

IDCS-OBDX Setup Guide  
Oracle Banking Digital Experience  
Release 21.1.0.0.0

Part No. F40800-01

May 2021

**ORACLE®**

IDCS-OBDX Setup Guide

May 2021

Oracle Financial Services Software Limited

Oracle Park

Off Western Express Highway

Goregaon (East)

Mumbai, Maharashtra 400 063

India

Worldwide Inquiries:

Phone: +91 22 6718 3000

Fax:+91 22 6718 3001

[www.oracle.com/financialservices/](http://www.oracle.com/financialservices/)

Copyright © 2006, 2021, Oracle and/or its affiliates. All rights reserved.

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

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

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

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

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

---

## Table of Contents

<b>1. Preface .....</b>	<b>1-1</b>
1.1 Intended Audience.....	1-1
1.2 Documentation Accessibility.....	1-1
1.3 Access to Oracle Support.....	1-1
1.4 Structure .....	1-1
1.5 Related Information Sources.....	1-1
<b>2. Pre-requisite step: .....</b>	<b>2-1</b>
2.1 To create groups and user in IDCS.....	2-1
2.2 Install OpenSSL.....	2-8
2.3 OAM installation not required .....	2-8
<b>3. Apply Oracle OPSS SCIM Identity Store OPatch on Weblogic server .....</b>	<b>3-1</b>
<b>4. Extending Weblogic Domain to load 'Oracle OPSS SCIM Identity Store' template .....</b>	<b>4-1</b>
<b>5. Change JPS configurations.....</b>	<b>5-1</b>
<b>6. Create an OBDX Client Application in IDCS Console .....</b>	<b>6-1</b>
<b>7. Configure OPSS IDCS Identity Store Service .....</b>	<b>7-1</b>
<b>8. Adding IDCS as an Identity Provider in Weblogic Security Realms.....</b>	<b>8-1</b>
<b>9. Application Server Changes.....</b>	<b>9-1</b>
9.1 Add below argument to Managed server: .....	9-1
9.2 Managed Server Start Configurations .....	9-2
<b>10. Change in Weblogic Deployments .....</b>	<b>10-1</b>
10.1 Creating a Connection in Connector ear .....	10-1
<b>11. Create Client Applications for Internal OBDX Apps in IDCS Console.....</b>	<b>11-1</b>
<b>12. Database Scripts (to be executed after day0 scripts) .....</b>	<b>12-1</b>

13.	Apply Webgate Patch on OHS using OPatch .....	13-1
14.	cloud.config .....	14-1
15.	cloud.policy .....	15-1
16.	CWallet configuration .....	16-1
17.	Enabling webgate in httpd.conf .....	17-1
18.	Change in mod_wl_ohs.conf .....	18-1
19.	UI Changes.....	19-1
19.1	constants.js: .....	19-1
19.2	idcs-config.json: .....	19-1

---

# 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 Release 21.1.0.0.0, 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.

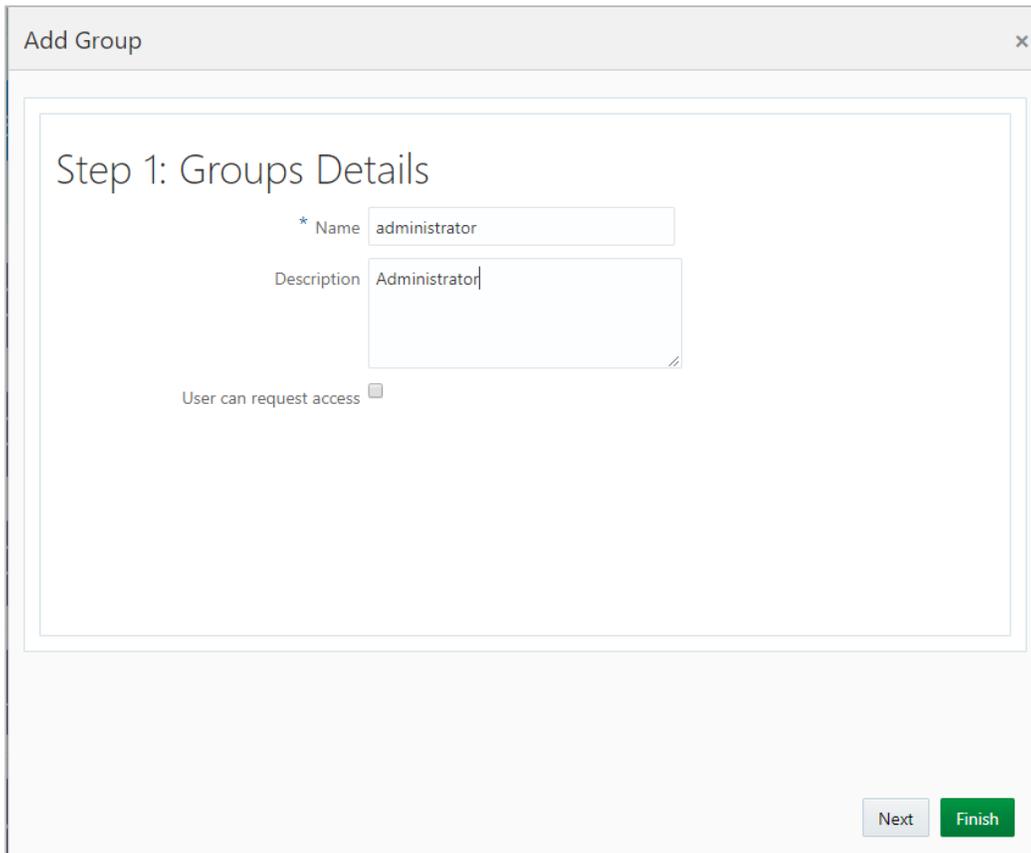
#### Glossary of Parameters:

<b>&lt;tenant-name&gt;</b>	Tenant name of your IDCS instance
<b>&lt;tenant-base-url&gt;</b>	Tenant base URL used to access your IDCS instance
<b>&lt;base-url&gt;</b>	Base URL used to access your IDCS instance without tenant name

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

The screenshot displays the Oracle Identity Cloud Service (IDCS) admin console interface. At the top, the header shows the ZigBank logo and 'Identity Cloud Service' with a user profile icon labeled 'AO'. Below the header, a green banner welcomes 'admin@oracle.com' and lists key actions: 'Watch the Video', 'Learn More', and 'What's New'. A section titled 'Here's what you can do:' lists several tasks such as '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'. Below this, a 'Filter by Date Range' dropdown is set to 'Last 30 Days'. The main dashboard features six summary cards: 'Users' (190 Total, 9 Created, 0 Removed), 'Applications' (50 Total, 8 Created, 0 Removed), 'Groups' (9 Total, 0 Created, 0 Removed) with an 'Add a group' button, 'Passwords' (27 Total), 'Logins' (219 Total), and 'All Reports' (5 Total).

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

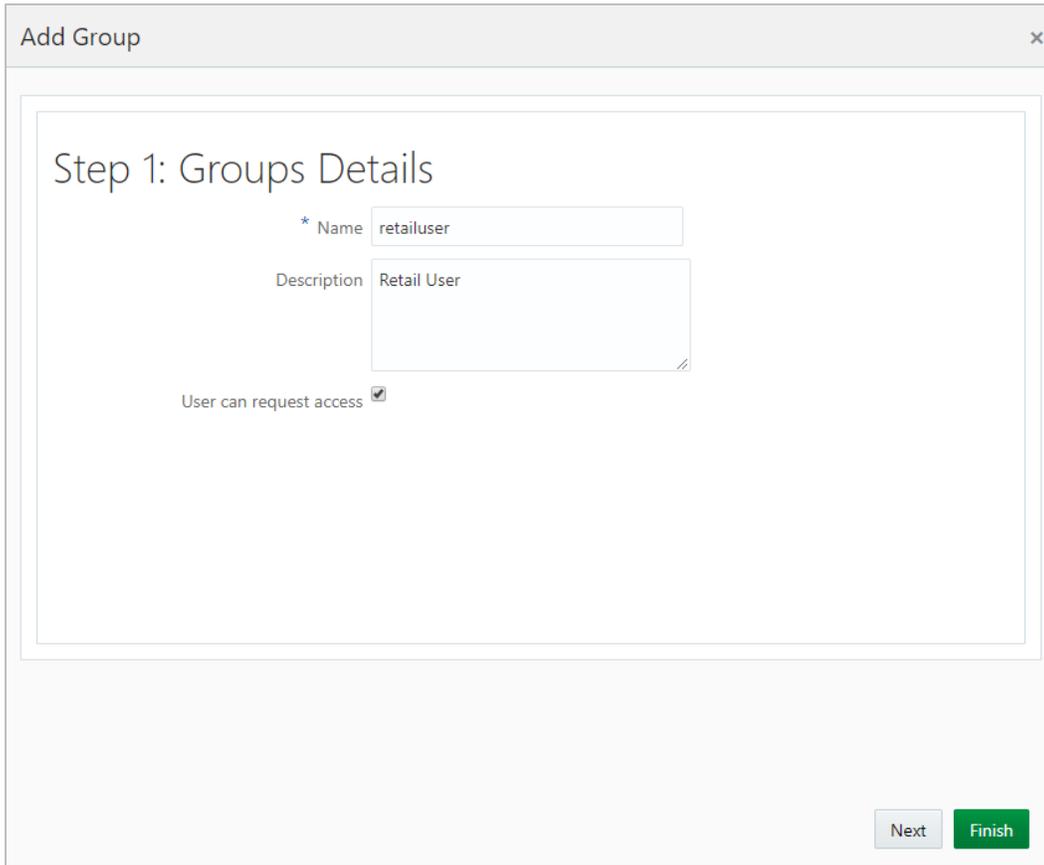


The screenshot shows a window titled "Add Group" with a close button (X) in the top right corner. Inside the window, the title "Step 1: Groups Details" is displayed. Below the title, there are two input fields: "Name" with the value "administrator" and "Description" with the value "Administrator". Below 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.



