×
Security Administrator	No	×
User Administrator	No	×
Signin	No	×
Self Registration	No	×
Identity Domain Administrator	No	×

4. Click **Next**

Create an OBDX Client Application in IDCS Console

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

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

Is Refresh Token Allowed:

Refresh Token Expiration: 604,800

Primary Audience: OBDX182Installer

Secondary Audiences: Add

Secondary Audience: http://mum00afd.in.oracle.com:14777

Scopes: Add

Add Scope

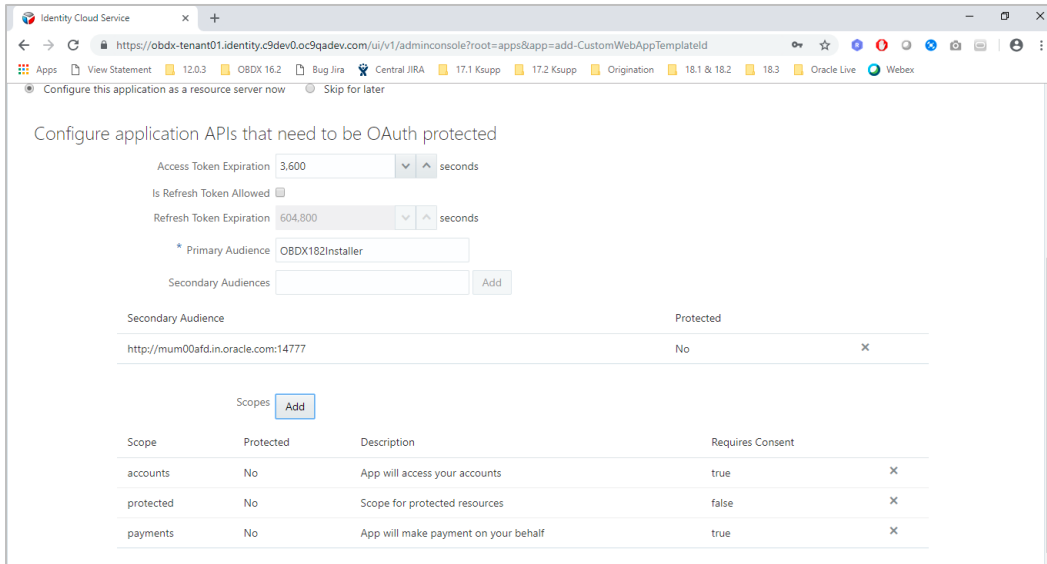
* Scope: accounts

Description: App will access your accounts

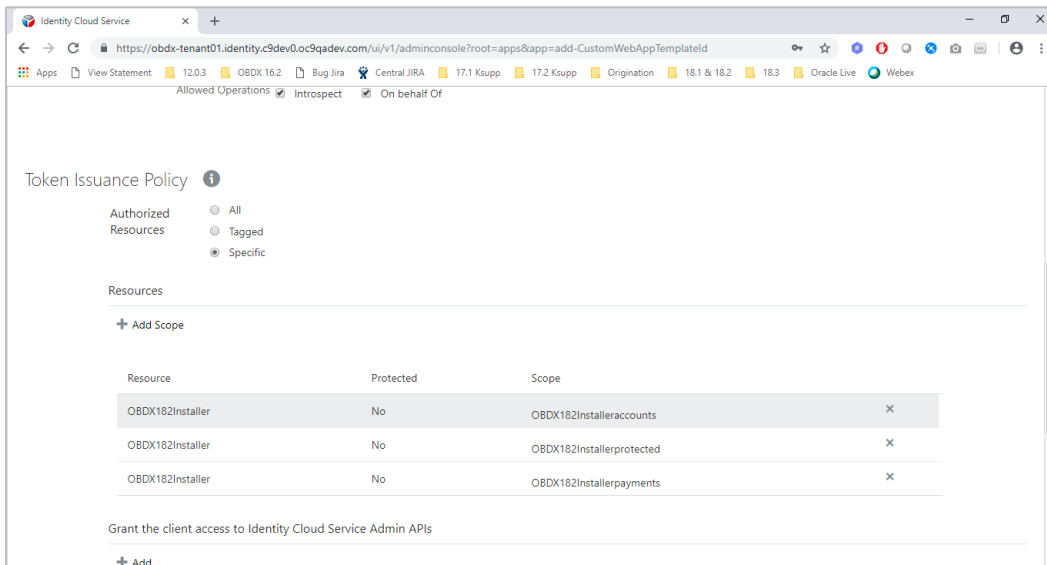
Requires Consent:

Add

Scope	Protected	Description	Requires Consent
No data to display.			



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

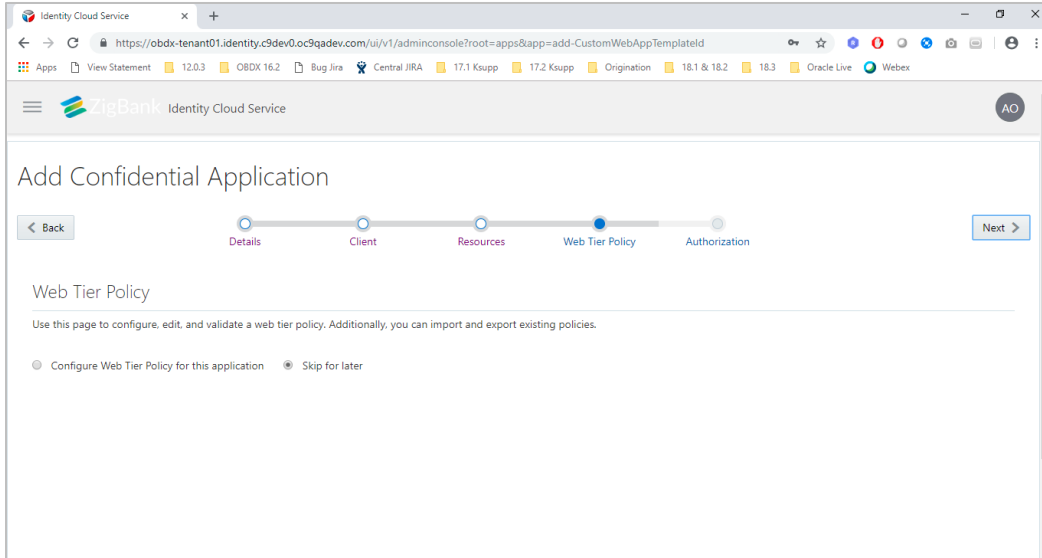


6. Note down the name of protected scope above.

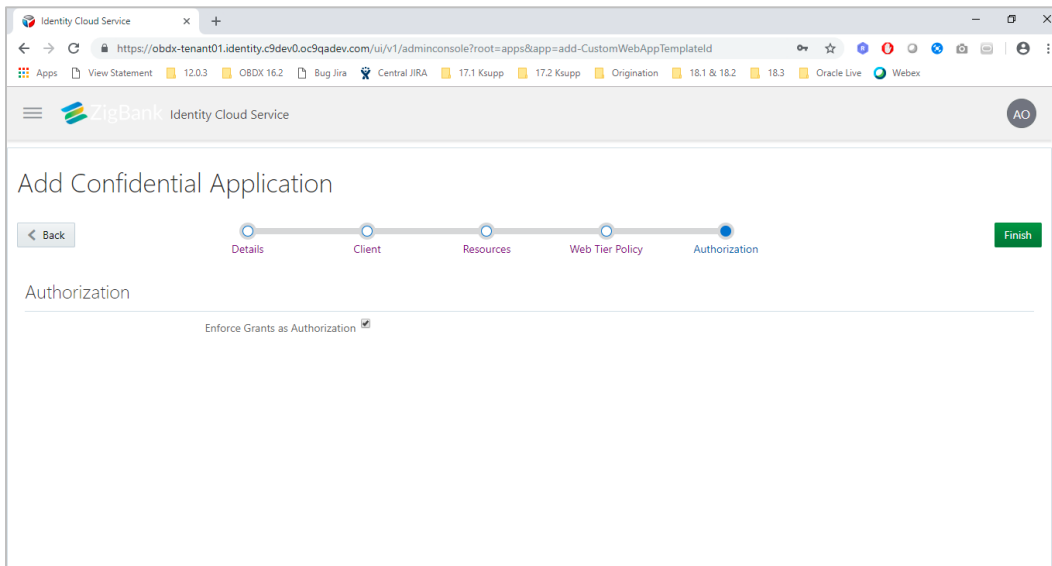
allowed_scope_name_of_protected_in_OBDX_Client_App	Name of Protected scope. Eg. OBDX182Installerprotected
---	--

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

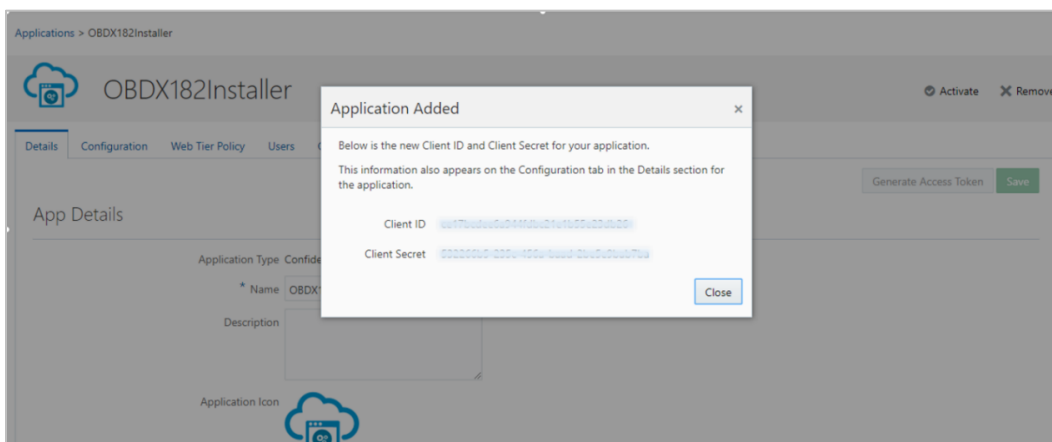
Create an OBDX Client Application in IDCS Console



