

Oracle Access Manager Integration
Oracle Access Manager Integration
Oracle FLEXCUBE Universal Banking
Release 12.87.06.0.0

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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 Investor Servicing

1.3 Abbreviations

Abbreviation	Description
System	Unless specified, it shall always refer to Oracle FLEXCUBE
OAM	Oracle Access Manager
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	<i>Preface</i> gives information on the intended audience. It also lists the various chapters covered in this User Manual.
Chapter 2	<i>Enabling Single Sign-on (SSO) with Oracle Access Manager</i> 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
	Exit
	Add row
	Delete row
	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 11.1.2 (Fusion Middleware 11gR2) – specifically using the Access Manager component of Oracle Identity Management. This feature is available in FLEXCUE since the release FC UBS V.UM 7.3.0.0.0.0 .

This document provides an understanding as to how single sign-on can be enabled for a FLEXCUBE deployment using Oracle Fusion Middleware 11gR2.

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 11g R2 - 11.1.2.3.0

- Oracle Access Manager – 11.1.2.3.0
- Oracle Fusion Middleware Web Tier Utilities 11g Patch Set 6 - 11.1.1.9.0
 - Oracle HTTP Server
- Oracle Access Manager OHS 11gR2 WebGates - 11.1.2.3.0
- Optional: Oracle Adaptive Access Manager – 11.1.2.3.0 (Strong Authentication purpose only)

Note *: In case of **java.security.InvalidKeyException: Illegal key size** error in Admin Server, while starting the OAM Server based applications, then refer Oracle Support Document ID: **1901181.1**.

Note: Refer Oracle Support Document: **1935703.1**, to have skip the escape sequence \ (slash) in front of, (comma) in Oracle 11gR2 OAM request header values

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 OID for our testing purposes):

- Oracle Internet Directory
- Active Directory
- ADAM
- ADSI
- Data Anywhere (Oracle Virtual Directory)

- IBM Directory Server
- NDS
- Sun Directory Server

Oracle Weblogic (10.3.6)

For the purpose of achieving single sign on for FLEXCUBE in FMW 11gR2, 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 LDAP Directory Server

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 Configuration

2.4.1 Pre-requisites

- The steps provided below assume that FLEXCUBE has already been deployed and is working (without single sign-on)
- The below provided steps assume that Oracle Access Manager and the LDAP server have been installed already and the requisite setup are already done with respect to connecting the two along with Weblogic's Identity Asserter.

2.5 Enabling SSL for Weblogic and OAM Console

2.5.1 Self-signed Certificate Creation:

To enable SSL mode, WebLogic requires a keystore which contains private and trusted certificates. We have to use the same version of JDK (which is used by Weblogic Domain) to create the keystore and certificates, otherwise it may lead to many difficulties (suggested by Oracle Support).

Keytool utility available in Java JDK will be used to create Keystore. In command prompt set PATH to the JDK\bin location. Follow the below steps to create keystore and self-signed certificates:

2.5.1.1 Keystore Creation

```
keytool -genkey -keystore <keystore_name.jks> -alias <alias_name> -dname "CN=<hostname>,
OU=<Organization Unit>, O=<Organization>, L=<Location>, ST=<State>, C=<Country_Code>" -keyalg
<Key Algorithm> -sigalg <Signature Algorithm> -keysize <key size> -validity <Number of Days> -keypass
<Private key Password> -storepass <Store Password>
```

For example:

```
keytool -genkey -keystore AdminFlexcubeKeyStore.jks -alias FlexcubeCert -dname
"CN=ofss00001.in.oracle.com, OU=OFSS, O=OFSS, L=Chennai, ST=TN, C=IN" -keyalg "RSA" -sigalg
"SHA1withRSA" -keysize 2048 -validity 3650 -keypass Password@123 -storepass Password@123
```

Note: CN=ofss00001.in.oracle.com is the Host Name of the weblogic server

2.5.1.2 Export private key as certificate

```
keytool -export -v -alias <alias_name> -file <export_certificate_file_name_with_location.cer> -keystore <keystore_name.jks> > -keypass <Private key Password> -storepass <Store Password>
```

For example:

```
keytool -export -v -alias FlexcubeCert -file AdminFlexcubeCert.cer -keystore AdminFlexcubeKeyStore.jks -keypass Password@123 -storepass Password@123
```

If successful the following message will be displayed :

Certificate stored in file < AdminFlexcubeCert.cer>

2.5.1.3 Import as trusted certificate

```
keytool -import -v -trustcacerts -alias rootcacert -file <export_certificate_file_name_with_location.cer> -keystore <keystore_name.jks> > -keypass <Private key Password> -storepass <Store Password>
```

For example:

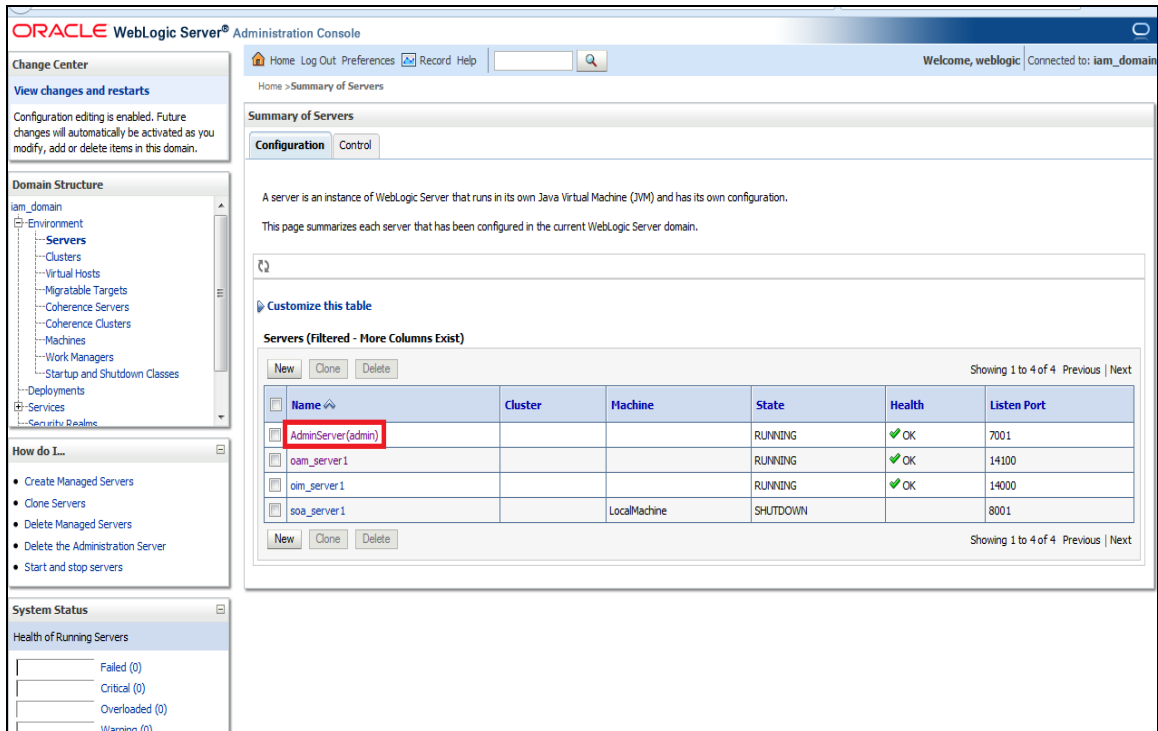
```
keytool -import -v -trustcacerts -alias rootcacert -file AdminFlexcubeCert.cer -keystore AdminFlexcubeKeyStore.jks -keypass Password@123 -storepass Password@123
```

References: Oracle Support Articles (Article ID 1281035.1, Article ID 1218695.1), in case of Certificates issued by the Trusted Authorities

2.5.2 Configuring Weblogic Console

After domain creation, follow the below steps to enable SSL in weblogic Admin server and OAM Server.

2.5.2.1 Select Admin Server to enable SSL options



The screenshot displays the Oracle WebLogic Server Administration Console interface. The main content area shows the 'Summary of Servers' page, which includes a table of configured servers. The 'AdminServer(admin)' server is highlighted with a red box. The table lists the following servers:

Name	Cluster	Machine	State	Health	Listen Port
AdminServer(admin)			RUNNING	OK	7001
oam_server1			RUNNING	OK	14100
oim_server1			RUNNING	OK	14000
soa_server1		LocalMachine	SHUTDOWN		8001

2.5.2.2 Follow the steps in General Tab as shown below:

1. Select SSL Listen Port Enabled, Client Cert Proxy Enabled, Weblogic Plug-In Enabled.
2. Click on Save.

General Cluster Services Keystores SSL Federation Services Deployment Migration Tuning Overload Health Monitoring Server Start Web Services

Save

Use this page to configure general features of this server such as default network communications.

View JNDI Tree

Name: AdminServer An alphanumeric name for this server instance. [More Info...](#)

Machine: (None) The WebLogic Server host computer (machine) on which this server is meant to run. [More Info...](#)

Cluster: (Standalone) The cluster, or group of WebLogic Server instances, to which this server belongs. [More Info...](#)

Listen Address: The IP address or DNS name this server uses to listen for incoming connections. [More Info...](#)

Listen Port Enabled Specifies whether this server can be reached through the default plain-text (non-SSL) listen port. [More Info...](#)

Listen Port: 7001 The default TCP port that this server uses to listen for regular (non-SSL) incoming connections. [More Info...](#)

SSL Listen Port Enabled Indicates whether the server can be reached through the default SSL listen port. [More Info...](#)

SSL Listen Port: 7002 The TCP/IP port at which this server listens for SSL connection requests. [More Info...](#)

Client Cert Proxy Enabled Specifies whether the HttpClusterServlet proxies the client certificate in a special header. [More Info...](#)

Java Compiler: javac The Java compiler to use for all applications hosted on this server that need to compile Java code. [More Info...](#)

Diagnostic Volume: Low Specifies the volume of diagnostic data that is automatically produced by WebLogic Server at run time. Note that the WLDLF diagnostic volume setting does not affect explicitly configured diagnostic modules. For example, this controls the volume of events generated for JRockit FlightRecorder. [More Info...](#)

Advanced

Virtual Machine Name: iam_domain_AdminSe When WLS is running on JRMVE, this specifies the name of the virtual machine running this server. [More Info...](#)

WebLogic Plug-In Enabled Specifies whether this server uses the proprietary WL-Proxy-Client-IP header, which is recommended if the server instance will receive requests from a proxy plugin. [More Info...](#)

2.5.2.3 Follow the steps in Keystores Tab as shown below:

1. Click Change and select Keystores as Custom Identity and Custom Trust.
2. Click on Save.

Keystores as Custom Identity and Custom Trust is as suggested by Oracle Support Team.

ORACLE WebLogic Server® Administration Console

Home Log Out Preferences Record Help Welcome, weblogic Connected to: iam_domain

Home > Summary of Servers > AdminServer

Settings for AdminServer

Configuration Protocols Logging Debug Monitoring Control Deployments Services Security Notes

General Cluster Services **Keystores** SSL Federation Services Deployment Migration Tuning Overload Health Monitoring Server Start Web Services

Save Cancel

Keystores ensure the secure storage and management of private keys and trusted certificate authorities (CAs). This page lets you view and define various keystore configurations. These settings help you to manage the security of message transmissions.

Keystores: Demo Identity and Demo Trust Which configuration rules should be used for finding the server's identity and trust keystores? [More Info...](#)

Custom Identity and Command Line Trust

Custom Identity and Custom Trust

Custom Identity and Java Standard Trust

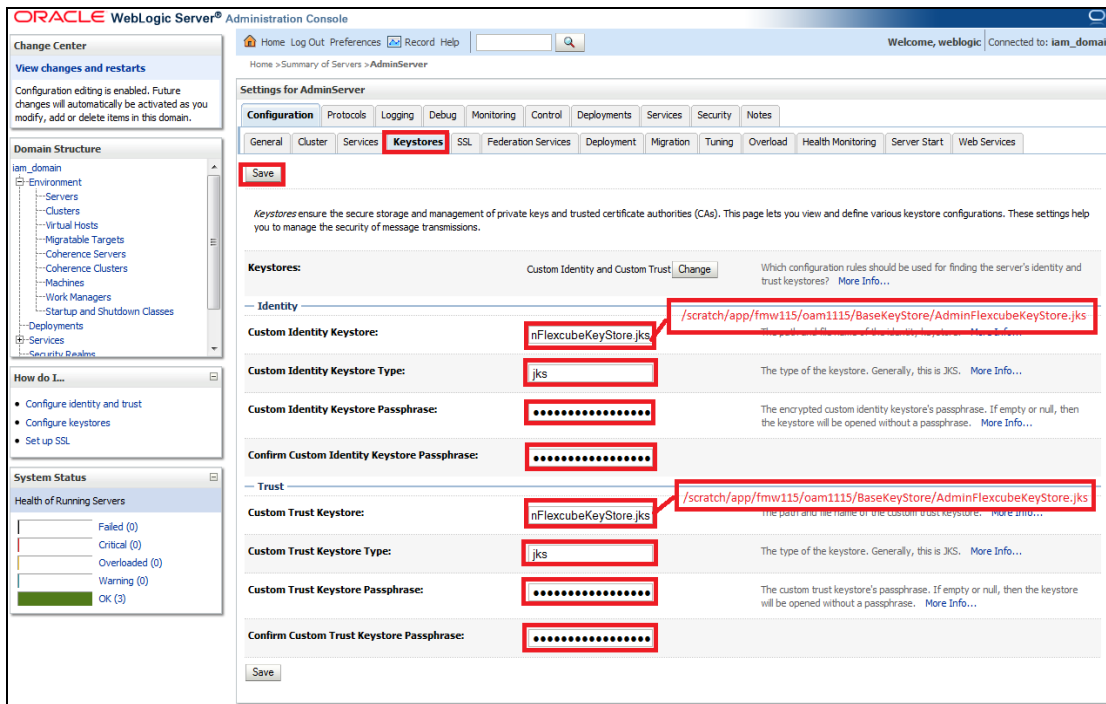
Demo Identity and Demo Trust

Save Cancel

WebLogic Server Version: 10.3.5.0
Copyright © 1996-2010, Oracle and/or its affiliates. All rights reserved.
Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

2.5.2.4 Follow the steps in Keystores Tab as shown below:

1. Enter Custom Identity Keystore and Custom Trust Keystore same as the Keystore Name created in step 3.2.1.1 with full path.
2. Enter Custom Identity Keystore Type and Custom Trust Keystore Type as jks.
3. Enter Custom Identity Keystore Passphrase, Confirm Custom Identity Keystore Passphrase, Custom Trust Keystore Passphrase and Confirm Custom Trust Keystore Passphrase same as the Store Password entered in step 3.2.1.1.
4. Click on Save.



2.5.2.5 Follow the steps in SSL Tab as shown below:

1. Enter Private Key Alias as same as the alias name entered in step 3.2.1.1.
2. Enter Private Key Passphrase and Confirm Private Key Passphrase as same as the Private Key Password entered in step 3.2.1.1.
3. Change the Hostname Verification to None.
4. Select Use JSSE SSL option
5. Click on Save.