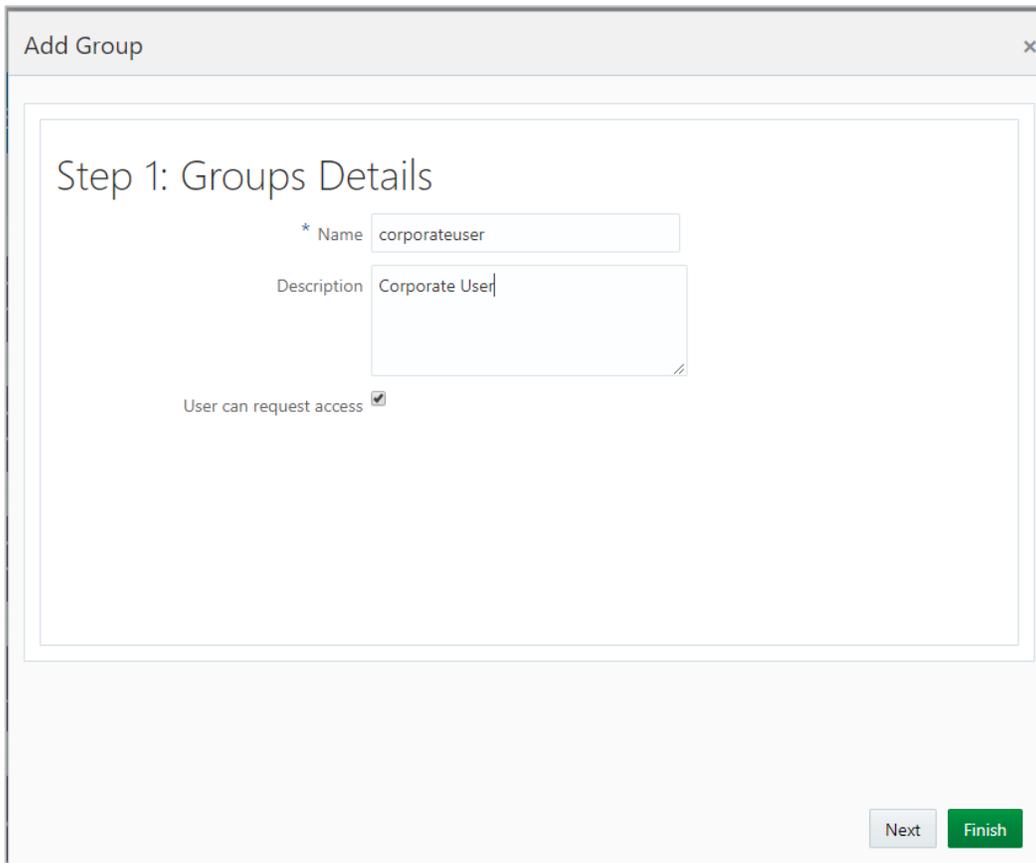
The screenshot shows a dialog box titled "Add Group" with a close button (X) in the top right corner. Inside the dialog, there is a section titled "Step 1: Groups Details". Below this title, there are three input fields: a text box for "Name" containing "retailuser", a text box for "Description" containing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

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 actions is also visible, 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 dropdown is set to 'Last 30 Days'. The main dashboard area consists of six tiles: '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); 'Logins' (218); and 'All Reports' (5).

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 > K [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.

[Home](#)

### 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:

<b>oracle-home-path</b>	Oracle Home path of Fusion Middleware Application (Weblogic/OHS)
<b>jre-path</b>	Location where jre is installed
<b>local-patch-path</b>	Location where relevant patch folder is stored locally. Eg. Location of 27644158 folder
<b>weblogic-domain-path</b>	Location where weblogic domain is installed
<b>jdk-path</b>	Location of JDK
<b>ohs-domain-path</b>	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
OPatch version   : 13.9.2.0.0
OUI version      : 13.9.2.0.0
Log file location: /home/devops/Oracle/Middleware/Oracle_Home/cfgtoollogs/opatch/opatch2018-10-12_08-03-04AM_1.log

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

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

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

## 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/opatch/opatch2018-10-12_08-03-04AM_1.log

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

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

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

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

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

## 6. Press 'y'

```
@obdwlsc/scratch/obdwlsc/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@obdwlsc 27644158]#
```

[Home](#)