8. Click Next



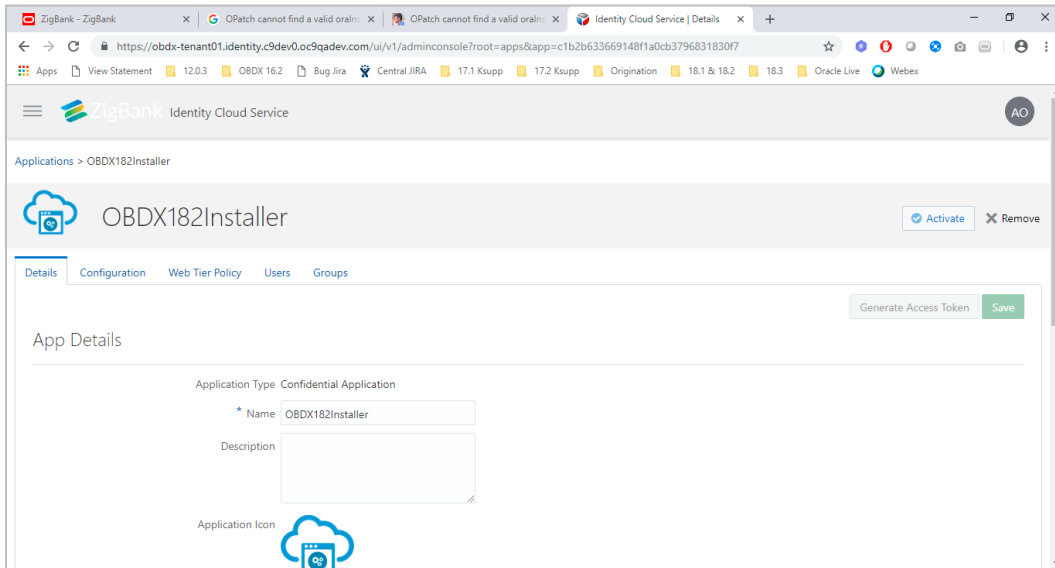
9. Click on Finish.



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

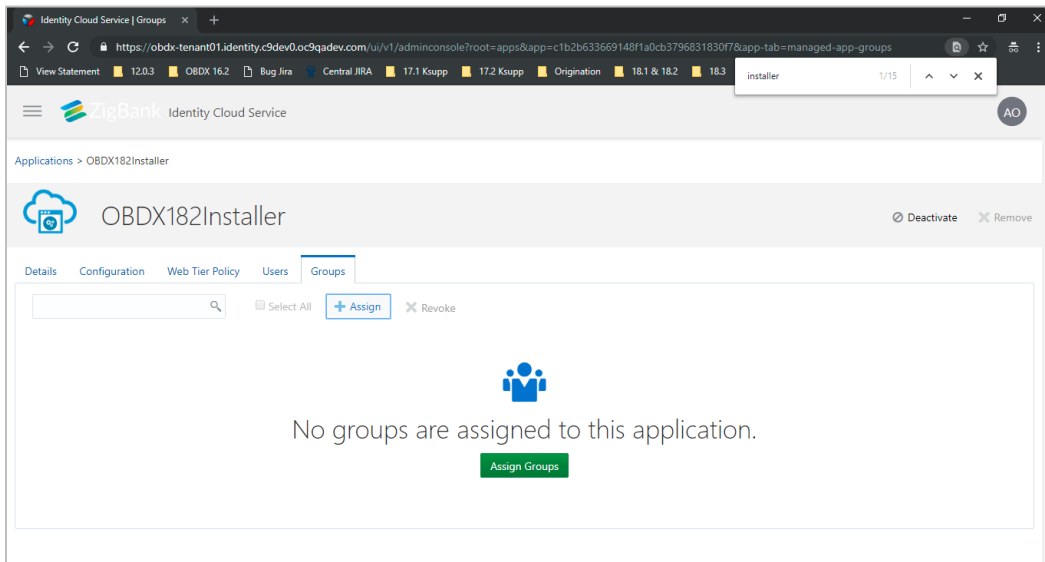
Glossary of parameters:

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



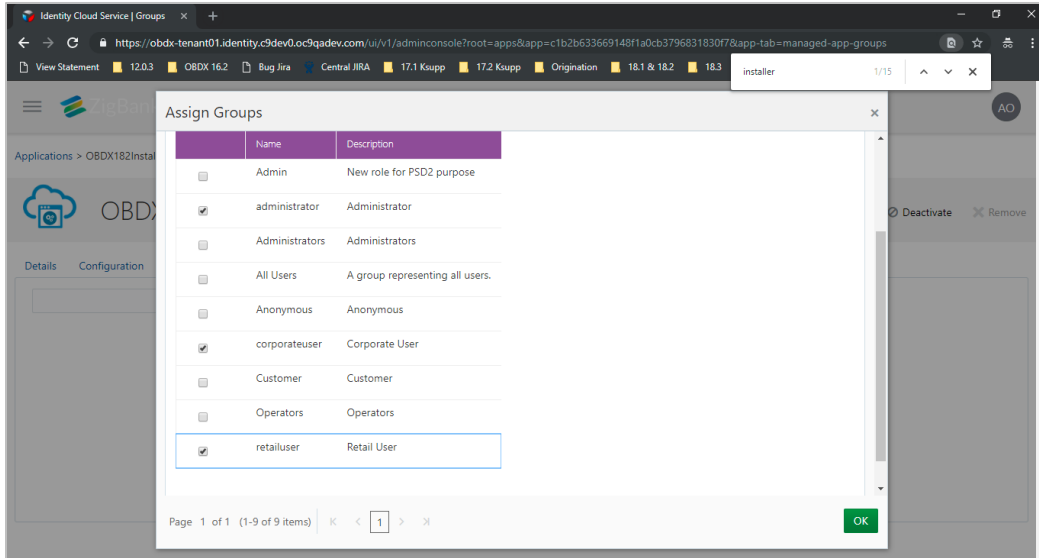
11. Click on **Activate** button.

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

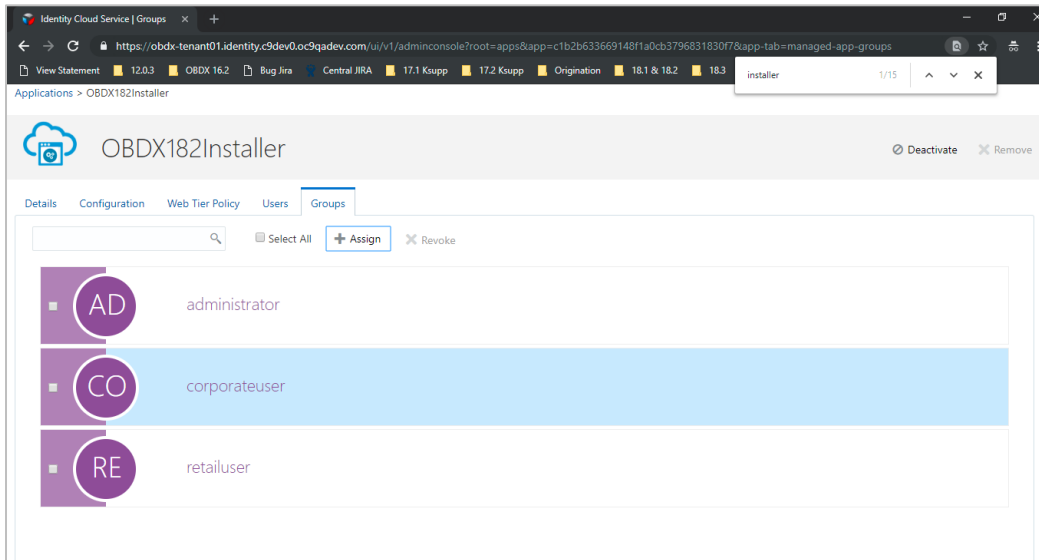


13. Click on **Assign**.

Create an OBDX Client Application in IDCS Console



14. Click **Add**.



15. Above groups are added.

[Home](#)

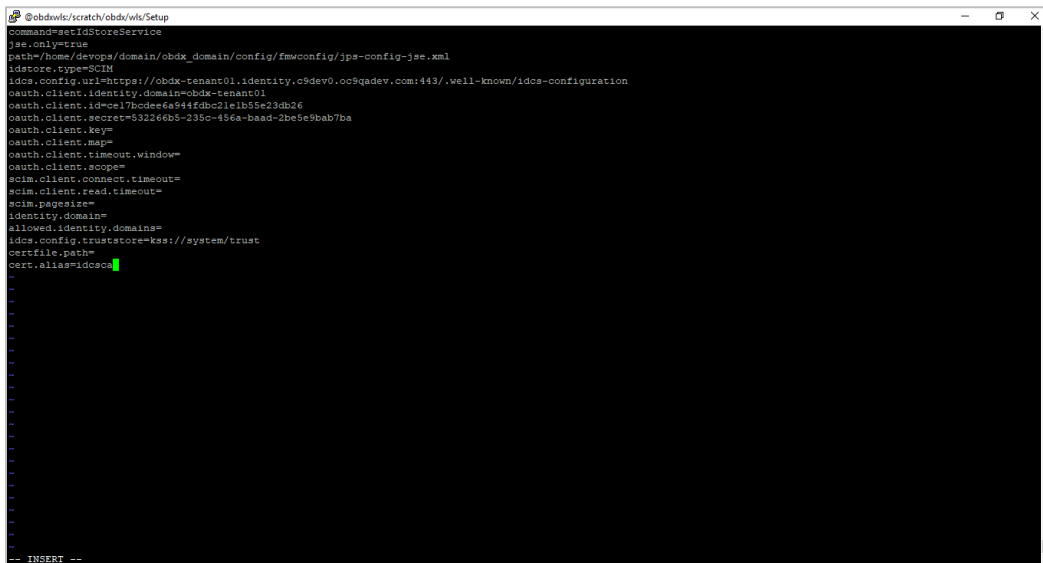
7. Configure OPSS IDCS Identity Store Service