Note: For Weblogic 12c Server <DOMAIN_HOME>/bin setDomainEnv.cmd or setDomainEnv.sh update the JAVA_PROPERTIES from

```
JAVA_PROPERTIES=-Dwls.home=%WLS_HOME% -Dweblogic.home=%WLS_HOME%
```

```
To JAVA_PROPERTIES=-Dwls.home=%WLS_HOME% -Dweblogic.home=%WLS_HOME% -  
Dweblogic.security.SSL.minimumProtocolVersion=TLSv1
```

The screenshot displays the Oracle WebLogic Admin Console interface for configuring SSL settings on an AdminServer. The main content area is titled "Settings for AdminServer" and includes a navigation bar with tabs for Configuration, Protocols, Logging, Debug, Monitoring, Control, Deployments, Services, Security, and Notes. The "SSL" tab is active, showing a "Save" button and a description: "This page lets you view and define various Secure Sockets Layer (SSL) settings for this server instance. These settings help you to manage the security of message transmissions." The configuration is organized into sections: "Identity and Trust Locations", "Identity", "Private Key Location", "Private Key Alias" (set to "FlexcubeCert"), "Private Key Passphrase", "Confirm Private Key Passphrase", "Certificate Location", "Trusted Certificate Authorities", "Advanced", "Hostname Verification" (set to "BEA Hostname Verifier"), "Custom Hostname Verifier" (set to "None"), "Export Key Lifespan" (set to "500"), "Use Server Certs", "Custom Hostname Verifier", "Export Key Lifespan", "Use Server Certs", "Two Way Client Cert Behavior" (set to "Client Certs Not Requested"), "Cert Authenticator", "SSLRejection Logging Enabled", "Allow Unencrypted Null Cipher", "Inbound Certificate Validation" (set to "Builtin SSL Validation Only"), "Outbound Certificate Validation" (set to "Builtin SSL Validation Only"), and "Use JSSE SSL" (checked). A "Save" button is located at the bottom of the configuration area. On the left side, there are panels for "Change Center", "Domain Structure", "How do I...", and "System Status". A small warning dialog is also visible.

6. Select OAM Server to enable SSL options and Repeat the steps performed in 2.2.2.2 to 2.2.2.5

Summary of Servers

A server is an instance of WebLogic Server that runs in its own Java Virtual Machine (JVM) and has its own configuration.

This page summarizes each server that has been configured in the current WebLogic Server domain.

Servers (Filtered - More Columns Exist)

Name	Cluster	Machine	State	Health	Listen Port
AdminServer (admin)			RUNNING	OK	7001
oam_server1			RUNNING	OK	14100
pim_server1			RUNNING	OK	14000
soa_server1		LocalMachine	SHUTDOWN		8001

Health of Running Servers:

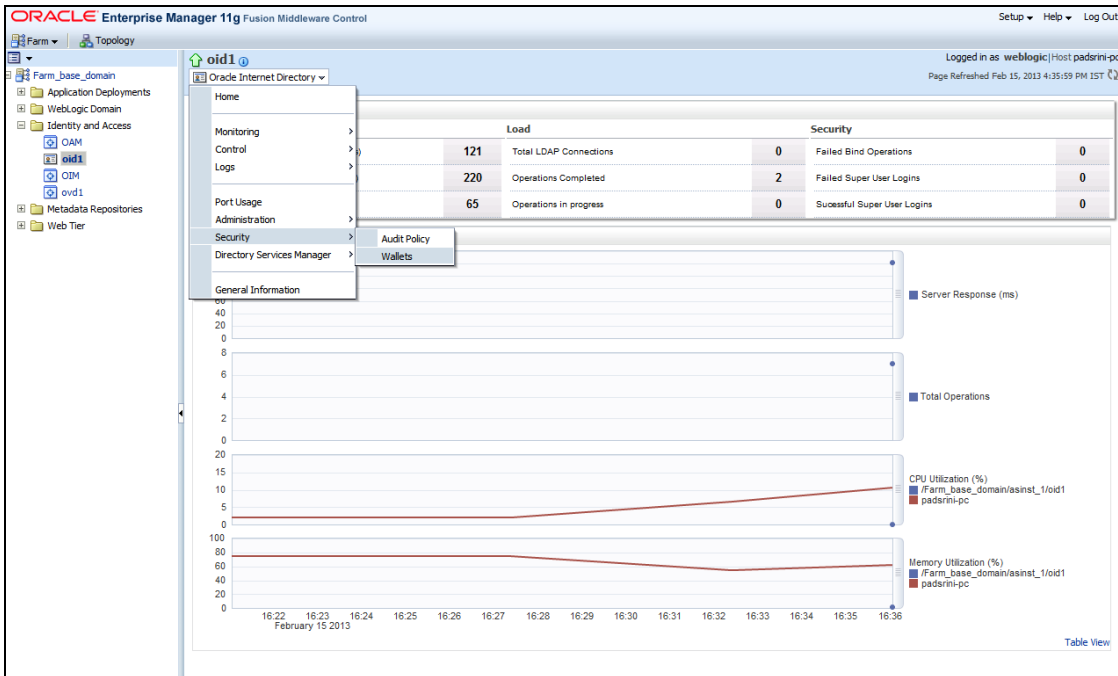
- Failed (0)
- Critical (0)
- Overloaded (0)
- Warning (0)
- OK (3)

7. Now the admin server and OAM servers are SSL enabled. Restart both the servers.

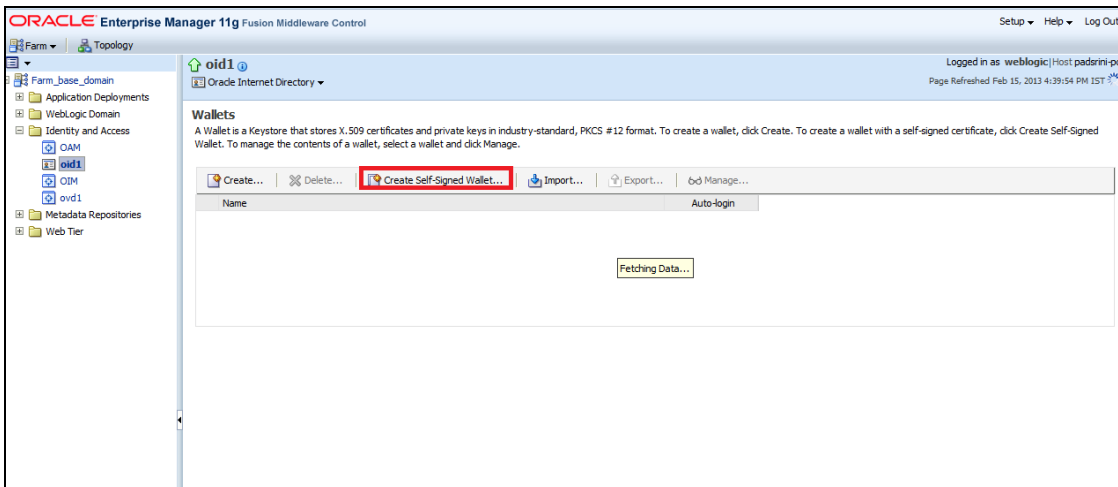
2.5.3 Configuring SSL Mode in Oracle Internet Directory

To enable SSL for OID LDAP Server refer, follow the below steps.

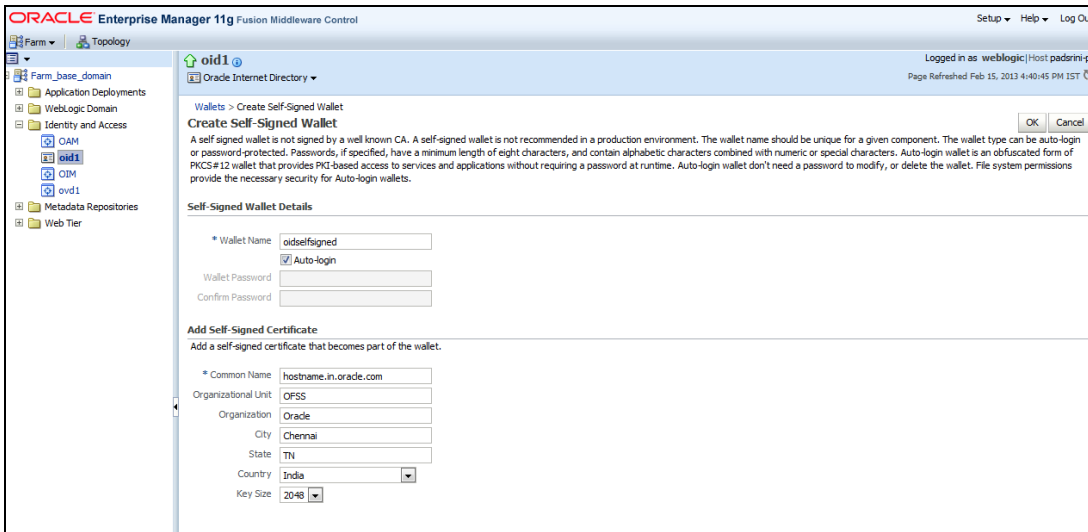
1. Login to the Enterprise Manager Console of the domain, in which Oracle Internet Directory is associated.



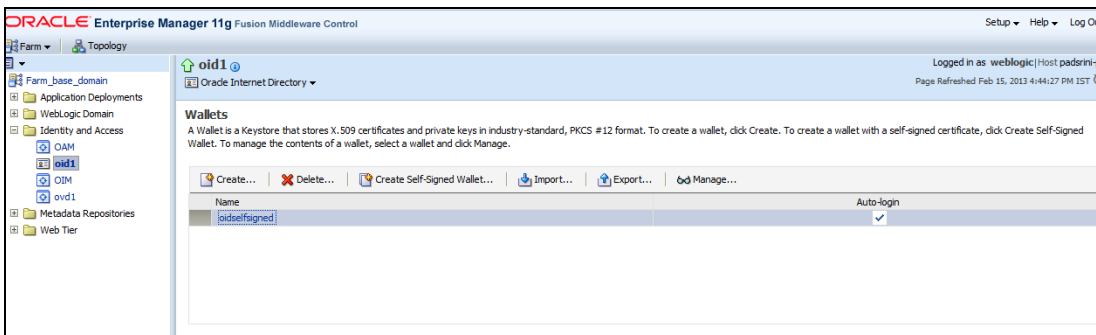
2. Click 'Create Self-Signed Wallet'.



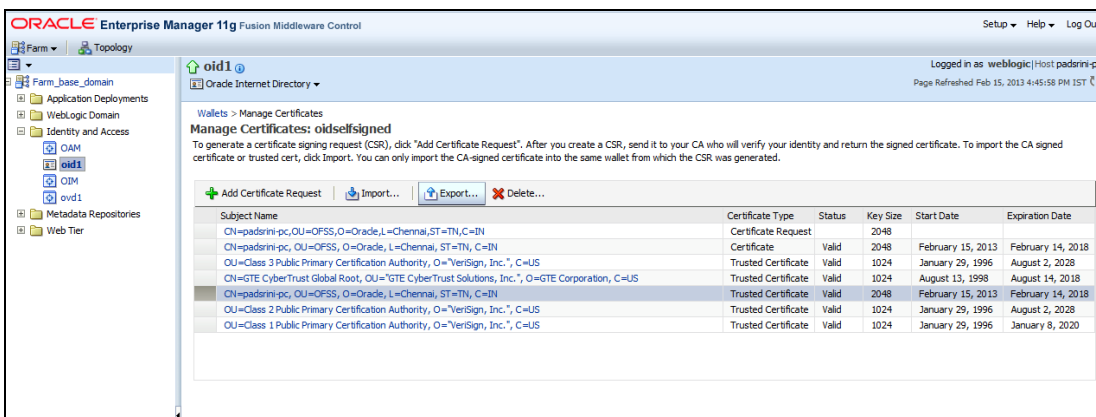
3. Enter the Details as below and Click 'OK'.



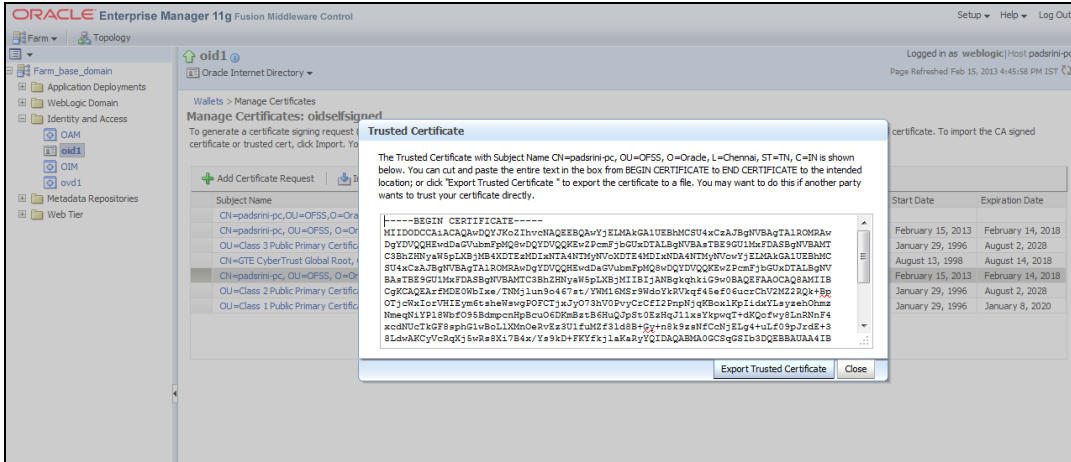
4. Click  Manage...



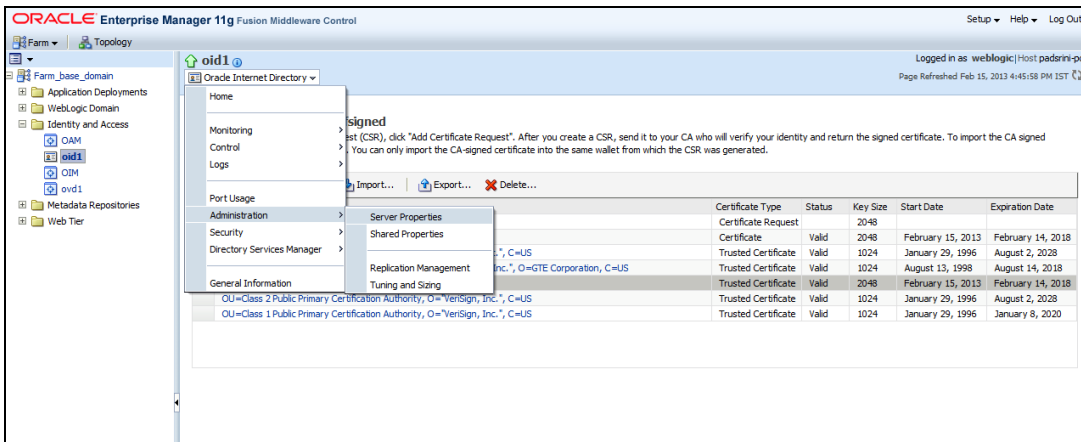
5. Select the Trusted Certificate and Click 'Export'.



