

Single Sign-on Configuration Guide -SAML  
Oracle Banking Digital Experience  
Patchset Release 22.2.4.0.0

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Single Sign-on Configuration Guide -SAML

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## 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. Introduction .....</b>	<b>2-1</b>
<b>3. Configuration .....</b>	<b>3-1</b>
3.1 Identity Provider Configuration at IDCS.....	3-1
3.2 SAML Authentication Provider configuration.....	3-6
3.3 SQL Authentication Provider configuration.....	3-9
3.4 OHS Configuration.....	3-13
3.5 Database Configuration .....	3-15
3.6 IDCS OAuth Integration .....	3-16
3.7 WebLogic configuration for OAuth.....	3-22
3.8 OBDX configuration for OAuth .....	3-26
3.9 Default Admin Configuration.....	3-27
3.10 Logout Configurations.....	3-28

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# 1. Preface

## 1.1 Intended Audience

This document is intended for the following audience:

- Customers
- Partners

## 1.2 Documentation Accessibility

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

## 1.3 Access to Oracle Support

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

<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit

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

## 1.4 Structure

This manual is organized into the following categories:

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

The subsequent chapters describes following details:

- Introduction
- Preferences & Database
- Configuration / Installation.

## 1.5 Related Information Sources

For more information on Oracle Banking Digital Experience Patchset Release 22.2.4.0.0, refer to the following documents:

- Oracle Banking Digital Experience Installation Manuals

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## 2. 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.

[Home](#)

## 3. Configuration

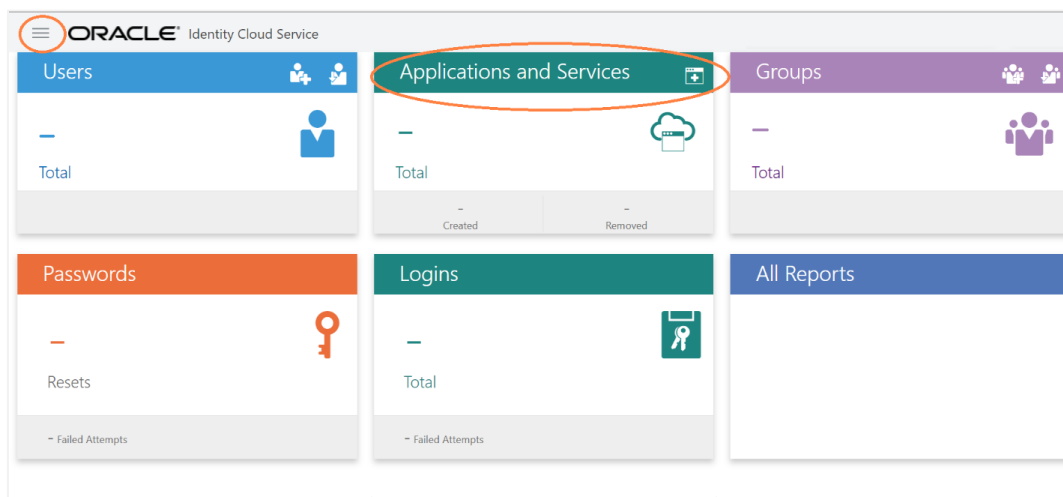
To enable SAML authentication it involves configuration at WebLogic server (console) and IDCS console.

### 3.1 Identity Provider Configuration at IDCS

Steps to configure Identity Provide at IDCS

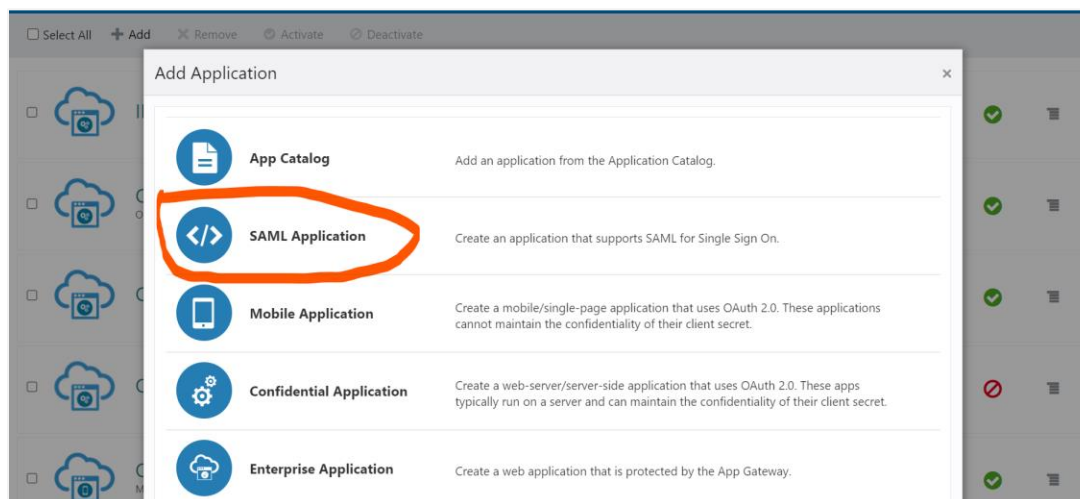
1. Login to Oracle Identity Cloud Service (IDCS) console with admin login. In dashboard click on **Add Application** in Application and Services widget or navigate through the breadcrumb menu as highlighted in screenshot.

#### Dashboard



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

#### Add Application



3. In **Add SAML Application** page provide below mentioned fields and click on **Next**.

- i. Name
- ii. Description

### Add SAML Application

4. Fill below mentioned fields as per section.

- i. General
  - a. Entity Id: - A unique identifier / name for the service provider.
  - b. Assertion Consumer URL: - End point to which assertion will be sent by IDCS. Recommended URL format [<OHS\\_URL>/saml2/sp/acs/post](#)  
e.g. [<PROTOCOL>://<OHS\\_HOST>:<OHS\\_PORT>/saml2/sp/acs/post](#)  
[http://whf000xxx.bank.com:9999/saml2/sp/acs/post](#)
  - c. NameID Format: - Select value as “Unspecified”.
  - d. NameID Value:- Select value as “User Name”.

### Add SAML Application

- ii. Advance Settings
  - a. Signed SSO :- Select value as “Assertion”
  - b. Enable Single Logout: - This field should be checked.
  - c. Logout Binding: - Select value as “Redirect”.
  - d. 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)  
<http://whf000xxx.bank.com:9999/digx-infra/sso-logout>
  - e. 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)  
<http://whf000xxx.bank.com:9999/digx-infra/sso-logout>

### Add SAML Application

#### Advanced Settings

This section contains additional configuration options.

Signed SSO

Include Signing Certificate in Signature

Signature Hashing Algorithm

Enable Single Logout

\* Logout Binding

\* Single Logout URL

\* Logout Response URL

Encrypt Assertion

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

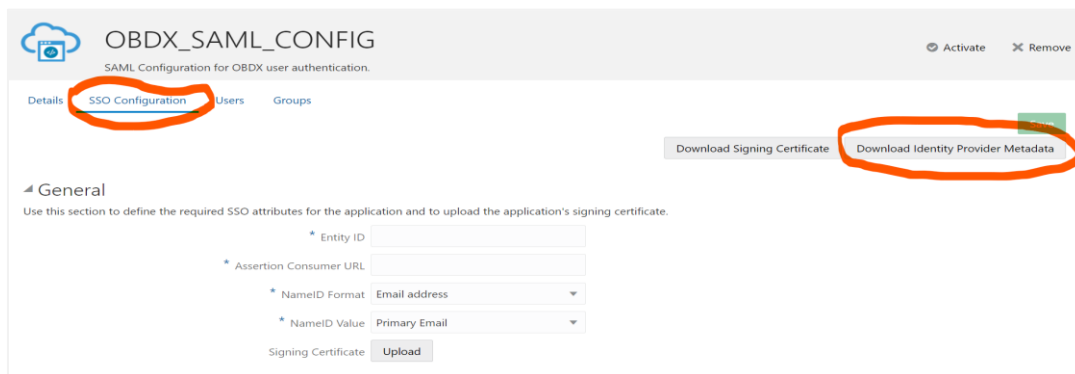
### Edit Application

The screenshot shows the 'Edit Application' page for 'OBDX\_SAML\_CONFIG'. At the top right, there are 'Activate' and 'Remove' buttons, both circled in orange. Below the application name, there are tabs for 'Details', 'SSO Configuration', 'Users', and 'Groups'. The 'Details' tab is active, showing 'App Details' with fields for 'Application Type' (SAML Application), 'Name' (OBDX\_SAML\_CONFIG), 'Description' (SAML Configuration for OBDX user authentication), and 'Application Icon'. A 'Save' button is also circled in orange at the bottom right of the details section.