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
```

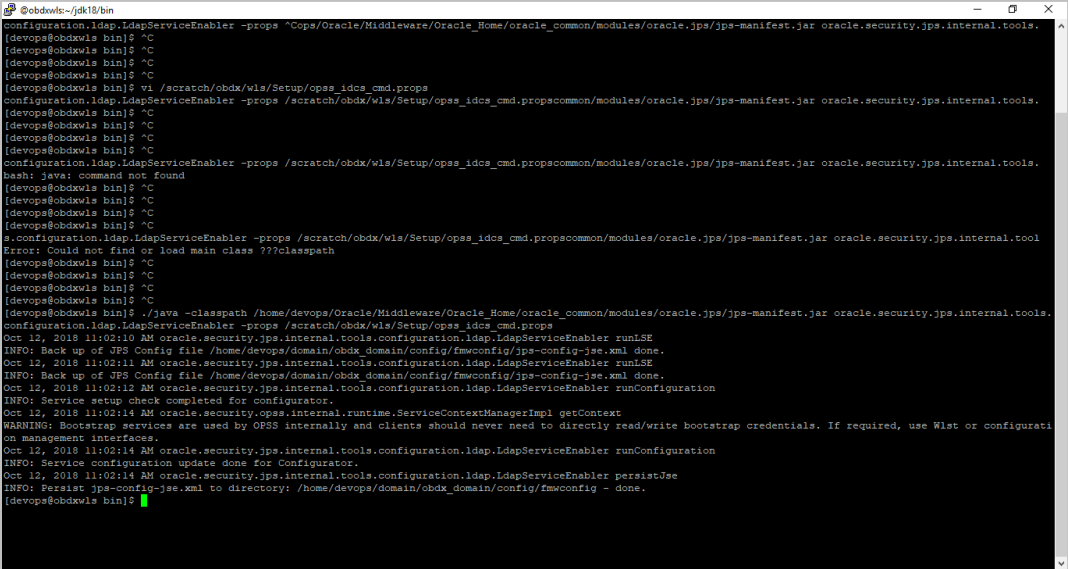