## 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: 2764158
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 '2764158' 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 2764158 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 2764158]$ 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>
```

[Home](#)

---

## 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"/>`

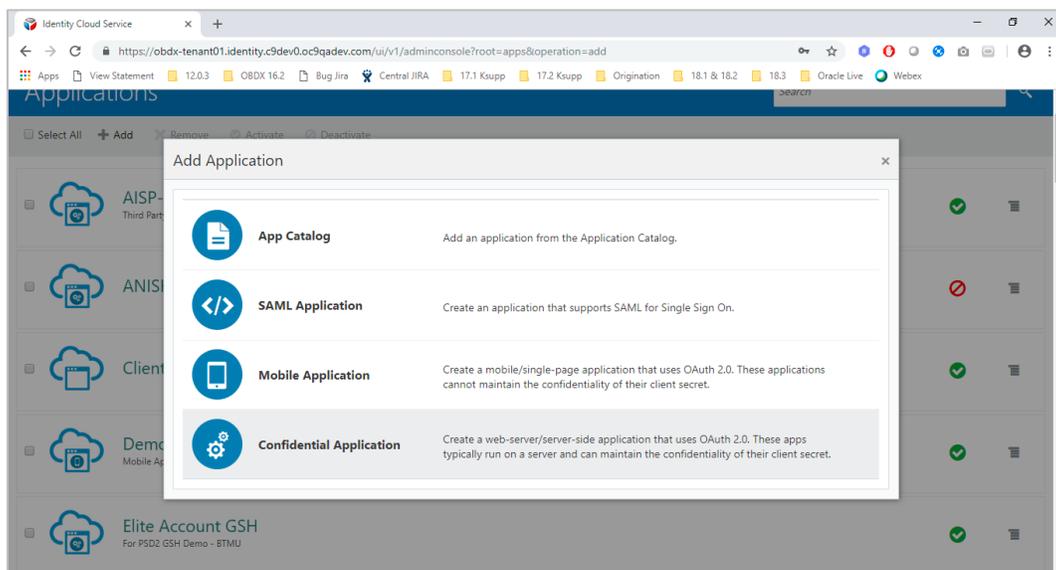
[Home](#)

## 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:

<b>Name</b>	Is the OBDX Client Application Name in IDCS. Give a suitable name.
<b>connection_scheme</b>	http or https
<b>webserver_host_name</b>	Host name of web server
<b>webserver_port</b>	Port of web server
<b>Application URL</b>	<a href="#">&lt;connection_scheme&gt;://&lt;webserver_host_name&gt;:&lt;webserver_port&gt;</a>
<b>Redirect URL</b>	<a href="#">&lt;Application URL&gt;/oauth/callback</a>
<b>Primary Audience</b>	<a href="#">&lt;Name&gt;</a>
<b>Secondary Audience</b>	<a href="#">&lt;Application URL&gt;</a>



## 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 blue 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 an 'Add Tag' button and a description: 'Add tags to your applications to organize and identify them. A tag consists of a key-value pair.'

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

- Display in My Apps:** (Unchecked)
- User can request access:** (Checked)

### 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, and the 'Redirect URL' is set to 'http://mum00afd.in.oracle.com:14777/'. The 'Import' button is highlighted.

The screenshot shows the 'Grant the client access to Identity Cloud Service Admin APIs' section. A '+ Add' button is visible. Below is a table with columns for 'App Roles' and 'Scope'. The 'Scope' column has two sub-columns: 'Protected' and 'Scope'. The table shows that for all listed app roles, the 'Protected' scope is 'No' and the 'Scope' is 'x'.

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**

## 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: OBDX1

Secondary Audiences:

Secondary Audience:

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

Scopes:  Add

#### Add Scope

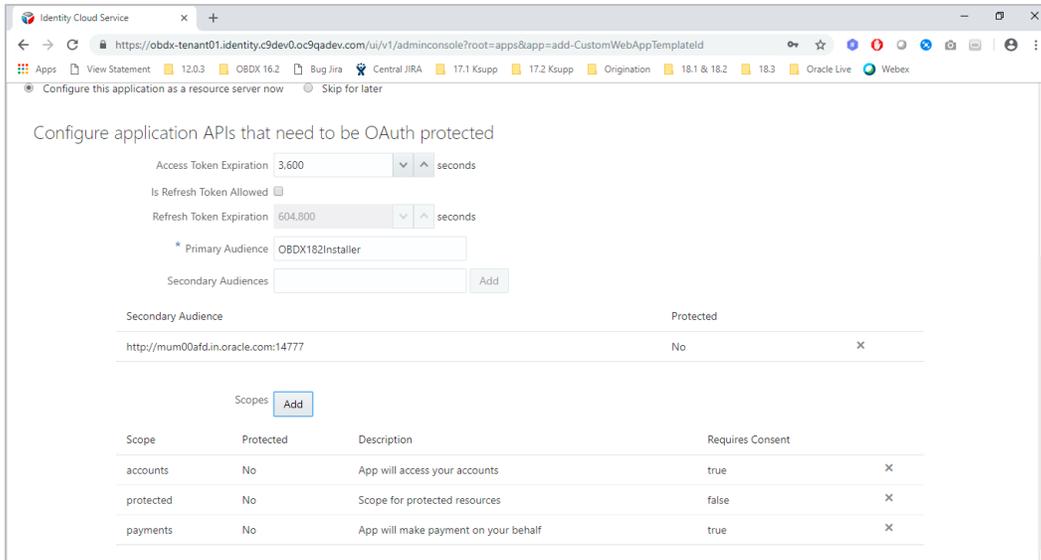
\* Scope: accounts

Description: App will access your accounts

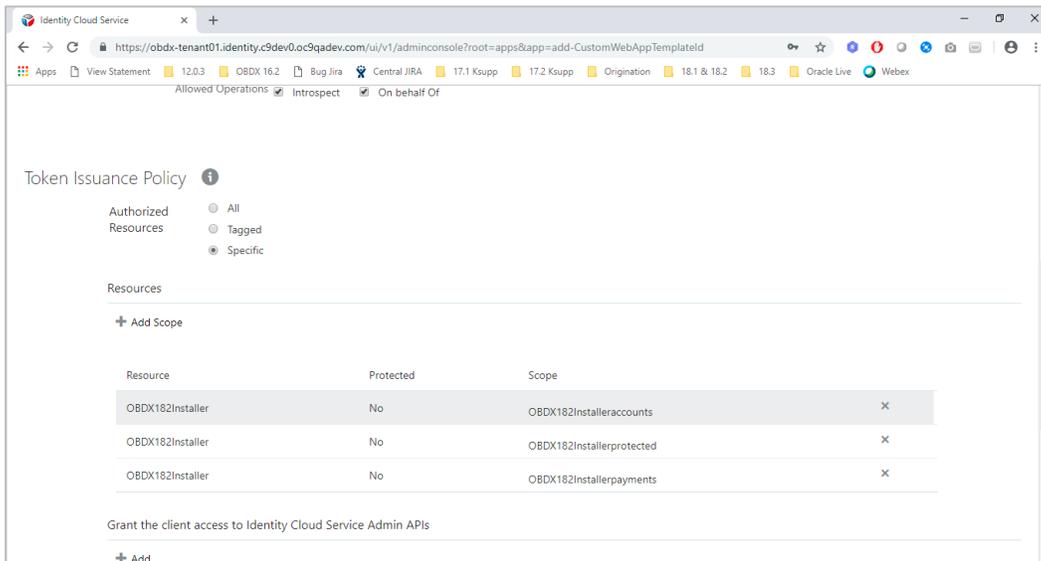
Requires Consent:

Add

Scope	Protected	Description	Requires Consent
No data to display.			



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



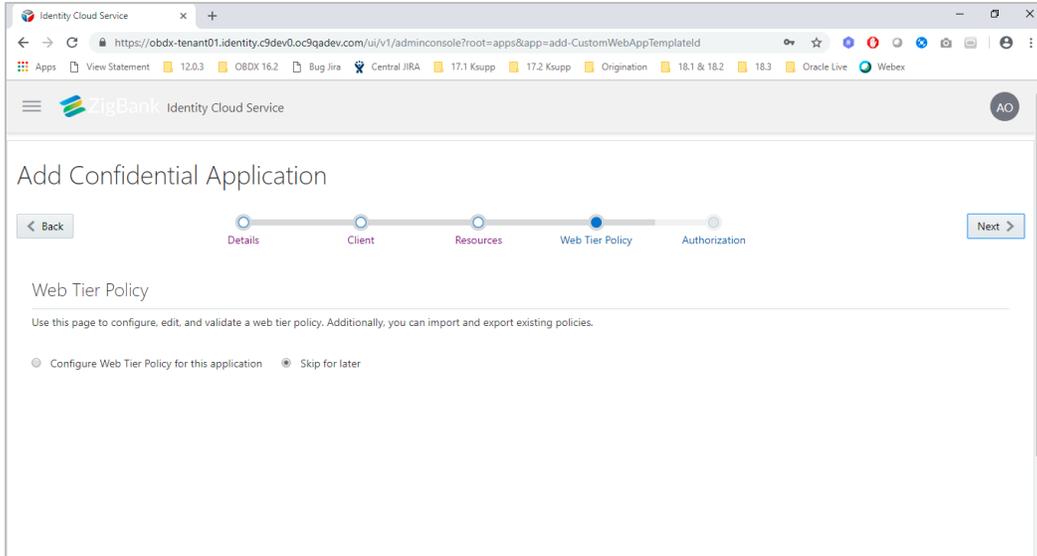
6. Note down the name of protected scope above.

<b>allowed_scope_name_of_protected_in_OBDX_Client_App</b>	Name of Protected scope. Eg. OBDX182Installerprotected
---	--

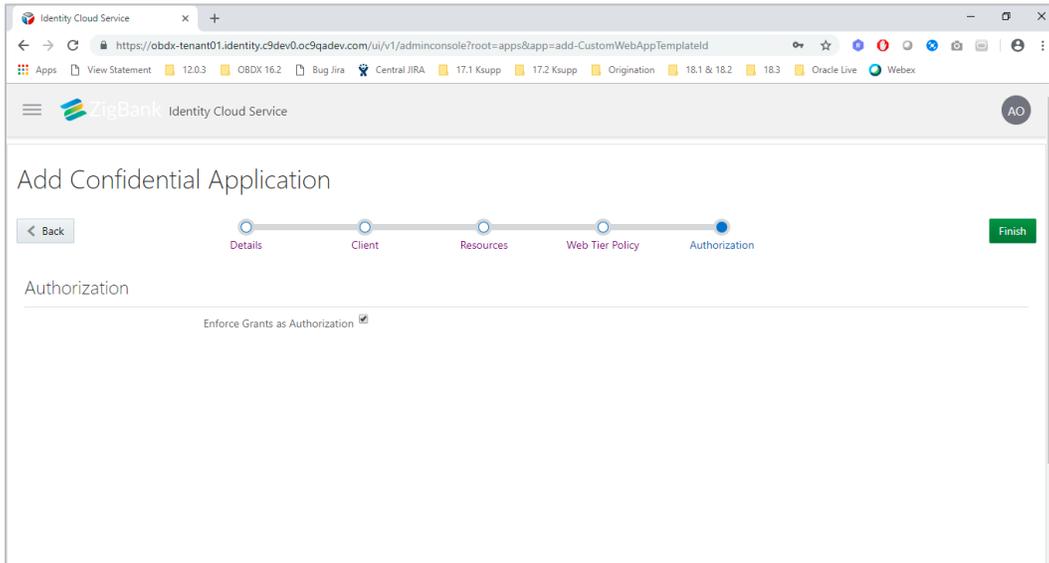
7. Next Go to **Web Tier Policy** tab.



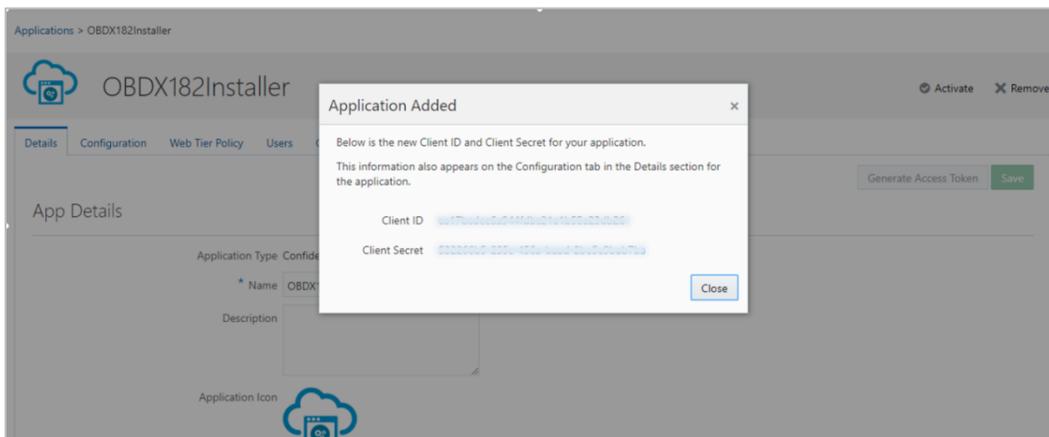
## Create an OBDX Client Application in IDCS Console



### 8. Click Next



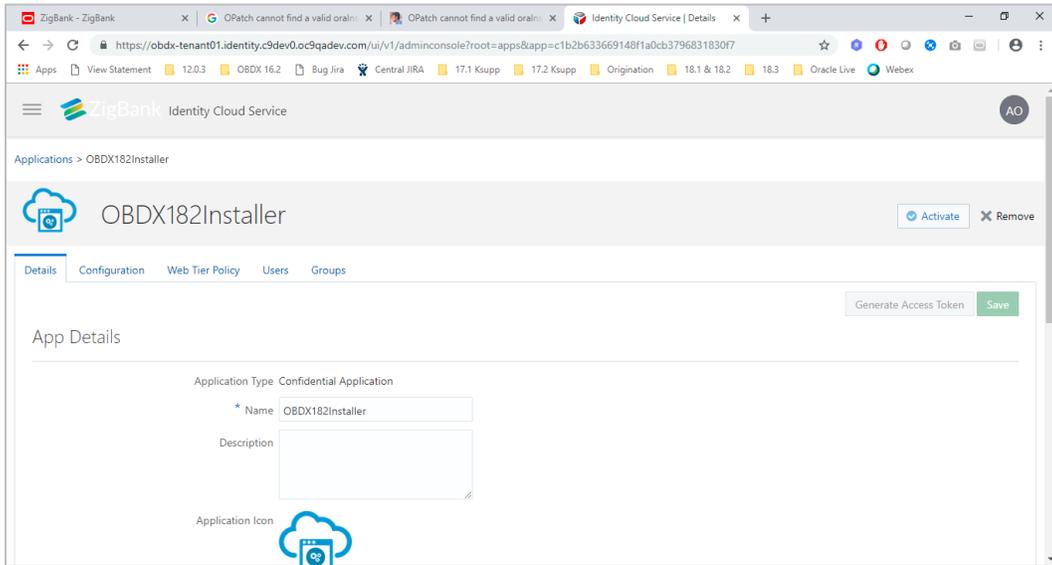
### 9. Click on Finish.



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

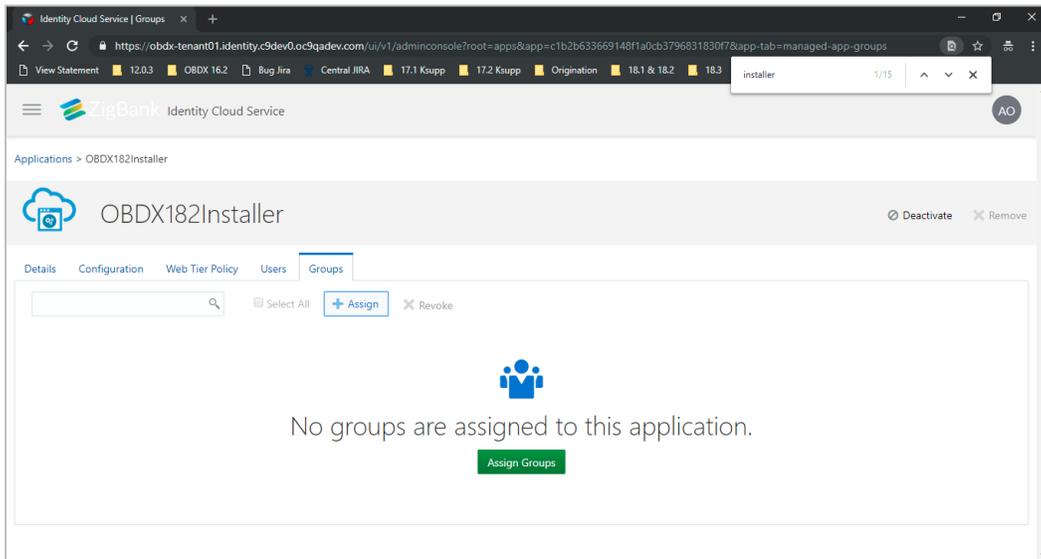
**Glossary of parameters:**

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



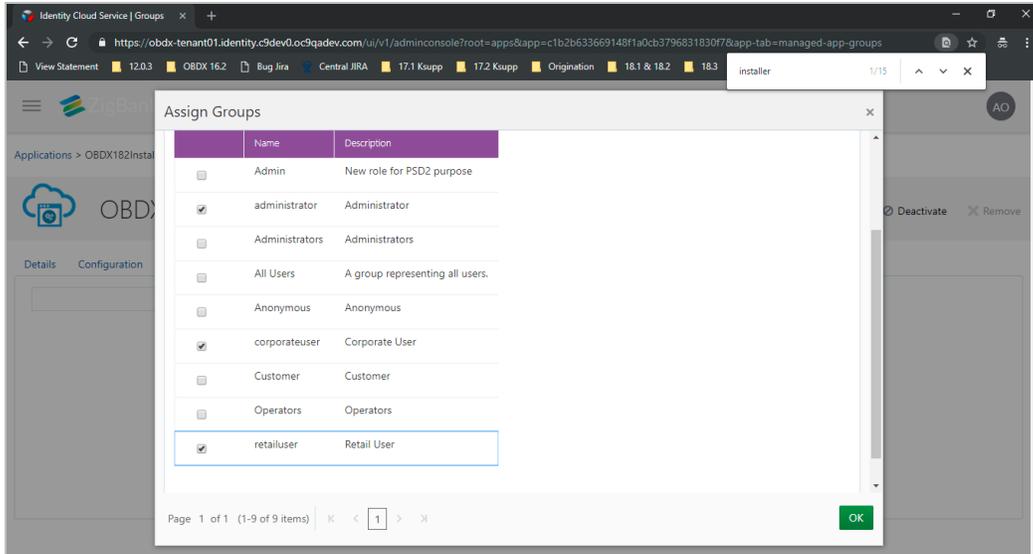
11. Click on **Activate** button.

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

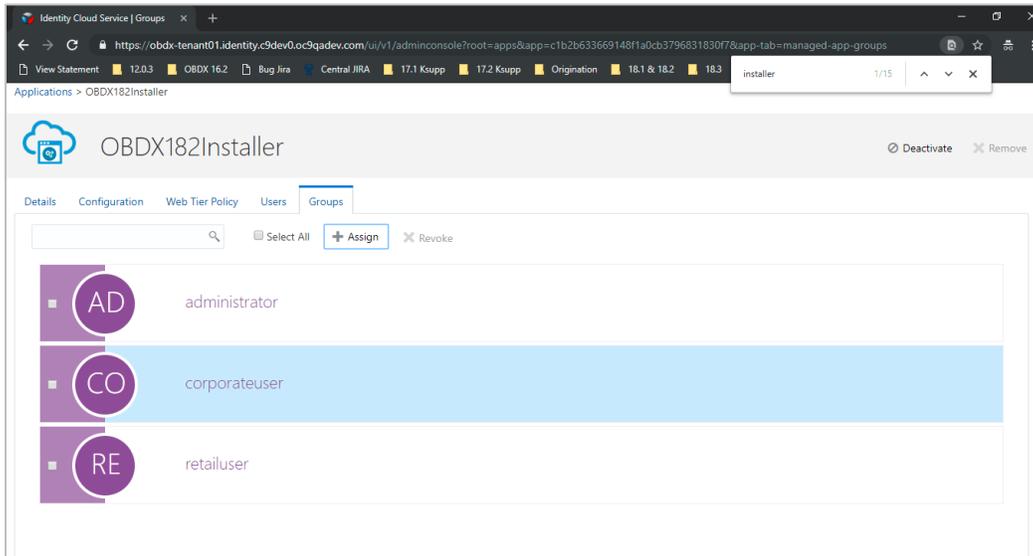


13. Click on **Assign**.

## Create an OBDX Client Application in IDCS Console



14. Click **Add**.



15. Above groups are added.

[Home](#)

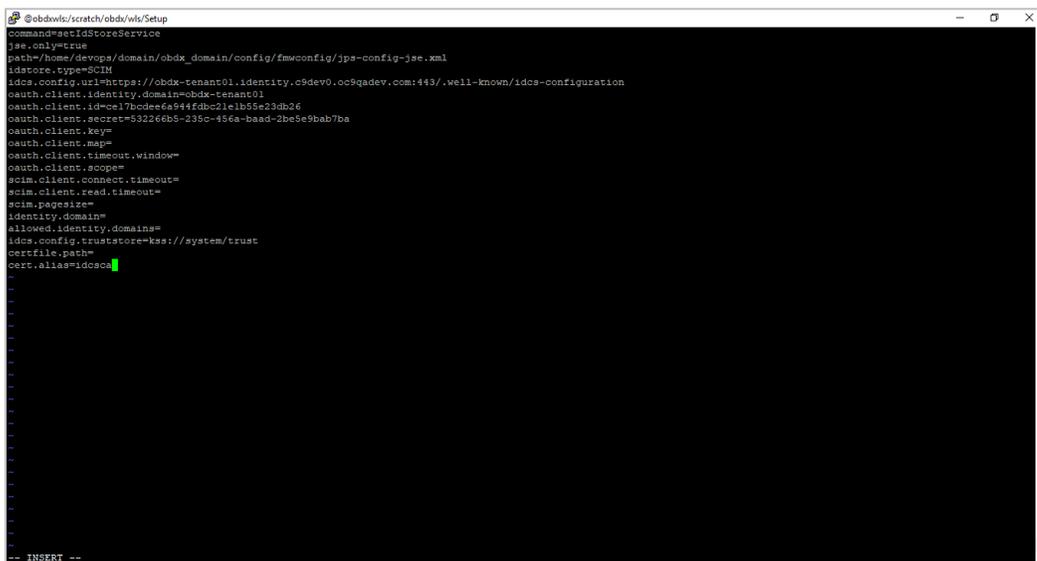
## 7. Configure OPSS IDCS Identity Store Service

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
```