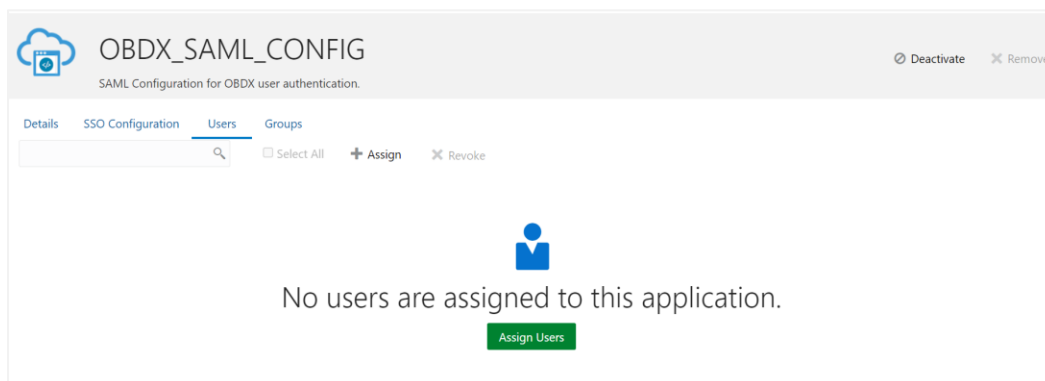
7. Navigate to Dashboard and search the application you have created.
8. Navigate to **SSO Configuration** tab and click on **“Download Identity Provider Metadata”**. Keep the downloaded xml file, it will be required to upload in WebLogic console. Same is explain in WebLogic console configuration steps.

### Edit Application



9. 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.

### Edit Application



### Assign Users

Assign Users ✕

**i** Please select up to 40 users to assign.

Select All  🔍

**Selected: 1** [Clear Selection](#)

	First Name	Last Name	Email
<input type="checkbox"/>	Super	Admin	[REDACTED]
<input checked="" type="checkbox"/>	superadmin	superadmin	[REDACTED]

Page 1 of 1 (1-2 of 2 items) ⏪ < 1 > ⏩ OK

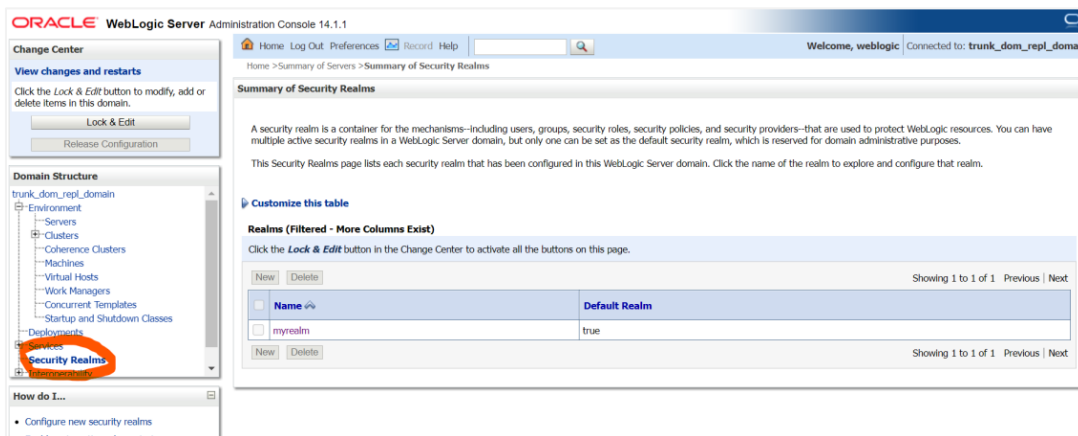
12. Logout from IDCS console.

## 3.2 SAML Authentication Provider configuration.

Steps to configure SAML Authentication Providers changes into WebLogic console.

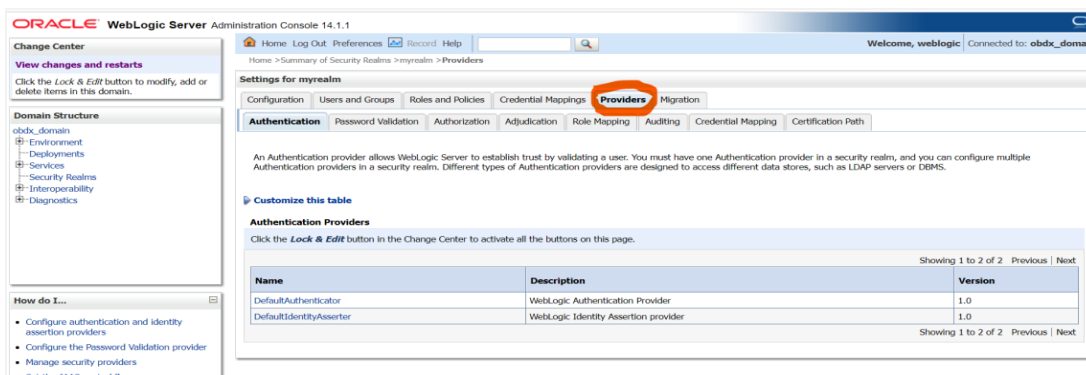
1. Login to WebLogic console with admin login and navigate to “Security Realms”.

### Security Realms



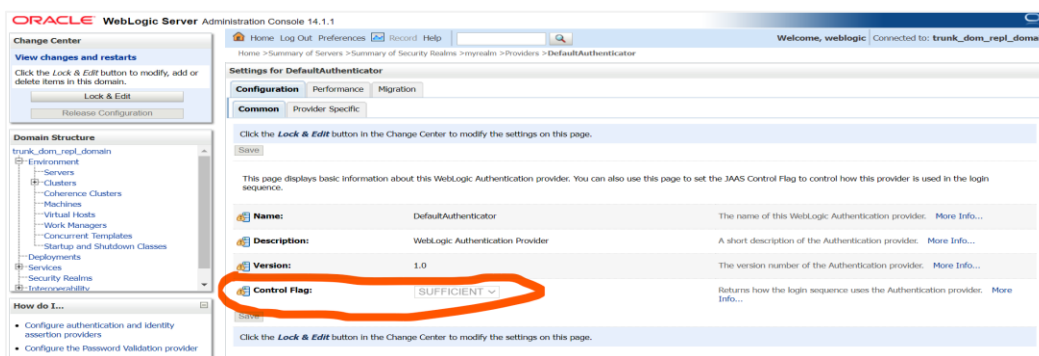
2. → Click on **myrealm** or your realm name present in screen. Navigate to “Providers” tab.

### Providers



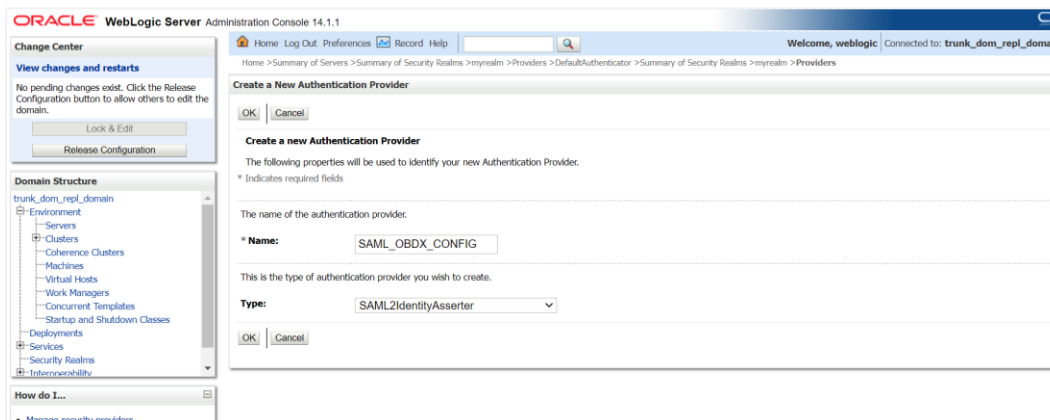
3. Select “DefaultAuthenticator” and change the Control Flag value to “SUFFICIENT”.

### Default Authenticator



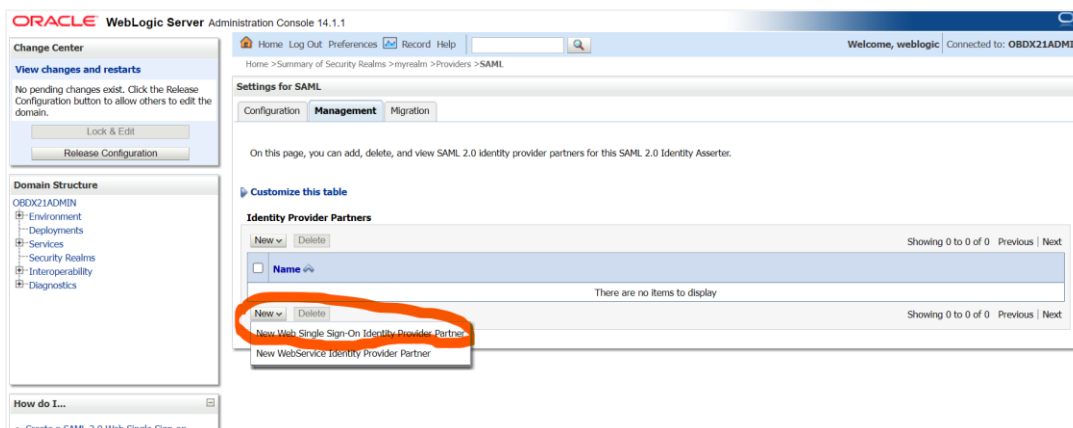
4. Again, navigate to “Security Realms” → myrealms → Providers and click on **New** button to create new Authentication Provider. Fill the below mentioned fields with appropriate values and click on **OK**.
  - i. Name: - Name of authentication provider.
  - ii. Type :- Select value as “SAML2IdentityAsserter”.

