# Oracle® Banking APIs Single Sign-on Configuration-SAML





Oracle Banking APIs Single Sign-on Configuration-SAML, Release 25.1.0.0.0

G28246-01

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## **Preface**

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# Purpose

This guide is designed to help acquaint you with the Oracle Banking Digital Experience application. This guide provides answers to specific features and procedures that the user need to be aware of the module to function successfully.

## **Audience**

This document is intended for the following audience:

- Customers
- Partners

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#### Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

## Related Resources

For more information on any related features, refer to the following documents:

Oracle Banking APIs Installation Manuals

#### Screenshot Disclaimer

Personal information used in the interface or documents is dummy and does not exist in the real world. It is only for reference purposes.

## Acronyms and Abbreviations

The list of the acronyms and abbreviations used in this guide are as follows:



Table 1 Acronyms and Abbreviations

Abbreviation	Description
OBAPI	Oracle Banking APIs



1

# Introduction

This document covers step-by-step details on configuration required at IDCS side (Application and User) and WebLogic console configurations for SAML and SQL Authentication Providers. Document also includes the configuration required on OHS to enable different URL's for internal and external user login.



# Configuration

To enable SAML authentication it involves configuration at WebLogic server (console) and IDCS console.

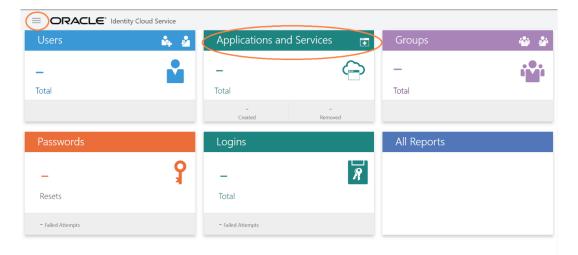
- Identity Provider Configuration at IDCS
- SAML Authentication Provider configuration
- SQL Authentication Provider configuration
- OHS Configuration
- Database Configuration
- · IDCS OAuth Integration
- WebLogic configuration for OAuth
- OBAPI configuration for OAuth
- Default Admin Configuration
- Logout Configurations

# 2.1 Identity Provider Configuration at IDCS

Steps to configure Identity Provide at IDCS

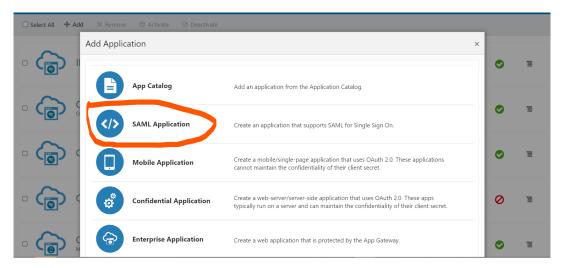
 Login to Oracle Identity Cloud Service (IDCS) console with admin login. In dashboard click on Add Application in Application and Services widget or navigate through the breadcrumb menu as highlighted in screenshot.

Figure 2-1 Dashboard



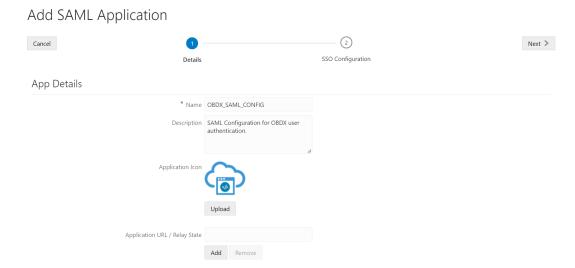
2. In popup window select **SAML** Application.

Figure 2-2 Add Application



- 3. In Add SAML Application page provide below mentioned fields and click on Next.
  - a. Name
  - b. Description

Figure 2-3 Add SAML Application

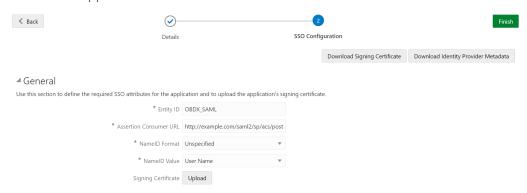


- 4. Fill below mentioned fields as per section.
  - a. General
    - i. Entity Id A unique identifier / name for the service provider.
    - ii. Assertion Consumer URL End point to which assertion will be sent by IDCS. Recommended URL format <OHS\_URL>/saml2/sp/acs/pos
      - e.g. <PROTOCOL>://<OHS\_HOST>:<OHS\_PORT>/saml2/sp/acs/post
        http://whf000xxx.bank.com:9999/saml2/sp/acs/post
    - iii. NameID Format- Select value as "Unspecified".
    - iv. NameID Value- Select value as "User Name".



Figure 2-4 Add SAML Application

Add SAML Application



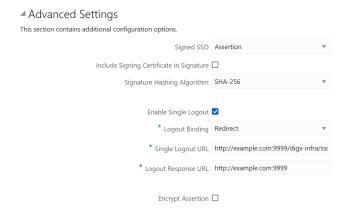
- b. Advance Settings
  - i. Signed SSO:- Select value as "Assertion"
  - ii. Enable Single Logout: This field should be checked.
  - iii. Logout Binding: Select value as "Redirect".
  - iv. Single Logout URL: End point which IDCS will make call to do single logout functionality.