```
@ebdowls/scratch/obdx/wls/Setup
command=setIdStoreService
jse.only=true
path=/home/devops/domain/obdx_domain/config/fmwconfig/jps-config-jse.xml
idstore.type=SCIM
idcs.config.url=https://obdx-tenant01.identity.c9dev0.oc9qadev.com:443/.well-known/idcs-configuration
oauth.client.identity.domain=obdx-tenant01
oauth.client.id=ca17f0ee6a544f8b21e135*23db2f
oauth.client.secret=932266b5-235c-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=kas://system/trust
certfile.path=
cert.alias=idcsca
-- INSERT --
```

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

Run below command

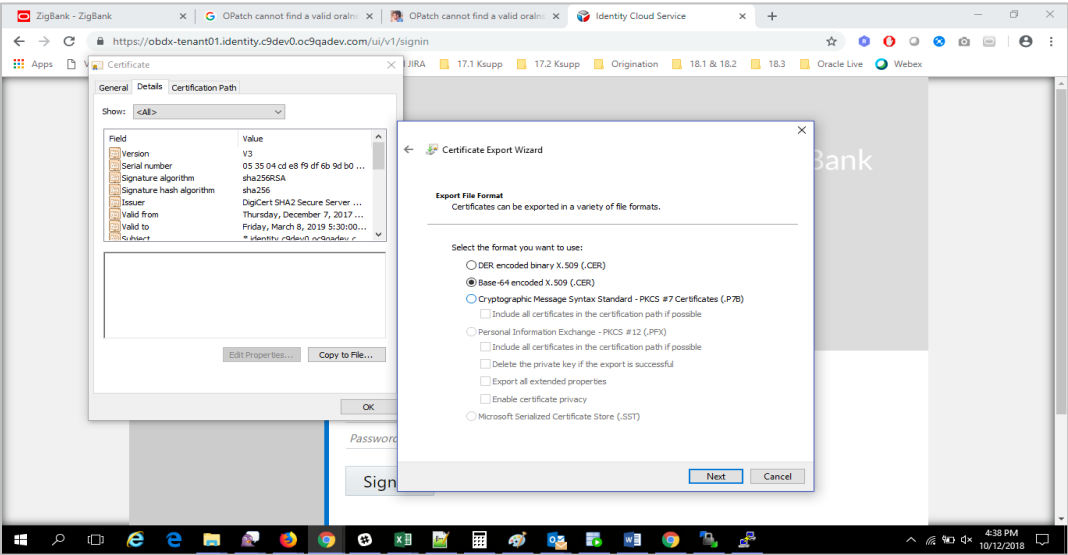
```
java -classpath <oracle-home-path>/oracle_common/modules/oracle.jps/jps-manifest.jar oracle.security.jps.internal.tools.configuration.Idap.LdapServiceEnabler -props <local-path-of-opss_idcs_cmd.props>
```



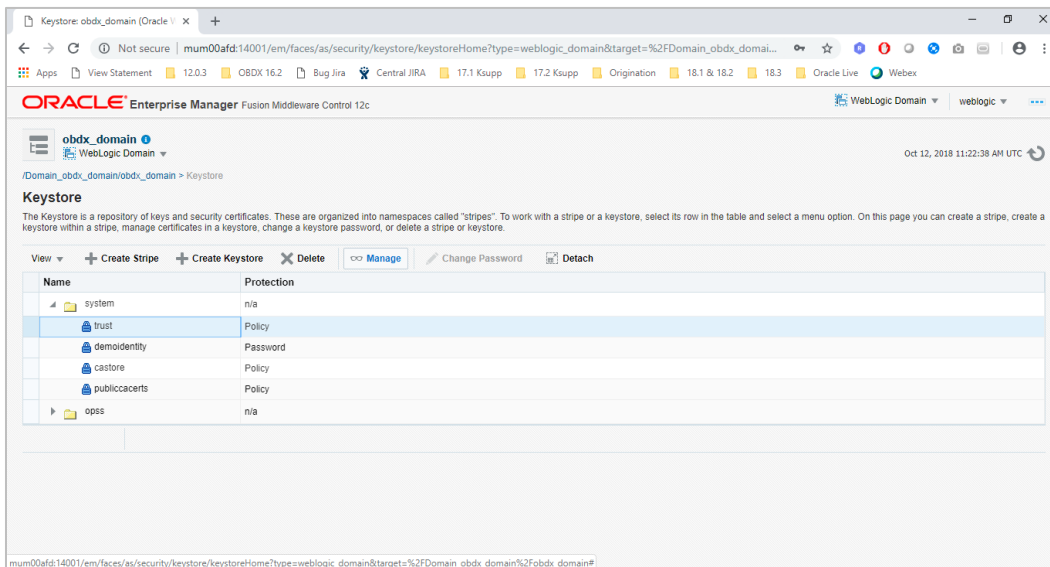
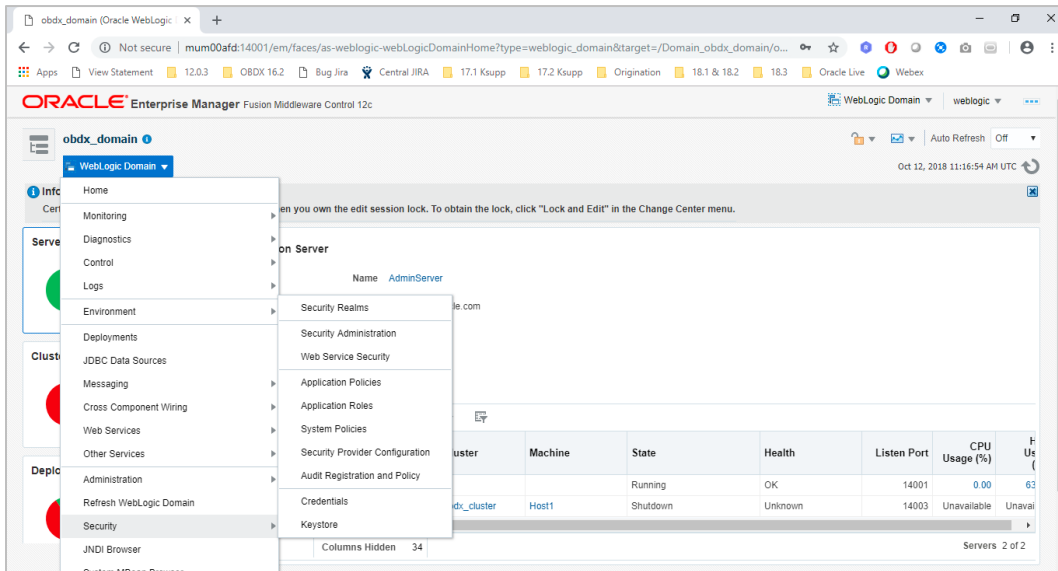
3. To provide cert to SSL connection:

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.



Configure OPSS IDCS Identity Store Service

Manage Certificates: obdx_domain

Oracle Enterprise Manager Fusion Middleware Control 12c

WebLogic Domain | weblogic

obdx_domain

WebLogic Domain

Oct 12, 2018 11:23:22 AM UTC

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	0:643a8066409...	ca 61 71 5b 64 fb 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	0x15c82bde403...	f8 5d 49 a4 12 54 78 c7 b6 42 a7 14 3e 6 15 1e a0 d4 ...	October 25, 2022

mum00afd:14001/em/faces/au/security/keystore/manageCertificate?type=weblogi...

Manage Certificates: obdx_domain

Oracle Enterprise Manager Fusion Middleware Control 12c

WebLogic Domain | weblogic

obdx_domain

WebLogic Domain

Oct 12, 2018 11:23:22 AM UTC

Domain_obdx_domain/obdx_domain > Keystore > Manage Certificates

Import Certificate

Certificate Type: Trusted Certificate

Alias: idccca

Certificate Source: Paste Certificate or Certificate Chain

Paste Certificate String here

Select a file that contains the Certificate or Certificate Chain

File Name: idccca.cer

Choose File containing a valid certificate

Choose File | idccca.cer

OK Cancel

Manage Certificates: obdx_domain

Information
Trusted Certificate imported successfully

Domain_obdx_domain/obdx_domain > Keystore > Manage Certificates

Manage Certificates: system/trust

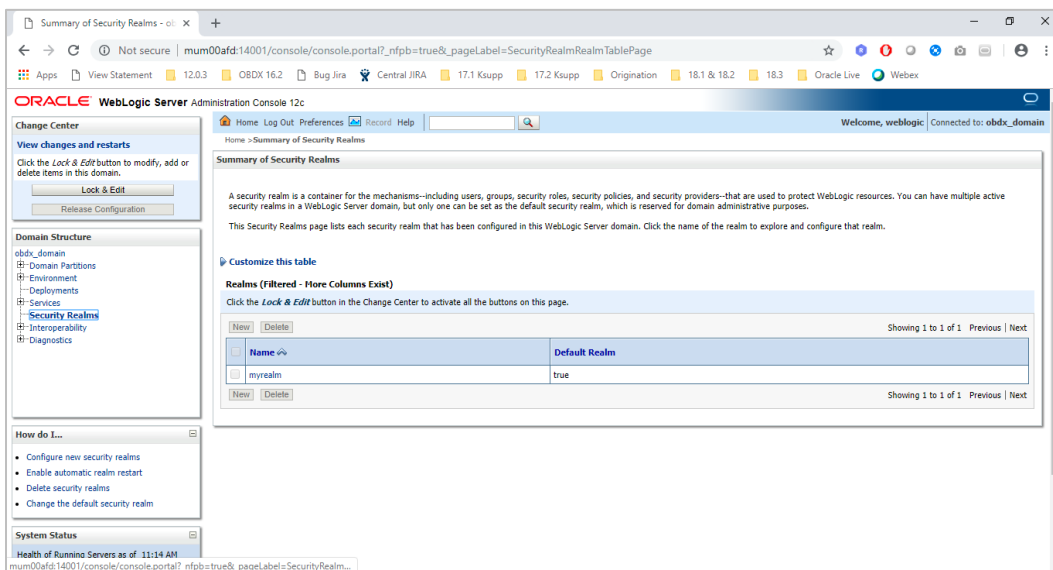
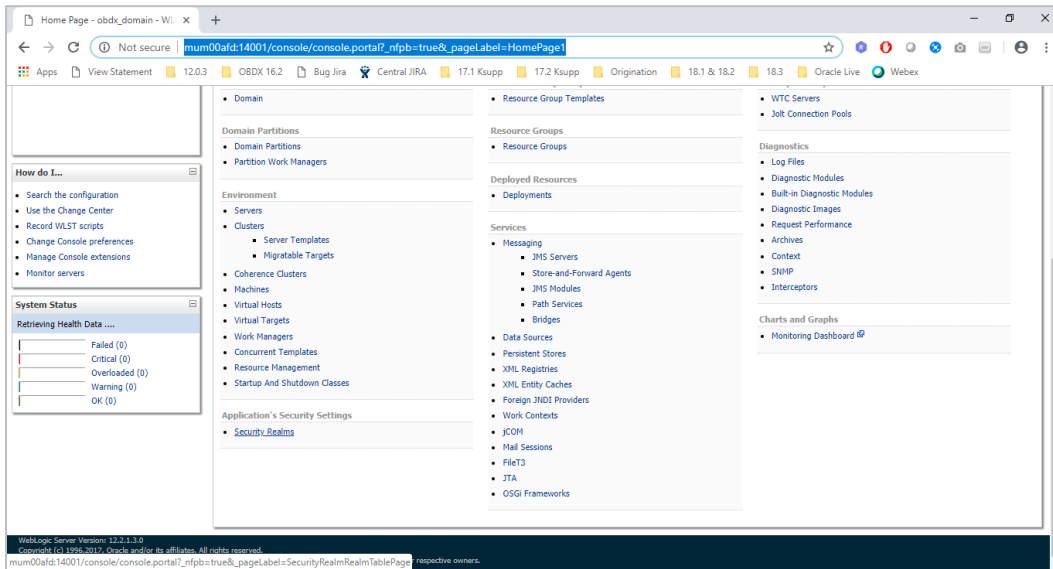
To generate a new key pair (public and private key) and wrap the public key into a certificate signed by the Demo CA, click "Generate Keypair". To generate a Certificate Signing Request (CSR), select a certificate from table and click "Generate CSR". After you create a CSR, send it to your CA who will 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	0x643a8066409...	ca 61 71 5b 64 6b 2 63 c6 fb 83 b1 71 10 99 d3 54 6a ...	December 2, 2032
olddemoca	CN=CertGenCAB,OU=FOR TESTING ONLY,O=MyOrganization,L=MyTown,ST=MyState,C=US	Trusted Certificate	0xf5c82bdf903...	f8 5d 49 a4 12 54 78 c7 ba 42 a7 14 3e 6 15 1e a0 d4 ...	October 25, 2022
idcsca	CN="identity.c9dev0.oc9gdev.com,OU=Oracle BMD SALT-LAKE-CITY,O=Oracle Corporation,L=Re...	Trusted Certificate	0x9db0b3369e5...	61 81 8e 35 4a d8 25 e2 c bf f2 c4 ff 91 26 bb ad 8e 3...	March 8, 2019

[Home](#)

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



Adding IDCS as an Identity Provider in Weblogic Security Realms

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area is titled 'Settings for myrealm' and includes a navigation menu with 'Providers' selected. Below this, there are tabs for 'Authentication', 'Password Validation', 'Authorization', 'Adjudication', 'Role Mapping', 'Auditing', 'Credential Mapping', and 'Certification Path'. The 'Authentication Providers' section contains a table with the following data:

Name	Description	Version
<input checked="" type="checkbox"/> DBAuthenticator	OBDX - DB Authenticator	18.2.0.2.0,344
<input checked="" type="checkbox"/> SQLAuth	Provider that performs DBMS authentication	1.0