### Create Authentication Provider



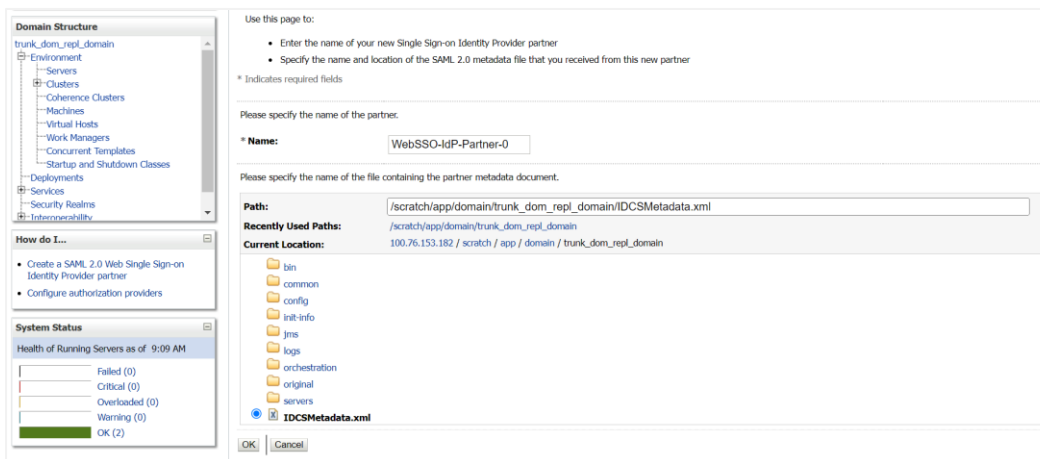
5. Restart Admin Server.
6. Login to WebLogic console and navigate to “Security Realms” → myrealms → Providers newly created authentication provider (e.g. SAML\_OBDX\_CONFIG) and navigate to “**Management**” tab.
7. Click on **New** button to add the Identity Provider Partner and select “**New Web Single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

### Management



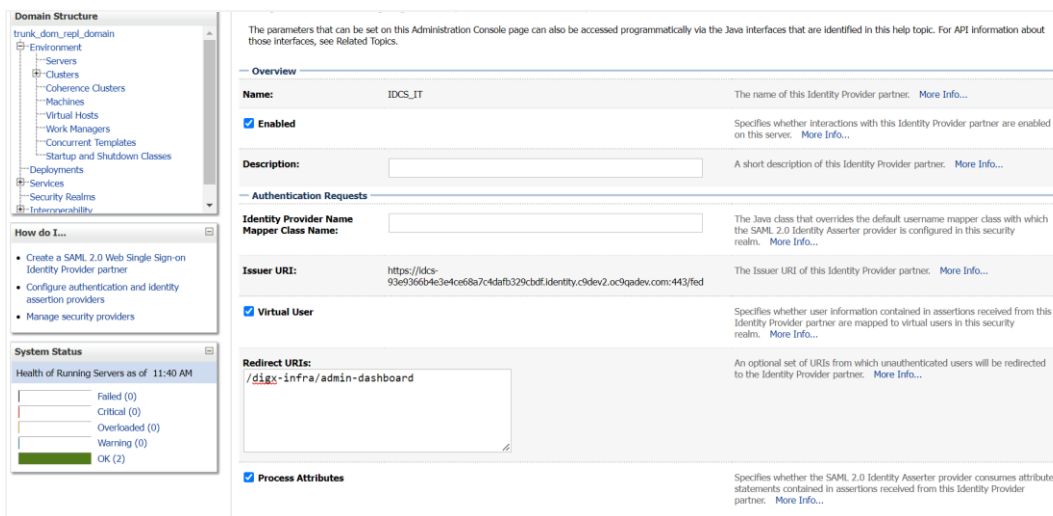
8. Provide the name for the identity partner and select the IDC metadata xml copied to WebLogic server. Click **OK** button to save.

## Create a SAML 2.0 Web Single Sign-on Identity Provider Partner



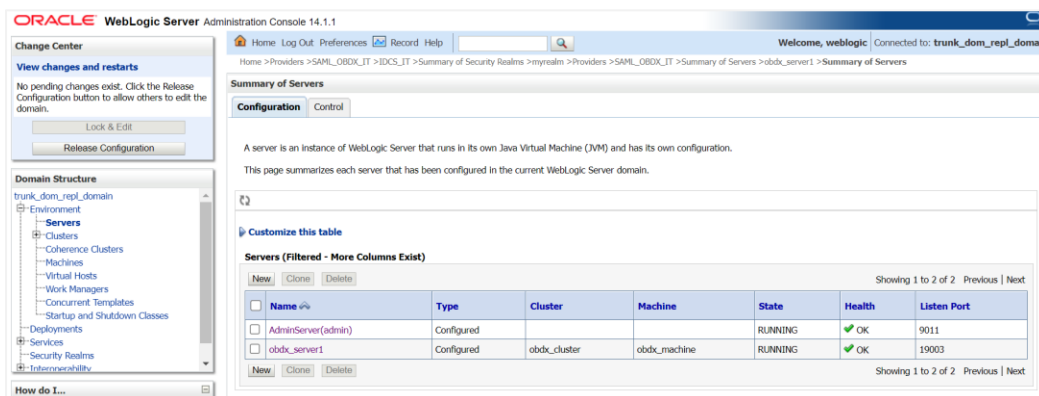
9. Open the newly added Identity Provider Partner and select below mentioned checkboxes and field and click on **Save**.
  - i. Enable: - Checked
  - ii. Virtual User: - Checked
  - iii. Redirect URIs: - /digx-infra/admin-dashboard

## 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.

## Servers



11. Navigate to “Federation Services” → “SAML 2.0 General” and provide values to below mentioned fields. Click on **Save**.

- i. Published Site URL: - Recommended URL format [<OHS URL>/saml2](#)  
e.g. [<PROTOCOL>://<OHS\\_HOST>:<OHS\\_PORT>/saml2](#)  
<http://whf000xxx.bank.com:9999/saml2>
- ii. Entity Id: - Value should match with [Entity Id](#) provided in SAML configuration in IDCS console.
- iii. Recipient Check Enabled: - unchecked.

### SAML 2.0 General

Published Site URL:  The published site URL. [More Info...](#)

Entity ID:  The string that uniquely identifies the local site. [More Info...](#)

**Bindings**

Recipient Check Enabled Specifies whether the recipient/destination check is enabled. When true, the recipient of the SAML Request/Response must match the URL in the HTTP Request. [More Info...](#)

12. Navigate to “Federation Services” → “SAML 2.0 Service Provider” and provide values to below mentioned fields and click on **Save**.

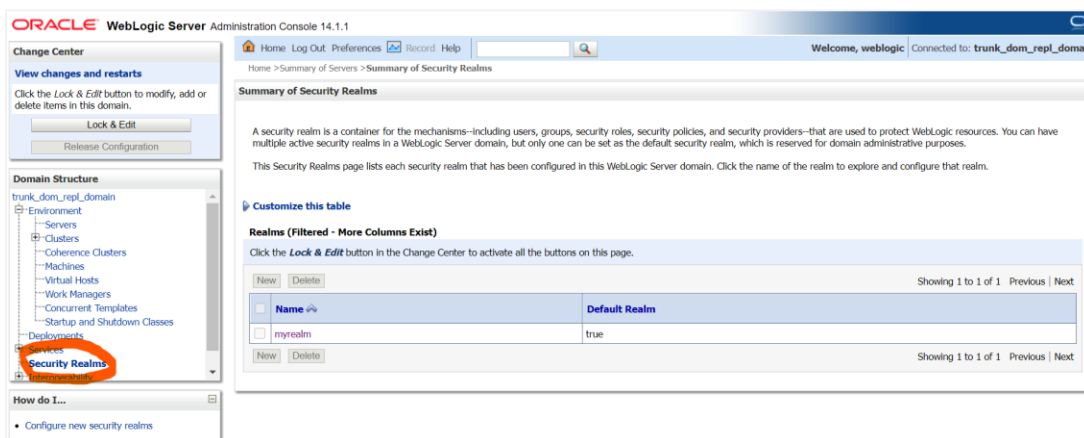
- i. Enabled: - Check box should be checked.
- ii. Preferred Binding: - Post
- iii. Default URL: - [<OHS\\_URL>/digx-infra/admin-dashboard](#)

## 3.3 SQL Authentication Provider configuration.

Steps to configure SQL Authentication Providers changes into WebLogic console.