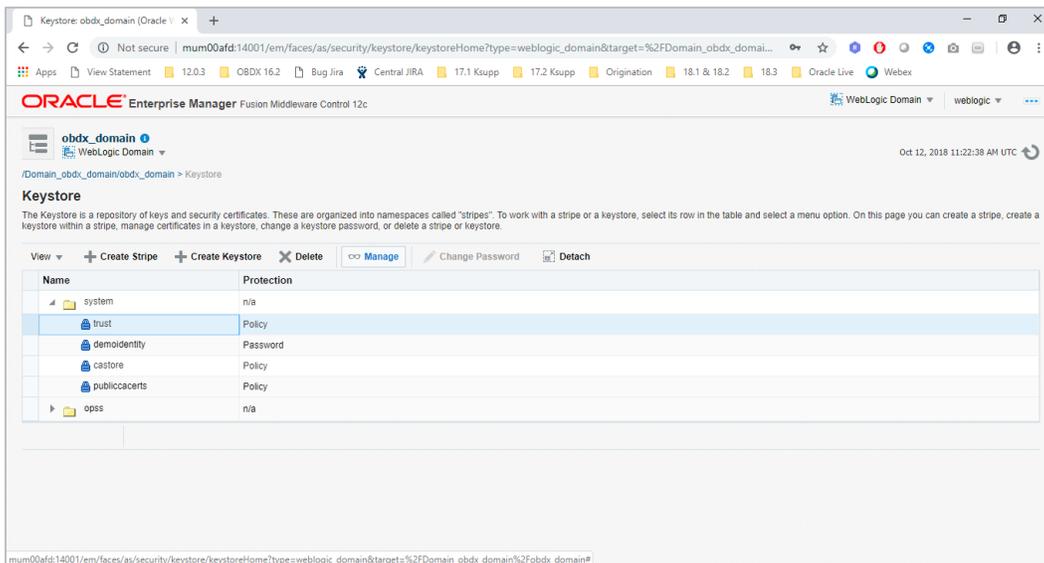
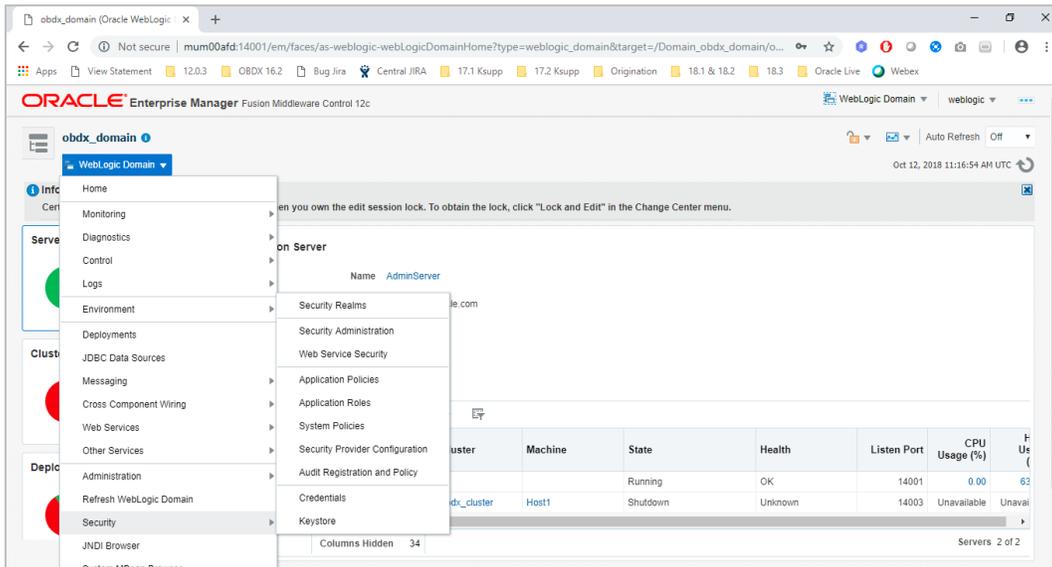


```
@ebdowls/scratch/obdx/wls/Setup
command=setIdStoreService
jse.only=true
path=/home/devops/domain/obdx_domain/config/fmwconfig/jps-config-jse.xml
idstore.type=SCIM
idcs.config.url=https://obdx-tenant01.identity.c9dev0.oc9qadev.com:443/.well-known/idcs-configuration
oauth.client.identity.domain=obdx-tenant01
oauth.client.id=ca17fcd6e6a544fd8c21e135e23db2f
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=kas://system/trust
certfile.path=
cert.alias=idcsca
-- INSERT --
```