<input type="checkbox"/> OBDXJWT	OBDX Identity Assertion Provider (JWT and OAuth)	18.2.0.2.0,344
<input type="checkbox"/> DefaultAuthenticator	WebLogic Authentication Provider	1.0
<input type="checkbox"/> DefaultIdentityAsserter	WebLogic Identity Assertion provider	1.0

The screenshot shows the 'Delete Authentication Providers' dialog box in the Oracle WebLogic Server Administration Console. The dialog contains a 'Delete' section with the following text:

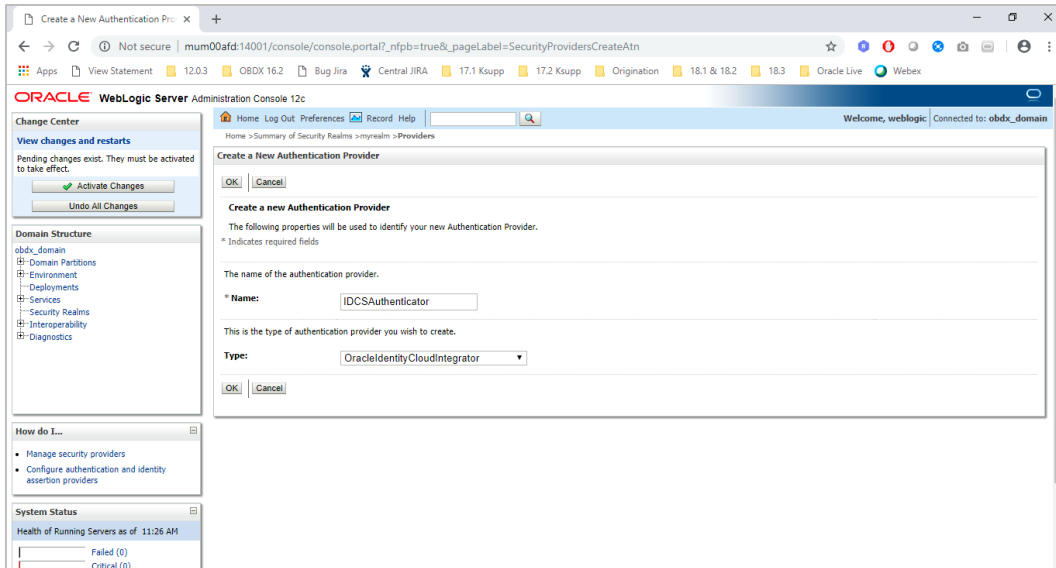
Are you sure you want to delete the following items?

- DBAuthenticator
- SQLAuth

At the bottom of the dialog, there are 'Yes' and 'No' buttons.

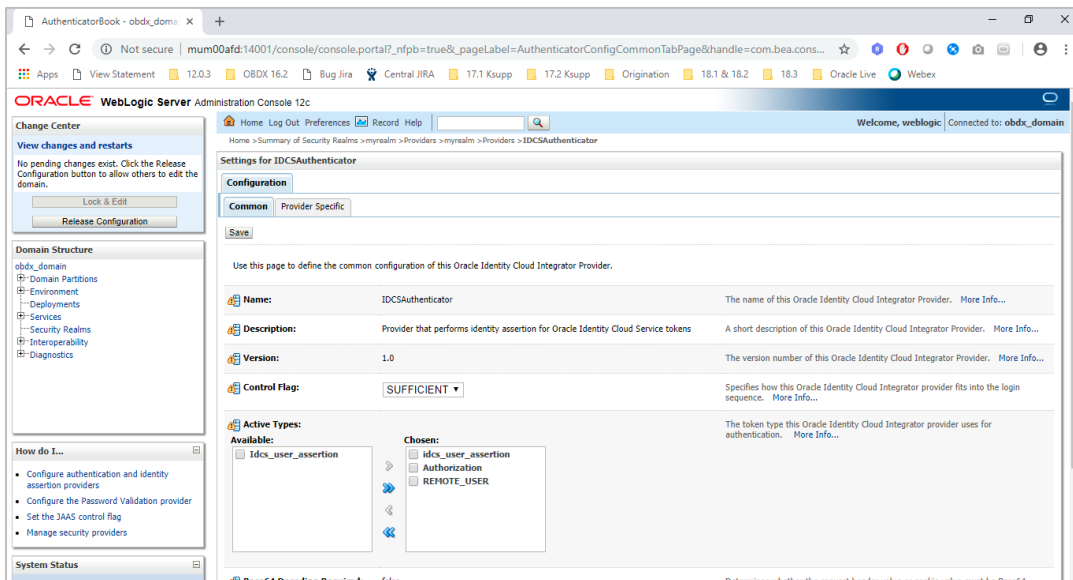
5. Delete *DBAuthenticator* and *SQLAuth* from the list of Authenticator Providers.
6. Create a New Provider.
 - Name : *IDCSAuthenticator*
 - Type : *OracleIdentityCloudIntegrator*

Adding IDCS as an Identity Provider in Weblogic Security Realms



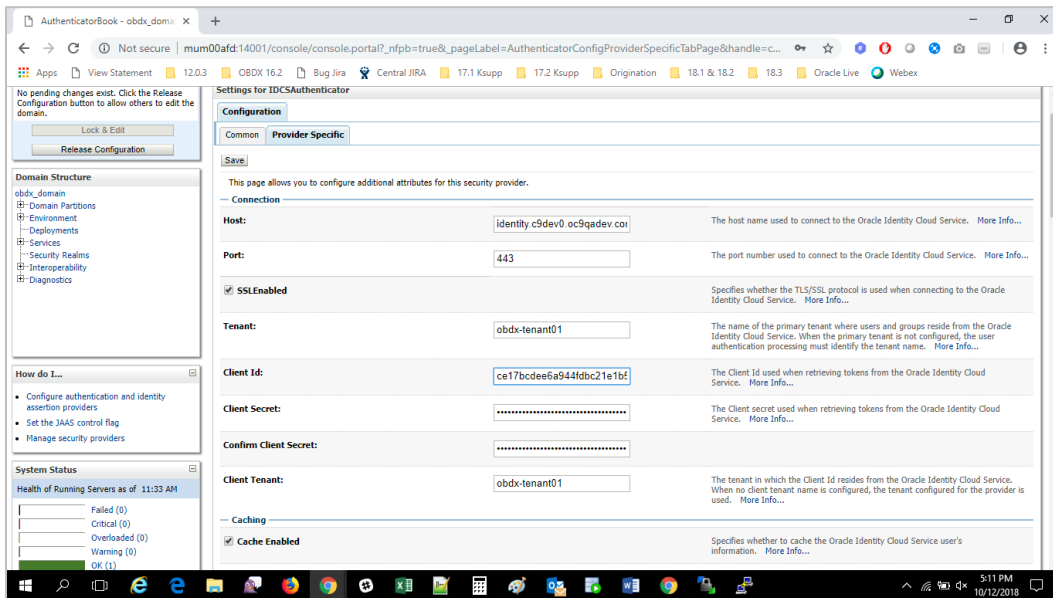
7. IDCSAuthenticator > Configurations > Common

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



8. 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>](#)



Adding IDCS as an Identity Provider in Weblogic Security Realms

AuthenticatorBook - obdx_domain

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

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

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: [Empty]. 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. SCM User resource type attribute that specifies the name of the user. [More Info...](#)

User ID Resource Attribute: id. SCM 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 Broker. Valid values are FULL, MINIMAL, STANDARD, and NONE. [More Info...](#)

Windows taskbar: 5:12 PM 10/12/2018

9. Reorder IDCSAuthenticator to the top of all providers.

Reorder Authentication Provider

Not secure | mum00afd:14001/console/console.portal?SecurityProvidersAtnReorderPortletreturnTo=RealmProvidersTabPage&SecurityRealmA...

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

ORACLE WebLogic Server Administration Console 12c

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

OK | Cancel

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

- Failed (0)
- Critical (0)
- Queued (0)

Adding IDCS as an Identity Provider in Weblogic Security Realms

The screenshot displays the Oracle WebLogic Server Administration Console interface. The main content area is titled "Settings for myrealm" and is under the "Providers" tab. A message at the top states: "All changes have been activated. However 1 item must be restarted for the changes to take effect." Below this, there are tabs for "Authentication", "Password Validation", "Authorization", "Adjudication", "Role Mapping", "Auditing", "Credential Mapping", and "Certification Path".

The "Authentication Providers" section includes a table with the following data:

Name	Description	Version
IDCSAuthenticator	Provider that performs identity assertion for Oracle Identity Cloud Service tokens	1.0
OBDXJWT	OBOX 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

On the left side of the console, there is a "Change Center" section with a "Lock & Edit" button and a "Release Configuration" button. Below that is the "Domain Structure" tree, which includes "obdx_domain", "Domain Partitions", "Environment", "Deployments", "Services", "Security Realms", "Interoperability", and "Diagnostics". At the bottom left, there is a "How do I..." section with links to "Configure authentication and identity assertion providers", "Configure the Password Validation provider", "Manage security providers", "Set the JAAS control flag", and "Re-order authentication providers".

[Home](#)

9. Application Server Changes

9.1 Add argument to Managed server

Dweblogic.security.SSL.hostnameVerifier=weblogic.security.utils.SSLWLSWildcardHostnameVerifier

The screenshot displays the 'Settings for OBDX_MS1 - obdx' page in the Oracle WebLogic Administration Console. The 'Arguments' field is highlighted with a blue box, containing the following text:

```
-Djdk8.JvmId=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.HttpAdapter.dump=true -
Dcom.sun.xml.ws.transport.http.client.HttpTransportPipe.dump=true -
Dcom.sun.xml.ws.transport.http.HttpAdapter.dump=true -
Dcom.sun.xml.ws.transport.http.HttpAdapter.dumpThreshold=999999 -Xdebug -Xnoagent
-Xrunjdwp:transport=dt_socket,server=y,address=14343,suspend=n -
Dweblogic.security.SSL.hostnameVerifier=weblogic.security.utils.SSLWLSWildcardHost
nameVerifier
```

Other visible fields include:

- Java Vendor:** (empty)
- BEA Home:** (empty)
- Root Directory:** (empty)
- Class Path:** /scratch/obdx/wls/config
- Security Policy File:** (empty)
- User Name:** (empty)
- Password:** (empty)

The 'System Status' section on the left shows the health of running servers as of 11:46 AM, with 1 server in 'OK' status.

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 displays the Oracle WebLogic Administration Console interface for configuring the 'obdx_cluster'. The left-hand navigation pane shows the 'Domain Structure' tree with 'obdx_domain' expanded to 'Clusters'. The main content area is titled 'Settings for obdx_cluster' and includes tabs for 'Configuration', 'Monitoring', 'Control', 'Deployments', 'Services', and 'Notes'. The 'General' tab is active, showing various configuration parameters. The 'Advanced' section is expanded, revealing the 'WebLogic Plug-In Enabled' checkbox, which is checked, and the value is set to 'yes'. Other visible settings include 'Default Load Algorithm' set to 'round-robin', 'Cluster Address' (empty), and 'Number of Servers in Cluster Address' set to '3'. The 'System Status' section at the bottom left indicates the health of running servers as of 2:58 PM, with 0 Failed, 0 Critical, and 0 Overloaded servers.

[Home](#)

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.offss.digx.connector.rar > Security > Outbound Credential Mappings

Module Name	Status	Version	Resource Adapter	Outbound Connection Pool	Global	Instances
adf.oracle.domain.webapp.apache.httpcore(1.0,12.2.1.3.0)	Active		Library	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-api-ext(1.0,12.2.1.3.0)	Active		Library	AdminServer, obdx_cluster	Global	100
AuditMDEBAR	New		Enterprise Application	obdx_cluster	Global	100
BatchResourceAdapter	New		Enterprise Application	obdx_cluster	Global	100
coherence-transaction-rar	Active	OK	Resource Adapter	AdminServer, obdx_cluster	Global	100
com.offss.digx.connector	New		Enterprise Application	obdx_cluster	Global	100
Modules						
com.offss.digx.connector.rar			Resource Adapter			
EJBs						
None to display						
Web Services						
None to display						
DMS Application (12.2.1.1.0)	Active	OK	Web Application	AdminServer, obdx_cluster	Global	5
em	Active	OK	Enterprise Application	AdminServer	Global	400
emagentsdkimplpriv_jar(12.4.12.1.0-4.0)	Active		Library	AdminServer	Global	100

Settings for com.offss.digx.connector.rar

Overview | Configuration | **Security** | Control | Testing | Monitoring

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

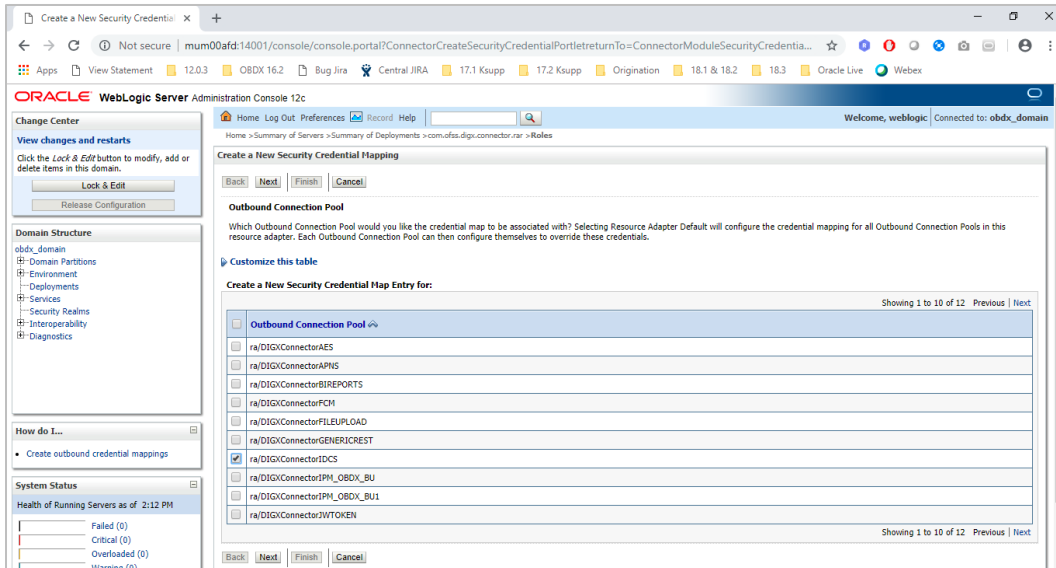
