Oracle Access Manager Integration Oracle FLEXCUBE Universal Banking Release 14.3.0.0.0 May 2019



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### 1. Preface

# 1.1 Introduction

This manual discusses the integration of Oracle FLEXCUBE Universal Banking and the Oracle Access Manager system. The configurations required for proper functioning of this integration and further processing are documented in this manual.

### 1.2 Audience

This manual is intended for the following User/User Roles:

Role	Function
Back office data entry Clerks	Input functions for maintenance related to the interface.
Implementation team	Implementation of Oracle FLEXCUBE Universal Banking

### 1.3 Abbreviations

Abbreviation	Description
System	Unless specified, it shall always refer to Oracle FLECUBE
OAM	Oracle Access Manager
OHS	Oracle HTTP Server
OUD	Oracle Unified Directory
UBS	Universal Banking Solutions
SSO	Single Sign-on
LDAP	Lightweight Directory Access Protocol

# 1.4 **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.

# 1.5 **Organization**

This manual is organized into the following chapters:

Chapter 1	Preface gives information on the intended audience. It also lists the various chapters covered in this User Manual.
Chapter 2	Enabling Single Sign-on (SSO) with Oracle Access Manager discusses the method to integrate Oracle FLEXCUBE with Oracle Access Manager for Single Sign-on.



# 1.6 **Glossary of Icons**

This User Manual may refer to all or some of the following icons.

Icons	Function
X	Exit
+	Add row
1	Delete row
D	Option List

### 1.6.1 Related Documents

You may refer the following manual for more information

Oracle Access Manager User Manual (not included with Oracle FLEXCUBE User Manuals)

# 2. Enabling Single Sign-on with Oracle Access Manager

### 2.1 Introduction

For the purpose of single sign-on FLEXCUBE is qualified with Oracle Identity Management 12.2.1.3.0 (Fusion Middleware 12cR2) – specifically using the Access Manager component of Oracle Identity Management. This feature is available in FLEXCUBE since the release FC UBS V.UM 7.3.0.0.0.0.0.

This document provides an understanding as to how single sign-on can be enabled for a FLEXCUBE deployment using Oracle Fusion Middleware 12cR2.

In addition to providing a background to the various components of the deployment, this document also talks about Configuration to be done in FLEXCUBE and Oracle Access Manager to enable single sign-on using Oracle Internet Directory as a LDAP server.

# 2.2 **Background and Prerequisites**

### 2.2.1 Software Requirements

Oracle Identity and Access Management 12c R2 - 12.2.1.3.0

- JDK 1.8 for Linux x64
- Oracle Middleware (WLS) (12.2.1.3.0) software
- Oracle Access Manager 12.2.1.3.0
- Oracle Unified Directory 12.2.1.3.0
- Oracle Fusion Middleware Web Tier Utilities 12c 12.2.1.3.0
  - Oracle HTTP Server
- Optional: Oracle Adaptive Access Manager 12.2.1.3.0 (Strong Authentication purpose only)

#### **LDAP Directory Server**

Please make sure that the LDAP server to be used for FLEXCUBE Single Sign on deployment is certified to work with OAM.

List of few LDAP Directory servers supported as per OAM document (note – this is an indicative list. The conclusive list can be obtained from the Oracle Access Manager documentation. Though we have only use OUD for our testing purposes):

- Oracle Unified Directory
- Active Directory
- ADAM
- ADSI
- Data Anywhere (Oracle Virtual Directory)
- IBM Directory Server
- NDS
- Sun Directory Server
- Oracle Weblogic



For the purpose of achieving single sign on for FLEXCUBE in FMW 12cR2, it is necessary for the weblogic instance to have an explicit **Oracle HTTP server (OHS).** 

### 2.3 **Background of SSO related components**

### 2.3.1 Oracle Access Manager (OAM)

Oracle Access Manager consists of the Access System and the Identity System. The Access System secures applications by providing centralized authentication, authorization and auditing to enable single sign-on and secure access control across enterprise resources. The Identity System manages information about individuals, groups and organizations. It enables delegated administration of users, as well as self-registration interfaces with approval workflows. These systems integrate seamlessly.

The backend repository for the Access Manager is an LDAP-based directory service that can be a combination of a multiple directory servers, which is leveraged for two main purposes:

- As the store for policy, configuration and workflow related data, which is used and managed by the Access and Identity Systems
- As the identity store, containing the user, group and organization data that is managed through the Identity System and is used by the Access System to evaluate access policies.

#### 2.3.2 <u>LDAP Directory Server</u>

To integrate Flexcube with OAM to achieve Single Sign-on feature, Flexcube's password policy management, like password syntax and password expiry parameters will no longer be handled by Flexcube. Instead, the password policy management can be delegated to the Directory Server. All password policy enforcements would be on the LDAP user id's password and NOT Flexcube application users' passwords.