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



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 c5 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	0x15c82bdfed03...	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

### 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 c5 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	0x15c82bdfed03...	f8 5d 49 a4 12 54 78 c7 b6 42 a7 14 3e 6 15 1e a0 d4 ...	October 25, 2022

#### 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:  Choose File containing a valid certificate

Choose File | idccca.cer

OK Cancel

# Configure OPSS IDCS Identity Store Service

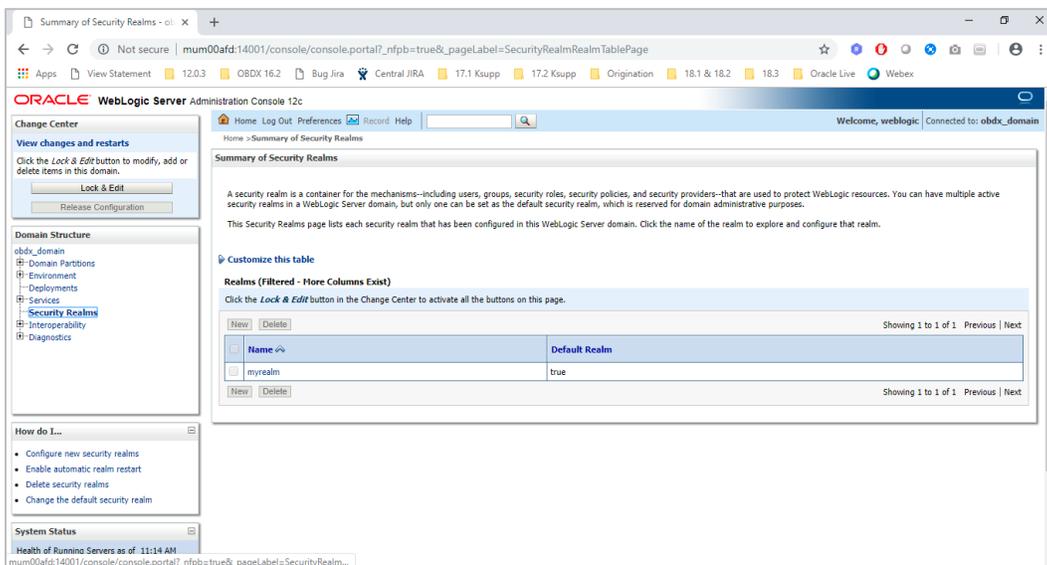
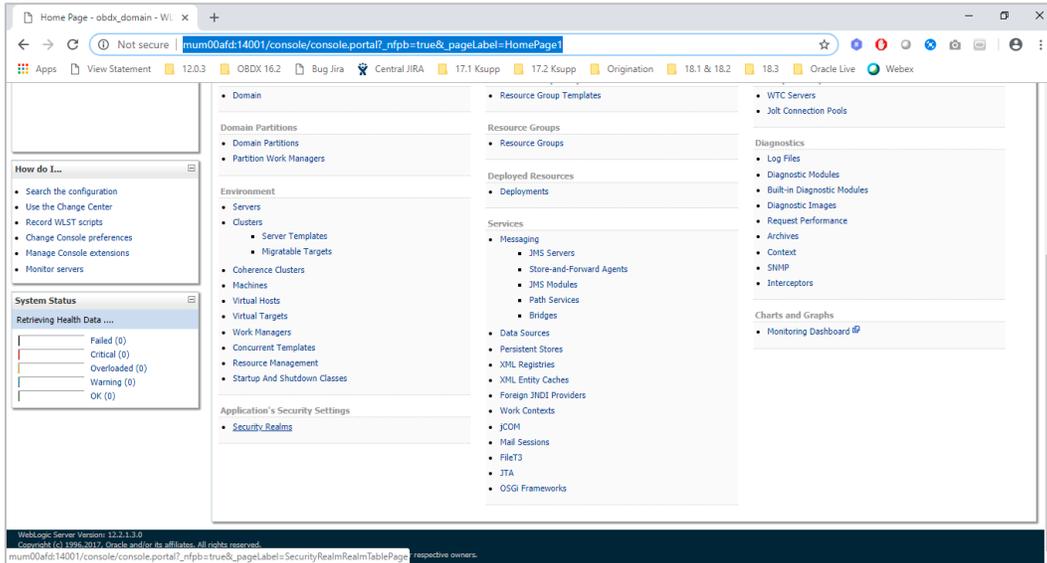
The screenshot shows the Oracle Enterprise Manager console interface. At the top, there's a navigation bar with the Oracle logo and 'Enterprise Manager Fusion Middleware Control 12c'. Below that, the breadcrumb path is 'obdx\_domain > WebLogic Domain > Manage Certificates'. A yellow information banner at the top states 'Trusted Certificate imported successfully'. Below this, the page title is 'Manage Certificates: system/trust'. A descriptive paragraph explains the process of generating key pairs, CSR, and importing certificates. A toolbar contains buttons for 'View', 'Generate Keypair', 'Generate CSR', 'Import', 'Export', 'Delete', 'Change Password', and 'Detach'. The main content is a table with the following data:

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	0xf5c82b9fe903...	f8 5d 49 a4 12 54 78 c7 ba 42 a7 14 3e 6 1e a0 d4 ...	October 25, 2022
idcsca	CN=idcsca,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. Under 'Providers', the 'Authentication' tab is active. A table titled 'Authentication Providers' is displayed, showing the following data:

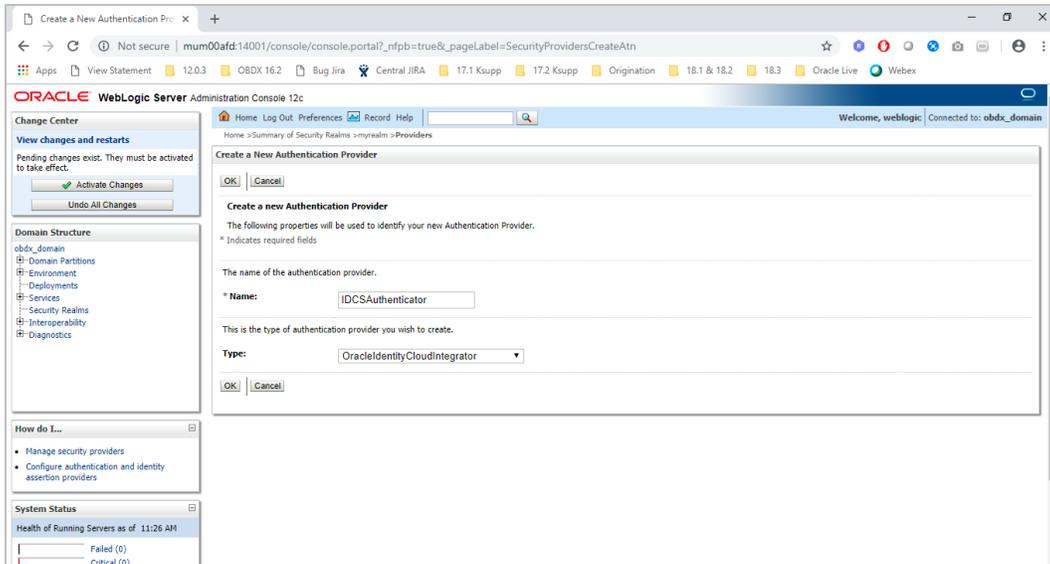
Name	Description	Version
<input checked="" type="checkbox"/> DBAuthenticator	OBDX - DB Authenticator	18.2.0.2.0,344
<input checked="" type="checkbox"/> SQLAuth	Provider that performs DBMS authentication	1.0
<input type="checkbox"/> OBDXJWT	OBDX Identity Assertion Provider (JWT and OAuth)	18.2.0.2.0,344
<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' confirmation dialog in the Oracle WebLogic Server Administration Console. The dialog asks, 'Are you sure you want to delete the following items?' and lists the following items:

- DBAuthenticator
- SQLAuth

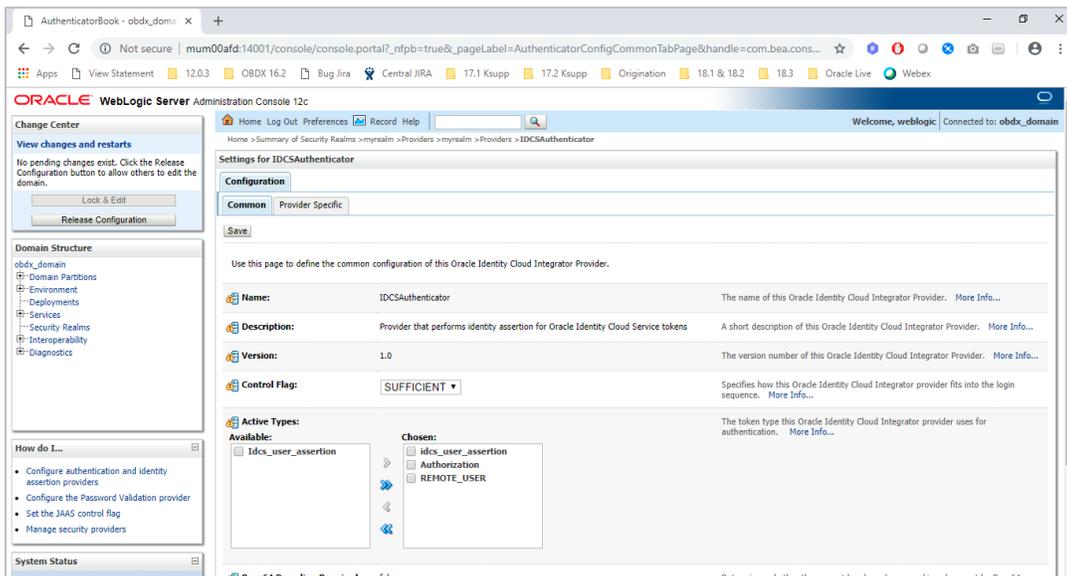
5. Delete *DBAuthenticator* and *SQLAuth* from the list of Authenticator Providers.
6. Create a New Provider.
  - Name : *IDCSAuthenticator*
  - Type : *OracleIdentityCloudIntegrator*

## 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>](#)

The screenshot displays the 'Settings for IDCSAuthenticator' configuration page. The 'Provider Specific' tab is active, showing the following configuration details:

- Host:** identity.c9dev0.oc9qadev.co
- Port:** 443
- SSLEnabled:**
- Tenant:** obdx-tenant01
- Client Id:** ce17bcd6e6a944fdb21e1bf
- Client Secret:** [Redacted]
- Confirm Client Secret:** [Redacted]
- Client Tenant:** obdx-tenant01

The 'Caching' section is also visible, with **Cache Enabled** checked. The left sidebar shows the 'Domain Structure' and 'System Status' panels.

## Adding IDCS as an Identity Provider in Weblogic Security Realms

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 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 Server. 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 "Customize this table" link and a "Lock & Edit" button. Below this is a table listing the configured authentication providers:

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

At the bottom of the table, there are "New", "Delete", and "Reorder" buttons, and a pagination indicator "Showing 1 to 4 of 4 Previous | Next".

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 a "Domain Structure" tree showing the hierarchy: obdx\_domain > Environment > Security Realms > myrealm. At the bottom left, there is a "How do I..." section with links to configuration guides.

[Home](#)

## 9. Application Server Changes

### 9.1 Add below argument to Managed server:

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

The screenshot shows 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 command:

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

The 'Class Path' field contains the following path:

```
/scratch/obdx/wls/config:
```

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

## 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 breadcrumb navigation path is: Home > Summary of Servers > Summary of Deployments > com.oracle.digi.connector.ra > Roles > Summary of Servers > OBDX\_MSI > Summary of Clusters > obdx\_cluster. The 'Configuration' tab is active, and the 'General' sub-tab is selected. The 'Advanced' section is expanded, showing the 'WebLogic Plug-In Enabled' checkbox checked and set to 'yes'. Other visible settings include 'Default Load Algorithm' set to 'round-robin' and 'Number of Servers in Cluster Address' set to '3'. The left sidebar shows the 'Domain Structure' tree with 'obdx\_domain' expanded to 'Clusters' > 'obdx\_cluster'. The 'System Status' section at the bottom left shows '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.ofss.digx.connector.rar > Security > Outbound Credential Mappings

Name	Status	Version	Library	AdminServer	Global	Port
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-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.ofss.digx.app.connector	New		Enterprise Application	obdx_cluster	Global	100
Modules						
com.ofss.digx.connector.rar			Resource Adapter			
EBBs						
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.ofss.digx.connector.rar

Overview Configuration Security Control Testing Monitoring

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

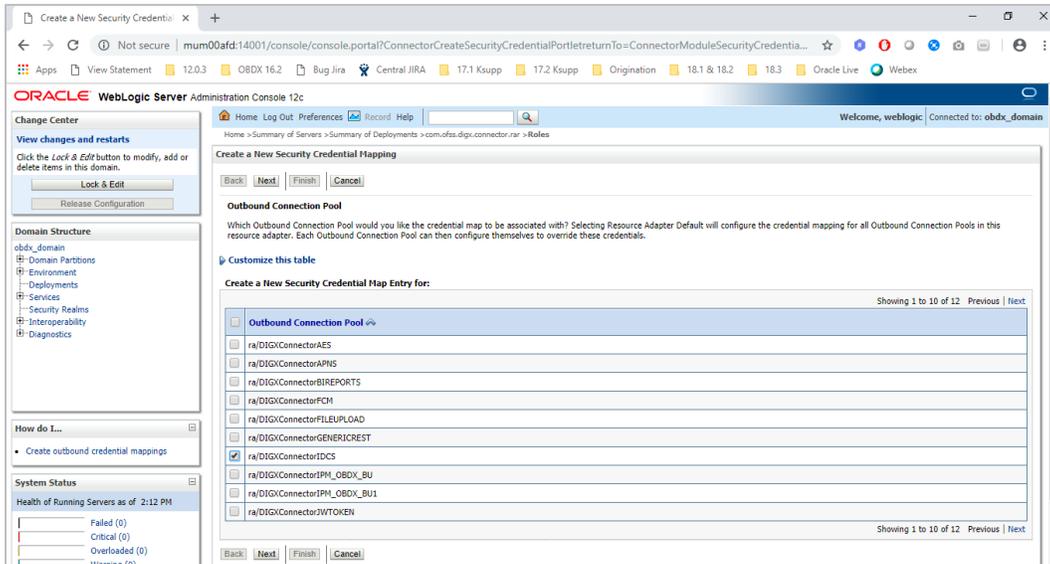
Outbound credential mappings let you map WebLogic Server usernames to usernames in the Enterprise Information System (EIS) to which you want to connect using a resource adapter. You can use default outbound credential mappings for all outbound connection pools in the resource adapter, or specify particular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