Outbound credential mappings let you map WebLogic Server usernames to usernames in the Enterprise Information System (EIS) to which you want to connect using a resource adapter. You can use default outbound credential mappings for all outbound connection pools in the resource adapter, or specify particular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

Customize this table

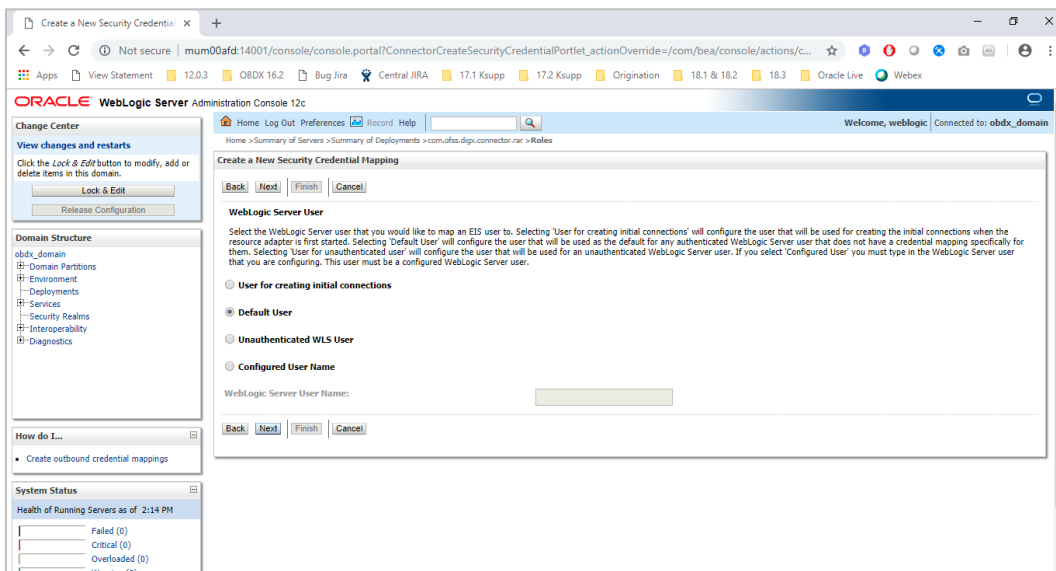
Outbound Credential Mappings

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

3. Click New



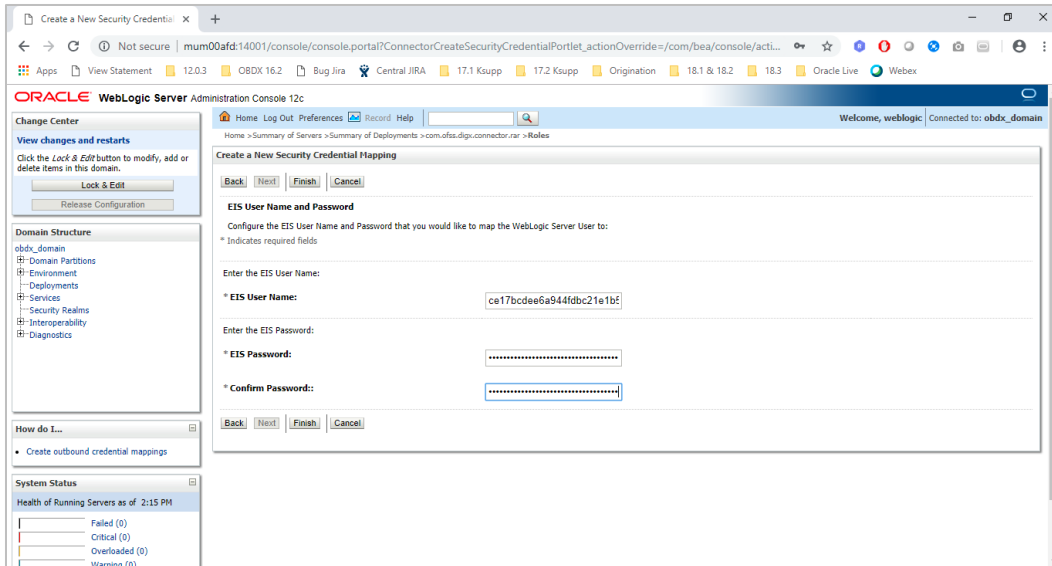
4. Click Next



5. Click Next

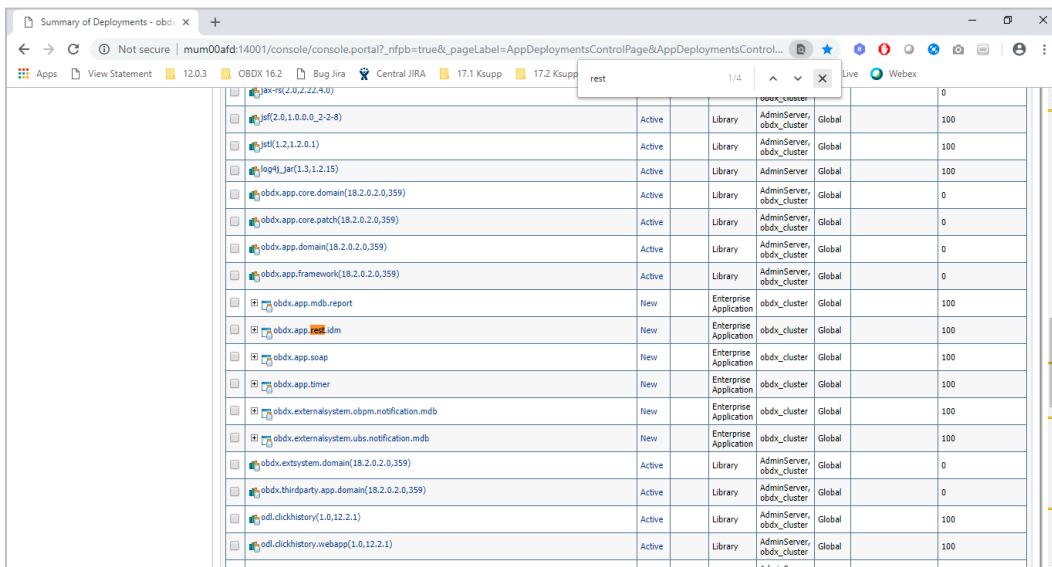
6. Create a new Security Credential Mapping –

- 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>](#)

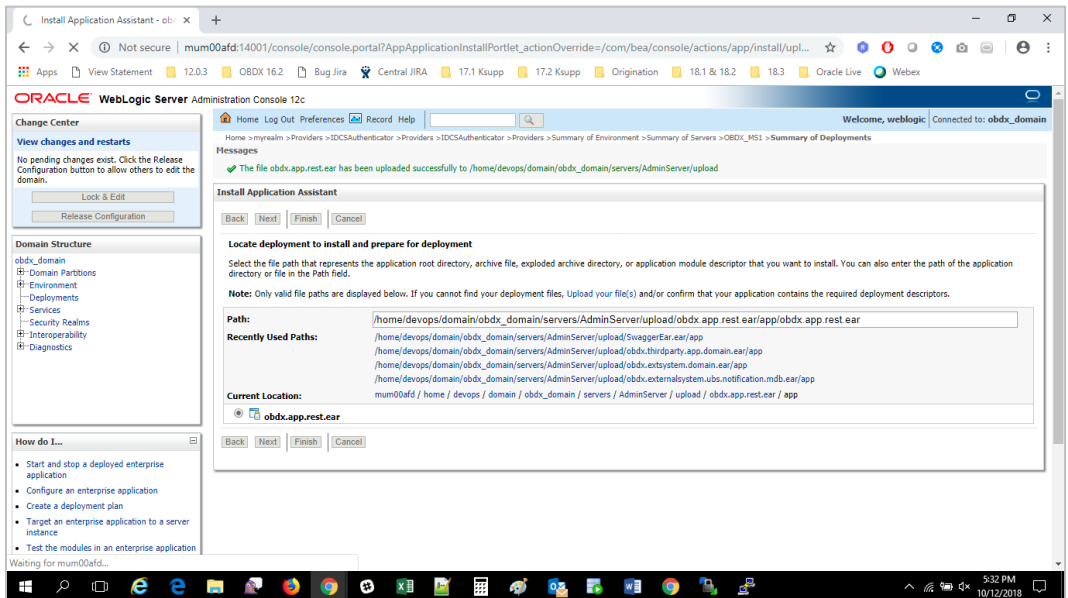
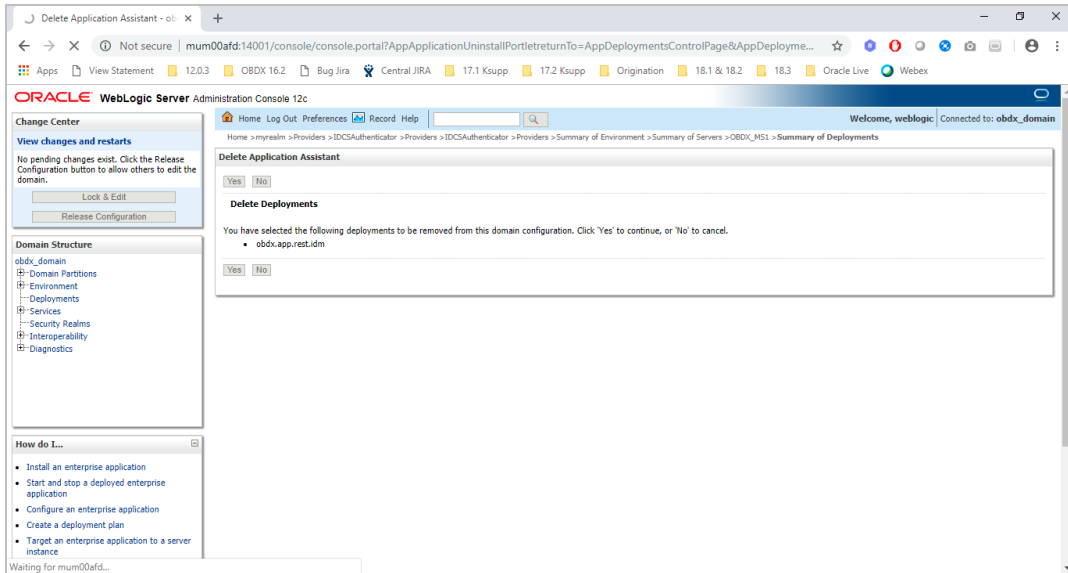


7. Click **Finish**

- 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**.



Change in Weblogic Deployments

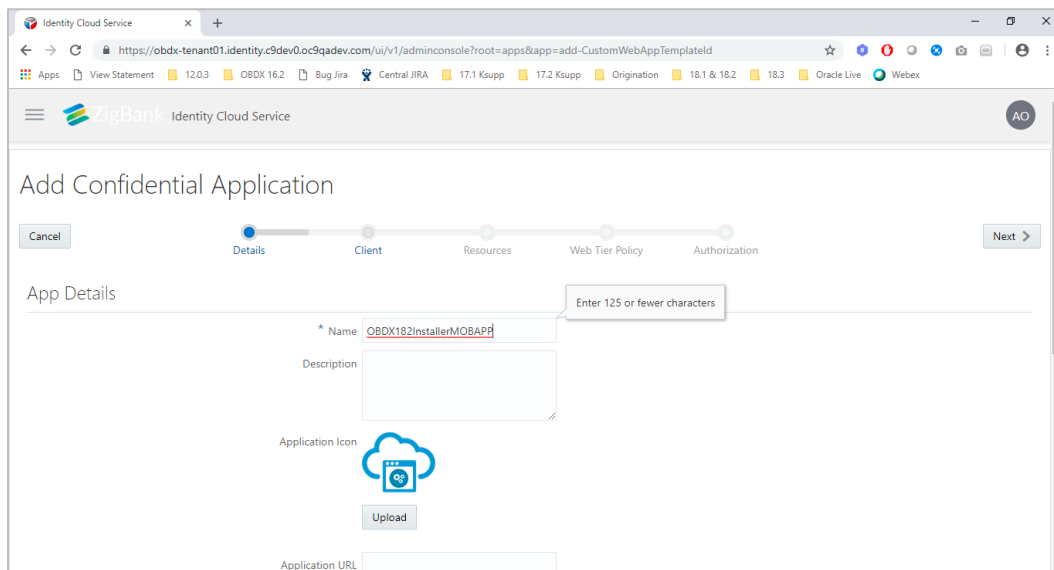


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11. Create Client Applications for Internal OBDX Apps in IDCS Console

Client applications need to be created for below Internal applications.

- Mobile App
- Siri Chatbot
- Snapshot
- Wearable



Create Client Applications for Internal OBDX Apps in IDCS Console

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

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

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 OBDX182InstallerMOBAPP

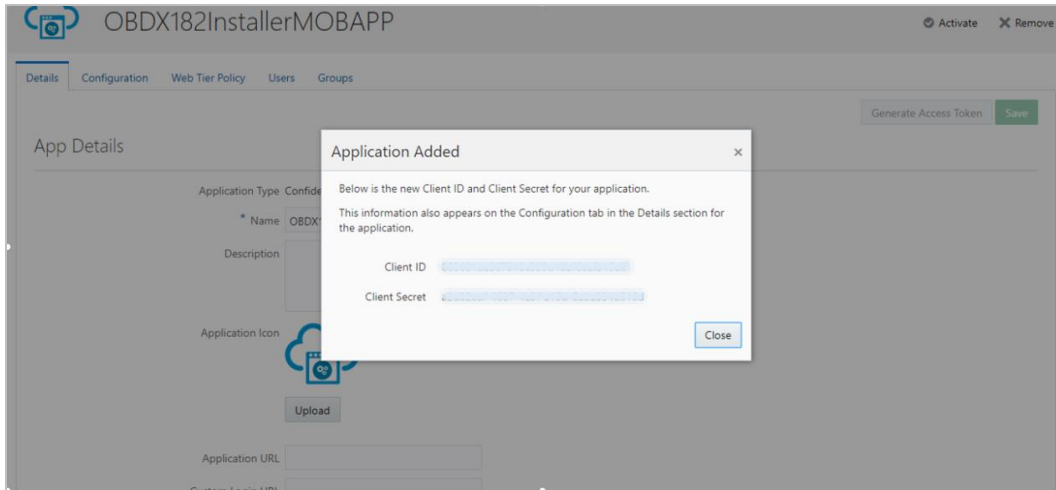
Secondary Audiences Add

Secondary Audience	Protected
No data to display.	

Create Client Applications for Internal OBDX Apps in IDCS Console

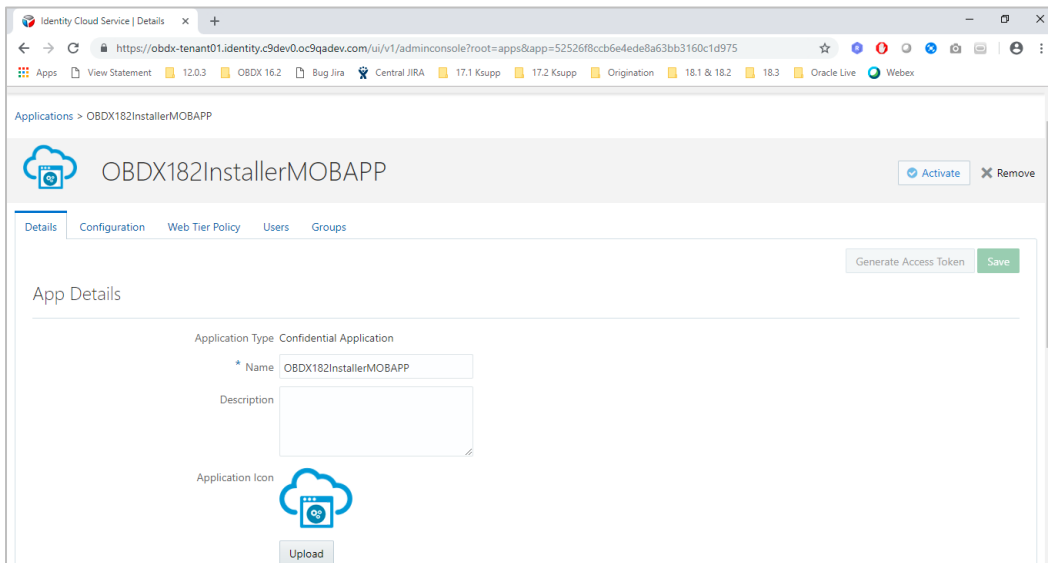
The screenshot shows the 'Add Confidential Application' wizard in the Identity Cloud Service console. The breadcrumb trail is 'Add Confidential Application' > 'Web Tier Policy'. The progress bar indicates that the 'Web Tier Policy' step is currently active. Below the progress bar, the 'Web Tier Policy' section is displayed. It contains the following text: 'Use this page to configure, edit, and validate a web tier policy. Additionally, you can import and export existing policies.' Below this text, there are two radio buttons: 'Configure Web Tier Policy for this application' (which is selected) and 'Skip for later'. A 'Next >' button is visible in the top right corner.

The screenshot shows the 'Add Confidential Application' wizard in the Identity Cloud Service console. The breadcrumb trail is 'Add Confidential Application' > 'Authorization'. The progress bar indicates that the 'Authorization' step is currently active. Below the progress bar, the 'Authorization' section is displayed. It contains the following text: 'Enforce Grants as Authorization' with a checked checkbox. A green 'Finish' button is visible in the top right corner.



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



8. 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,CREATE
D_BY,CREATION_DATE,LAST_UPDATED_BY,LAST_UPDATED_DATE,OBJECT_STATUS,O
BJECT_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';
```