#### 2.3.3 WebGate/AccessGate

A WebGate is a Web server plug-in that is shipped out-of-the-box with Oracle Access Manager. The WebGate intercepts HTTP requests from users for Web resources and forwards it to the Access Server for authentication and authorization.

Whether you need a WebGate or an AccessGate depends on your use of the Oracle Access Manager Authentication provider. For instance, the:

Identity Asserter for Single Sign-On: Requires a separate WebGate and configuration profile for each application to define perimeter authentication. Ensure that the Access Management Service is On.

Authenticator or Oracle Web Services Manager: Requires a separate AccessGate and configuration profile for each application. Ensure that the Access Management Service is On.



### 2.3.4 Oracle Adaptive Access Manager

Oracle Adaptive Access Manager provides an innovative, comprehensive feature set to help organizations prevent fraud and misuse. Strengthening standard authentication mechanisms, innovative risk-based challenge methods, intuitive policy administration and integration across the Identity and Access Management Suite and with third party products make Oracle Adaptive Access Manager uniquely flexible and effective. Oracle Adaptive Access Manager provides real-time and batch risk analytics to combat fraud and misuse across multiple channels of access. Real-time evaluation of multiple data types helps stop fraud as it occurs. Oracle Adaptive Access Manager makes exposing sensitive data, transactions and business processes to consumers, remote employees or partners via your intranet and extranet safer.

Oracle Adaptive Access Manager provides an extensive set of capabilities including device fingerprinting, real-time behavioral profiling and risk analytics that can be harnessed across both Web and mobile channels. It also provides risk-based authentication methods including knowledge-based authentication (KBA) challenge infrastructure with Answer Logic and OTP Anywhere server-generated one-time passwords, delivered out of band via Short Message Service (SMS), e-mail or Instant Messaging (IM) delivery channels. Oracle Adaptive Access Manager also provides standard integration with Oracle Identity Management, the industry leading identity management and Web Single Sign-On products, which are integrated with leading enterprise applications.

## 2.4 Assumptions

- The steps provided below assume that FLEXCUBE has already been deployed and is working (without single sign-on)
- For simplicity, the Steps followed in the document used non-ssl configuration. For production environment it is recommended to use SSL configuration.

### 2.5 Install and Configure Oracle Access Manager

#### 2.5.1 Installation of Infrastructure and OAM

1. Run the following command to install WebLogic Server and complete all the steps:

cd /stage

unzip fmw\_12.2.1.3.0\_infrastructure\_Disk1\_1of1.zip

java -jar /stage/fmw 12.2.1.3.0 infrastructure.jar

2. After the above installation, install OAM binary in the above installed directory.

java -jar /stage/fmw\_12.2.1.3.0\_idm.jar

#### 2.5.2 Run the Repository Creation Utility

 Launch a terminal window and enter the following command cd /u01/app/oracle/product/middleware/oracle\_common/bin ./rcu

2. Follow the table below to guide you through the installation screens:

Step	Window Description	Choices or Values
1.	Welcome1	Click Next



2.	Create Repository	System Load and Product Load
3.	Database Connection Details	Database Type: Oracle Database Host Name: oam.example.com Port: 1521 Service Name: orcl.example.com Username: sys Password: Welcome1 Role: SYSDBA Click OK in Checking Prerequisites window
4.	Checking Prerequisites	Click <b>OK</b>
5.	Select Components	Create a new prefix: DEV Select schema: Oracle Access Manager Click OK in Checking Prerequisites window
6.	Schema Passwords	Use same passwords for all schemas Password: Welcome1 Confirm Password: Welcome1
7.	Map Tablespaces	Click <b>Next</b> Click <b>OK</b> in Confirmation and Creating Tablespaces window
8.	Summary	Click Create
9.	Completion Summary	Click Close

### 2.5.3 Configure the Oracle Access Management 12c Domain

1. Launch a terminal window and enter the following command if RCU database is in RAC else follow step 2.

 ${\tt cd/u01/app/oracle/product/middleware/oracle\_common/common/bin./config.sh}$ 

2. If RCU database is not RAC then follow this step. Edit config\_internal.sh in /u01/app/oracle/product/middleware/oracle\_common/common/ and add - Doracle.jdbc.fanEnabled=false in JVM\_ARGS and save the file.