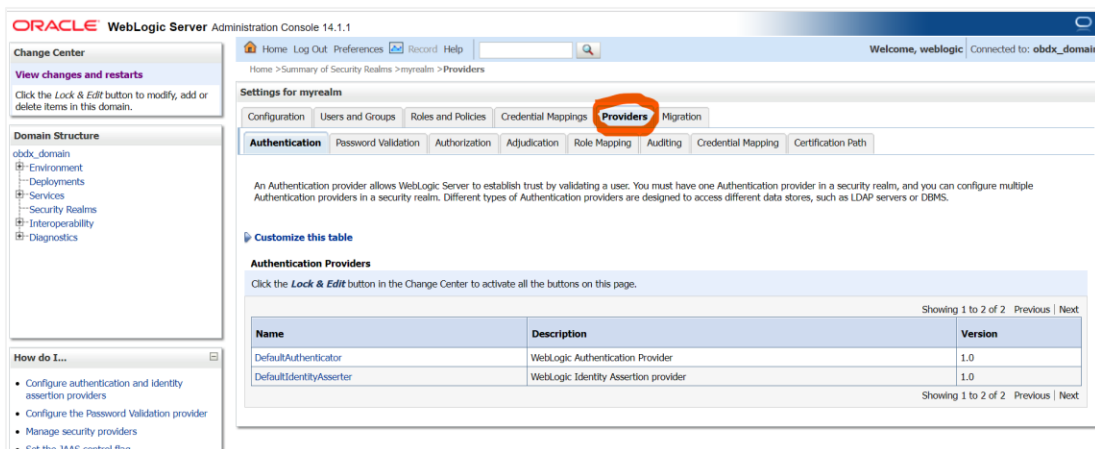
1. Login to WebLogic console with admin login and navigate to “**Security Realms**”.

## Security Realms



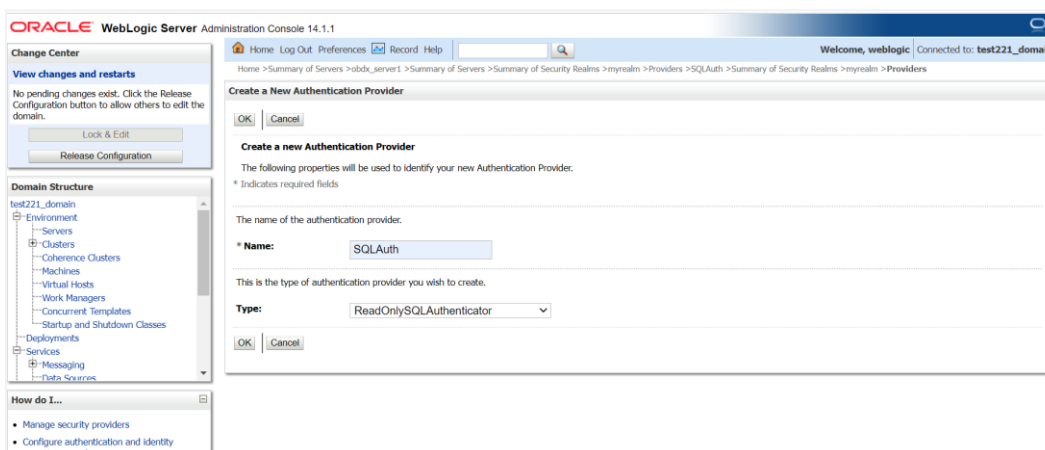
2. → Click on **myrealm** or your realm name present in screen. Navigate to “**Providers**” tab.

## Providers



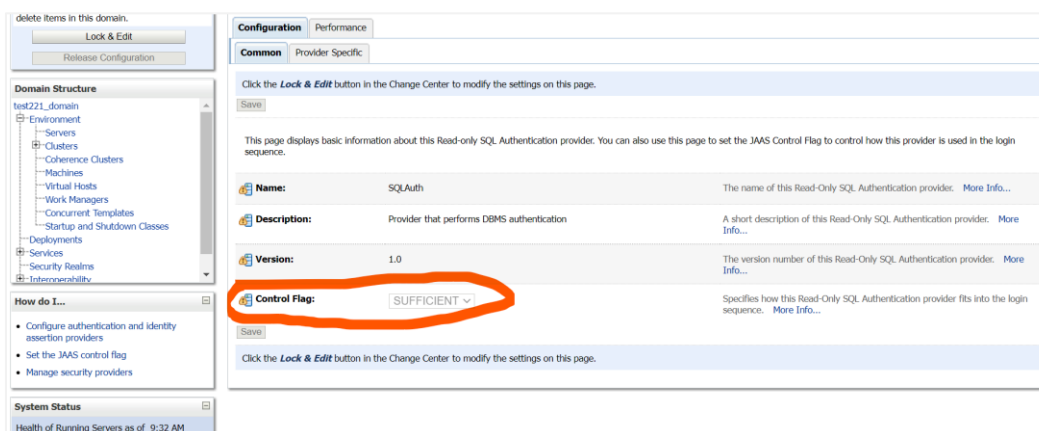
3. Click on **New** button to create new Authentication Provider. Fill the below mentioned fields with appropriate values and click on **OK**.
  - i. Name: - Name of authentication provider.
  - ii. Type :- Select value as “ReadOnlySQLAuthenticator”.

## Create New Authentication Provider



4. Open newly created authentication provider (e.g. SQLAuth). Select the value of **Control Flag** as **“SUFFICIENT”**

## Settings for Read Only SQL Authentication Provider



5. Navigate to **“Provider Specific”** tab to configuration related to SQL Authentication.
6. Provide the values to fields mentioned below with given value in case it is not auto populated.
  - i. Data Source Name: - NONXA
  - ii. SQL Get Users Password: - SELECT U\_PASSWORD FROM USERS WHERE U\_NAME = ?
  - iii. SQL User Exists: - SELECT U\_NAME FROM USERS WHERE U\_NAME = ?
  - iv. SQL List Users: - SELECT U\_NAME FROM USERS WHERE U\_NAME LIKE ?
  - v. SQL List Groups: - SELECT G\_NAME FROM GROUPS WHERE G\_NAME LIKE ?
  - vi. VI. SQL Group Exists: - SELECT G\_NAME FROM GROUPS WHERE G\_NAME = ?
  - vii. SQL Is Member: - SELECT G\_MEMBER FROM GROUPMEMBERS WHERE G\_NAME = ? AND G\_MEMBER = ?



- viii. SQL List Member Groups: - SELECT G\_NAME FROM GROUPMEMBERS WHERE G\_MEMBER = ?
- ix. SQL Get User Description: - SELECT U\_DESCRIPTION FROM USERS WHERE U\_NAME = ?
- x. SQL Get Group Description: - SELECT G\_DESCRIPTION FROM GROUPS WHERE G\_NAME = ?

### Settings for Read Only SQL Authentication Provider

<b>Data Source Name:</b>	NONXA	The data source used by this Read-Only SQL Authentication provider. <a href="#">More Info...</a>
<b>Group Membership Searching:</b>	unlimited	Specifies whether recursive group membership searching is unlimited or limited. Valid values are unlimited or limited. <a href="#">More Info...</a>
<b>Max Group Membership Search Level:</b>	0	This specifies how many levels of group membership can be searched. This setting is valid only if Group Membership Searching is set to limited. Valid values are 0 and positive integers. For example, 0 indicates only direct group memberships will be found, a positive number indicates the number of levels to go down. <a href="#">More Info...</a>
<b>SQL Get Users Password:</b>	SELECT U_PASSWORD F	The SQL statement used to look up a user's password. The SQL statement requires a single parameter for the username and must return a resultSet containing at most a single record containing the password. <a href="#">More Info...</a>
<b>SQL User Exists:</b>	SELECT U_NAME FROM U	The SQL statement used to look up a user. The SQL statement requires a single parameter for the username and must return a resultSet containing at most a single record containing the user. <a href="#">More Info...</a>
<b>SQL List Users:</b>	SELECT U_NAME FROM U	The SQL statement used to retrieve users that match a particular wildcard search. The SQL statement requires a single parameter for the wildcarded usernames and returns a resultSet containing matching usernames. <a href="#">More Info...</a>
<b>SQL List Groups:</b>	SELECT G_NAME FROM G	The SQL statement used to retrieve group names that match a wildcard. The SQL statement requires a single parameter for the wildcarded group name and return a resultSet containing matching group names. <a href="#">More Info...</a>
<b>SQL Group Exists:</b>	SELECT G_NAME FROM G	The SQL statement used to look up a group. The SQL statement requires a single parameter for the group name and must return a resultSet containing at most a single record containing the group. <a href="#">More Info...</a>
<b>SQL Is Member:</b>	SELECT G_MEMBER FRO	The SQL statement used to look up members of a group. The SQL statement requires two parameters: a group name and a member or group name. It must return a resultSet containing the group names that matched. <a href="#">More Info...</a>
<b>SQL List Member Groups:</b>	SELECT G_NAME FROM G	The SQL statement used to look up the groups a user or group is a member of. The SQL statement requires a single parameter for the username or group name and returns a resultSet containing the names of the groups that matched. <a href="#">More Info...</a>
<input type="checkbox"/> <b>Descriptions Supported</b>		Indicates whether user and group descriptions are supported by the database used by the authentication provider. <a href="#">More Info...</a>
<b>SQL Get User Description:</b>	SELECT U_DESCRIPTION	The SQL statement used to retrieve the description of a specific user. Only valid if Descriptions Supported is enabled. The SQL statement requires a single parameter for the username and must return a resultSet containing at most a single record containing the user description. <a href="#">More Info...</a>
<b>SQL Get Group Description:</b>	SELECT G_DESCRIPTION	The SQL statement used to retrieve the description of a group. Only valid if Descriptions Supported is enabled. The SQL statement requires a single parameter for the group name and must return a resultSet containing at most a single record containing the group description. <a href="#">More Info...</a>

Save

Click the **Lock & Edit** button in the Change Center to modify the settings on this page.