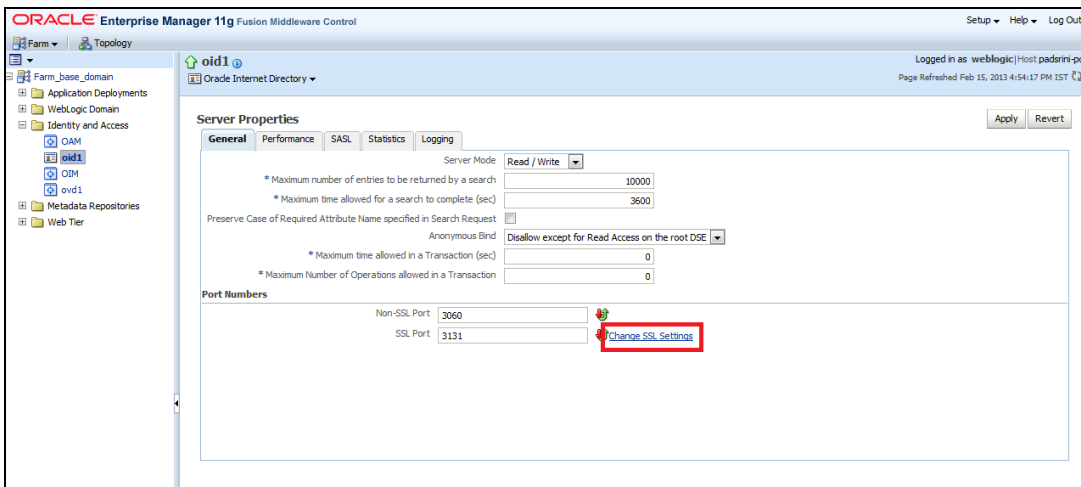
6. Click 'Export Trusted Certificate' and save the certificate file.



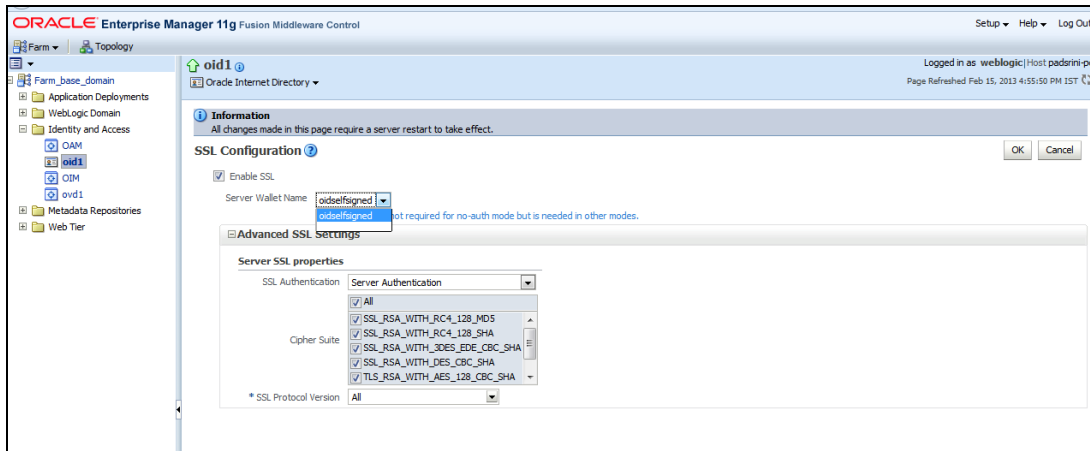
7. Click 'Server Properties'.



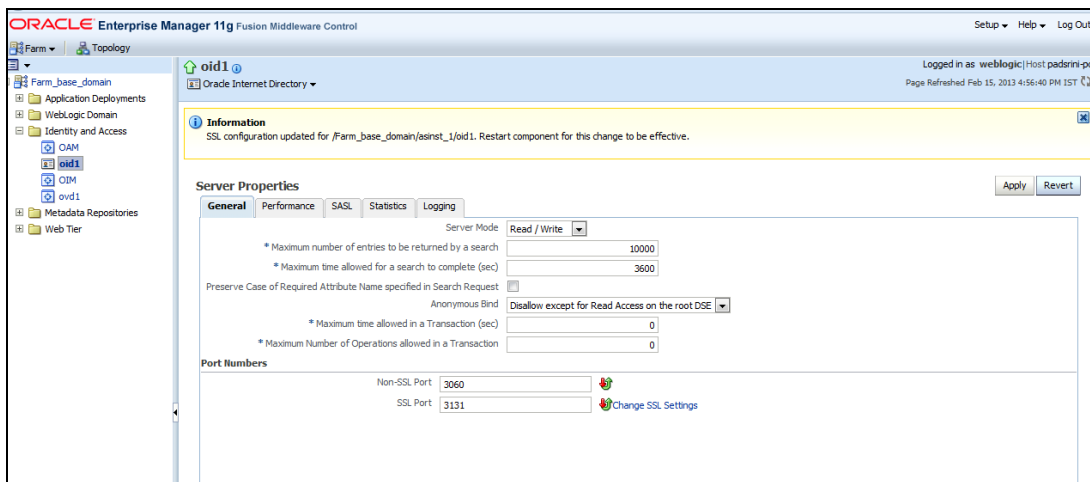
8. Click 'Change SSL Settings'.



9. Select the Wallet, SSL Authentication as Server Authentication, Cipher Suite, SSL Protocol Version as below and click 'OK'.



10. Click 'Apply'.



2.5.3.1 Import LDAP Server SSL Certificate into OAM Server

We have to import the LDAP – Server certificatefile into OAM server's JAVA_HOME/jre/lib/security/cacerts. Default Password is “changeit”.

For eg:

```
keytool -import -v -trustcacerts -alias ldapcert -file ldap_server_certificate.cer -keystore
JAVA_HOME/jre/lib/security/cacerts -storepass changeit
```

Restart Both OID & OAM Server.

2.6 Configuring SSO in OAM Console

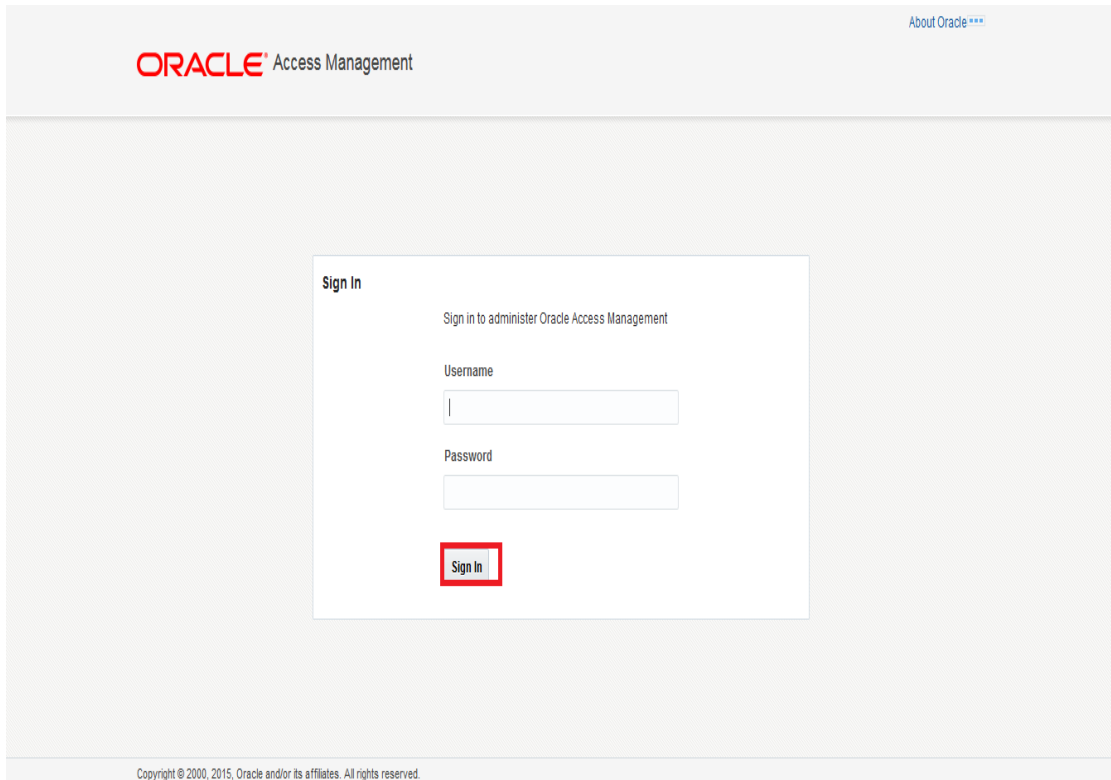
After installing OAM, Webtier Utilities and Webgate, extend the Weblogic domain to create OAM server.

Follow the post installation scripts deployWebGate and EditHttpConf as provided in (http://docs.oracle.com/cd/E37115_01/install.1112/e38922/webgate_ohs.htm#CACDEJAD)

Note: Refer Oracle Support Document: **1935703.1**, to have skip the escape sequence \ (slash) in front of , (comma) in Oracle 11gR2 OAM request header values

2.6.1 Identity Store Creation

1. To create new User Identity Store, Login to OAM Console and Click 'User Identity Store' under Configuration.



ORACLE Access Management About Oracle***

Sign In

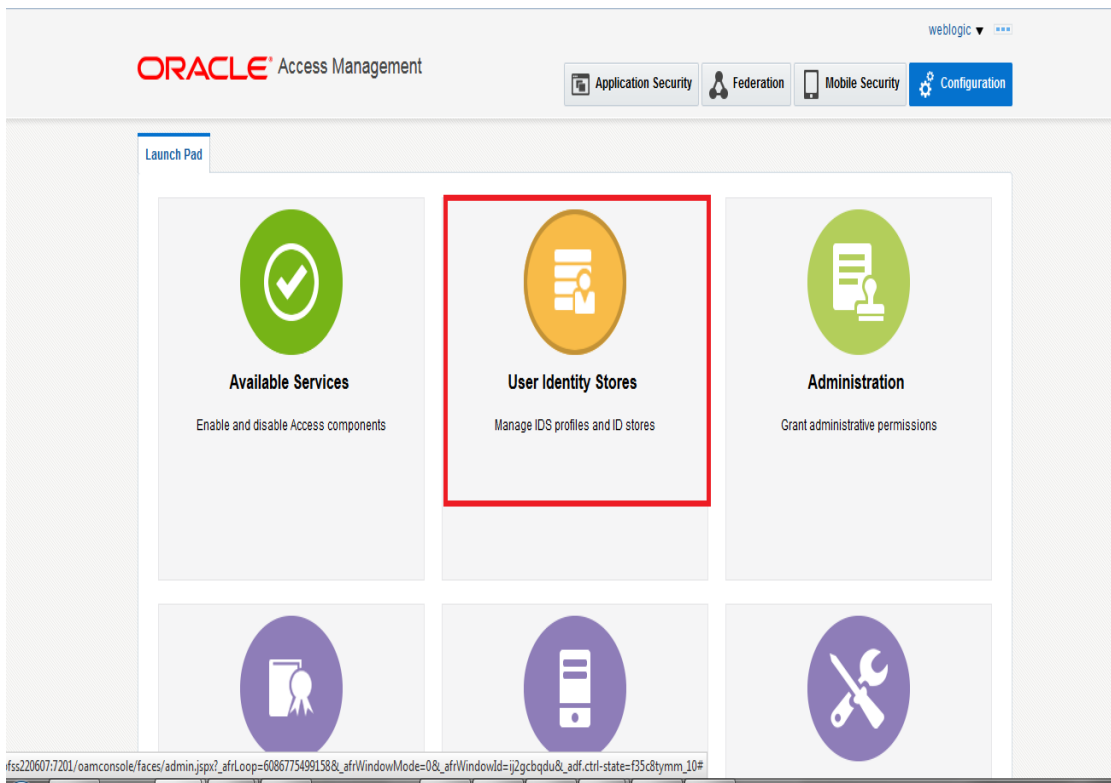
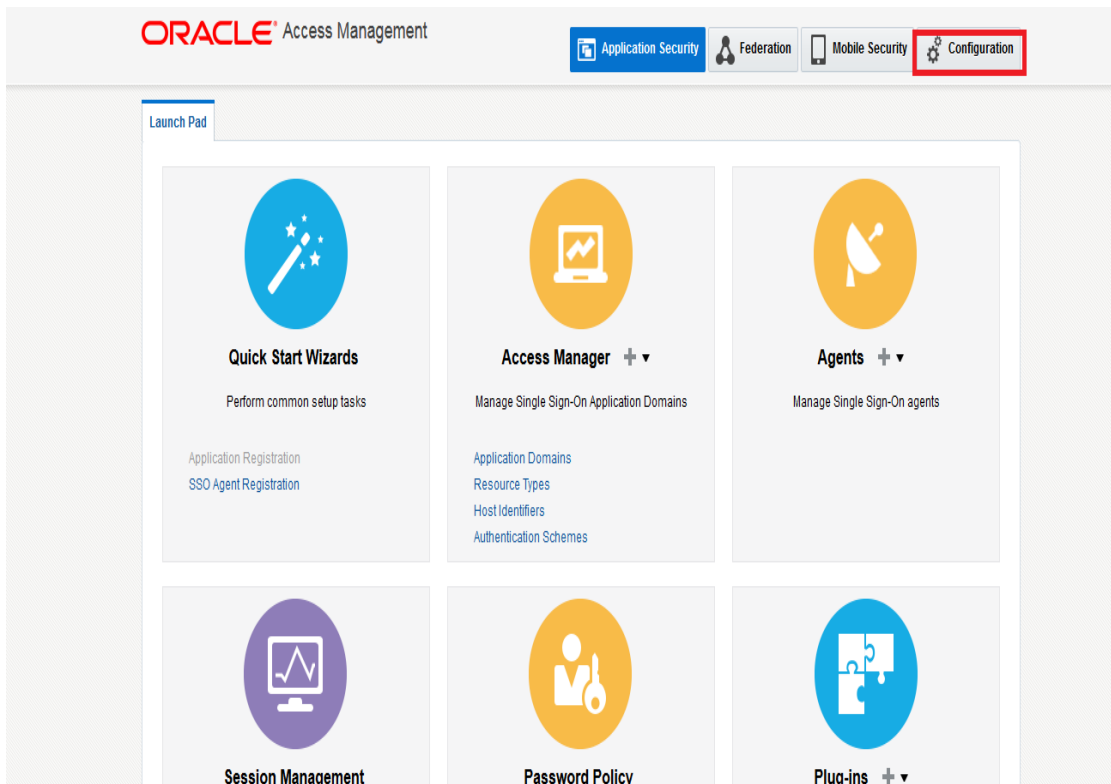
Sign in to administer Oracle Access Management

Username

Password

Sign In

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2. Click 'Create' under OAM ID Stores.