Example:
JVM\_ARGS="-Dpython.cachedir=/tmp/cachedir -Doracle.jdbc.fanEnabled=false
\${JVM\_D64} \${JVM\_D64} \${UTILS\_MEM\_ARGS} \${SECURITY\_JVM\_ARGS}
\${CONFIG\_JVM\_ARGS}"



### Launch ./config.sh

3. Follow the table below to guide you through the configuration screens:

Step	Window Description	Choices or Values
1.	Create Domain	Select Create a new domain  Domain  Location: /u01/app/oracle/admin/domains/oam_domain
2.	Templates	Create Domain Using Product Templates Select: Oracle Access Management Suite
3.	Application Location	Application Location:/u01/app/oracle/admin/applications/oam_domain
4.	Administrator Account	Name: weblogic Password: Welcome1 Confirm: Welcome1
5.	Domain Mode and JDK	Domain Mode: Production JDK: Oracle Hotspot
6.	Database Configuration Type	Host Name: oam.example.com DMS/Service: orcl.example.com Port: 1521 Schema Owner: DEV_STB Schema Password: Welcome1  Click Get RCU Configuration If successful click Next
7.	Component Datasources	Click Next
8.	JDBC Component Schema Test	Click Next
9.	Advanced Configuration	Select Node Manager, and Topology
10.	Node Manager	Node Manager Type: Per Domain Default Location Username: weblogic Password: Welcome1 Confirm Password: Welcome1



11.	Managed Servers	Click Next
12.	Clusters	Click Next
13.	Server Templates	Click Next
14.	Coherence Clusters	Click Next
15.	Machines	Click Add Name: oam_machine
16.	Assign Servers to Machines	Select Admin Server, oam_server1 and oam_policy_mgr1. Select oam_machine and click the right arrow to move the servers under oam_machine
17.	Virtual Targets	Click Next
18.	Partitions	Click Next
19.	Configuration Summary	Click Create
20.	Configuration Progress	Click Next
21.	End of Configuration	Click Finish

### 2.5.4 Start the Servers

1. Launch a terminal window as oracle and enter the following commands to star the Oracle Access Management 12c AdminServer

cd /u01/app/oracle/admin/domains/oam\_domain/ ./startWebLogic.sh

- 2. In another terminal window start Node Manager by running the following command: nohup ./startNodeManager.sh
- 3. Test the installation

Start a browser and access the Oracle Access Management Console at http://oam.example.com:7001/oamconsole. Login as weblogic/Welcome1.

Access http://oam.example.com:14150/access and login with weblogic/Welcome1.

# 2.6 Install and Configure Oracle Unified Directory

### 2.6.1 <u>Install Oracle Unified Directory</u>

1. Launch a terminal window and enter the following command:



java -jar fmw\_12.2.1.3.0\_oud\_generic.jar

2. Follow the table below to guide you through the installation screens. For internal testing purpose we have used Standalone Installation and uploaded some sample user data.

Step	Window Description	Choices or Values
1.	Welcome	Click Next
2.	Auto Updates	Skip Auto Updates
3.	Installation Location	Oracle Home: /u01/app/oracle/product/middleware/oud
4.	Installation Type	Standalone Oracle Unified Directory Server (Managed independently of WebLogic Server)
5.	Prerequisite Checks	Click Next
6.	Installation Summary	Click Install
7.	Installation Progress	Click Next
8.	Installation Complete	Click <b>Finish</b>

### 2.6.2 Configure Oracle Unified Directory

- 1. Launch a terminal window as oracle and enter the following command:
- 2. cd /u01/app/oracle/product/middleware/oud/oud

./oud-setup

3. Follow the table below to guide you through the configuration screens:

Step	Window Description	Choices or Values	



1.	Welcome	Click <b>Next</b>
2.	Server Administration Settings	<pre>Instance Path: /u01/app/oracle/product/middlewar e/oud/asinst_1/OUD Host Name: oam.example.com Password: Welcome1 Confirm Password: Welcome1</pre>
3.	Ports	Select Checkbox: LDAPS: Enable on Port
4.	Topology Options	Select: This will be a standalone server
5.	Directory Data	Select: Leave Database Empty
6.	Oracle Components Integration	Click <b>Next</b>
7.	Server Tuning	Click Next
8.	Review	Click Finish
9.	Finished	Click Close

<sup>4.</sup> Import sample identity data(empl.ldif) including some users and groups. Run the following command to populate the oud1 directory server with sample data:

cd /u01/app/oracle/product/middleware/oud/asinst\_1/OUD/bin

./Idapmodify -p 1389 -D "cn=Directory Manager" -w Welcome1 -a -c -f /stage/example.ldif