Recommended URL format <OHS\_URL>/digx-infra/sso-logout

e.g. <PROTOCOL>://<OHS\_HOST>:<OHS\_PORT>/digx-infra/sso-logout
http://whf000xxx.bank.com:9999/digx-infra/sso-logout

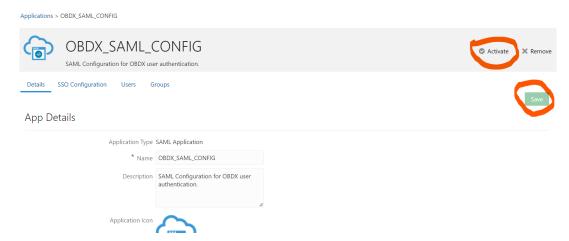
v. Logout Response URL: -Recommended URL format <OHS\_URL>/digx-infra/sso-logout e.g. <PROTOCOL>://<OHS\_HOST>:<OHS\_PORT>/digx-infra/sso-logout http://whf000xxx.bank.com:9999/digx-infra/sso-logout

Figure 2-5 Add SAML Application



- 5. Click on Finish / Save.
- 6. Click on **Activate** button to activate your application.

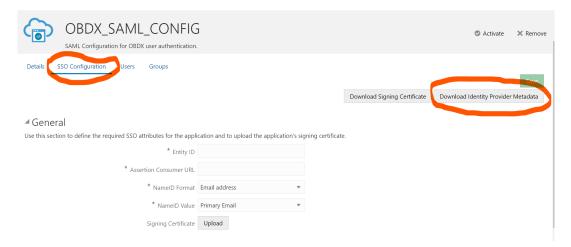
Figure 2-6 Edit Application



- Navigate to Dashboard and search the application you have created.
- 8. Navigate to SSO Configuration tab and click on "Download Identity Provider Metadata".

Keep the downloaded xml file, it will be required to upload in WebLogic console. Same is explain in WebLogic console configuration steps.

Figure 2-7 Edit Application



- Copy / FTP the downloaded IDC metadata xml file to WebLogic server using winscp / putty.
- **10.** Navigate to **Users** tab in application to add the users related to application.
- 11. Click on Assign Users or Assign (+) button to search and add the users into application. If user is not available follow steps mentioned in Section 1.3 to create new user.



Figure 2-8 Edit Application

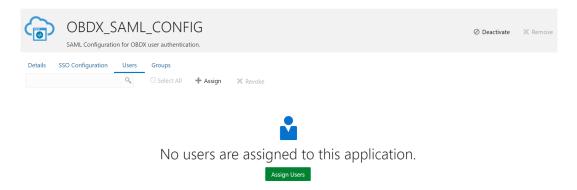
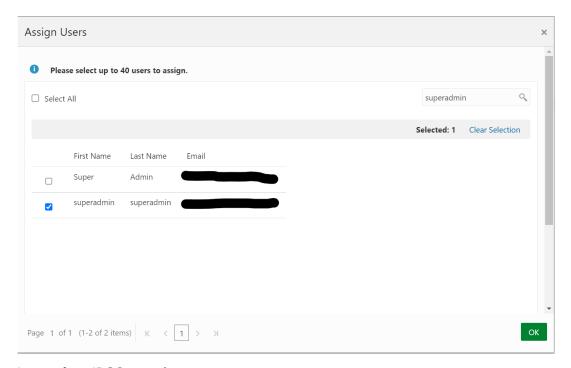


Figure 2-9 Assign Users



12. Logout from IDSC console.

# 2.2 SAML Authentication Provider configuration

Steps to configure SAML Authentication Providers changes into WebLogic console.

1. Login to WebLogic console with admin login and navigate to "Security Realms".

Figure 2-10 Security Realms



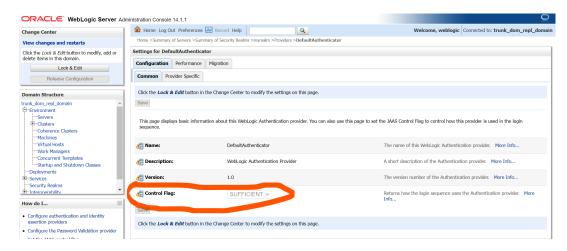
Click on myrealm or your realm name present in screen. Navigate to "Providers" tab.

Figure 2-11 Providers



3. Select "DefaultAuthenticator" and change the Control Flag value to "SUFFICIENT".

Figure 2-12 Default Authenticator



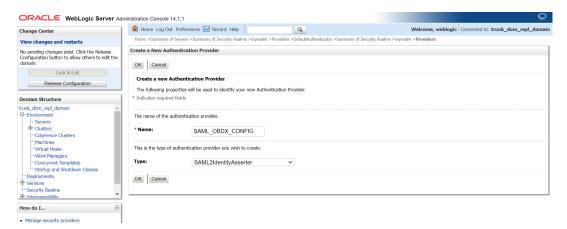


4. Again, navigate to "Security Realms" → myrealms → Providers and click on New button to create new Authentication Provider.