7. Click on **Save**.
8. Navigate to “Security Realms” → myrealms → Providers and click on **Reorder** button.

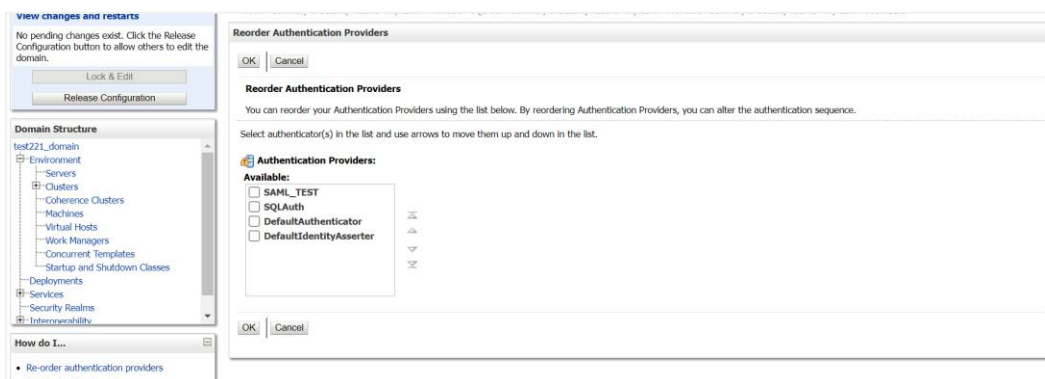
### Authentication

Name	Type	Status
...	...	...
...	...	...
...	...	...
...	...	...
...	...	...

9. Reorder the authentication providers as given below.

- i. SAML Authentication Provider
- ii. SQL Authentication Provider
- iii. Default Authenticator

### Reorder Authentication Providers



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

---

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

---

## 3.4 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.
2. 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:19003/digx$1"
ProxyPassMatch "/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.

```
##Virtual Hosts

Listen <PORT_1>

<VirtualHost *:<PORT_1>>

    ServerName <HOST_NAME>

    RewriteEngine On

    RewriteOptions inherit

    <Directory "${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 whfxx.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 "/saml2(.*)" "http://whf00qiw.in.oracle.com:19001/saml2$1"
ProxyPassReverse "/saml2(.*)" "http://whf00qiw.in.oracle.com:19001/saml2$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>
    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.

## 3.5 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';

- 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);
```

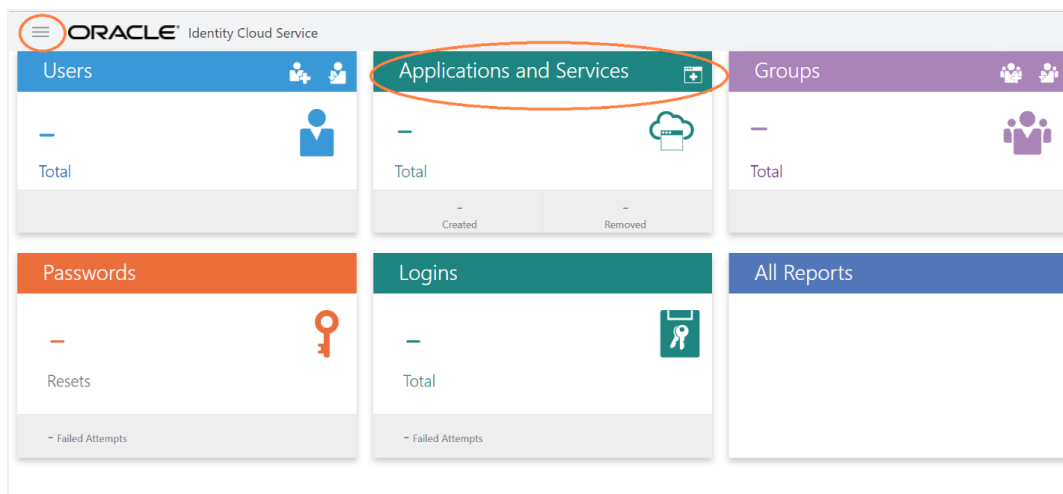
For Example: - INSERT INTO DIGX\_FW\_CONFIG\_ALL\_B (PROP\_ID, CATEGORY\_ID, PROP\_VALUE, FACTORY\_SHIPPED\_FLAG, PROP\_COMMENTS, SUMMARY\_TEXT, CREATED\_BY, LAST\_UPDATED\_BY, LAST\_UPDATED\_DATE, OBJECT\_STATUS, OBJECT\_VERSION\_NUMBER, EDITABLE, CATEGORY\_DESCRIPTION) values ('SSO\_PUBLIC\_URL', 'dayoneconfig', 'http:// whf000xxx.bank.com:9999', '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);

## 3.6 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.

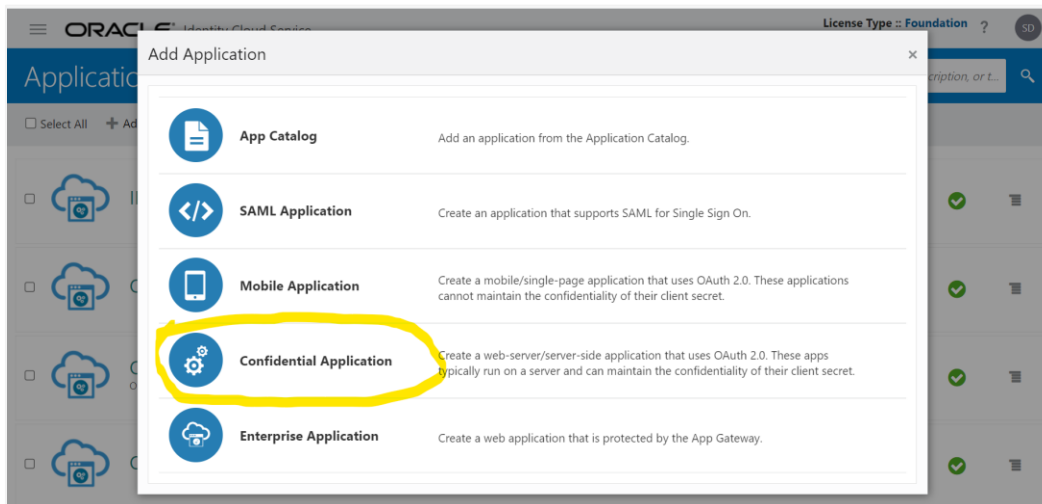
- Login to Oracle Identity Cloud Service (IDCS) console with admin login. In dashboard click on Add Application in Application and Services widget or navigate through the breadcrumb menu as highlighted in screenshot.

### Dashboard



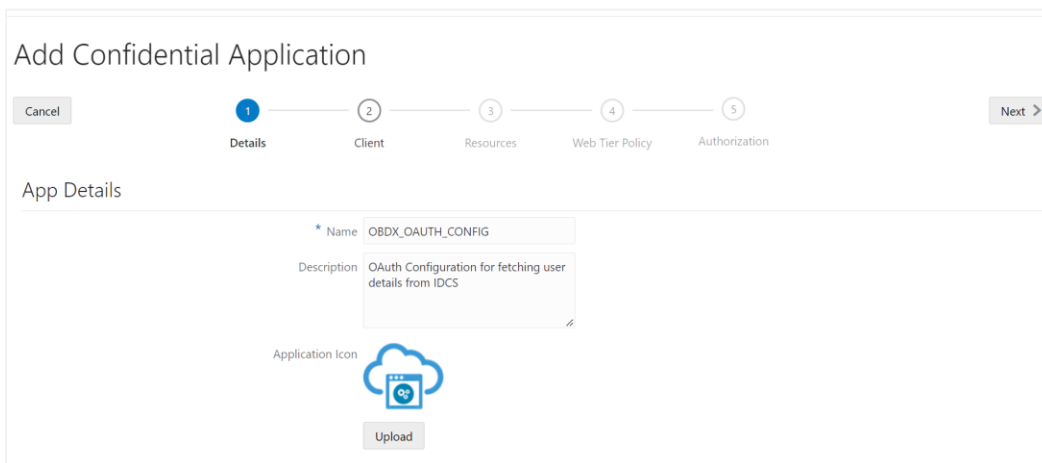
2. In popup window select **Confidential Application**.