The screenshot shows the Oracle Identity Management console interface. At the top, there are navigation tabs for 'Application Security', 'Federation', 'Mobile Security', and 'Configuration'. The main content area is titled 'User Identity Stores' and includes several sections:

- Default and System Store:** Contains dropdown menus for 'Default Store' and 'System Store', both currently set to 'UserIdentityStore1'. An 'Apply' button is located to the right.
- OAM ID Stores:** Includes a 'Sync IDS Profiles' button and a description: 'Manage local User Identity Stores. This includes IDS Profiles that are synchronized by using Sync IDS Profiles button.'
- Table:** A table with columns: Name, Directory Type, Host Information, Description, and Synched IDS Profiles. It contains one entry: 'UserIdentityStore1' with 'EMBEDEDDED_LDAP' as the Directory Type and 'ldap-host:7001' as the Host Information. Above the table is a toolbar with 'View', '+ Create' (highlighted with a red box), 'Duplicate', 'Edit', and 'Delete'.
- Identity Directory Service:** A section with a description: 'Identity Directory Service is a common service used by Oracle Identity Management products to access and manage Identity Directory. The IDS Profiles can be used within Oracle Access Management after they are synchronized.'

3. Enter the below details in the Create User Identity Store Form

- Store Name : FLEXCUBEStore
- Choose Store Type as OID: Oracle Internet Directory.
- Location: LDAP server Host name and Port Number in <HOSTNAME>:SSL PORT format
- Select Enable SSL check box
- Bind DN: Admin User name to connect the LDAP Server
- Password: Admin Password to connect the LDAP Server
- Login ID Attribute: Specify the LDAP attribute from which the login ID specifying the User will be extracted (cn).
- User Search Base: Full DN for the node at which enterprise users are stored in the directory; for example, cn=Users,realm_DN.
- Group Search Base: Currently only static groups are supported, with the uniquemember attribute. The node in the directory information tree (DIT) under which group data is stored, and the highest possible base for all group data searches.

Launch Pad User Identity Stores x Create: User Identity Sto... x

Configuration >

Create: User Identity Store

User Identity Store Service

* Store Name: FLEXCUBESTore

* Store Type: OID: Oracle Internet Directory

Description: [Text Area]

Enable SSL

Use Native ID Store Settings

Prefetched Attributes: [Text Area]

▲ Location and Credentials

* Location: ofss220607.in.oracle.com:3131

* Bind DN: cn=orcladmin

* Password: [Masked]

▲ Users and Groups

* Login ID Attribute: cn

User Password Attribute: userPassword

* User Search Base: cn=Users,dc=ofss,dc=in,dc=oracle,dc=c

User Filter Object Classes: [Text Area]

Group Name Attribute: [Text Area]

* Group Search Base: cn=Groups,dc=ofss,dc=in,dc=oracle,dc=

4. Click 'Test Connection' to validate the Credentials Passed.

Launch Pad User Identity Stores x Create: User Identity Sto... x

Configuration >

Create: User Identity Store

User Identity Store Service

* Store Name: FLEXCUBESTore

* Store Type: OID: Oracle Internet Directory

Description: [Text Area]

Prefetched Attributes: [Text Area]

▲ Location and Credentials

* Location: ofss220607.in.oracle.com:3131

* Bind DN: cn=orcladmin

* Password: [Masked]

▲ Users and Groups

* Login ID Attribute: cn

User Password Attribute: userPassword

* User Search Base: cn=Users,dc=ofss,dc=in,dc=oracle,dc=c

User Filter Object Classes: [Text Area]

Group Name Attribute: [Text Area]

* Group Search Base: cn=Groups,dc=ofss,dc=in,dc=oracle,dc=

Connection Status [X]

Connection to the User Identity Store successful!

5. Click 'Apply' to Create the User Identity Store.


Note: User Identity Store will be created only if valid LDAP Parameters are passed.

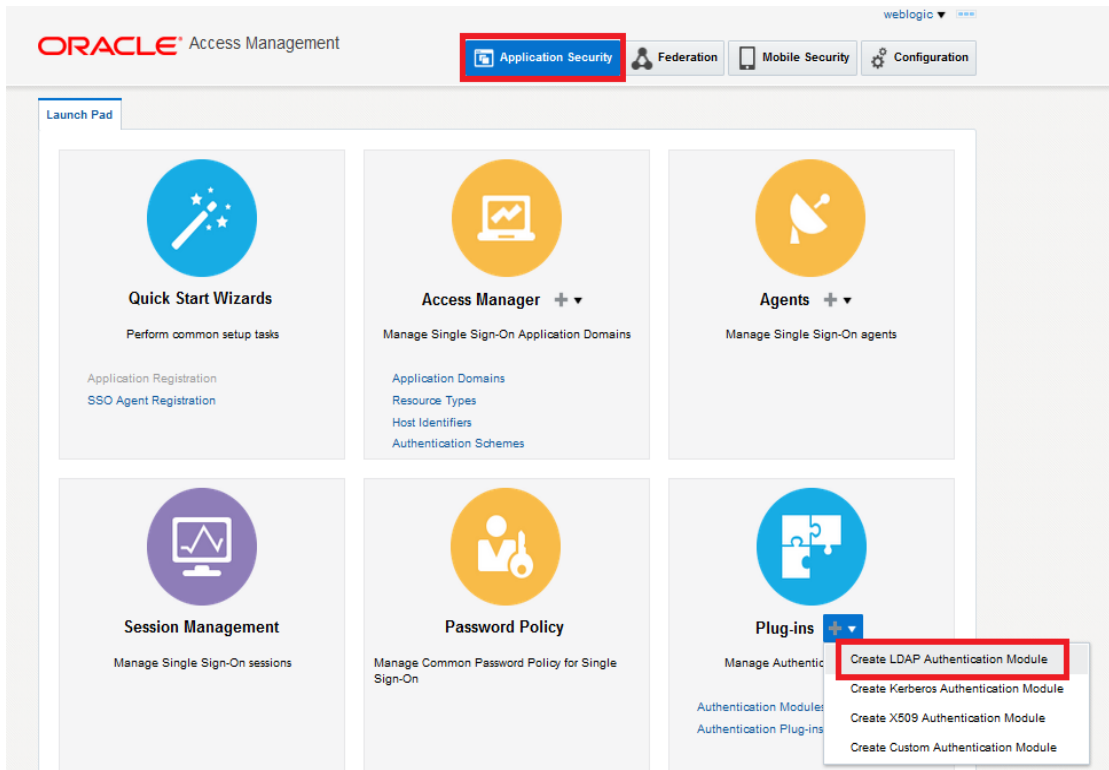
The screenshot shows the Oracle Identity Management console configuration page for a User Identity Store named "FLEXCUBEStore". The page includes a confirmation message at the top: "User Identity Store FLEXCUBEStore created successfully." Below this, the configuration details are displayed:

- Store Name:** FLEXCUBEStore
- Store Type:** OID: Oracle Internet Directory
- Enable SSL:**
- Use Native ID Store Settings:**
- Location:** ofss220607.in.oracle.com:3131
- Bind DN:** cn=orcladmin
- Login ID Attribute:** cn
- User Password Attribute:** userPassword
- User Search Base:** cn=Users,dc=ofss,dc=in,dc=oracle,dc=c

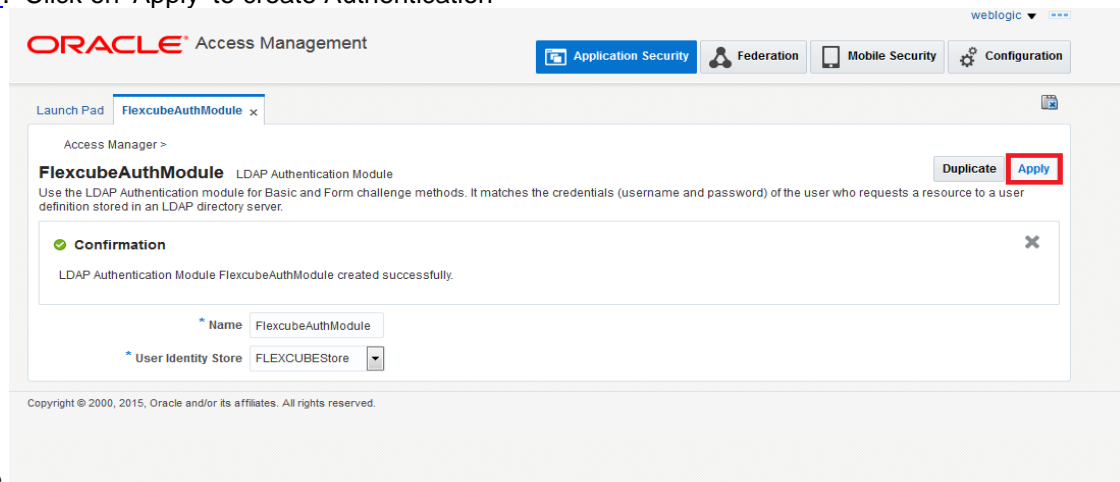
The "Apply" button is highlighted with a red box, indicating the configuration has been saved.

2.6.2 Creating Authentication Module

1. Click on  in Plug-ins under Application security to Create LDAP Authentication Modules.



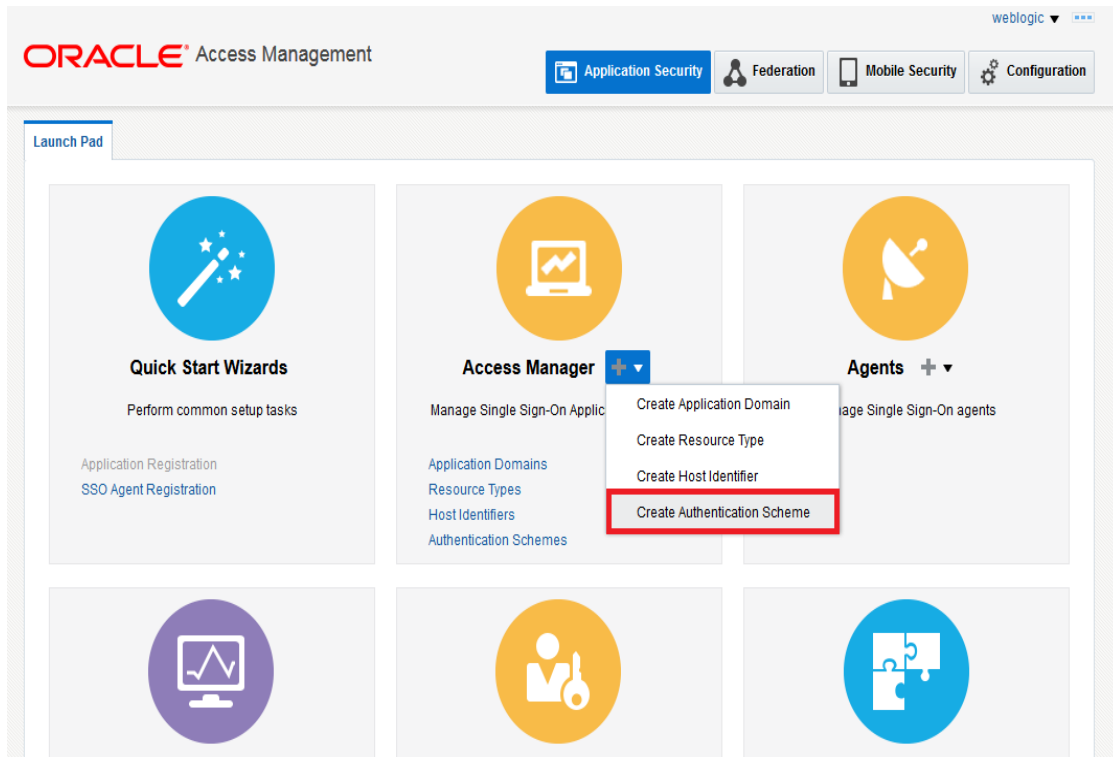
Enter the Name for the Authentication Module and choose the proper User Identification Store, ie created in [2.6.1](#). Click on 'Apply' to create Authentication



Module.

2.6.3 Creating Authentication Scheme

1. Click on  in Access Manager under Application Security to 'Create Authentication Scheme'.



Select any of the challenge method for creating an authentication Scheme as explained below and refer to OAM documentation for more details on the same.

2.6.3.1.1 https://docs.oracle.com/cd/E52734_01/oam/AIAAG/shared.htm#AIAAG488

Basic Style Authentication Scheme

Enter the below details and click 'Apply':

Name : Name of the Authentication Scheme

Authentication Level : 1

Challenge Method : BASIC

Challenge Redirect URL : /oam/server

Authentication Module : Authentication Module

Refer the section '[Creating Authentication Module 2.6.2](#)' of this document.

Challenge Parameters : ssoCookie=Secure
contextType=default
contextValue=/oam
challenge_url=/CredCollectServlet/BASIC

The screenshot shows the Oracle Access Manager console interface. At the top, there's a 'Launch Pad' and a tab for 'FlexcubeBasicOAMScheme'. Below that, the 'Access Manager >' header is visible. The main section is titled 'Create Authentication Scheme' with a subtitle 'Authentication Scheme'. There are three buttons: 'Set As Default', 'Duplicate', and 'Apply' (highlighted with a red box). A confirmation message states: 'Authentication Scheme, FlexcubeBasicOAMScheme, created successfully'. The form fields are: Name (FlexcubeBasicOAMScheme), Description (Basic login screen), Authentication Level (1), Challenge Method (BASIC), Challenge Redirect URL (/oam/server), Authentication Module (FlexcubeAuthModule), and Challenge Parameters (ssoCookie=Secure, contextType=default, contextValue=/oam, challenge_url=/CredCollectServlet/BASIC).

We need to add the 'enforce-valid-basic-auth-credentials' tag to the config.xml file ,located under <weblogic deployment path>/user_projects/domains/<MyDomain>/config/.

The tag must be inserted within the <security-configuration> tag as follows: [Just above </security-configuration> tag]

```
<enforce-valid-basic-auth-credentials>>false</enforce-valid-basic-auth-credentials>
```

2.6.3.2 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 : Authentication Module

Refer the section '[Creating Authentication Module 2.6.2](#)' of this document.

Challenge URL : /pages/login.jsp

Context Type : default

Context Value : /oam

Challenge Parameters : ssoCookie=Secure

The screenshot shows the Oracle Access Manager console interface. At the top, there is a breadcrumb 'Access Manager >' and a title 'Create Authentication Scheme' with a subtitle 'Authentication Scheme'. To the right of the title are three buttons: 'Set As Default', 'Duplicate', and 'Apply' (which is highlighted with a red box). Below the title is a confirmation message: 'Confirmation Authentication Scheme, FlexcubeFormOAMScheme, created successfully'. The main form contains the following fields:

- Name: FlexcubeFormOAMScheme
- Description: Form based login page
- Authentication Level: 2 (with up and down arrows)
- Default:
- Challenge Method: FORM (dropdown)
- Challenge Redirect URL: /oam/server
- Authentication Module: FlexcubeAuthModule (dropdown)
- Challenge URL: /pages/login.jsp
- Context Type: default (dropdown)
- Context Value: /oam
- Challenge Parameters: ssoCookie=Secure

2.6.3.3 KBA Based Strong Authentication Scheme (Only in case OAAM is used)

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 : Authentication Module

Refer the section '[Creating Authentication Module 2.6.2](#)' of this document.