Fill the below mentioned fields with appropriate values and click on **OK**.

- a. Name: Name of authentication provider.
- b. Type: Select value as "SAML2IdentityAsserter".

Figure 2-13 Create Authentication Provider



- Restart Admin Server.
- 6. Login to WebLogic console and navigate to "Security Realms" → myrealms → Providers newly created authentication provider (e.g. SAML\_OBDX\_CONFIG) and navigate to "Management" tab.
- Click on New button to add the Identity Provider Partner and select "New Web Single Sign-On Identity Provider Partner".

Figure 2-14 Management



8. Provide the name for the identity partner and select the IDC metadata xml copied to WebLogic server.

Click **OK** button to save.



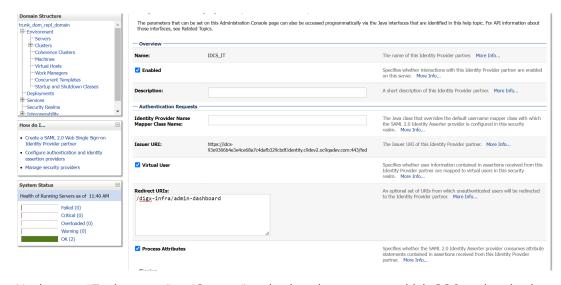
Domain Structure | Land | . Enter the name of your new Single Sign-on Identity Provider partner Specify the name and location of the SAML 2.0 metadata file that you received from this new partner \* Indicates required fields --Virtual Hosts --Work Managers WebSSO-ldP-Partner-0 /scratch/app/domain/trunk\_dom\_repl\_domain/IDCSMetadata.xml Path: Recently Used Paths: How do I... 100.76.153.182 / scratch / app / domain / trunk\_dom\_repl\_domain Current Location: Create a SAML 2.0 Web Single Sign-on Identity Provider partner bin common Configure authorization providers config init-info jms logs orchestration Failed (0) original Critical (0) 

Figure 2-15 Create a SAML 2.0 Web Single Sign-on Identity Provider Partner

- Open the newly added Identity Provider Partner and select below mentioned checkboxes and field and click on Save.
  - a. Enable: Checked
  - b. Virtual User: Checked
  - Redirect URIs: /digx-infra/admin-dashboard

OK Cancel

Figure 2-16 Settings for Create a SAML 2.0 Web Single Sign-on Identity Provider Partner



**10.** Navigate to "Environment" → "Servers" and select the server on which SSO authentication application will be deployed.

Figure 2-17 Servers



- 11. Navigate to "Federation Services" → "SAML 2.0 General" and provide values to below mentioned fields. Click on **Save**.
  - a. Published Site URL: Recommended URL format <OHS URL>/saml2 e.g. <PROTOCOL>://<OHS\_HOST>:<OHS\_PORT>/saml2 http://whf000xxx.bank.com:9999/saml2
  - **b.** Entity Id: Value should match with Entity Id provided in SAML configuration in IDCS console.
  - c. Recipient Check Enabled: unchecked.

Figure 2-18 SAML 2.0 General



- **12.** Navigate to "Federation Services" → "SAML 2.0 Service Provider" and provide values to blow mentioned fields and click on **Save**.
  - a. Enabled: Check box should be checked.
  - b. Preferred Binding: Post
  - c. Default URL: <OHS\_URL>/digx-infra/admin-dashboard

# 2.3 SQL Authentication Provider configuration

Steps to configure SQL Authentication Providers changes into WebLogic console.

1. Login to WebLogic console with admin login and navigate to "Security Realms".

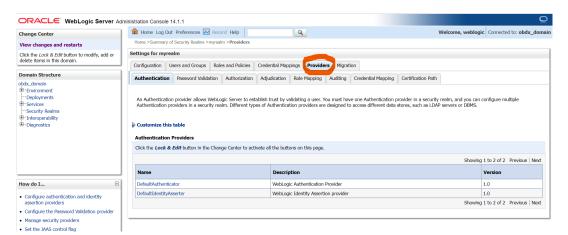


Figure 2-19 Security Realms



2.  $\rightarrow$  Click on myrealm or your realm name present in screen. Navigate to "**Providers**" tab.

#### Figure 2-20 Providers

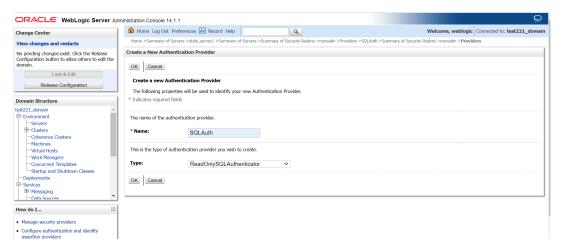


3. Click on **New** button to create new Authentication Provider.

Fill the below mentioned fields with appropriate values and click on **OK**.

- a. Name: Name of authentication provider.
- b. Type :Select value as "ReadOnlySQLAuthenticator".