### Add Application



3. In **Add Confidential Application** page provide below mentioned fields and click on **Next**.
  - i. Name
  - ii. Description

### Add Confidential Application



4. Select Configure this application as a client now option in screen as shown in below screenshot.

### Add Confidential Application

The screenshot shows the 'Add Confidential Application' wizard at the 'Client' step. A progress bar at the top indicates five steps: 1. Details, 2. Client (current), 3. Resources, 4. Web Tier Policy, and 5. Authorization. Below the progress bar, there are two radio buttons: 'Configure this application as a client now' (selected and circled in yellow) and 'Skip for later'. The 'Authorization' section is visible below, showing 'Allowed Grant Types' with checkboxes for 'Resource Owner', 'Client Credentials', 'JWT Assertion', 'SAML2 Assertion', 'Refresh Token', 'Authorization Code', and 'Implicit'. Other options include 'Device Code' and 'TLS Client Authentication'. There are also input fields for 'Redirect URL', 'Logout URL', and 'Post Logout Redirect URL'. At the bottom, there is a 'Security' section with a checkbox for 'Trusted Client Certificate' and an 'Import' button.

5. Fill below mentioned fields as per section.

i. Authorization

a. Allowed Grant Types:- Select checkbox as “Client Credentials” and “JWT Assertion”

### Add Confidential Application

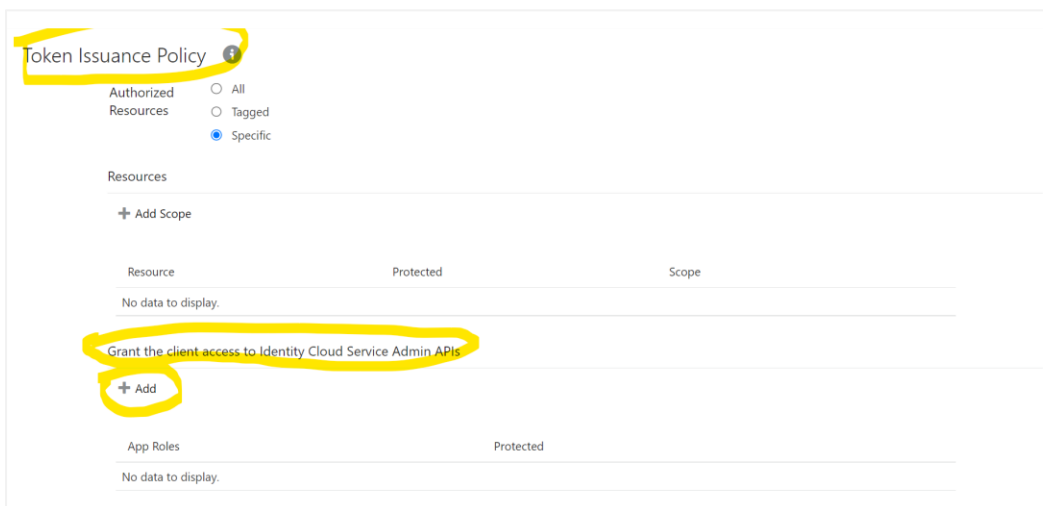
This screenshot shows the 'Add Confidential Application' wizard at the 'Client' step, with the 'Allowed Grant Types' section selected. The 'Client Credentials' and 'JWT Assertion' checkboxes are checked and circled in yellow. The 'Authorization' section is also circled in yellow. The 'Allowed Grant Types' section includes checkboxes for 'Resource Owner', 'Client Credentials', 'JWT Assertion', 'SAML2 Assertion', 'Refresh Token', 'Authorization Code', and 'Implicit'. Other options include 'Device Code' and 'TLS Client Authentication'. There are also input fields for 'Redirect URL', 'Logout URL', and 'Post Logout Redirect URL'. At the bottom, there is a 'Security' section with a checkbox for 'Trusted Client Certificate' and an 'Import' button. Below that, there is an 'Allowed Operations' section with checkboxes for 'Introspect' and 'On behalf Of', and an 'ID Token Encryption Algorithm' dropdown menu set to 'None'.

ii. Token Issuance Policy

a. Authorized Resources :- Select value as “Specific”

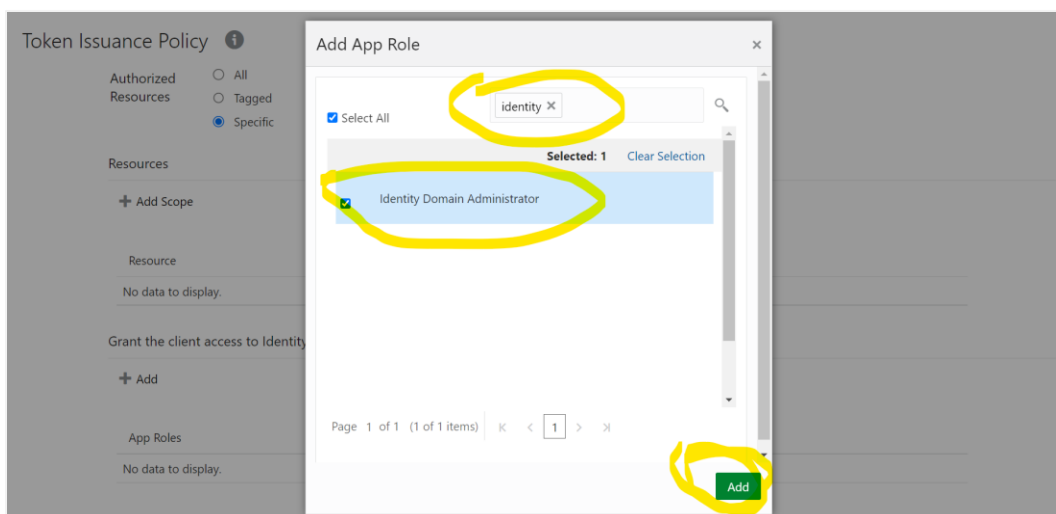
b. Grant the client access to Identity Cloud Service Admin APIs: - Click on **Add** button

### Add Confidential Application



c. In popup window search for “Identity Domain Administrator” and click on **Add**.

### Add App Role



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



### Add Confidential Application

Token Issuance Policy ⓘ

Authorized Resources  All  Tagged  Specific

Resources

+ Add Scope

Resource	Protected	Scope
No data to display.		

Grant the client access to Identity Cloud Service Admin APIs

+ Add

App Roles	Protected	
Identity Domain Administrator	No	x

- e. Click on **Next** button on top.
- iii. Expose APIs to Other Applications: - Select “**Skip for later**” and click on **Next**.

### Add Confidential Application

Add Confidential Application

< Back ✓ ✓ 3 ✓ 5 Next >

Details Client Resources Web Tier Policy Authorization

Expose APIs to Other Applications

Specify the APIs that need to be protected.

Configure this application as a resource server now  Skip for later

No Resources are protected by OAuth

- iv. Web Tier Policy: - Select “Skip for later” and click on Next button.

### Add Confidential Application

Add Confidential Application

< Back ✓ ✓ ✓ 4 ✓ Next >

Details Client Resources Web Tier Policy Authorization

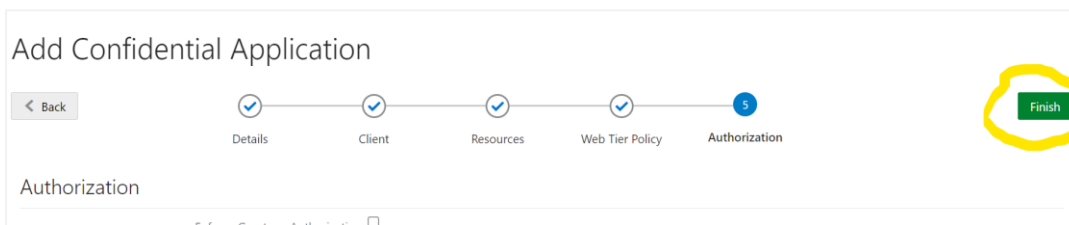
Web Tier Policy

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

Configure Web Tier Policy for this application  Skip for later

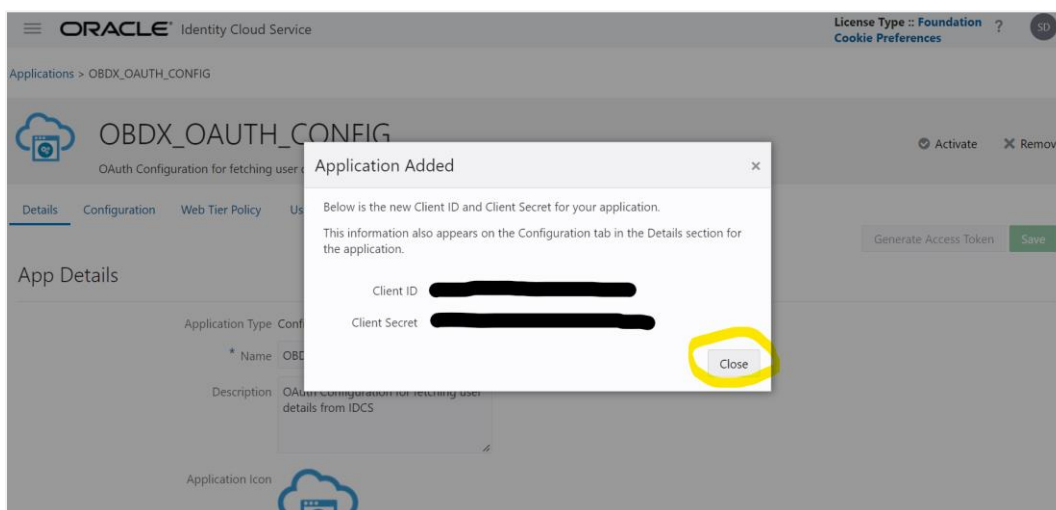
- v. Click on “Finish”