Customize this table

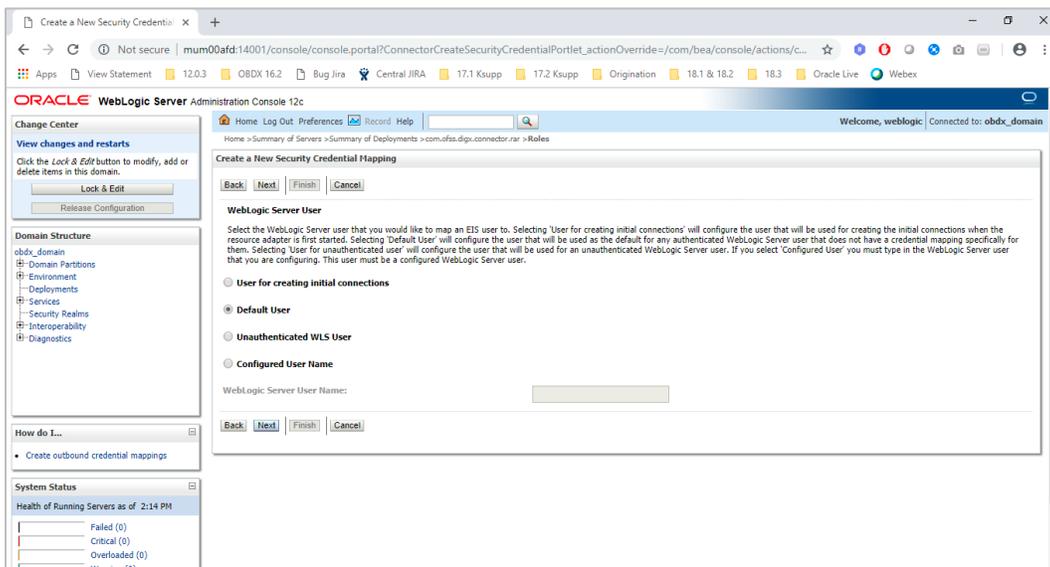
Outbound Credential Mappings

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

3. Click New



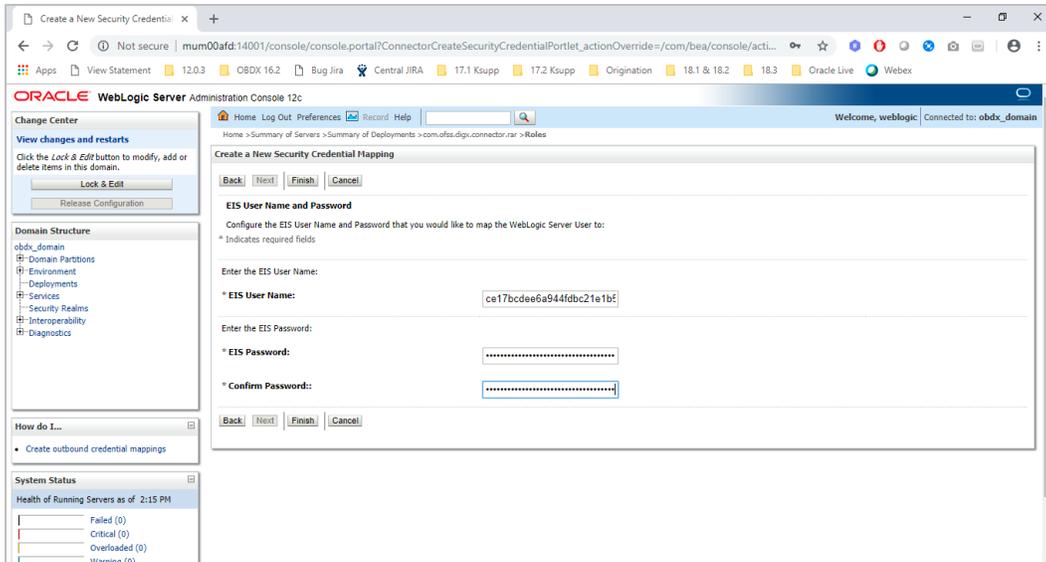
#### 4. Click Next



#### 5. Click Next

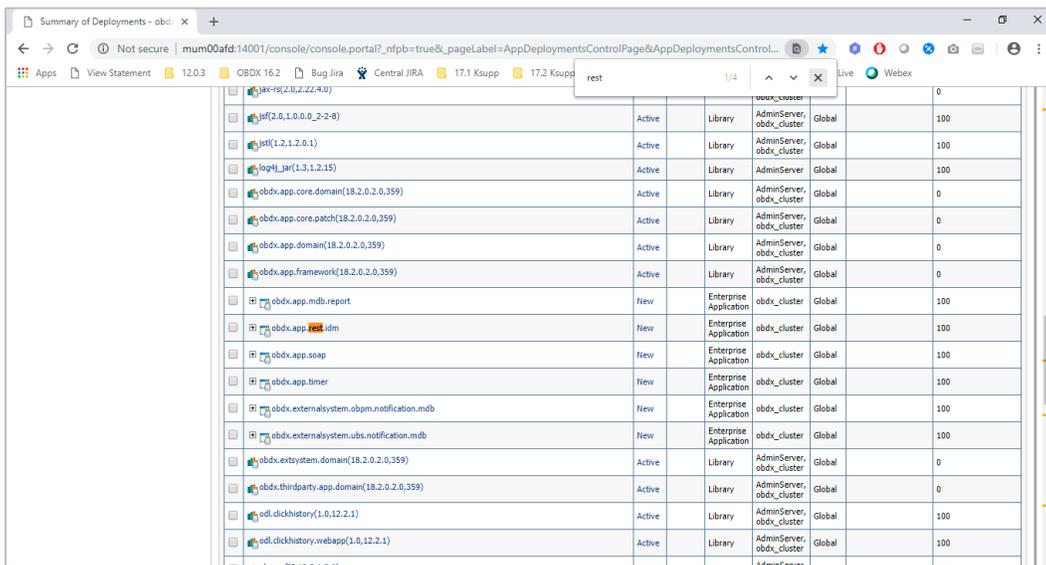
#### 6. Create a new Security Credential Mapping –

- 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>](#)

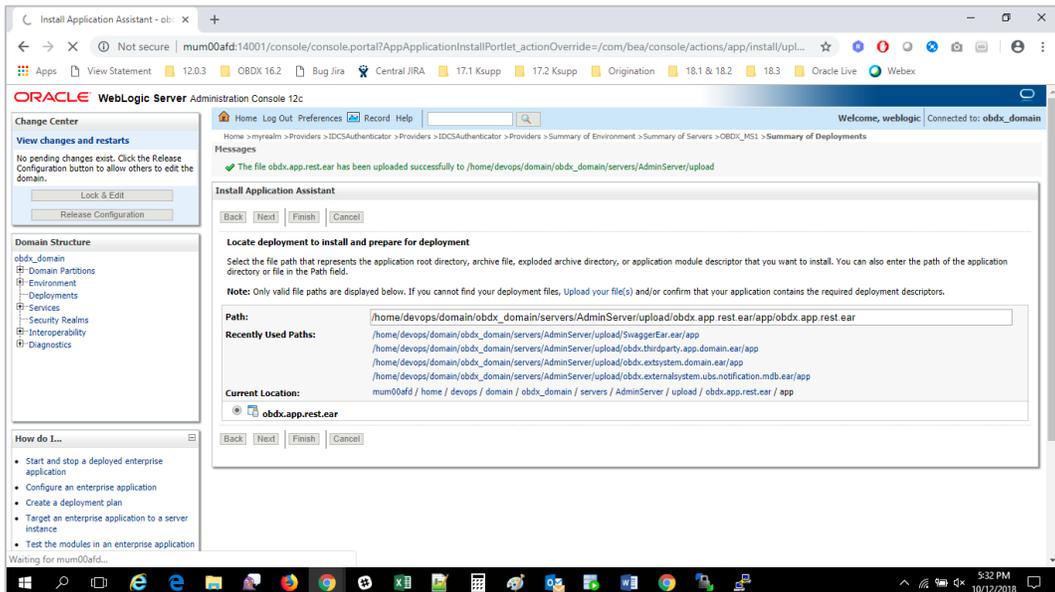
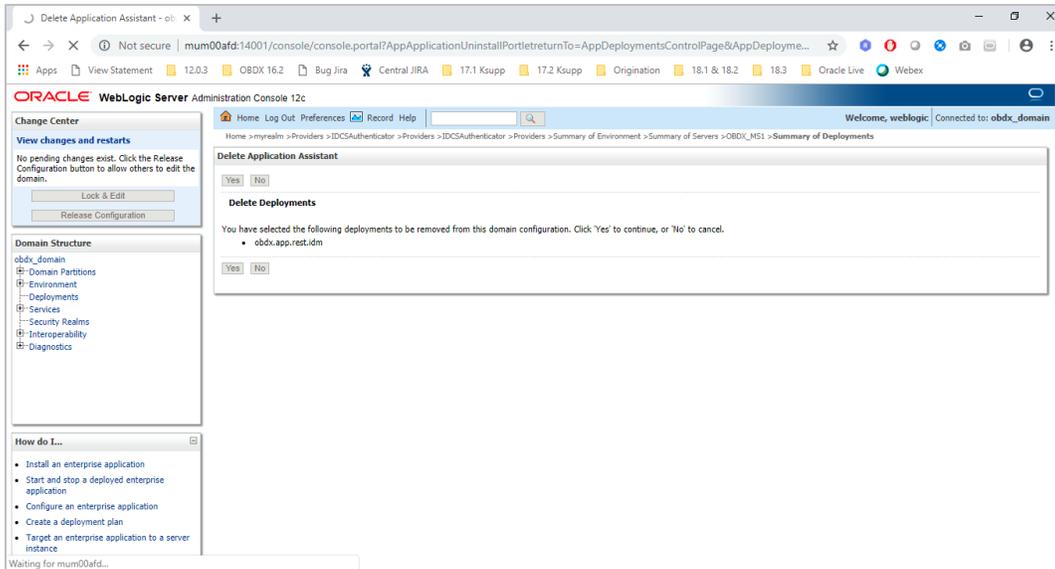


7. Click Finish

- 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



[Home](#)

## 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 displays the 'Add Confidential Application' wizard in the Identity Cloud Service console. The wizard is currently on the 'App Details' step, which is highlighted in the progress bar. The 'Name' field is populated with 'OBDX182InstallerMOBAPP', and a tooltip提示 'Enter 125 or fewer characters'. The 'Description' field is empty. The 'Application Icon' field shows a default icon and an 'Upload' button. The 'Application URL' field is empty. The breadcrumb navigation shows 'Details', 'Client', 'Resources', 'Web Tier Policy', and 'Authorization'. The 'Next >' button is visible at the end of the progress bar.

# 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 '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' option is selected. Under the 'Authorization' section, the following settings are visible:

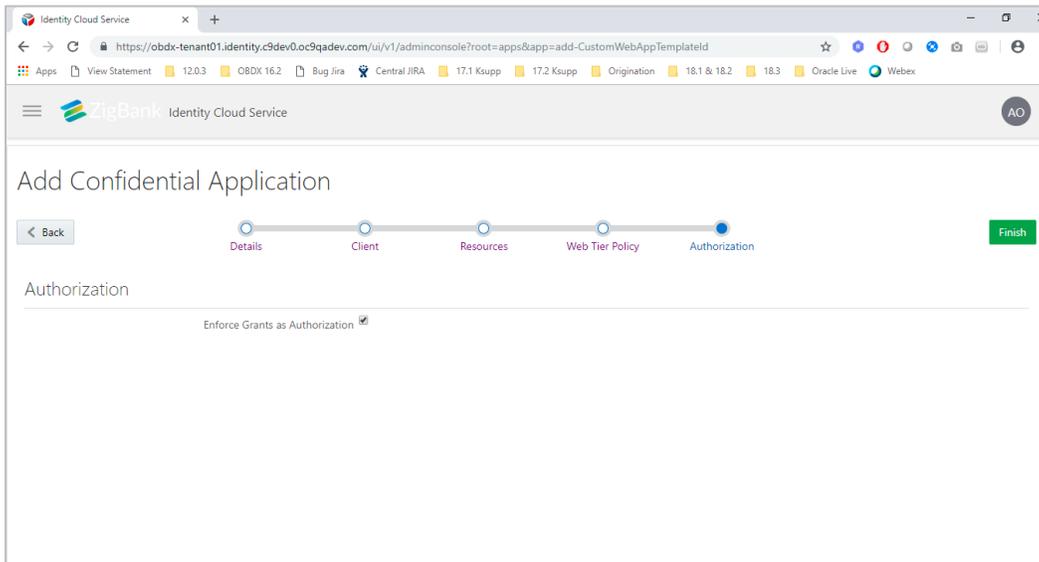
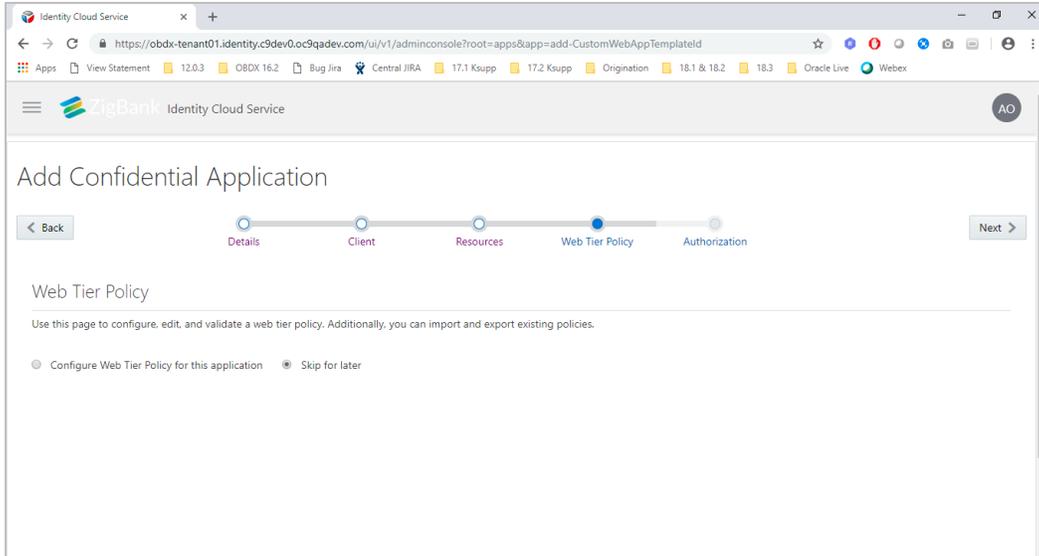
- Allowed Grant Types:  Resource Owner,  Client Credentials,  JWT Assertion,  SAML2 Assertion,  Refresh Token,  Authorization Code
- Implicit:  Device Code:
- Allow non-HTTPS URLs:
- Redirect URL:
- Logout URL:
- Post Logout Redirect URL:
- Security:  Trusted Client,  Certificate,
- Allowed Operations:  Introspect,  On behalf Of