Figure 2-21 Create New Authentication Provider



 Open newly created authentication provider (e.g. SQLAuth). Select the value of Control Flag as "SUFFICIENT".

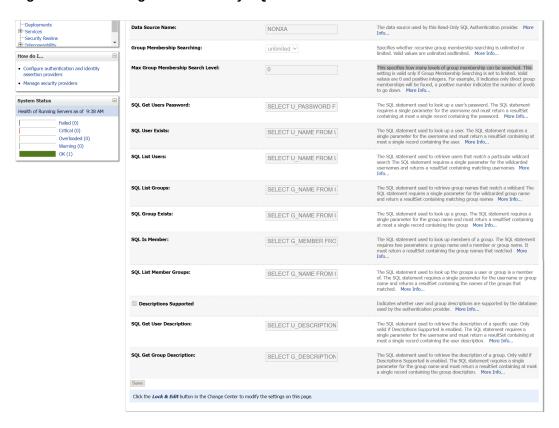
Figure 2-22 Settings for Read Only SQL Authentication Provider



- 5. Navigate to "Provider Specific" tab to configuration related to SQL Authentication.
- Provide the values to fields mentioned below with given value in case it is not auto populated.
  - a. Data Source Name: NONXA
  - b. SQL Get Users Password: SELECT U\_PASSWORD FROM USERS WHERE U\_NAME = ?
  - c. SQL User Exists: SELECT U\_NAME FROM USERS WHERE U\_NAME = ?
  - d. SQL List Users: SELECT U\_NAME FROM USERS WHERE U\_NAME LIKE?
  - e. SQL List Groups: SELECT G\_NAME FROM GROUPS WHERE G\_NAME LIKE?
  - f. VI. SQL Group Exists: SELECT G\_NAME FROM GROUPS WHERE G\_NAME = ?
  - g. SQL Is Member: SELECT G\_MEMBER FROM GROUPMEMBERS WHERE G\_NAME = ? AND G\_MEMBER = ?
  - SQL List Member Groups: SELECT G\_NAME FROM GROUPMEMBERS WHERE G\_MEMBER = ?

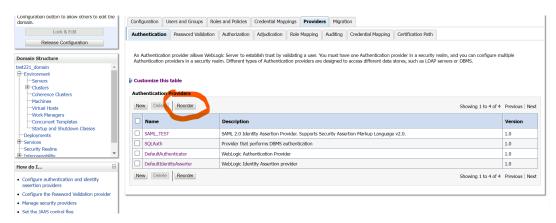
- i. SQL Get User Description: SELECT U\_DESCRIPTION FROM USERS WHERE U NAME = ?
- j. SQL Get Group Description: SELECT G\_DESCRIPTION FROM GROUPS WHERE G NAME = ?

Figure 2-23 Settings for Read Only SQL Authentication Provider



- Click on Save.
- 8. Navigate to "Security Realms"  $\rightarrow$  myrealms  $\rightarrow$  Providers and click on Reorder button.

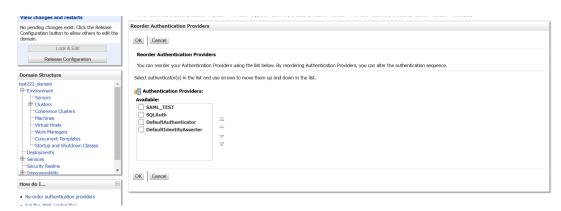
Figure 2-24 Authentication



9. Reorder the authentication providers as given below.

- SAML Authentication Provider
- b. SQL Authentication Provider
- c. Default Authenticator

Figure 2-25 Reorder Authentication Providers



10. Restart all the servers in domain including Admin Server.



Accessing /saml2 uri from OHS (<OHS\_URL>/saml2), /saml2 uri has to be proxy bypassed from OHS

# 2.4 OHS Configuration

Provides details on configuration required on OHS to enable different URL's for internal and external users. i.e authentication with OBDX or external service provider.

- 1. Open obdx.conf file from OHS server. You can find the location of obdx.conf file from httpd.conf file.
- Verify if proxypass URLs are configured in obdx.conf file. If not then add entries as mentioned in below format.

```
ProxyPassMatch "/digx(.*)" "<PROTOCOL>://<WL_HOST_NAME>:<WL_PORT>/digx$1"
ProxyPassReverse "/digx(.*)" "<PROTOCOL>://<WL_HOST_NAME>:<WL_PORT>/digx$1"
ProxyPassMatch "/saml2(.*)" "<PROTOCOL>://<WL_HOST_NAME>:<WL_PORT>/saml2$1"
ProxyPassReverse "/saml2(.*)" <PROTOCOL>://<WL_HOST_NAME>:<WL_PORT>/saml2$1"
ProxyPassMatch "/digx(.*)" "http://whf000xxx.bank.com:19003/digx$1"
ProxyPassReverse "/digx(.*)" "http://whf000xxx.bank.com:19001/saml2$1"
ProxyPassReverse "/saml2(.*)" "http://whf000xxx.bank.com:19001/saml2$1"
ProxyPassReverse "/saml2(.*)" "http://whf000xxx.bank.com:19001/saml2$1"
```