### Add Confidential Application



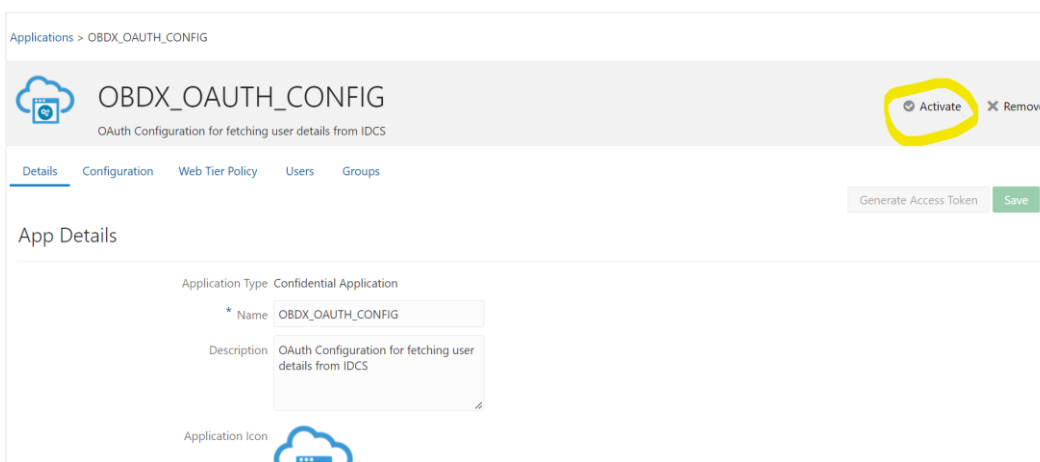
6. After finish click a popup window will open with “Client ID” and “Client Secret” as shown in below screenshot. Copy the Client Id and Client Secret to text file to keep it handy as it will be required in further steps. Once copied click on “Close”.

### Add Confidential Application



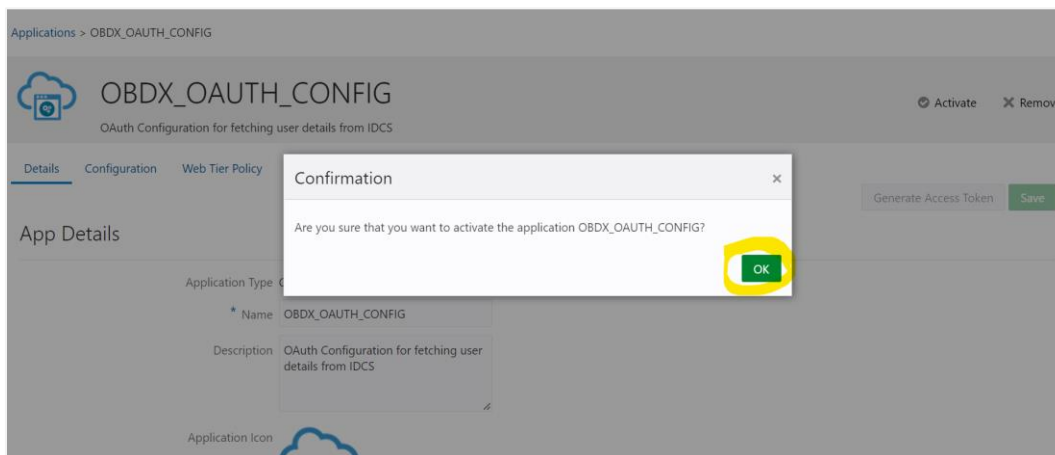
7. Click on “Activate” button to activate the application.

### Edit Application



8. Popup window asking confirmation to activate the application will open, click on “Ok” to activate the application.

### Edit Application



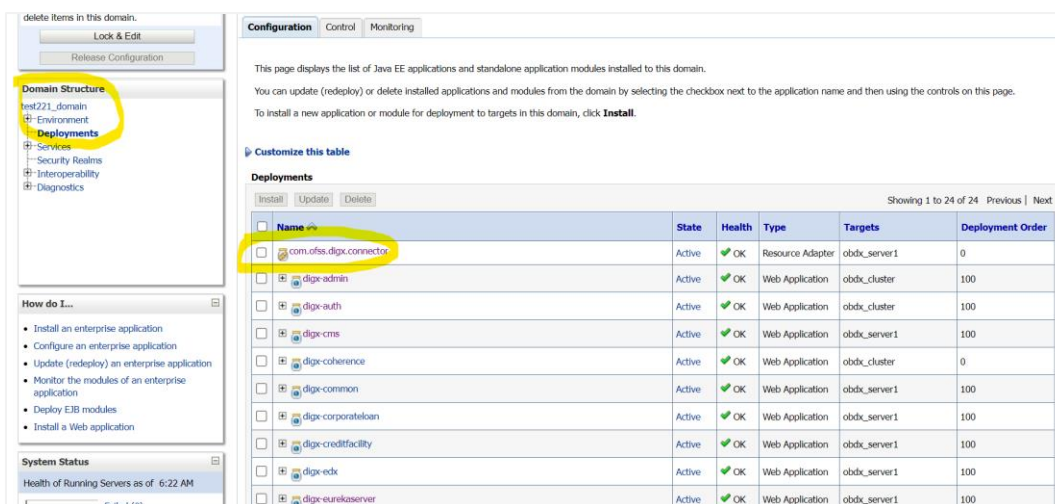
9. Logout from IDCS console.

## 3.7 WebLogic configuration for OAuth

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

1. Login to WebLogic console with admin login and navigate to “Domain Structure” → “Deployments”.
2. Click on “com.ofss.digx.connector”

### Deployments



3. Navigate to “Configuration” → “Outbound Connection Pools” tab and click on New.

## Outbound Connection Pools Configuration

The screenshot shows the Oracle WebLogic Administration Console interface. On the left is the 'Change Center' sidebar with sections for 'View changes and restarts', 'Domain Structure', 'How do I...', and 'System Status'. The main content area is titled 'Settings for com.ofss.digx.connector' and has several tabs: Overview, Deployment Plan, Configuration (highlighted in yellow), Security, Targets, Control, Testing, Monitoring, and Notes. Under the 'Configuration' tab, there are sub-tabs: General, Properties, Outbound Connection Pools (highlighted in yellow), Admin Objects, Workload, and Instrumentation. Below these is a text block explaining the table. The 'Outbound Connection Pool Configuration Table' has a 'New' button highlighted in yellow. The table has two columns: 'Groups and Instances' and 'Connection Factory Interface'. It contains one entry: 'javax.resource.cci.ConnectionFactory' with the same interface name. Navigation links 'Showing 1 to 1 of 1 Previous Next' are visible at the bottom right of the table.

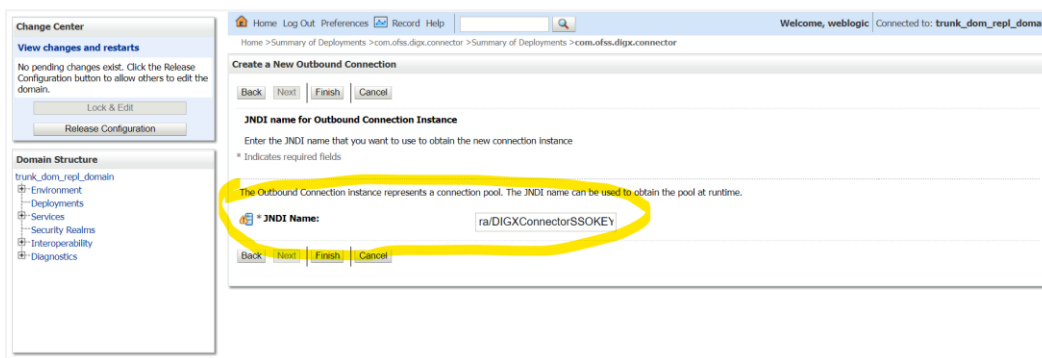
4. Select “javax.resource.cci.ConnectionFactory” and click on Next.

## Outbound Connection Groups Configuration

The screenshot shows the 'Create a New Outbound Connection' wizard in the Oracle WebLogic Administration Console. The 'Next' button is highlighted in yellow. The wizard asks 'In which outbound connection group do you want to create an instance?'. Below this is a table titled 'Outbound Connection Groups' with a 'New' button highlighted in yellow. The table lists one group: 'javax.resource.cci.ConnectionFactory', which is selected with a radio button. Navigation links 'Showing 1 to 1 of 1 Previous Next' are visible at the bottom right of the table.