Challenge URL : /pages/oaam/login.jsp

Context Type : default

Context Value : /oam

Challenge Parameters : ssoCookie=Secure
oaamPostAuth=true
oaamPreAuth=true

Create Authentication Scheme Authentication Scheme Set As Default Duplicate **Apply**

An Authentication Scheme defines the challenge mechanism required to authenticate a user. Each Authentication Scheme must also include a defined Authentication Module.

Confirmation Authentication Scheme, FlexcubeKBAOAMScheme, created successfully

* Name FlexcubeKBAOAMScheme

Description KBA Based login page

* Authentication Level 2

Default

* Challenge Method FORM

Challenge Redirect URL /oam/server

* Authentication Module FlexcubeAuthModule

* Challenge URL /pages/oaam/login.jsp

* Context Type default

* Context Value /oam


Challenge Parameters ssoCookie=Secure
oaamPostAuth=true
oaamPreAuth=true

2.6.4 Creating OAM 11g Webgate


Follow the below steps to create a Webgate:

1. Click on 'Server Instances' under Configuration.


Launch Pad




Available Services
Enable and disable Access components




User Identity Stores
Manage IDS profiles and ID stores




Administration
Grant administrative permissions



Certificate Validation
Validate trust certificates



Server Instances
Manage and monitor OAM server instances



Settings
Manage configuration of Access components
View ▾

2. Click on 'Search'.

The screenshot shows the Oracle Access Management console interface. At the top, there are navigation tabs for Application Security, Federation, Mobile Security, and Configuration. The main content area is titled "Search OAM Servers" and includes a search input field labeled "Name". To the right of the input field are "Search" and "Reset" buttons, with the "Search" button highlighted by a red box. Below the search area is a table for search results, which currently displays "No data to display." The table has columns for "Row" and "Name".

3. Edit oam_server1.

The screenshot shows the Oracle Access Management console interface. The search results table now contains one entry with "Row" 1 and "Name" "oam_server1". The "oam_server1" text in the table is highlighted with a red box. The "Search" and "Reset" buttons are visible above the table.

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

The screenshot shows the Oracle Access Management console interface for editing the "oam_server1" instance. The "Mode" dropdown menu is expanded, showing options "Open", "Simple", and "Cent", with "Simple" selected and highlighted by a red box. The "Apply" button is also highlighted with a red box. Other configuration fields include "Server Name" (oam_server1), "Host" (ofss220607.in.oracle), "Port" (14101), "Proxy Server Id" (AccessServerConfigP), "Port" (5575), "Log Level" (3), "Local Port" (9095), and "Log Limit" (4096).

ORACLE Access Management weblogic ---

Application Security Federation Mobile Security Configuration

Launch Pad Server Instances x oam_server1 x

Configuration >

oam_server1 OAM Server Instance Duplicate Apply

* Server Name oam_server1 * Host ofss220607.in.oracle.

* Port 14101

OAM Proxy

* Proxy Server Id AccessServerConfigP

* Port 5575

* Mode Simple

Coherence Configuration

* Log Level 3

* Local Port 9095

* Log Limit 4096

Confirm Edit X

OAM Server instance oam_server1 might be in use.
Are you sure you want to edit it?

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Launch Pad Server Instances x oam_server1 x

Configuration >

oam_server1 OAM Server Instance Duplicate Apply

Confirmation X

OAM Server instance oam_server1 modified successfully.

* Server Name oam_server1 * Host ofss220607.in.oracle.

* Port 14101

OAM Proxy

* Proxy Server Id essServerConfigProxy

* Port 5575

* Mode Simple

Coherence Configuration

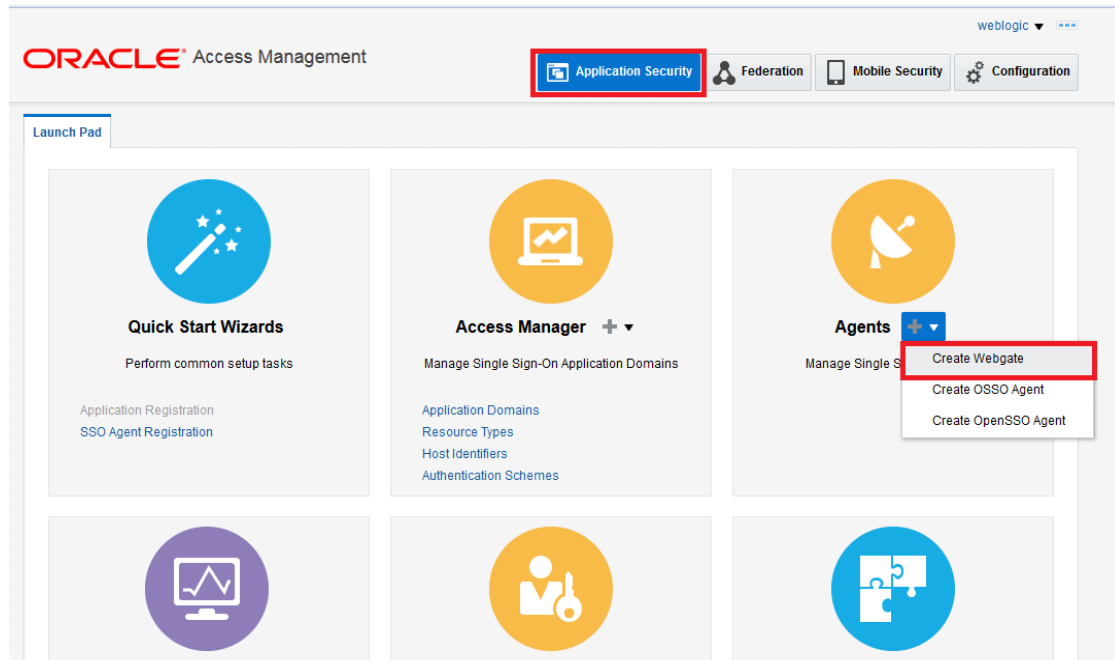
* Log Level 3

* Local Port 9095

* Log Limit 4096

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5. Click on  in Agents under Application Security to Create Webgate.



6. Enter the below and Click 'Apply':

Version : 11g

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

Launch Pad Create Webgate x

Access Manager >

Create Webgate

Use the following screen to register an OAM Agent. Before you register, ensure that at least one OAM Server is running in the same mode as the Agent to be registered.

Apply

* Version 11g

* Name FlexcubeWebgate

Description Flexcube 11g Webgate

Base URL `https://ofss220807.in.oracle.com`

Access Client Password

Host Identifier FlexcubeWebgate

User Defined Parameters `filterOAMAuthnCookie=false`

* Security Open Simple Cert

Virtual host

Auto Create Policies

IP Validation

Enter the Base URLs for Agent

Resource Lists

Protected Resource List **Add Delete**

Relative URI
/FCJNeoWeb

Public Resource List **Add Delete**

Relative URI

FlexcubeWebgate Webgate **Apply Download**

Confirmation

OAM Webgate FlexcubeWebgate created successfully.

Version 11g

Name FlexcubeWebgate

Description Flexcube 11g Webgate

Access Client Password

* Security Open Simple Cert

* State Enable Disable

* Max Cache Elements 100000

* Cache Timeout (Seconds) 1800

Logout Target URL

Deny On Not Protected

User Defined Parameters `proxySSLHeaderVar=IS_SSL
URLInUTF8Format=true
client_request_retry_atte
mpts=1
inactiveReconfigPeriod=`

* Sleep for (Seconds) 60

Cache Pragma Header no-cache

Cache Control Header no-cache

Debug

IP Validation

- Once the OAM 11g Webgate is created, Change the parameter from **proxySSLHeaderVar=IS_SSL** to **proxySSLHeaderVar=ssl** along with other parameters in User Defined Parameters.
- Click on 'Apply'.

ORACLE Access Management

Application Security Federation Mobile Security Configuration

Launch Pad SSO Agents x FlexcubeWebgate x

Access Manager >

FlexcubeWebgate Webgate Apply Download

Version 11g

Name FlexcubeWebgate

Description Flexcube 11g Webgate

Access Client Password

Security

- Open
- Simple**
- Cert

State

- Enable**
- Disable

Logout Target URL

Deny On Not Protected

User Defined Parameters

- proxySSLHeaderVar=ssi**
- client_request_retry_attempts=1

Sleep for (Seconds) 60

Cache Pragma Header no-cache

Cache Control Header no-cache

9. Change the value of Mode back to Open in oam_server1 on Server Instance and click 'Apply'.

Refer '[Creating OAM 11g Webgate 2.6.3](#)' section of this document.

ORACLE Access Management

Application Security Federation Mobile Security Configuration

Launch Pad Server Instances x oam_server1 x

Configuration >

oam_server1 OAM Server Instance Duplicate Apply

Confirmation

OAM Server instance oam_server1 modified successfully.

Server Name oam_server1 Host ofas220607.in.oracle.com

Port 14101

OAM Proxy

Proxy Server Id AccessServerConfigProxy

Port 5575

Mode Open

Coherence Configuration

Log Level 3

Local Port 9095

Log Limit 4096

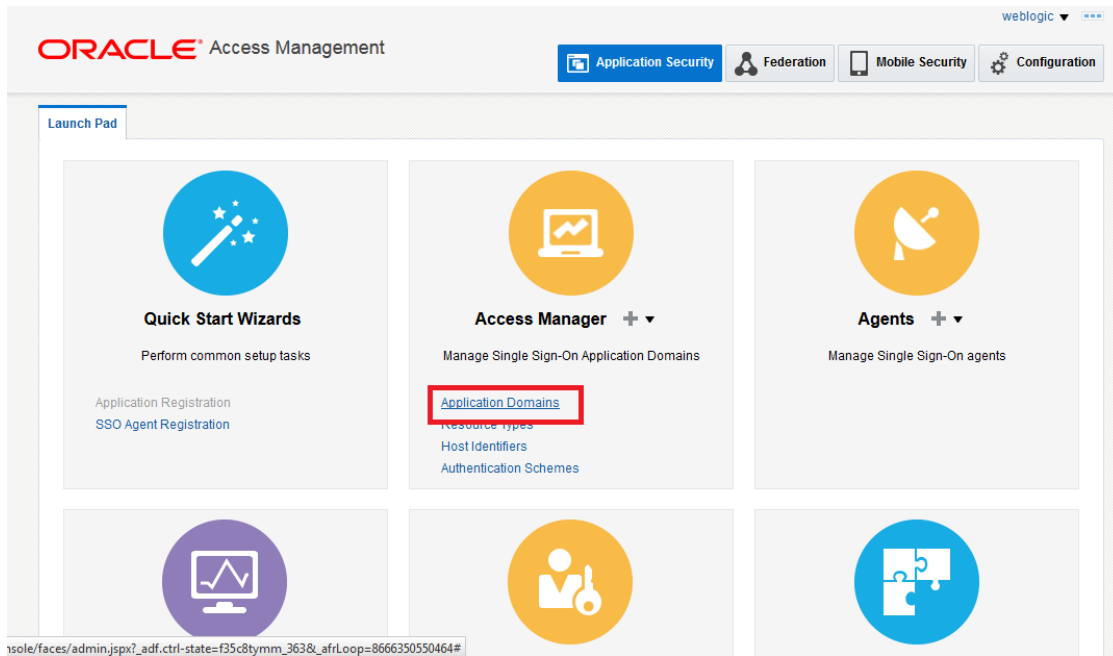
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2.6.5 Post OAM Webgate 11g Creation

Follow the below steps to configure the webgate created .

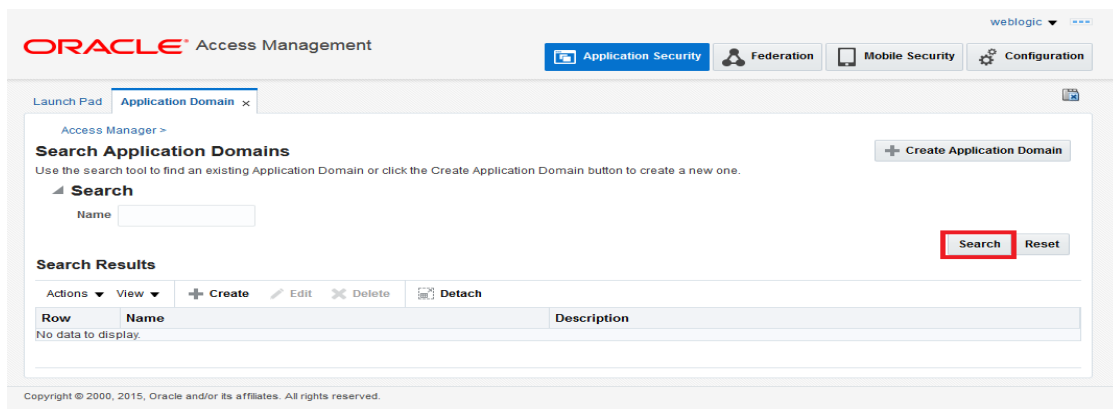
2.6.5.1 Application Domains Changes

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



2. Click on 'Search' to find the 11g Webgate.

Refer the section '[Creating OAM 11g webgate 2.6.4](#)' of this document.



ORACLE Access Management weblogic

Application Security Federation Mobile Security Configuration

Launch Pad Application Domain x

Access Manager >

Search Application Domains

Use the search tool to find an existing Application Domain or click the Create Application Domain button to create a new one.

Search

Name

Search Reset

Search Results

Actions View Create Edit Delete Detach

Row	Name	Description
1	FlexcubeWebgate	Application Domain created through Remote Registration
2	Fusion Apps Integration	Policy objects enabling integration with Oracle Fusion Applications
3	IAM Suite	Policy objects enabling OAM Agent to protect deployed IAM Suite applications

3. Click on 'Authentication Polices'.

ORACLE Access Management weblogic

Application Security Federation Mobile Security Configuration

Launch Pad Application Domain x FlexcubeWebgate x

Access Manager >

FlexcubeWebgate Application Domain

Application Domain provides a logical container for resources or sets of resources, and the associated policies that dictate who can access specific protected resources.

Summary Resources **Authentication Policies** Authorization Policies Token Issuance Policies Administration

Apply

Name FlexcubeWebgate

Description Application Domain created through Remote Registration

Session Idle Timeout (minutes) 0

Allow OAuth Token

Allow Session Impersonation

Enable Policy Ordering

4. Click on 'Protected Resource Policy'.

ORACLE Access Management

Application Security Federation Mobile Security Configuration

Launch Pad Application Domain x FlexcubeWebgate x

Access Manager >

FlexcubeWebgate Application Domain

Application Domain provides a logical container for resources or sets of resources, and the associated policies that dictate who can access specific protected resources.