3. Add below virtual configuration into obdx.conf file.

```
"${DocumentRoot}">
        Options FollowSymLinks
        AllowOverride all
        </Directory></VirtualHost> Listen <PORT 2><VirtualHost
          *:<PORT 2>>
        ServerName < HOST NAME>
        RewriteEngine On
          RewriteRule
                         "^(.*)/config\.js$"
          "<SERVER PROTOCOL>://<HOST NAME>:<PORT 2>/framework/js/
configurations/config-admin.js" [R]
          <Directory
        "${DocumentRoot}">
        Options FollowSymLinks
        AllowOverride all
        </Directory>
    </VirtualHost>
```

#### Note:

Replace the <PORT\_1> & <PORT\_2> with the ports which are expose to outside world. Replace <SERVER\_PROTOCOL> and <HOST\_NAME> with appropriate values. E.g. http and whfxxx.sample.com (if hostname is not available then <HOST\_NAME> value can be IP address.)

```
# All other request passed through this rules.

ProxyPassMatch "/digx(.*)" "http://whf00qiw.in.oracle.com:19001/digx$1"

ProxyPassReverse "/digx(.*)" "http://whf00qiw.in.oracle.com:19001/digx$1"

ProxyPassMatch "/sam12(.*)" "http://whf00qiw.in.oracle.com:19001/sam12$1"

ProxyPassReverse "/sam12(.*)" "http://whf00qiw.in.oracle.com:19001/sam12$1"
##Virtual Hosts
Listen 8888
 <VirtualHost *:8888>
       ServerName whf00qiw.in.oracle.com
RewriteEngine On
       RewriteOptions inherit
       <Directory "${DocumentRoot}">
    Options FollowSymLinks
               AllowOverride all
               #Require all granted
        </Directory>
</VirtualHost>
Listen 9999
 <VirtualHost *:9999>
               Indst - 1999
ServerName whf00qiw.in.oracle.com
RewriteEngine On
RewriteRule "^(.*)/config\.js$" "http://whf00qiw.in.oracle.com:9999/framework/js/configurations/config-admin.js" [R]
       <Directory "${DocumentRoot}">
    Options FollowSymLinks
               AllowOverride all
#Require all granted
        </Directory>
</VirtualHost>
```

4. Save obdx.conf file and restart ohs server.

# 2.5 Database Configuration

To enable SSO for external users below configuration need to be done in database.

1. To enable SSO authentication for user type / enterprise role execute below query on intended database environment. Replace <USER\_TYPE> with the user type / enterprise role for which SSO authentication to be enabled.

```
UPDATE DIGX_FW_CONFIG_ALL_B SET PROP_VALUE = 'External' WHERE PROP_ID =
'<USER TYPE>' AND CATEGORY ID = ' AuthenticationConfiguration ';
```

For example: UPDATE DIGX\_FW\_CONFIG\_ALL\_B SET PROP\_VALUE = 'External' WHERE PROP ID = 'administrator' AND CATEGORY ID = 'AuthenticationConfiguration';

2. Execute below query for redirection after authentication from SSO service provider back to OBDX. Replace the value of <OHS\_URL\_FOR\_ADMIN\_USER\_LOGIN> with the OHS\_URL with port enable for external / admin user login, the virtual host enabled in section 3.4, step 3.

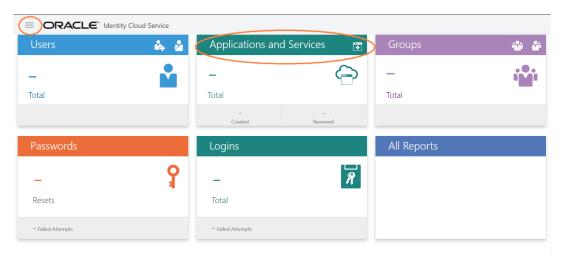
INSERT INTO DIGX\_FW\_CONFIG\_ALL\_B (PROP\_ID, CATEGORY\_ID, PROP\_VALUE, FACTORY\_SHIPPED\_FLAG, PROP\_COMMENTS, SUMMARY\_TEXT, CREATED\_BY, CREATION\_DATE, LAST\_UPDATED\_BY, LAST\_UPDATED\_DATE, OBJECT\_STATUS, OBJECT\_VERSION\_NUMBER, EDITABLE, CATEGORY\_DESCRIPTION) values ('SSO\_PUBLIC\_URL', 'dayoneconfig', '<OHS\_URL\_FOR\_ADMIN\_USER\_LOGIN>', 'N', null, 'Public SSO URL', 'ofssuser', to\_timestamp('29-09-22 10:05:56.000000000 AM', 'DD-MM-RR fmHH12:fmMI:SSXFF AM'), 'ofssuser', to\_timestamp('29-09-22 10:05:56.000000000 AM', 'DD-MM-RR fmHH12:fmMI:SSXFF AM'), 'A', 1, 'N', null);

# 2.6 IDCS OAuth Integration

To fetch the user information from external SSO provider, application need to be registered as a client in IDCS. Below steps providers details on registering the application in IDCS.