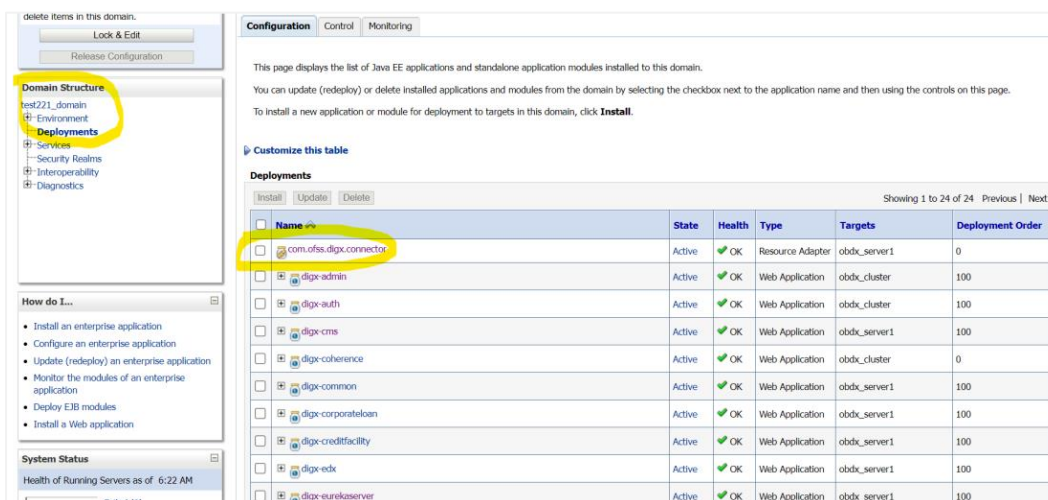
5. Enter JNDI name as ra/DIGXConnectorSSOKEY and click on Finish.

## JNDI Configuration for Outbound Connection



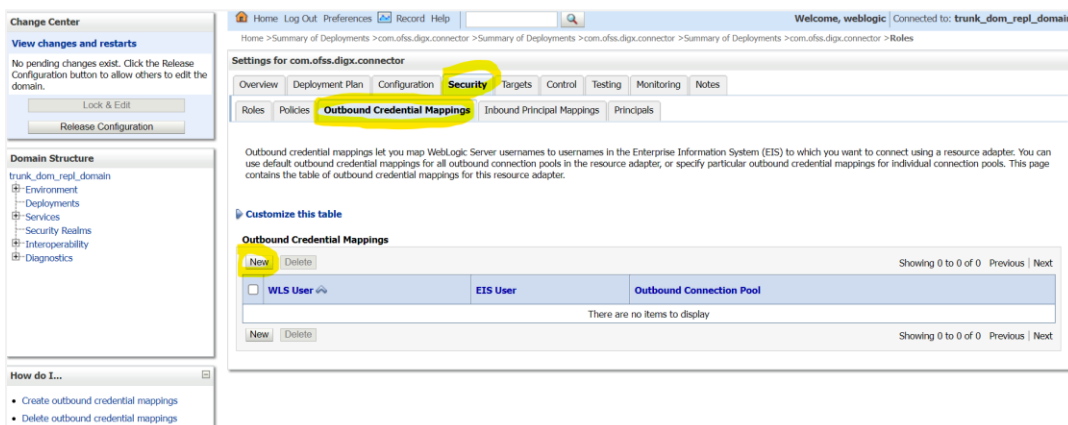
6. Again navigate to “Domain Structure” → “Deployments”.
7. Click on “com.ofss.digx.connector”.

## Deployments



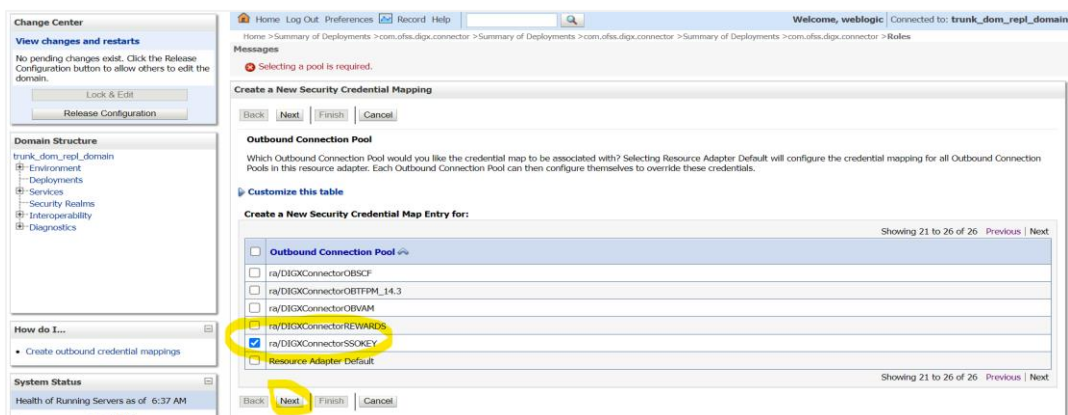
8. Navigate to “Security” → “Outbound Credentials Mapping” tab and click on New.

## Outbound Credentials Mappings



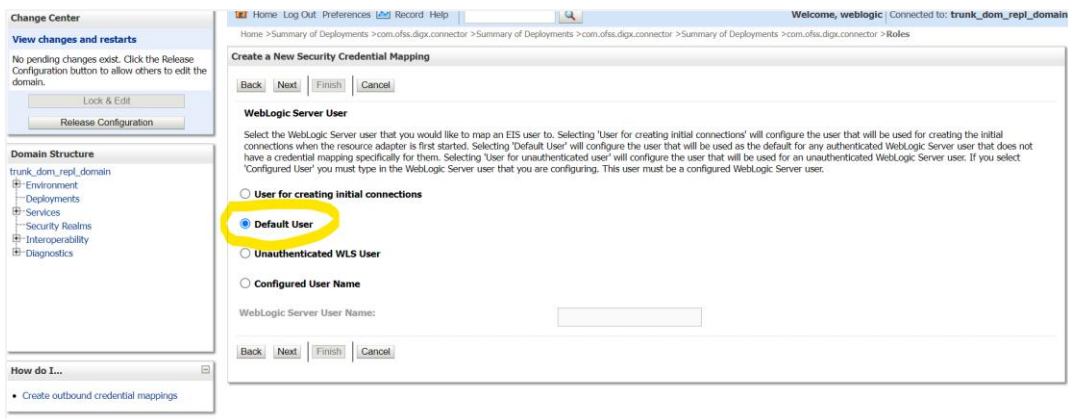
9. Select “ra/DIGXConnectorSSOKEY” by navigating using next button. Once selected as shown in below screenshot, click on Next.

## Create New Security Credentials Mappings



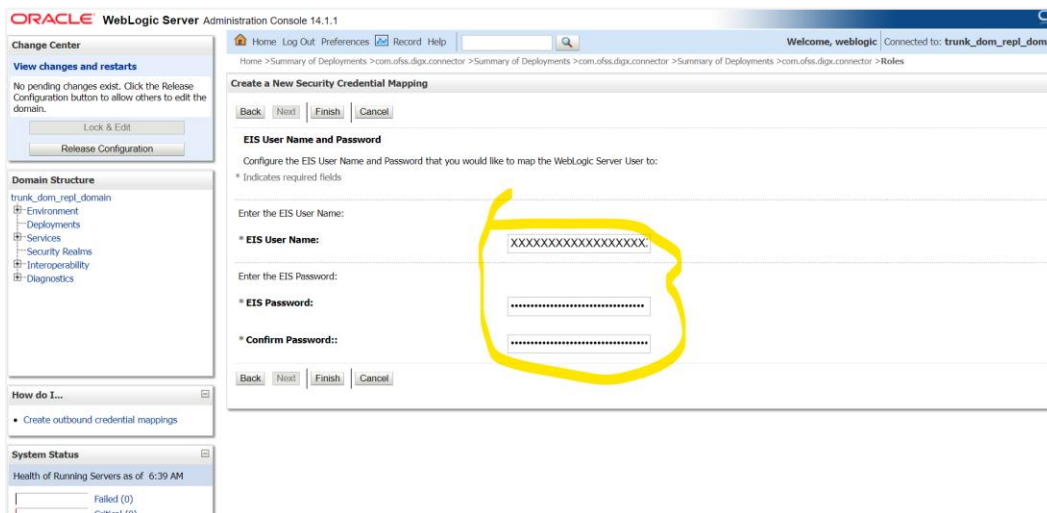
10. Select “Default User” and click on Next.

## Create New Security Credentials Mappings



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

### Configure EIS UIS Username / Password



12. Click on Finish to save the configuration.

## 3.8 OBDX configuration for OAuth

To enable IDCS out of the box support for OAuth, execute the below query.

```
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.

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.

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';
```

Restart all the servers in domain.

### 3.9 **Default Admin Configuration**

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



### 3.10 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,S
UMMARY_TEXT,CREATED_BY,CREATION_DATE,LAST_UPDATED_BY,LAST_UPDATED_D
ATE,OBJECT_STATUS,OBJECT_VERSION_NUMBER,EDITABLE,CATEGORY_DESCRIPTOR
N)
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.

[Home](#)