Summary Resources **Authentication Policies** Authorization Policies Token Issuance Policies Administration

Select an existing Authentication Policy from the list or click the Create Authentication Policy button to create a new one.

Actions View + Create Duplicate Edit Delete Detach

Row	Name	Description
1	Public Resource Policy	Policy set during domain creation. Add resources to this policy to allow anyone access.
2	Protected Resource Policy	Policy set during domain creation. Add resources to this policy to protect them.

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- Choose the Authentication Scheme created earlier in 'Creating Authentication Scheme'. Refer the section '[Creating Authentication Scheme 2.6.3](#)' of this document.

Launch Pad Application Domain x FlexcubeWebgate x FlexcubeWebgate : Protect...

Access Manager >

Protected Resource Policy Authentication Policy Duplicate Apply

Authentication Policy defines the type of verification that must be performed to provide a sufficient level of trust for Access Manager to grant access to the user making the request. A single policy can be defined to protect one or more resources in the Application Domain.

Name Protected Resource Policy Success URL

Description Policy set during domain creation. Add resources to this policy to protect them. Failure URL

Select the challenge mechanism required to authenticate the user.

Authentication Scheme

- LDAPScheme
- AdaptiveAuthenticationScheme
- AnonymousScheme
- BasicFAScheme
- BasicScheme
- BasicSessionlessScheme
- ESSOProvAuthnScheme
- FAAdminLocalScheme
- FAAuthScheme
- FederationMTScheme
- FlexcubeBasicOAMScheme
- FlexcubeFormOAMScheme
- FlexcubeKBAOAMScheme
- FlexcubeKBAOAMScheme
- FlexcubeKBAOAMScheme
- LDAPNoPasswordValidationScheme
- LDAPScheme
- OAMAdvanced
- OAMBasic
- OAM10gScheme
- OAMAdminConsoleScheme

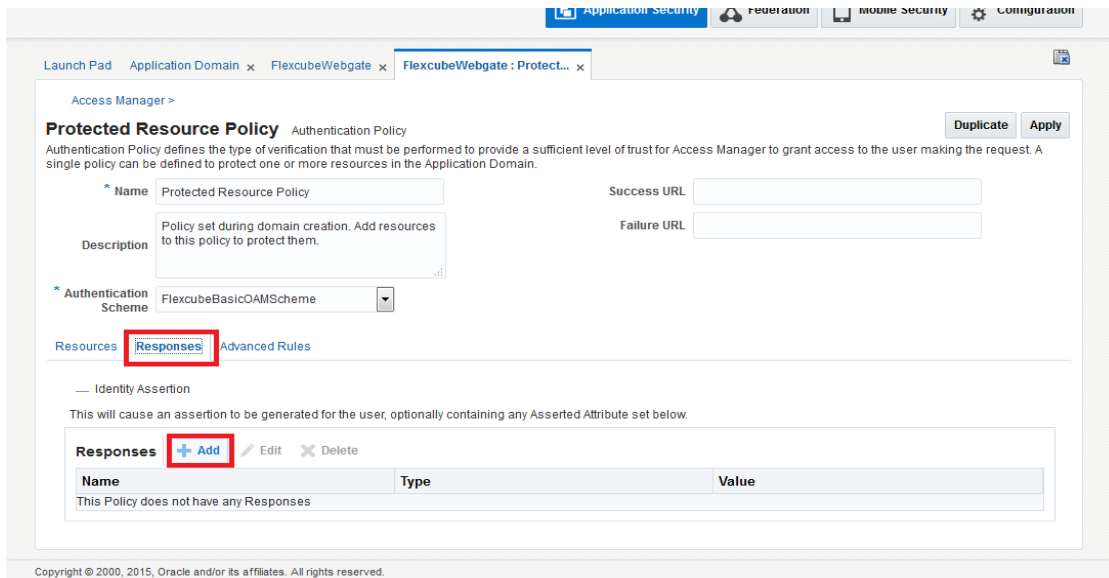
Resources

Resource This Policy

Query String

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



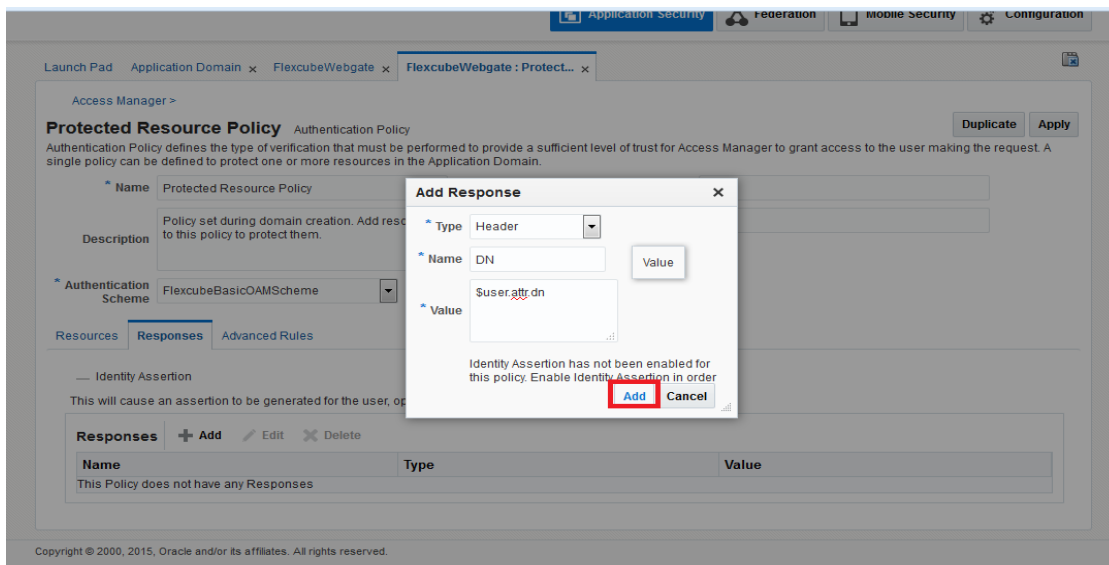
7. Enter the following values in the Add Response Window:

Type : Header

Name : DN

Value : \$user.attr.dn

Click on Add button



8. Click on Apply to Save the Changes

Launch Pad Application Domain x FlexcubeWebgate x FlexcubeWebgate : Protect... x

Access Manager >

Protected Resource Policy Authentication Policy Duplicate **Apply**

Authentication Policy defines the type of verification that must be performed to provide a sufficient level of trust for Access Manager to grant access to the user making the request. A single policy can be defined to protect one or more resources in the Application Domain.

Confirmation ✕

Authentication Policy, Protected Resource Policy, modified successfully

* Name Protected Resource Policy Success URL

Description Policy set during domain creation. Add resources to this policy to protect them. Failure URL

* Authentication Scheme FlexcubeBasicOAMScheme

Resources Responses Advanced Rules

Identity Assertion
This will cause an assertion to be generated for the user, optionally containing any Asserted Attribute set below.

Responses + Add Edit Delete

Name	Type	Value
DN	Header	Suser.attr.dn

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

ORACLE Access Management weblogic

Application Security Federation Mobile Security Configuration

Launch Pad Application Domain x FlexcubeWebgate x

Access Manager >

FlexcubeWebgate Application Domain

Application Domain provides a logical container for resources or sets of resources, and the associated policies that dictate who can access specific protected resources.

Summary Resources Authentication Policies **Authorization Policies** Token Issuance Policies Administration

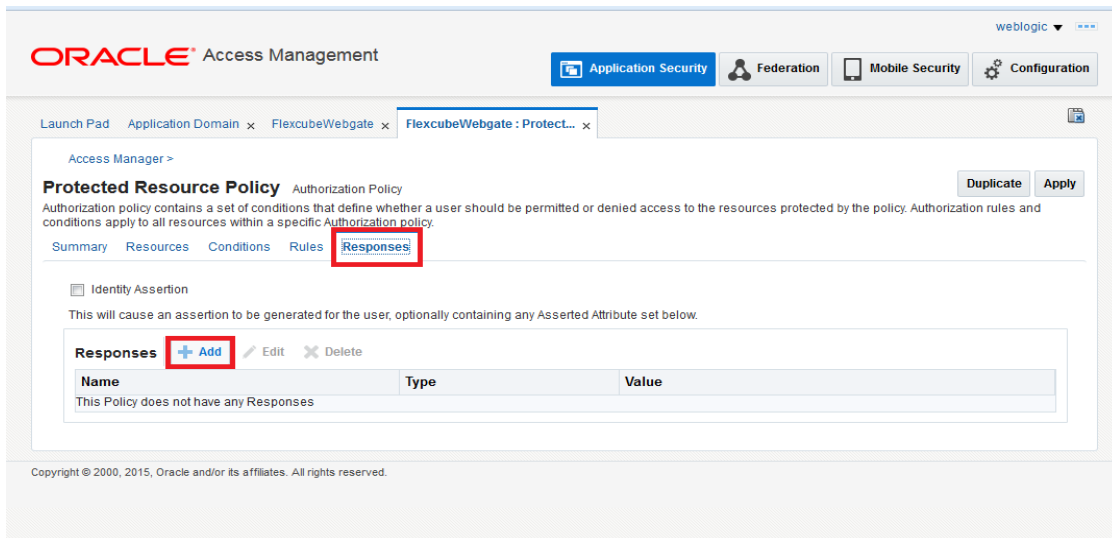
Select an existing Authorization Policy from the list or click the Create Authorization Policy button to create a new one.

Actions View Create Duplicate Edit Delete Detach

Row	Name	Description
1	Public Resource Policy	Policy set during domain creation. Add resources to this policy to allow anyone access.
2	Protected Resource Policy	Policy set during domain creation. Add resources to this policy to protect them.

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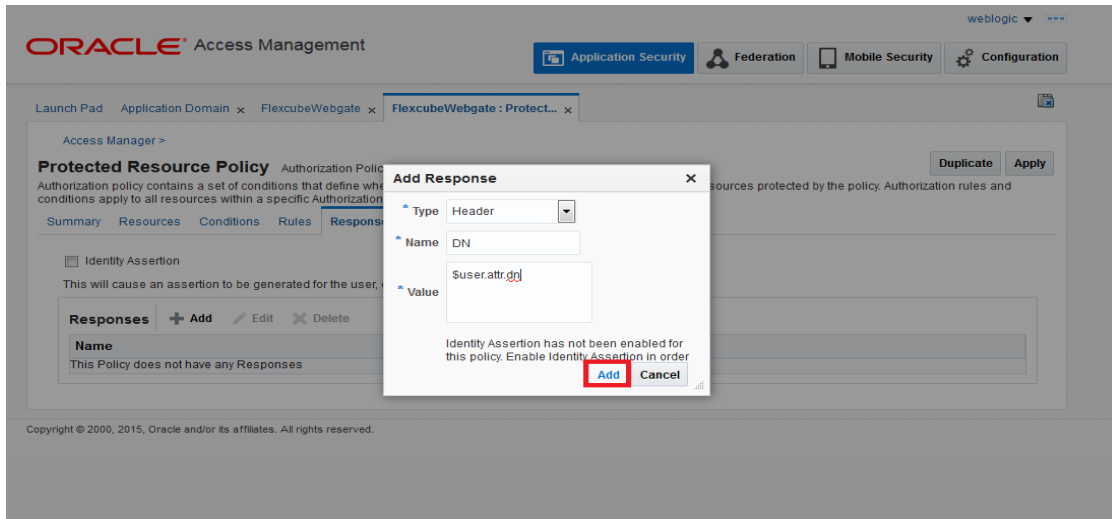
10. Click on 'Response' tab and click on + Add button to Add 'DN' variable to the Response Header.



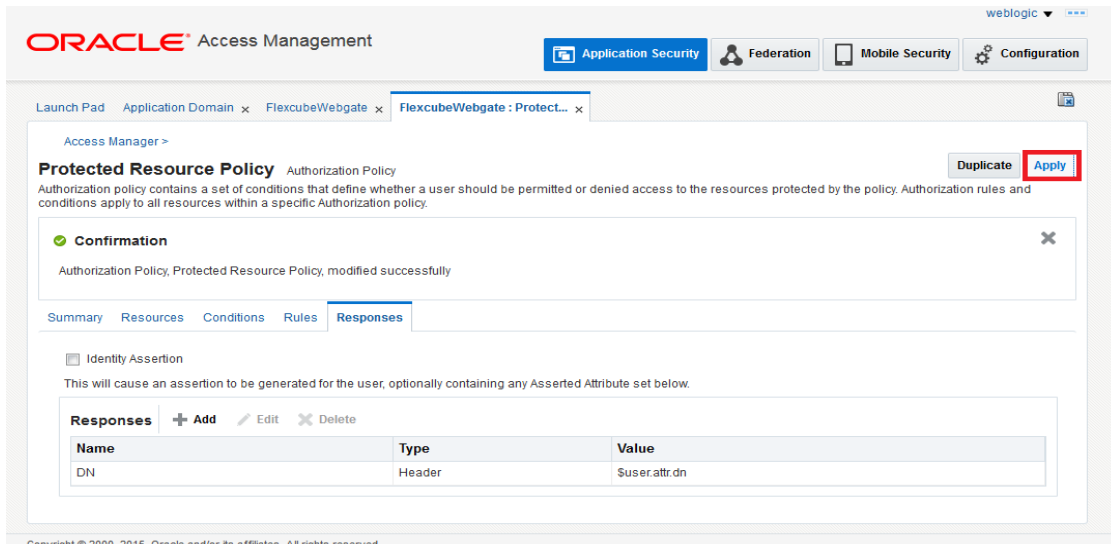
11. Enter the following values in the Add Response Window :

Type : Header
 Name : DN
 Value : \$user.attr.dn

Click on Add button



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



2.6.5.2 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 11g 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/

- 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

2.6.5.3 Add the Application Certificates to Oracle HTTP Server to work in SSL mode.

Use the ORAPKI tool to import the Flexcube and OAM Server certificates to Oracle HTTP Server. Add <Oracle_MIDDLEWARE>/oracle_common/bin to PATH environment variable and also set JAVA_HOME environment variable. Execute the below command in the command line.


```
orapki wallet add -wallet
<Oracle_MIDDLEWARE>/<ORACLE_WEBTIER_HOME>/instances/instance1/config/OHS/ohs1/keystore
s/default -trusted_cert -cert <export_certificate_file_name_with_location.cer> -auto_login_only
```

Note: Certificate has to be imported into OHS Wallet.

2.6.5.4 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 ON
```

```
    SecureProxy ON
```

```
    WLSSSLWallet
```

```
    "<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

2.6.5.5 Verify the Webgate 11g Agent Created

After configuring webgate 11g agent , launch the URL https://<hostname>:<ohs_Port>/ohs/modules/webgate.cgi?progid=1 to verify whether the webgate configuration is working fine. If the URL launches a screen as below then the webgate configuration is working fine.