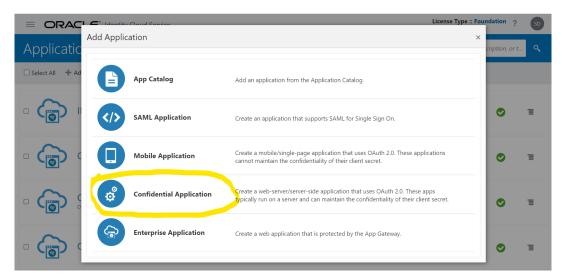
 Login to Oracle Identity Cloud Service (IDCS) console with admin login. In dashboard click on Add Application in Application and Services widget or navigate through the breadcrumb menu as highlighted in screenshot.





2. In popup window select Confidential Application.

Figure 2-27 Add Application



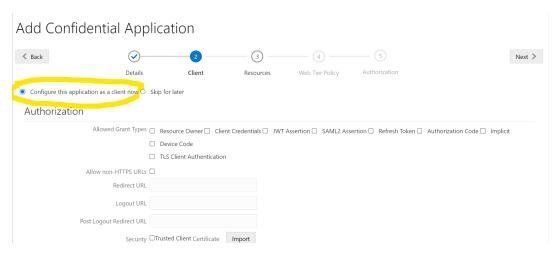
- 3. In Add Confidential Application page provide below mentioned fields and click on Next.
  - a. Name
  - b. Description

Figure 2-28 Add Confidential Application



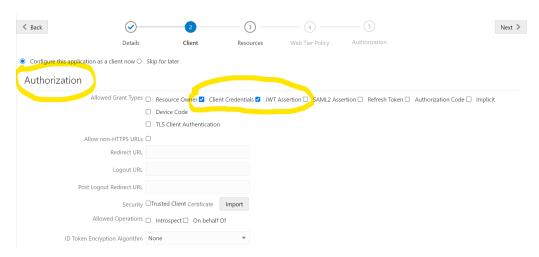
- Select Configure this application as a client now option in screen as shown in below screenshot.
  - a. Name
  - b. Description

Figure 2-29 Add Confidential Application



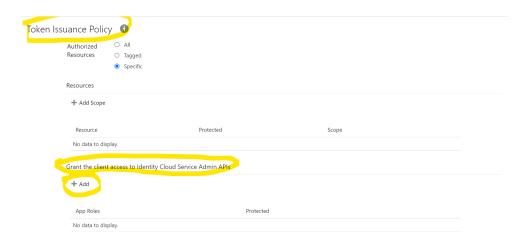
- 5. Fill below mentioned fields as per section.
  - a. Authorization
    - i. Allowed Grant Types:- Select checkbox as "Client Credentials" and "JWT Assertion"

Figure 2-30 Add Confidential Application



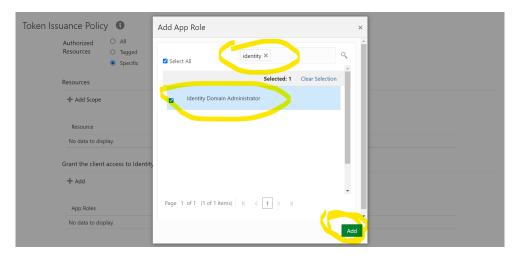
- b. Token Issuance Policy
  - i. Authorized Resources :Select value as "Specific"
  - ii. Grant the client access to Identity Cloud Service Admin APIs: Click on Add button

Figure 2-31 Add Confidential Application



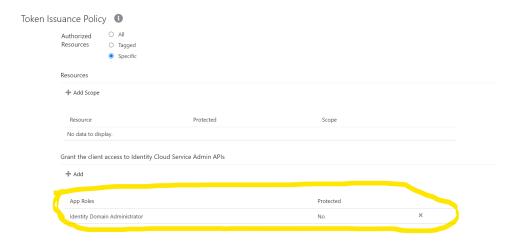
iii. In popup window search for "Identity Domain Administrator" and click on Add.

Figure 2-32 Add App Role



iv. Verify a row added in table for **App Roles** as shown like below screenshot.

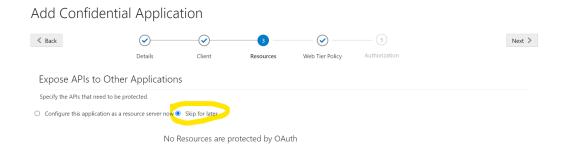
Figure 2-33 Add Confidential Application





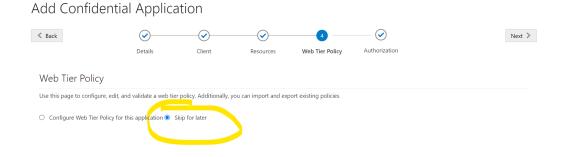
- v. Click on Next button on top.
- c. Expose APIs to Other Applications: Select "Skip for later" and click on Next.