### 2.6.3 Configure OUD as the Identity Store in OAM

- 1. Launch a browser and login to the OAM Console (http://oam.example.com:7001/oamconsole) as weblogic/Welcome1.
- 2. Click the Configuration tab (top right), then click User Identity Stores. Click Create in the OAM ID Stores section.
- 3. Specify the values as shown:

o Store Name: OUD Store

o **Store Type**: OUD: Oracle Unified Directory

o **Location**: oam.example.com:1389



o **Bind DN**: cn=Directory Manager

Password: Welcome1Login ID Attribute: uid

o User Password Attribute : userPassword

o **User Search Base**: ou=People, dc=example, dc=com

o Group Name Attribute: cn

- o **Group Search Base**: ou=Groups, dc=example, dc=com
- 4. Click **Test Connection**. Assuming the connection works, click **OK** in the Connection Status window.
- 5. Click **Apply** to save the definition.
- 6. Access the User Identity Stores tab, and set Default Store to OUD Store, and then Click Apply.
- 7. Click Application Security, and then Authentication Modules under the Plug-ins tile.
- 8. Click Create > Create LDAP Authentication Module. Enter the following values and click Apply:

o Name: LDAPOverOUD

o User Identity Store: OUD Store

 Click the Launch Pad tab, and click the Authentication Schemes link in the Access Manger tile. In the Search Authentication Schemes page, click Search. Select the LDAPScheme row in the search result and click Edit.

In the LDAPScheme, click Duplicate. It creates a new scheme with the name 'Copy of LDAP Scheme'. Change this scheme as follows, and then click Apply.

#### **Basic Style Authentication Scheme**

Enter the below details and click 'Apply':

o Name : Name of the Authentication Scheme

Authentication Level : 1

Challenge Method : BASIC

Challenge Redirect URL: /oam/server

o Authentication Module : LDAPOverOUD

Refer the section 'Creating Authentication Module 2.6.2' of this document.

Challenge Parameters : ssoCookie=http

contextType=default
contextValue=/oam

challenge url=/CredCollectServlet/BASIC

#### Form Style Authentication Scheme

Enter the below details and click 'Apply':

Name : Name of the Authentication Scheme

Authentication Level : 2

Challenge Method : FORM

Challenge Redirect URL : /oam/server

Authentication Module : LDAPOverOUDChallenge URL : /pages/login.jsp

Context Type : defaultContext Value : /oam

Challenge Parameters : ssoCookie=http

# 2.7 <u>Install and Configure Oracle HTTP Server 12c</u>

### 2.7.1 <u>Install Oracle HTTP Server</u>

Launch a terminal window and enter the following command to install OHS:
 cd /stage

 $chmod +x \ fmw\_12.2.1.3.0\_ohs\_linux64.bin$ 

./fmw\_12.2.1.3.0\_ohs\_linux64.bin

2. Follow the table below to guide you through the installation screens:

Step	Window	Choices or Values
1.	Welcome	Click Next
2.	Auto Updates	Click Next
3.	Installation Location	Oracle Home: /u01/app/oracle/product/middleware/
4.	Installation Type	Collocated HTTP Server (Managed through WebLogic Server)
5,	Prerequisite Checks	Click Next
6.	JDK Selection	JDK Home: /u01/app/oracle/product/jdk
7.	Prerequisite Checks	Click Next
8.	Installation Summary	Click <b>Install</b> .  The installation screen will appear*
9.	Installation Complete	Click <b>Finish</b>

### 2.7.2 Configure HTTP Server

1. Launch a terminal window as oracle and enter the following command to stop the WebLogic Admin Server:

cd /u01/app/oracle/admin/domains/oam\_domain/bin ./stopWebLogic.sh

 Run the following command to launch the Configuration Wizard: cd /u01/app/oracle/product/middleware/oracle\_common/common/bin ./config.sh

3. Follow the table below to guide you through the configuration screens:

Step	Window	Choices or Values
1.	Create Domain	Select Update an existing domain  Domain Location: /u01/app/oracle/admin/domains/oam_domain
2.	Templates	Oracle HTTP Server (Collocated)
3.	Database Configuration Type	Get RCU Configuration Click Next
4.	Component Datasources	Click Next
5,	JDBC Component Schema Test	Click Next
6.	Advanced Configuration	System Components
7.	System Components	Click Add System Component: ohs1
8.	OHS Server	Click Next
9.	Machine	Click Next
10.	Assign System Components to Machines	Select <b>ohs1</b> and <b>oam_machine</b> and click the arrow to move ohs1 under oam_machine
11.	Configuration Summary	Click Update
12.	Configuration Progress	Click Next
13.	End of Configuration	Click Finish

#### 2.7.3 Start the Servers

1. Launch a terminal window and run the following command to start the WebLogic AdminServer. Enter weblogic/Welcome1 as the username and password when prompted:

cd /u01/app/oracle/admin/domains/oam\_domain/bin

./startWebLogic.sh

2. In another terminal window run the following command to stop and start Node Manager:

nohup ./startNodeManager.sh &

3. In the same terminal window run the following command to start Oracle HTTP Server.

Enter Welcome1 as the password when prompted:

cd /u01/app/oracle/admin/domains/oam\_domain/bin

./startComponent.sh ohs1

4. Following to show after OHS successfully started-

```
Successfully Connected to Node Manager.

Starting server ohsl ...

Successfully started server ohsl ...

Successfully disconnected from Node Manager.

Exiting WebLogic Scripting Tool.

Done
```