Note *: To enable this option refer Oracle Doc ID: 1624131.1

Access Server	Connection State	Created	Installation Directory	Num Of Threads	Directory Information
ofss220028.in.oracle.com:5575, 1	Up	Friday, January 11, 2013 16:18:27			

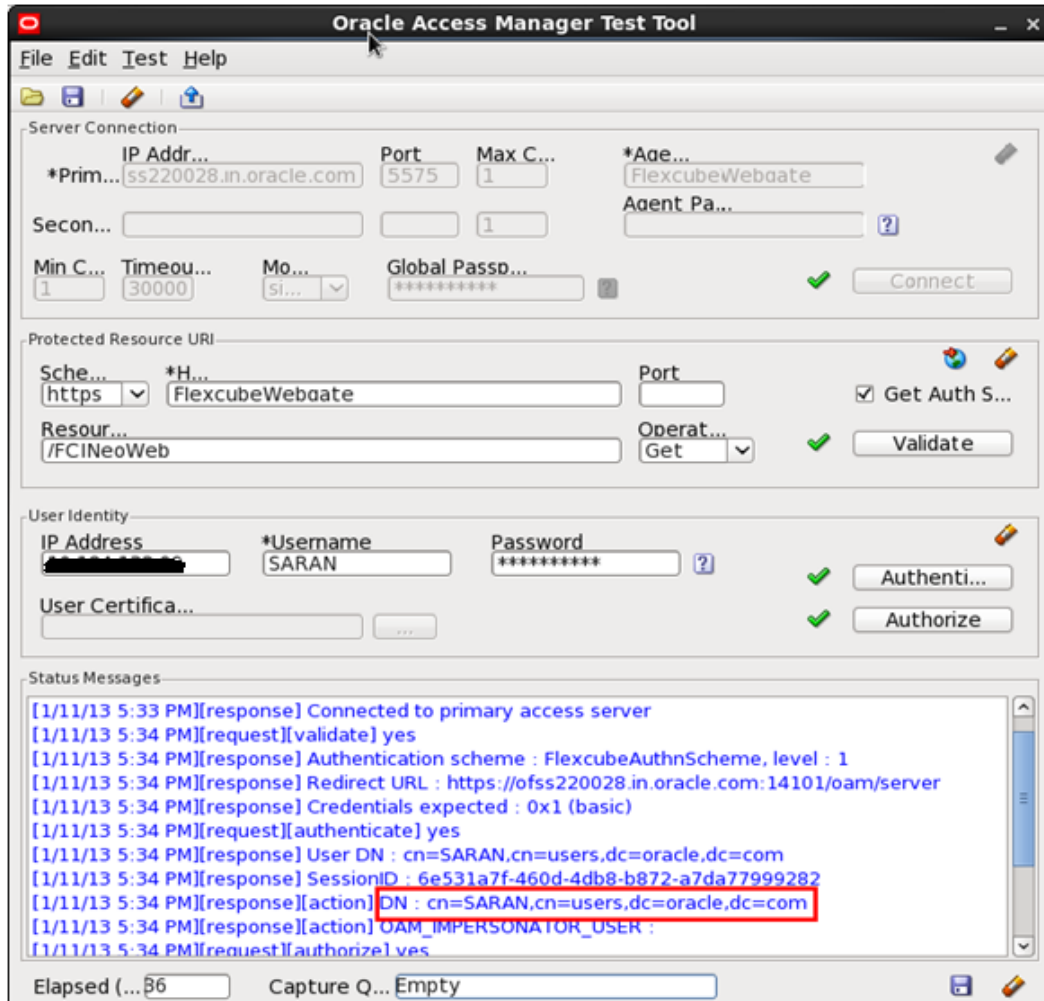
Cache Name	State	Max Elems	Curr Elems	Timeout (seconds)	Cache Stats (Hits:Misses:Expired:Flushed)	Memory Footprint (bytes)
Resource to Authentication Scheme	active	100000	100	1800	6451:273:61:0	59750
Authentication Scheme	active	25	1	1800	15012:34:33:0	802
Resource to Authorization Policy	active	100000	100	1800	381:127:27:0	43200
Authorization Result	active	1000	5	15	372:9:3:0	10845

2.6.5.6 Using OAM Test Tool (This step is not mandatory)

There is a test tool provided in OAM software which helps us to check the response parameter values. The test tool is available in <OAM Install Dir>\oam\server\tester.

For eg. D:\weblogic\Middleware\Oracle_IDM1\oam\server\tester

Use **java -jar oamtest.jar** to launch the OAM test tool.



2.6.5.7 Fix for Escape sequence character back slash (\) in front of comma (,) in OAM Header Variable

```
cd <Oracle_IDM>/common/bin
```

```
./wlst.sh or wlst.cmd
```

```
wls:/offline> connect()
```

Please enter your username :Weblogic

Please enter your password :

Please enter your server URL [t3://localhost:7001] :t3://localhost:7201

Connecting to t3://vm34.sg.oracle.com:8001 with userid weblogic ...

Successfully connected to Admin Server 'AdminServer' that belongs to domain 'iam_domain'.

Warning: An insecure protocol was used to connect to the server. To ensure on-the-wire security, the SSL port or Admin port should be used instead.

```
wls:/base_domain/serverConfig> domainRuntime()
```

Location changed to domainRuntime tree. This is a read-only tree with DomainMBean as the root.

For more help, use help(domainRuntime)

```
wls:/base_domain/domainRuntime> configurePolicyResponses(responseSeparator=",",  
responseEscapeChar="")
```

Policy Responses configuration is updated.

```
wls:/base_domain/domainRuntime>
```

2.7 First launch of FLEXCUBE after installation

After installing FLEXCUBE and while launching it for first time, the normal login screen with userid and password will appear. This is because the bank parameter maintenance will have the value for sso_intalled set to 'N' by default during installation.

2.7.1 Parameter Maintenance

2.7.1.1 Bank Parameter maintenance - UBS

To enable SSO in FLEXCUBE UBS, login into the application and enable "SSO Enabled" Check box in "Bank Maintenance [SMD BANKP]" screen.

The screenshot displays the 'Bank Parameters Maintenance' application window. The window title is 'Bank Parameters Maintenance'. The 'Save' button is visible in the top left. The 'Bank Code' is set to '000' and the 'Bank Name' is 'Bank Futura'. The 'Head Office Branch' section shows 'Branch Code' as '000' and 'Branch Description' as 'Bank Futura'. The 'Financial Preferences' tab is active, with sub-tabs for 'General Preferences' and 'FATCA'. The 'Format Mask' section includes 'Cif Mask' (bbnnnnnn) and 'General Ledger Mask' (nnnnnnnn). The 'Spread' section has 'Spread Application' set to 'Both Legs', 'Spoo Files Purge Days' at 90, and 'Inter Pay Lead Days' at 3. The 'Year End Profit and Loss' section shows 'General Ledger' (221000002) and 'Transaction Code' (YET). The 'General Ledger Purge Days' is empty. The 'SSO Enabled' checkbox is checked and highlighted with a red box. Other options include 'Auto Batch', 'User Batch Restriction', 'Checksum Algorithm', 'Checksum Algorithm Unique for', and 'Lodgement Numbers Unique For Branch'. The 'Cheque Numbering Details' section shows 'Scheme' as 'Automatic' and 'Cheque Number Mask' as 'NNNNNN'. The 'IRS Details' section is partially visible. The bottom status bar shows 'Maker', 'Checker', 'Mod No 229', 'Date Time', 'Record Status Open', and 'Authorization Status'. A 'Cancel' button is in the bottom right.

2.7.1.2 Parameters Maintenance – IS

There is no such a screen to maintain the SSO Enabled Parameter in FLEXCUBE Investor Servicing.

2.7.2 Maintaining LDAP DN for FLEXCUBE users

For each user id in FLEXCUBE a user has to be created in the LDAP.

When creating the user in LDAP, ensure that the DN used is same as the LDAP DN value that will be updated in user maintenance form. Once the user is created in LDAP go to the user maintenance form in FCUBS. If the FCUBS user already exists then unlock the user and update the LDAP DN value which was set when creating the user in LDAP. Click on Validate button to check whether any other user is having the same LDAP DN value.

LDAP DN value should be entered as complete DN value.

eg.

cn=FCUSR,cn=Users,dc=oracle,dc=com

For FLEXCUBE – UBS

User Maintenance

Save

User Details

User Identification * FCUBSUSER
 Name * FCUBSUSER
 User Reference
 Language * ENG
 Home Branch * 000
 Customer No
 Department Code
 Department Description
 Tax Identifier
 LDAP DN **cn=FCUBSUSER,cn=Us**
 Time Level * 9
 Amount Format
 Date Format
 Auto Authorization
 Validate
 Supervisor Identification
 Supervisor Name

User Status
 Enabled
 Hold
 Disabled
 Locked
 Classification
 Staff
 Branch
 Status Changed On 2011-01-04
 Last Signed On
 Staff Customer Restriction Required
 ELCM User ID
 Multi Branch Access
 Other RM Customer Access Restricted
 Show Dashboards
 Alerts on Home
 MFI User
 F10 Access Required
 F11 Access Required
 F12 Access Required

User Password

Password
 Password Changed On 2012-01-04
 Email
 Reference No

Invalid Logins

No of Cumulative Logins 17
 No of Successive Logins 0

Screen Saver Details

Screensaver Interval (in seconds) 3600

Restricted Password | Roles | Rights | Functions | Tills | Account Classes | General Ledgers | Limits | Branches |

For FLEXCUBE - IS

User Admin

Save

User Details

User Identification * FCISUSER
 Name * FCIS User
 External Identifier
 LDAP DN **cn=FCUSR,cn=Users,d**
 Number Format
 XXX,XXX,XXX,XXX
 XX,XX,XX,XX,XX
 Language * ENG
 Home Branch * 000
 Home Module * FMG
 Debug Window Enabled
 Classification
 Staff
 Auto End Of Day
 Customer

Modules

Investments
 Corporate

Status Description

User Status
 Enabled
 Hold
 Disabled
 Locked
 Time Level * 9
 Status Changed On
 Last Signed On

Invalid Logins

Cumulative 0
 Successive 0

User Passwords

Password
 Password Changed On
 Email
 Start Date * 07/26/2014
 End Date

Amount Limits

Override Amount *
 Transaction Amount *
 Auth Amount *
 Date Format MM/DD/YYYY
 Auto Auth No
 Amount Format Dot Comma

Restricted Passwords | Roles | Functions | Branches | Module | Disallowed Functions

Input by
 Authorized by
 DateTime
 DateTime
 Mod No
 Open
 Authorized

OK Cancel

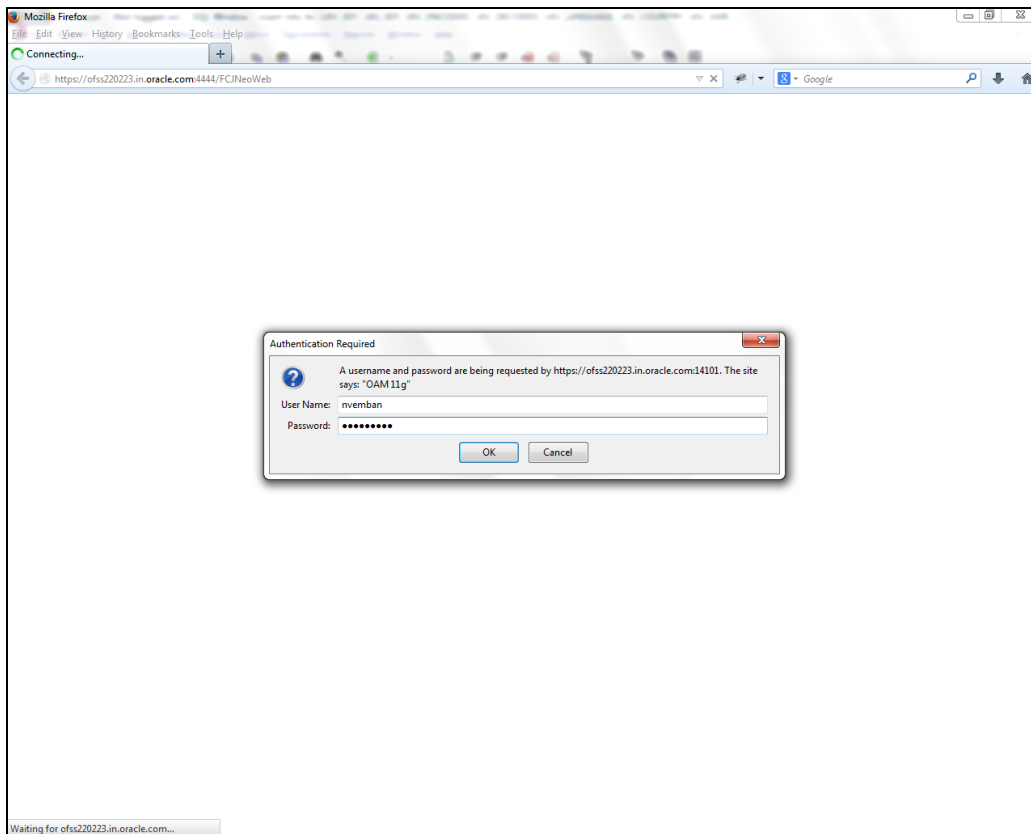
2.7.3 **Launching FLEXCUBE**

After setting up FLEXCUBE to work on Single Sign on mode, navigate to the URL <https://<hostname>:<OHS SSL Port>/<Context Root>> from your browser

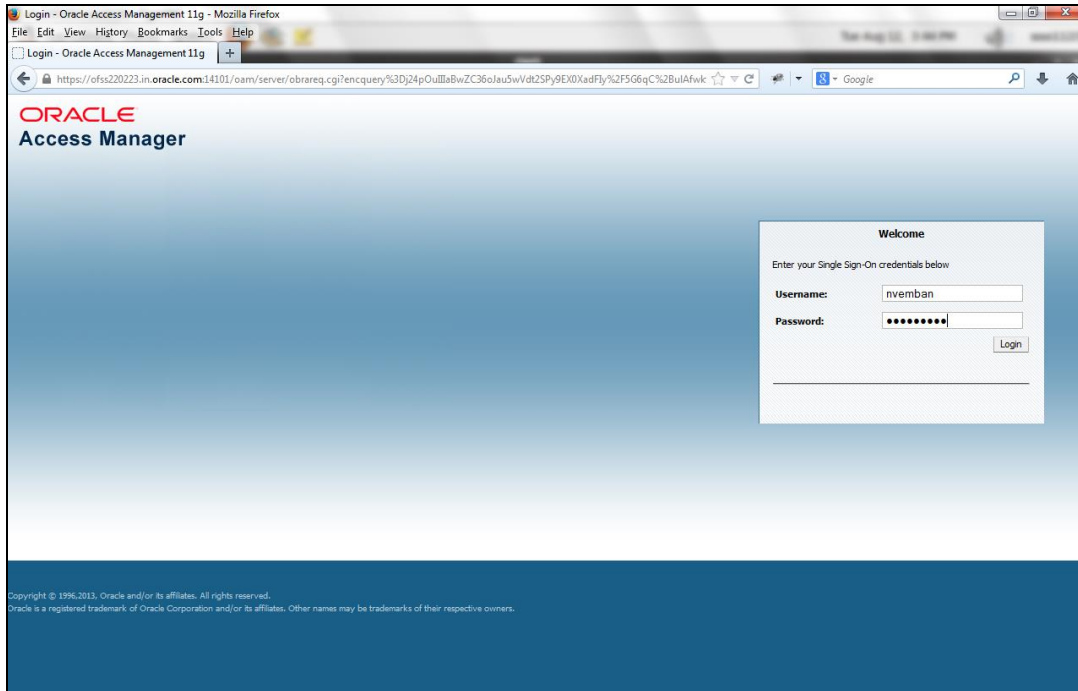
eg: <https://ofss00001.in.oracle.com:4443/FCJNeoWeb>

Since the resource is protected, the WebGate challenges the user for credentials as shown below.