Figure 2-34 Add Confidential Application



d. Web Tier Policy: Select "Skip for later" and click on Next button.

Figure 2-35 Add Confidential Application



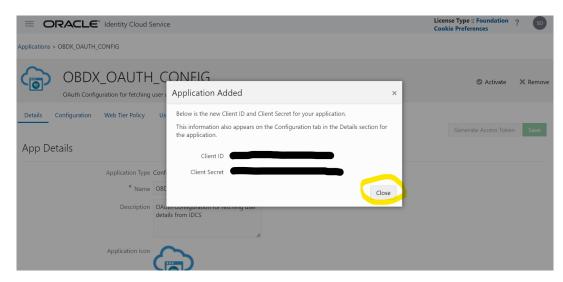
e. Click on "Finish".

Figure 2-36 Add Confidential Application



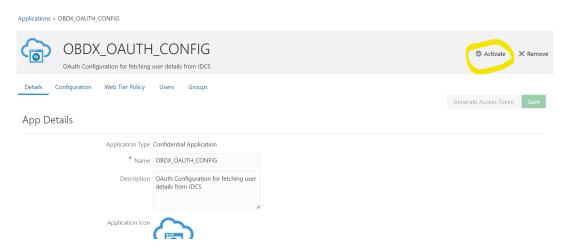
6. After finish click a popup window will open with "Client ID" and "Client Secret" as shown in below screenshot. Copy the Client Id and Client Secret to text file to keep it handy as it will be required in further steps. Once copied click on "Close".

Figure 2-37 Add Confidential Application



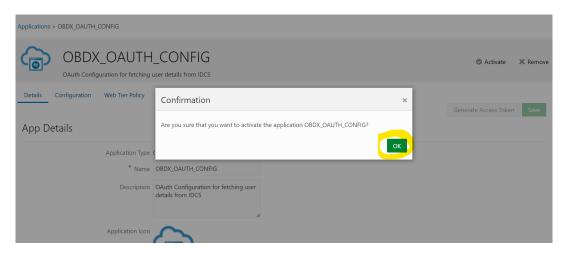
7. Click on "Activate" button to activate the application.

Figure 2-38 Edit Application



8. Popup window asking confirmation to activate the application will open, click on "**OK**" to activate the application.

Figure 2-39 Edit Application



Logout from IDCS console.

# 2.7 WebLogic configuration for OAuth

To enable OAuth support on WebLogic server follow below mentioned steps.

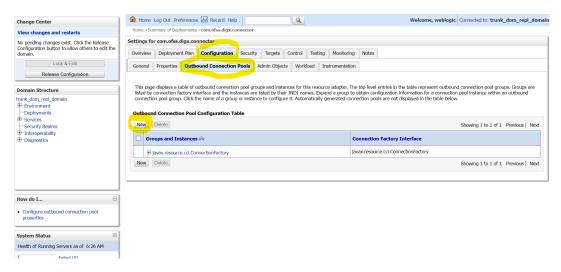
- Login to WebLogic console with admin login and navigate to "Domain Structure" →
   "Deployments".
- Click on "com.ofss.digx.connector"

Figure 2-40 Deployments



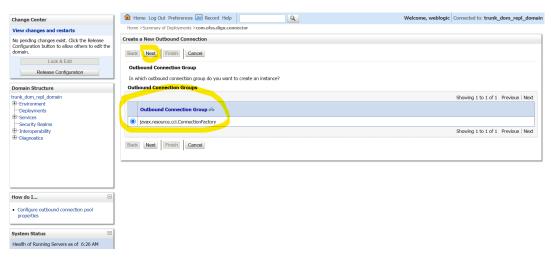
3. Navigate to "Configuration" → "Outbound Connection Pools" tab and click on **New**.

Figure 2-41 Outbound Connection Pools Configuration



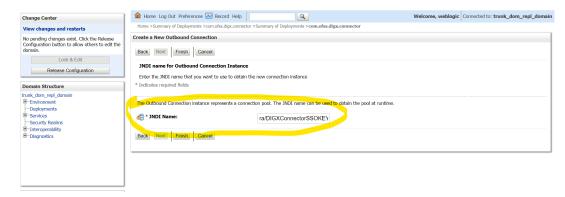
4. Select "javax.resource.cci.ConnectionFactory" and click on Next.

Figure 2-42 Outbound Connection Group Configuration



Enter JNDI name as ra/DIGXConnectorSSOKEY and click on Finish.

Figure 2-43 JNDI Configuration for Outbound Connection





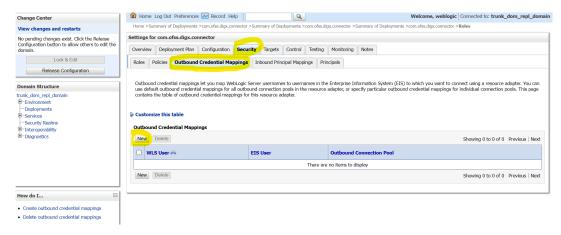
- 6. Again navigate to "Domain Structure" → "Deployments".
- Click on "com.ofss.digx.connector".