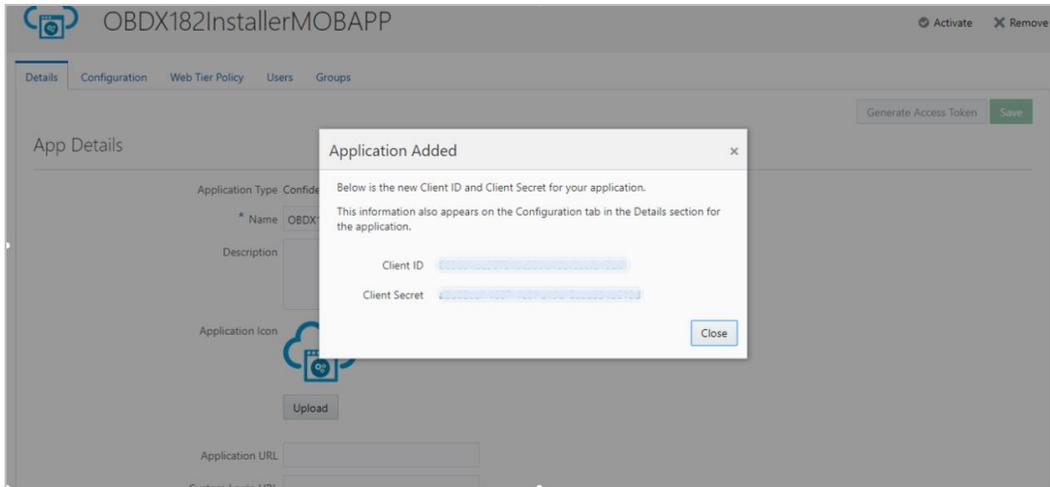
The screenshot shows the 'Add Confidential Application' wizard in the Identity Cloud Service console, now at the 'Expose APIs to Other Applications' step. The progress bar shows: Details, Client, Resources, Web Tier Policy, and Authorization. The 'Configure this application as a resource server now' option is selected. The section is titled 'Configure application APIs that need to be OAuth protected' and contains the following settings:

- Access Token Expiration: 3,600 seconds
- Is Refresh Token Allowed:
- Refresh Token Expiration: 604,800 seconds
- Primary Audience: OBDX182InstallerMOBAPP
- Secondary Audiences:
- Secondary Audience:  Protected

At the bottom, it states 'No data to display.'

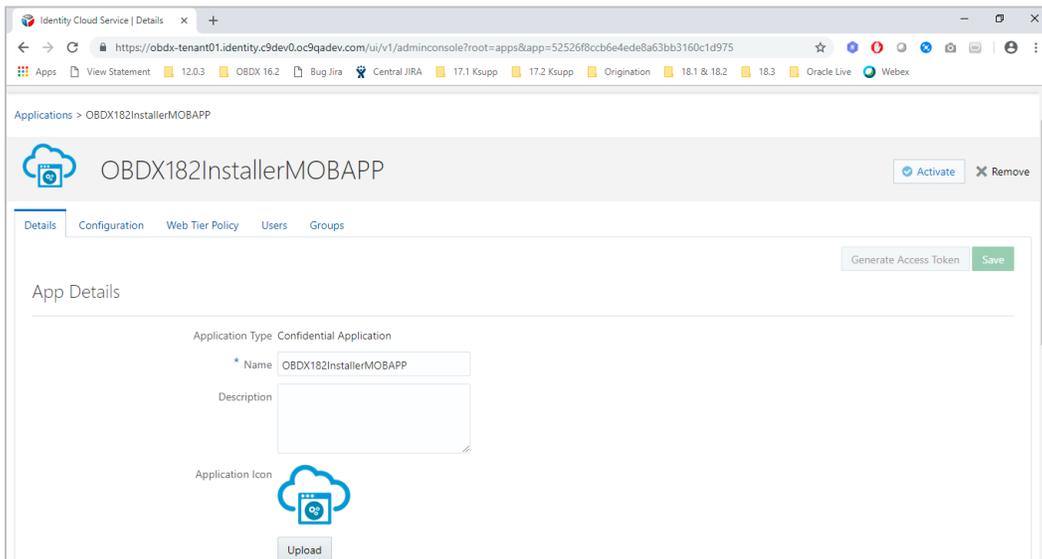
## Create Client Applications for Internal OBDX Apps in IDCS Console





**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';
```

[Home](#)

---

## 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](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)

[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
```

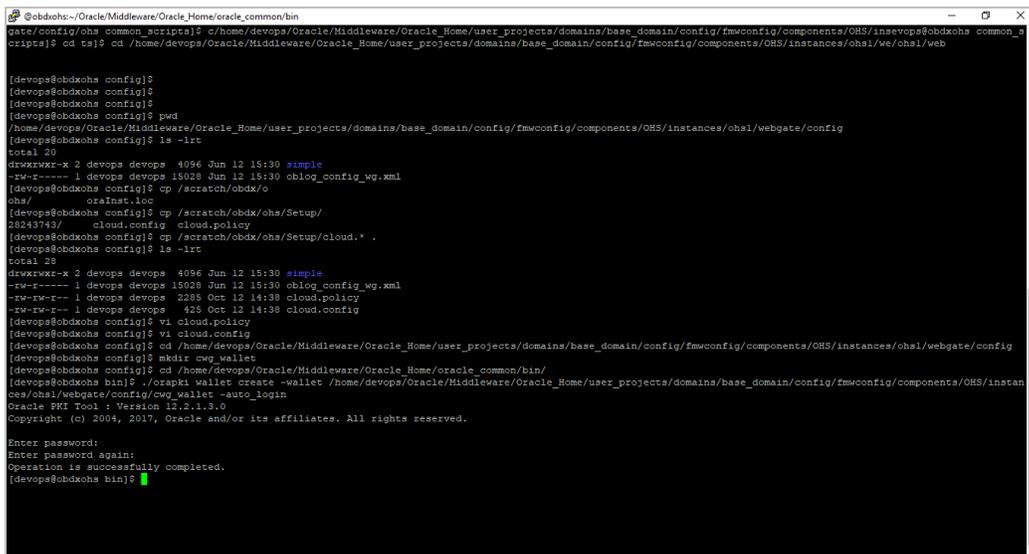
```
[devops@obdxohs ~]$ cd <oracle-home-path>/oracle_common/bin/
```

```
[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
Copyright (c) 2004, 2017, Oracle and/or its affiliates. All rights reserved.

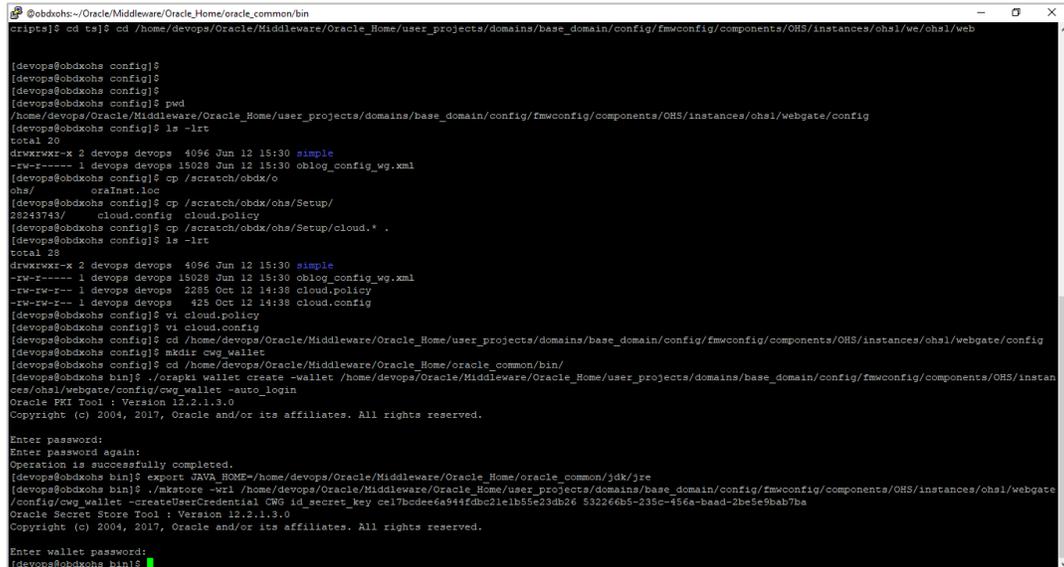
Enter password:
Enter password again:
Operation is successfully completed.
[devops@obdxohs bin]$
```

```
[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/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 ce17b0dee6e944fdbc21e1b59e23db26 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#3#enc_key
CWG#3#id_secret_key
Trusted Certificates:
[root@obdxohs bin]#

```

[Home](#)

---

## 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"
```

[Home](#)

---

## 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>
```

[Home](#)

---

## 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.

[Home](#)