5. Launch a browser and check the OHS is accessible by accessing the URL http://oam.example.com:7777

# 2.8 Creating OAM 12c Webgate

Follow the below steps to create a Webgate:

1. Launch a terminal window as oracle and enter the following command:

cd /u01/app/oracle/product/middleware/webgate/ohs/tools/deployWebGate

./deployWebGateInstance.sh -w \

/u01/app/oracle/admin/domains/oam\_domain/config/fmwconfig/components/OHS/instance/ohs1 \

- -oh /u01/app/oracle/product/middleware/
- 2. Check that a webgate directory and subdirectories were created:

Is -lart

/u01/app/oracle/admin/domains/oam\_domain/config/fmwconfig/components/OHS/instance/ohs1/web gate/

total 16

drwxr-x--- 7 oracle oinstall 4096 Aug 16 07:12 ..

drwxr-xr-x 4 oracle oinstall 4096 Aug 16 07:12.

drwxr-xr-x 3 oracle oinstall 4096 Aug 16 07:12 tools



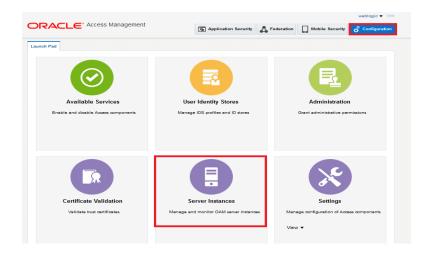
drwxr-xr-x 3 oracle oinstall 4096 Aug 16 07:12 config

3. Run the following command:

 $export\ LD\_LIBRARY\_PATH=\$LD\_LIBRARY\_PATH:/u01/app/oracle/product/middleware/libcd/u01/app/oracle/product/middleware/webgate/ohs/tools/setup/InstallTools$ 

./EditHttpConf -w

- -oh /u01/app/oracle/product/middleware/
- 4. Register the WebGate with OAM by click on 'Server Instances' under Configuration.



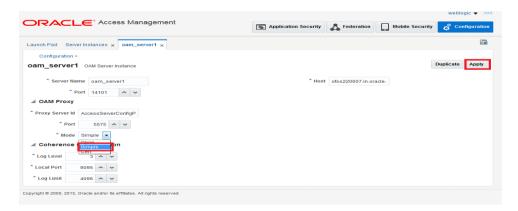
5. Click on 'Search'.

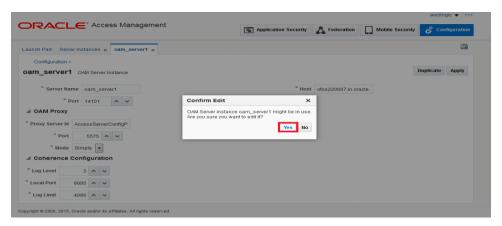


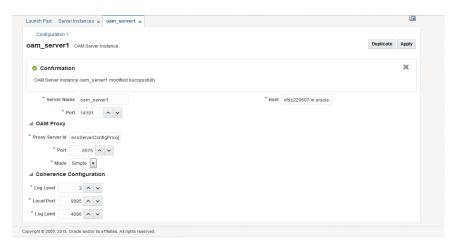
6. Edit oam server1.



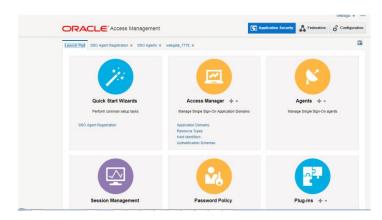
7. Modify the Mode from Open to Simple and click on 'Apply'.



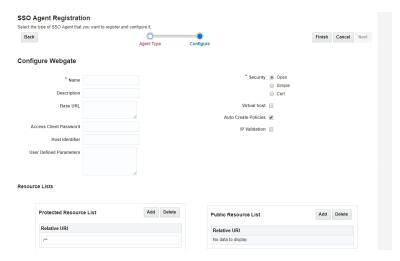




#### 8. Click on SSO Agent Registration



#### 9. Fill the value and click Finish-



Select Agent Type: Webgate and click Next.

On the Configure WebGate page enter details as follows, and then click Finish:



Name : Custom Webgate Name

Base URL : The host and port of the computer on which the Web server for the

Webgate is installed. For example, http://example\_host:port or

https://example\_host:port. The port number is optional.