Figure 2-44 Deployments



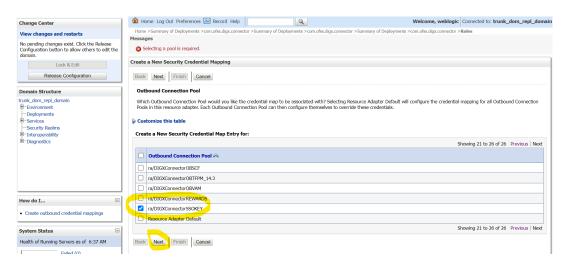
8. Navigate to "Security" → "Outbound Credentials Mapping" tab and click on **New**.

Figure 2-45 Outbound Credentials Mappings



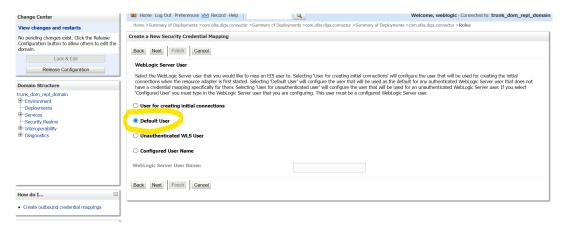
9. Select "ra/DIGXConnectorSSOKEY" by navigating using next button. Once selected as shown in below screenshot, click on **Next**.

Figure 2-46 Create New Security Credentials Mappings



10. Select "Default User" and click on Next.

Figure 2-47 Create New Security Credentials Mappings



- 11. Provide the below mentioned field values as given below.
  - a. EIS User Name: Client ID save in txt file generated from IDCS in section 3.5, step 6.
  - EIS Password: Client Secret save in txt file generated from IDCS in section 3.5, step
  - EIS User Name: Client Secret save in txt file generated from IDCS section 3.5, step6.

ORACLE WebLogic Server Administration Console 14.1.1 ⊕ Home Log Out Preferences Record Help Q Welcome, weblogic Connected to: trunk dom repl dor View changes and restarts Create a New Security Credential Mapping No pending changes exist. Click the Release Configuration button to allow others to edit the Back Next Finish Cancel Lock & Edit FIS User Name and Password Release Configuration Configure the EIS User Name and Password that you would like to map the WebLogic Server User to: Domain Structure Enter the EIS User Name: \* EIS User Name: XXXXXXXXXXXXXXXXXXXXXX Enter the EIS Password: \* EIS Password: \* Confirm Password. Back Next Finish Cancel How do I... · Create outbound credential mappings Health of Running Servers as of 6:39 AM

Figure 2-48 Configure EIS UIS Username / Password

12. Click on Finish to save the configuration.

# 2.8 OBAPI configuration for OAuth

To enable IDCS out of the box support for OAuth follow below mentioned steps.

update DIGX\_FW\_CONFIG\_ALL\_B set prop\_value = <SSO\_PROVIDER\_URL> where prop\_id =
'SSO PROVIDER URL';

- Replace <SSO\_PROVIDER\_URL> with respective SSO provider URL.
- 2. Restart all the managed servers.

For configuring any other service provider, a custom class needs to be written which implements com.ofss.digx.app.sms.service.user.external.IExternalUser interface.

The entry for the new custom class has to be made in database using the below script -

update DIGX\_FW\_CONFIG\_ALL\_B set prop\_value = <SSO\_PROVIDER\_CLASS> where prop\_id =
'SSO\_PROVIDER\_CLASS';

- Replace <SSO\_PROVIDER\_CLASS> with the fully qualified name of the new custom class.
- 4. Also below queries need to be executed as well if there are any changes in the configuration-

```
update DIGX_FW_CONFIG_ALL_B set prop_value = <SSO_PROVIDER_TOKEN_SCOPE> where
prop_id = 'SSO_PROVIDER_TOKEN_SCOPE'; update DIGX_FW_CONFIG_ALL_B set
prop_value = <SSO_PROVIDER_TOKEN_URI> where prop_id =
'SSO_PROVIDER_TOKEN_URI'; update DIGX_FW_CONFIG_ALL_B set prop_value =
<SSO_PROVIDER_URL> where prop_id = 'SSO_PROVIDER_URL'; update
DIGX_FW_CONFIG_ALL_B set prop_value = <SSO_PROVIDER_USER_READ_URI> where
prop_id = 'SSO_PROVIDER_USER_READ_URI';
```

5. Restart all the servers in domain.

# 2.9 Default Admin Configuration

OBAPI installer comes pre-shipped admin user with name "superadmin",so in order to login into the OBAPI application for completing Day 1 maintenances the same user need to be created in SSO Provider with same name post SSO integration.

# 2.10 Logout Configurations

Below query needs to be executed as part of the logout configurations.

```
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
('SSO_LOGOUT_URL','dayoneconfig','<LOGOUT_URL>','Y',null,'SSO logout Url',
'ofssuser',sysdate,'ofssuser',sysdate,'A',1,'N',null);
```

Replace <LOGOUT\_URL> with respective url.

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