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13. Apply Webgate Patch on OHS using OPatch

1. Download the patch from the below link.

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

Apply Webgate Patch on OHS using OPatch

```
@obdxohs/scratch/obdx/ohs/Setup/28243743
b38011db270e      mmm00chl:5000/obdx182susnav/ohs      "/home/devops/common..."      182_Patch_OBP_DB_FR_2
P                                                         Up 31 hours (healthy)      7777/tcp, 8888/tcp, 0.0.0.0:14777->12777/tcp
12f509f50f88      mmm00chl:5000/obdx182susnav/wls      "/home/devops/common..."      182_Patch_UBS_OHS_FR_2
                                                         Up 31 hours (unhealthy)    12001/tcp, 12003/tcp, 12343/tcp, 0.0.0.0:14
001->14001/tcp, 0.0.0.0:14003->14009/tcp, 12777/tcp, 0.0.0.0:14343->14343/tcp      182_Patch_UBS_WLS_FR_2
6157f6efffae      mmm00chl:5000/obdx182susnav/db      "/home/devops/common..."      31 hours ago      Up 31 hours (healthy)      0.0.0.0:1421->1521/tcp
                                                         Up 31 hours (healthy)    182_Patch_UBS_DB_FR_2

[obdxdevops@mm00chl ~]$ 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/Oracle_Home/OPatch/
[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/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]$
```

```
@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]
```

3. Enter y

Apply Webgate Patch on OHS using OPatch

```
@ebdxkhs/scratch/obdx/ohs/Setup/28243743
[devops@obdxkhs jre]$ cd /scratch/obdx/ohs/Setup/28243743/
[devops@obdxkhs 28243743]$ opatch apply
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/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@obdxkhs 28243743]$
```

[Home](#)

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": "",
      "httpsCrlFile": ""
    }
  }
}
```

[Home](#)

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":"<a href='\"#\"'>allowed scope name of protected in OBDX Client App</a> openid",
        "idcsscope":"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
```

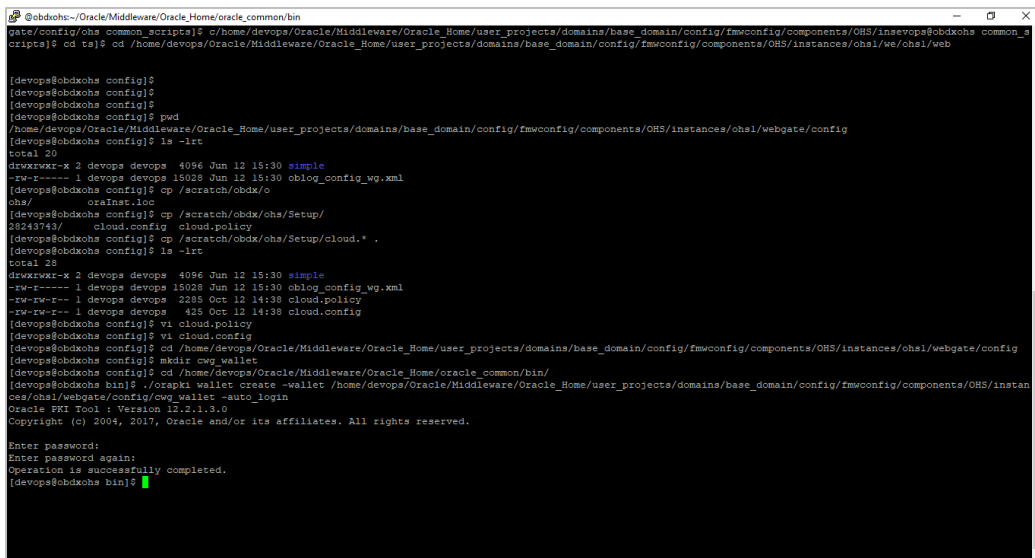
```
[devops@obdxohs ~]$ cd <oracle-home-path>/oracle_common/bin/
```

```
[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] c:/home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/components/OHS/instances/ohs1/web
cripts] cd tsj] cd /home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/components/OHS/instances/ohs1/web

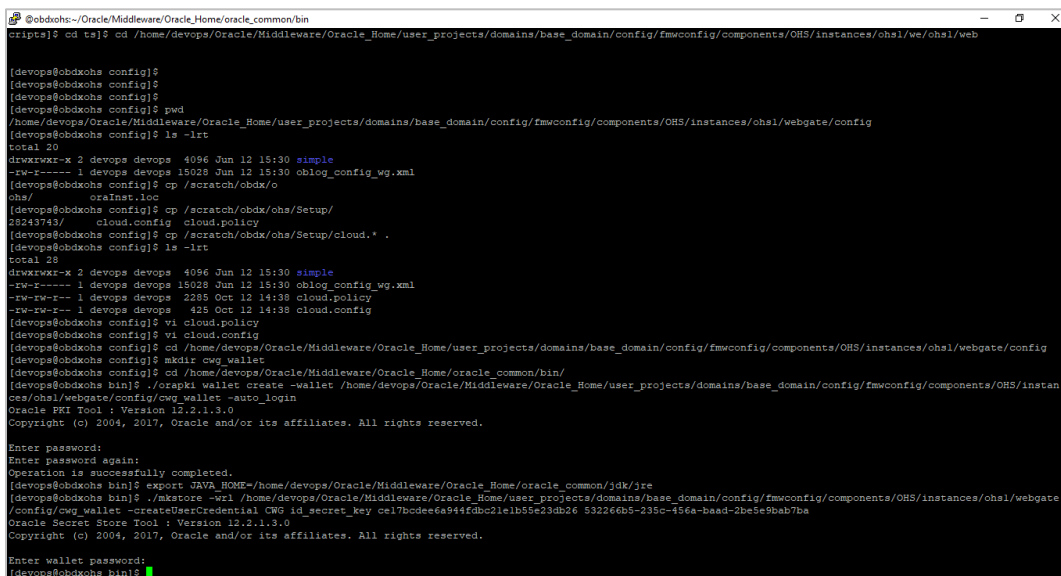
[devops@obdxohs config]$
[devops@obdxohs config]$
[devops@obdxohs config]$ pwd
/home/devops/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain/config/fmwconfig/components/OHS/instances/ohs1/webgate/config
[devops@obdxohs config]$ ls -ltr
total 20
drwxrwxr-x 2 devops devops 4096 Jun 12 15:30 simple
-rw-r----- 1 devops devops 15028 Jun 12 15:30 oblog_config_wg.xml
[devops@obdxohs config]$ cp /scratch/obdx/o
ohs/ 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----- 1 devops devops 13028 Jun 12 15:30 oblog_config_wg.xml
-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.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
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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/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
[devops@obdxohs bin]$ cd ts1$ 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
drwxrwx-k 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 cloud.policy
[devops@obdxohs config]$ cp /scratch/obdx/ohs/Setup/cloud.*
[devops@obdxohs config]$ ls -lrt
total 28
drwxrwx-k 2 devops devops 4096 Jun 12 15:30 simple
-rw-r----- 1 devops devops 15028 Jun 12 15:30 oblog_config_wg.xml
-rw-r----- 1 devops devops 2285 Oct 12 14:38 cloud.policy
-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 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 ORA_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 ce17b0dee6a944fdbc21e1b59e23db26 532266b5-235c-456a-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`

```

@obdxohs/home/devops/Oracle/Middleware/Oracle_Home/oracle_common/bin
opmasi0994.x86_64 0:0.9.4e-29.e17_2.3

Dependency Installed:
keyutils-libs-devel.x86_64 0:1.5.8-3.e17      krb5-devel.x86_64 0:1.15.1-19.e17
libcom_err-devel.x86_64 0:1.42.9-12.e17_5  libnsmms.x86_64 0:1:15.1-19.e17
libselinux-devel.x86_64 0:2.5-12.0.1.e17    libsepol-devel.x86_64 0:2.5-8.1.e17
libverto-devel.x86_64 0:0.2.5-4.e17        pcre-devel.x86_64 0:8.32-17.e17
zlib-devel.x86_64 0:1.2.7-17.e17

Dependency Updated:
krb5-libs.x86_64 0:1.15.1-19.e17      libcom_err.x86_64 0:1.42.9-12.e17_5
libselinux.x86_64 0:2.5-12.0.1.e17    libselinux-utils.x86_64 0:2.5-12.0.1.e17

[root@obdxohs devops]# openssl enc -aes-128-cbc -k "god bless you" -P -md sha256
salt=59E548065F81C156# openssl enc -aes-128-cbc -k "god bless you" -P -md sha256
key=6111D6C63AD4A55FABFE06E20C9E1659
iv =97AFDC09DAD3D391FE36EB2BC0B4DF
[root@obdxohs 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 6111D6C63AD4A55FABFE06E20C9E1659
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/config/cwg_wallet -createUserCredential CWG enc_key enc 6111D6C63AD4A55FABFE06E20C9E1659
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/jpe
[root@obdxohs 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 6111D6C63AD4A55FABFE06E20C9E1659
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/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#34#enc_key
CWG#34#id_secret_key
Trusted Certificates:
[root@obdxohs bin]#

```

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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"
```

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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>

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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.

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