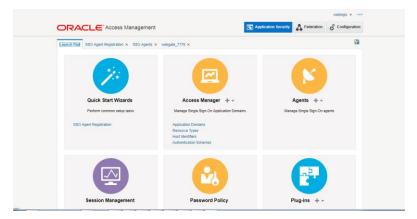
Security : Simple

Protected Resource List : for FCUBS : /FCJNeoWeb

For FCIS : /FCISNeoWeb

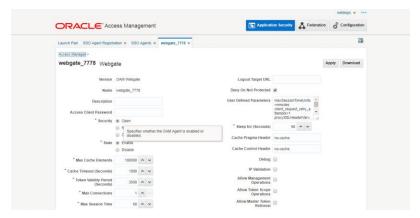
User Defined Parameters : filterOAMAuthnCookie=false

10. Click "Agent" in Application Security

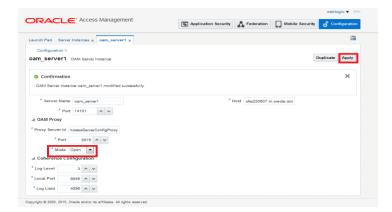


11. Click Search and open the Webgate Agent created in the above step.

Change the value in User Definer Parameters to below proxySSLHeaderVar=nonssl



- 12. Click on 'Apply'.
- 13. Change the value of Mode back to Open in oam\_server1 on Server Instance and click 'Apply'.



- 14. Click **Download** and save the webgate\_7777.zip to /stage.
- Copy the WebGate zip in the below directory and unzip-/domains/OAM\_domain/config/fmwconfig/components/OHS/ohs1/webgate/config
- 16. Modify the value in httpd.conf present in below location:

/domains/OAM\_domain/config/fmwconfig/components/OHS/ohs1/

Add the below text at the end of the file

include "webgate.conf"

17. Restart the Servers

Launch a terminal window as oracle and run the commands below to stop all the servers. Enter weblogic and Welcome1 for username and password if prompted: cd /u01/app/oracle/admin/domains/oam\_domain/bin

- ./stopComponent.sh ohs1
- ./stopNodeManager.sh
- ./stopManagedWebLogic.sh oam policy mgr1
- ./stopManagedWebLogic.sh oam\_server1
- ./stopWebLogic.sh

Run the following commands launching new terminal windows as oracle to start the servers: cd /u01/app/oracle/admin/domains/oam\_domain/bin

- ./startWebLogic.sh
- ./startManagedWebLogic.sh oam\_server1
- ./startManagedWebLogic.sh oam\_policy\_mgr1
- ./startNodeManager.sh
- ./startComponent.sh ohs1

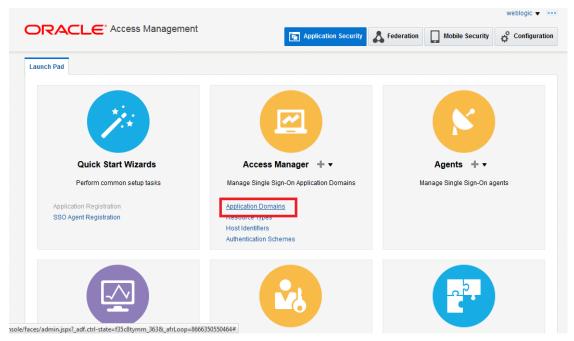
#### 2.8.1 Post OAM Webgate 12c Creation

Follow the below steps to configure the webgate created.

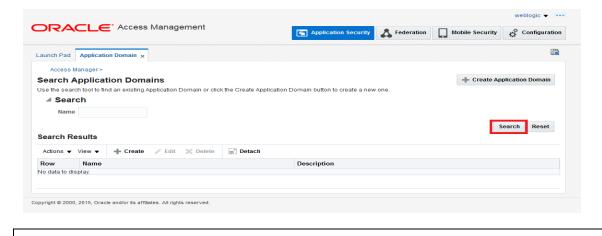


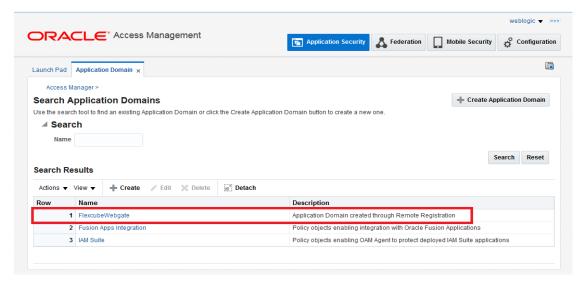
### 2.8.1.1 Application Domains Changes

18. Click on 'Application Domains' in Access Manager under Application Security

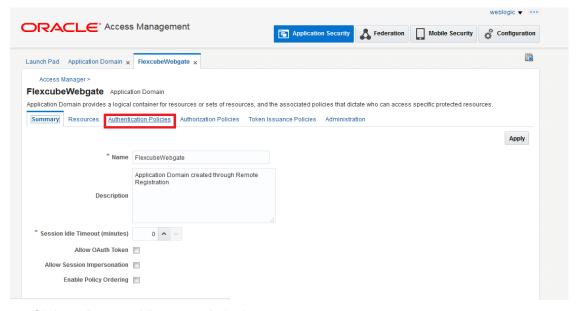


19. Click on 'Search' to find the Webgate.

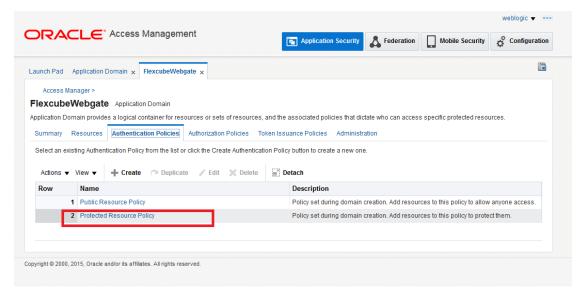




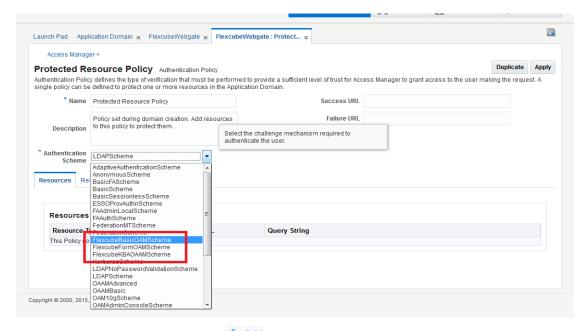
20. Click on 'Authentication Polices'.



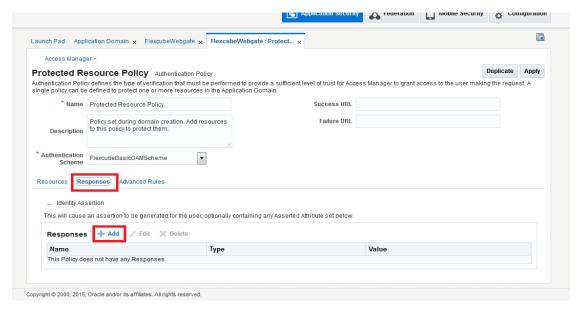
21. Click on 'Protected Resource Policy'.



22. Choose the Authentication Scheme created earlier in 'Creating Authentication Scheme'.



23. Click 'Responses' tab and click \* Add button to Add 'DN' variable to the Response Header.



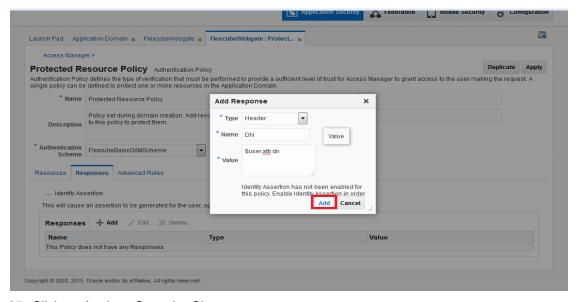
24. Enter the following values in the Add Response Window:

Type : Header

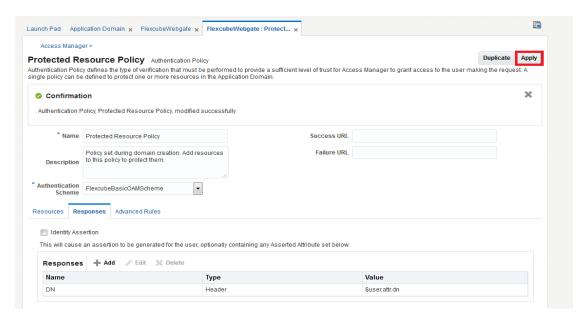
Name : DN

Value : \$user.attr.dn

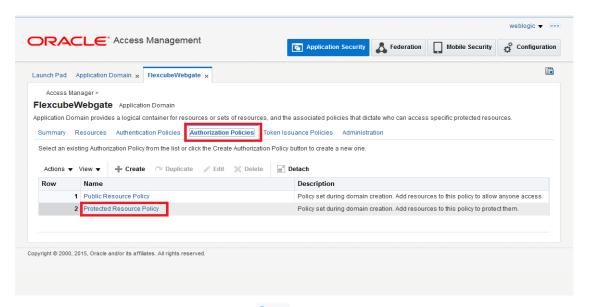
Click on Add button



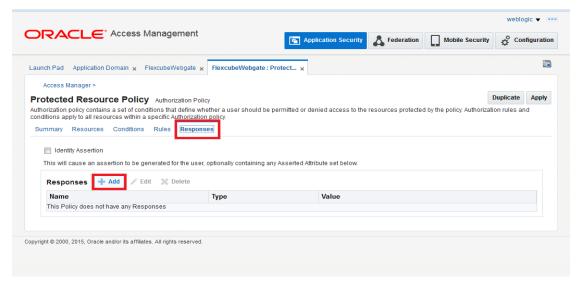
25. Click on Apply to Save the Changes



26. Click on 'Authorization Policies' and then click on 'Protected Resource Policy'.



27. Click on 'Response' tab and click on \*\* Add button to Add 'DN' variable to the Response Header.



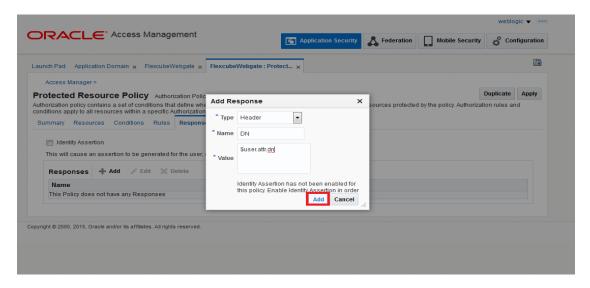
28. Enter the following values in the Add Response Window:

Type : Header

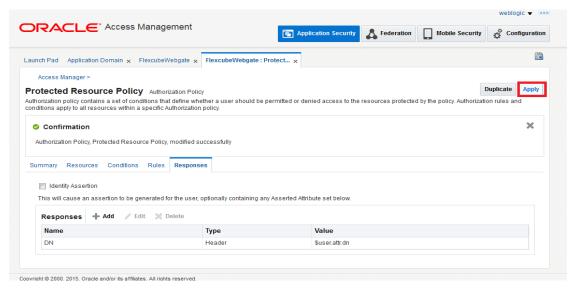
Name : DN

Value : \$user.attr.dn

Click on Add button



29. Click on 'Apply' to Save the changes.



### 2.8.1.2 Copying Generated Files and Artifacts to the Oracle HTTP Server WebGate Instance

Perform the following steps to copy the artifacts generated while creating the Oracle 12c Webgate to the Webgate installation directory:

- Navigate to <DOMAIN\_HOME>/output/\$WebgateAgentName
- Select the following files

ObAccessClient.xml

password.xml

cwallet.sso

cwallet.sso.lck

Copy the files to <ORACLE\_MIDDLEWARE>/<ORACLE\_WIBTIER\_HOME> /instances/instance1/ config/OHS/ohs1/webgate/config/

/Middleware/OAM\_Home/user\_projects/domains/OAM\_domain/config/fmwconfig/components/OHS/in stances/ohs1/webgate/config

· Select the remaining 2 files

aaa\_key.pem

aaa cert.pem

Copy the files to <ORACLE\_MIDDLEWARE>/<ORACLE\_WIBTIER\_HOME>
/instances/instance1/ config/OHS/ohs1/webgate/config/simple



### 2.8.1.3 Configuring mod\_wl\_ohs for Oracle HTTP server Routing

To enable the Oracle HTTP Server instances to route to applications deployed on the Oracle Weblogic Server, add the directive shown below to the mod\_wl\_ohs.conf file available in <ORACLE\_MIDDLEWARE> /<ORACLE\_WEBTIER\_HOME>/instances/instance1/config/OHS/ohs1.

<Location /FCJNeoWeb>

SetHandler weblogic-handler

WebLogicHost ofss00002.in.oracle.com

WeblogicPort 7002

WLProxySSL OFF

SecureProxy OFF

WLSSLWallet

"<ORACLE\_MIDDLEWARE>/<ORACLE\_WEBTIER\_HOME>/instances/instance1/config/OHS/ohs1/keystores/default"

</Location>

**Note:** In the above example, ofss00002.in.oracle.com is the server name where the Flexcube Application is deployed, 7002 is the SSL port and FCJNeoWeb is the context root of the FLEXCUBE application

#### 2.8.1.4 Restart the Servers

1. Launch a terminal window as oracle and run the commands below to stop all the servers. Enter weblogic and Welcome1 for username and password if prompted:

cd /u01/app/oracle/admin/domains/oam domain/bin

./stopComponent.sh ohs1

./stopNodeManager.sh

./stopManagedWebLogic.sh oam policy mgr1

./stopManagedWebLogic.sh oam\_server1

./stopWebLogic.sh

2. Run the following commands launching new terminal windows as oracle to start the servers:

cd /u01/app/oracle/admin/domains/oam\_domain/bin

./startWebLogic.sh

./startManagedWebLogic.sh oam server1

./startManagedWebLogic.sh oam\_policy\_mgr1

./startNodeManager.sh

./startComponent.sh ohs1



# 2.8.1.5 <u>Testing the FCUBS Application through WebGate</u>

Close any open existing browsers and launch a new one. Access the OHS URL: http://oam.example.com:7777/FCJNeoWeb



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