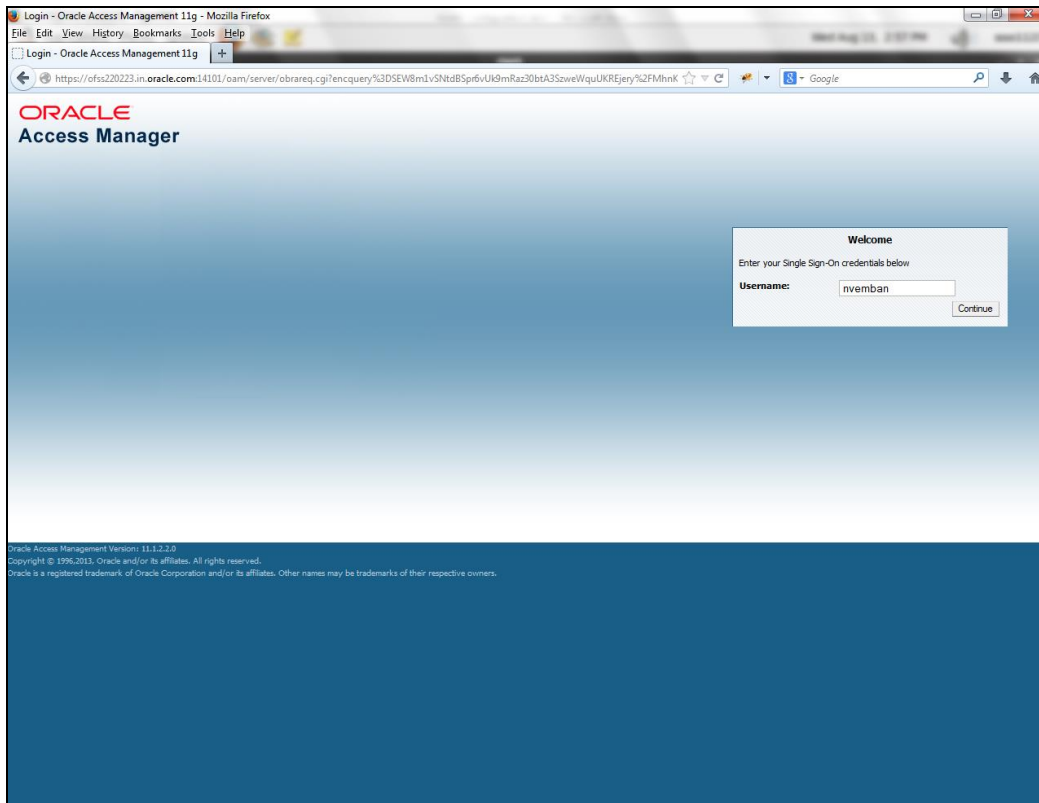
2.7.3.1 Basic Style Challenge by Webgate



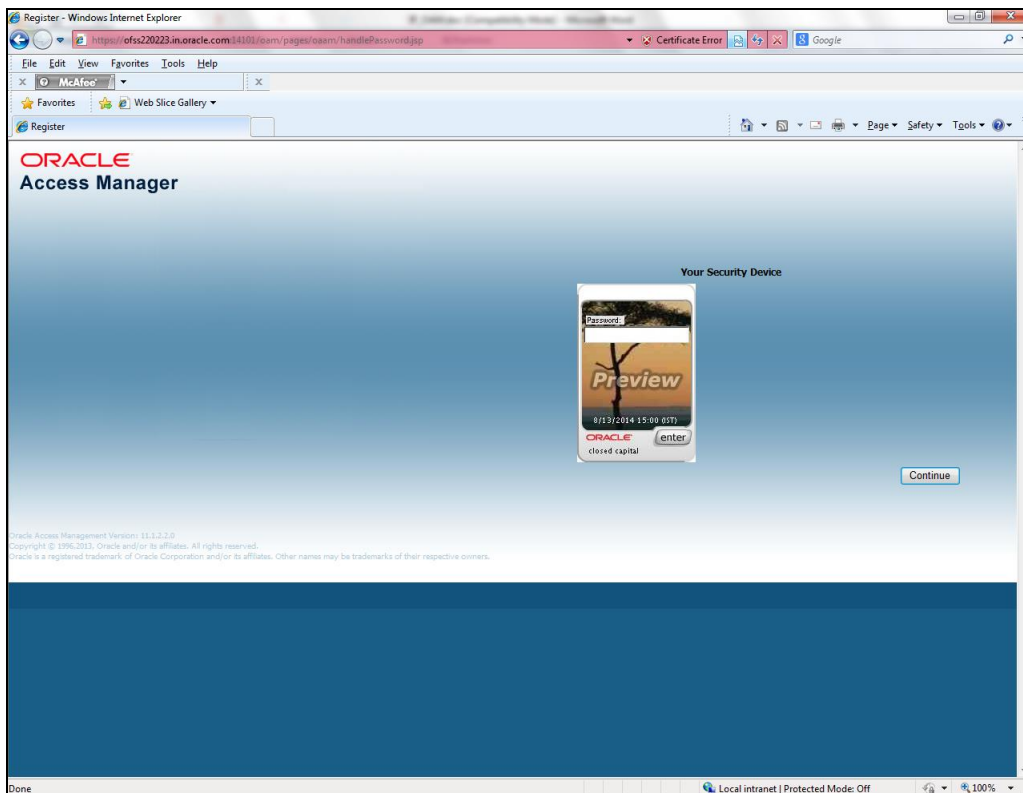
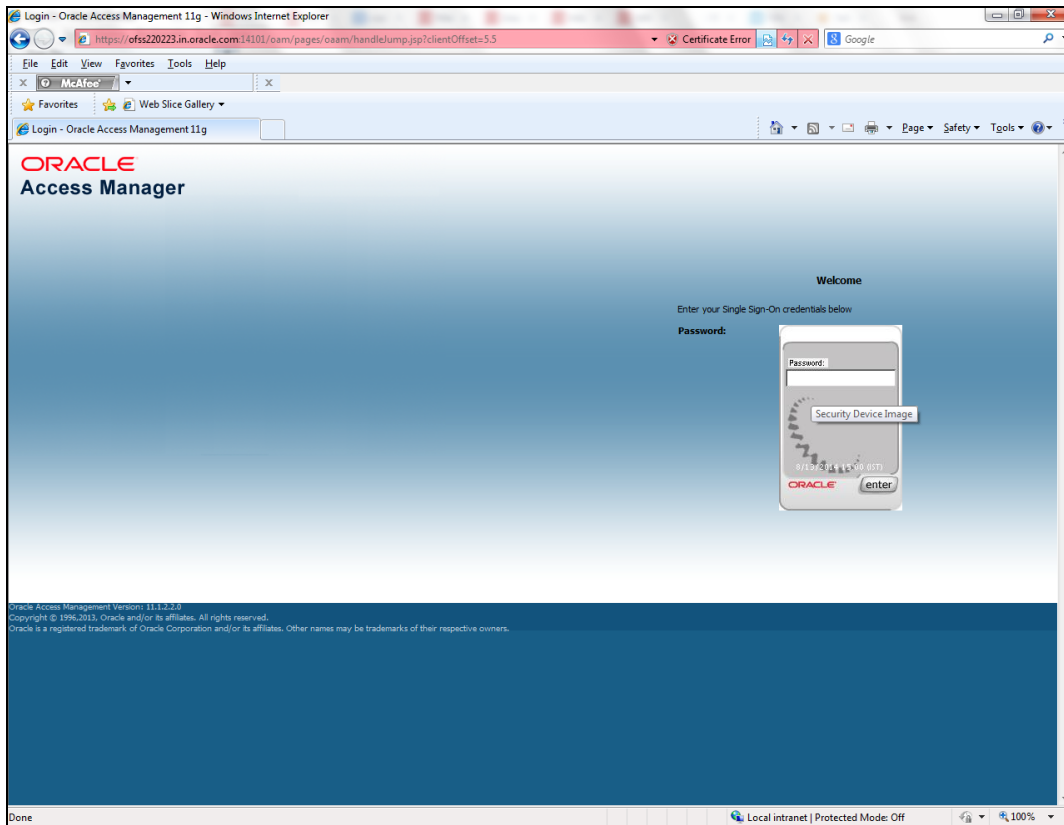
2.7.3.2 Form Style Challenge by Webgate

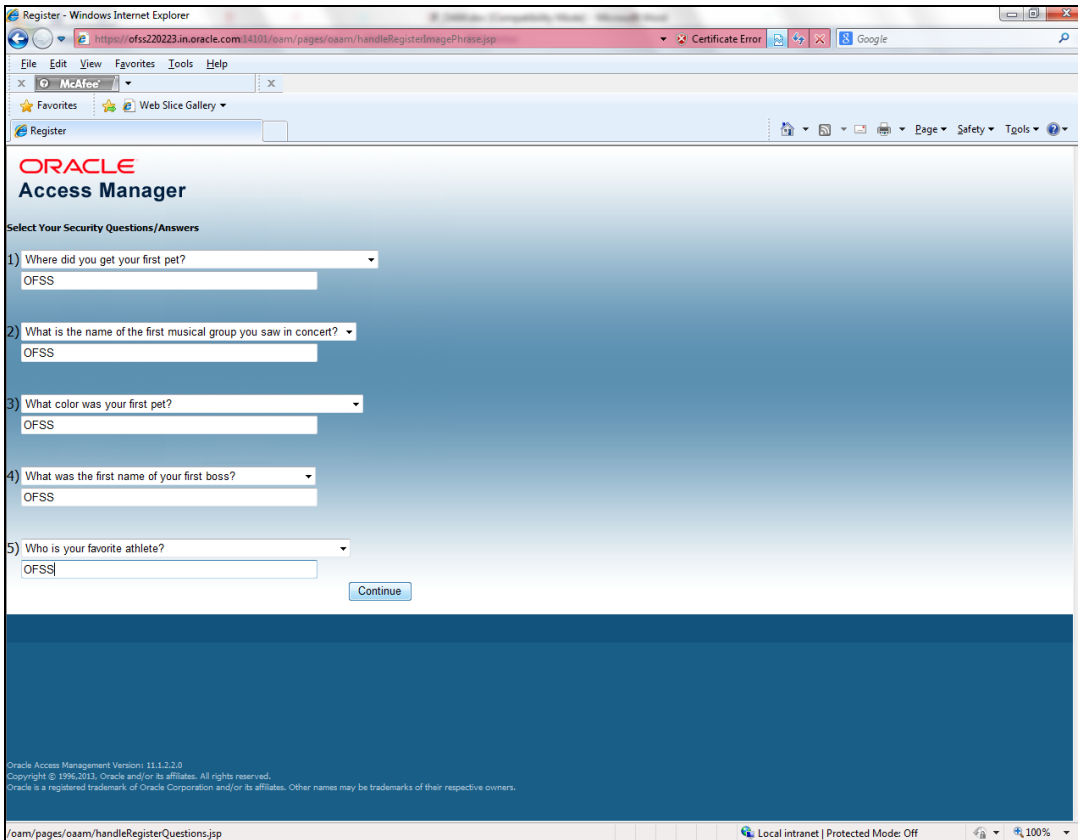
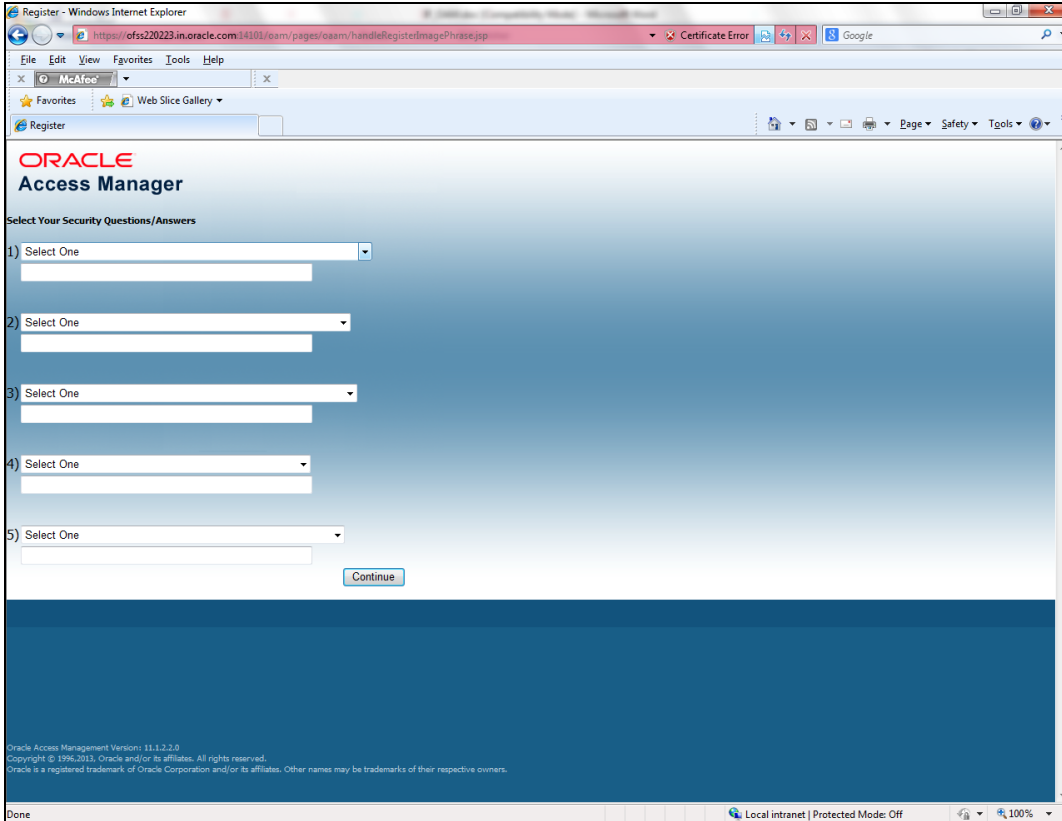


2.7.3.3 KBA Based Strong Authentication Challenge by Webgate(Only when OAM is used)

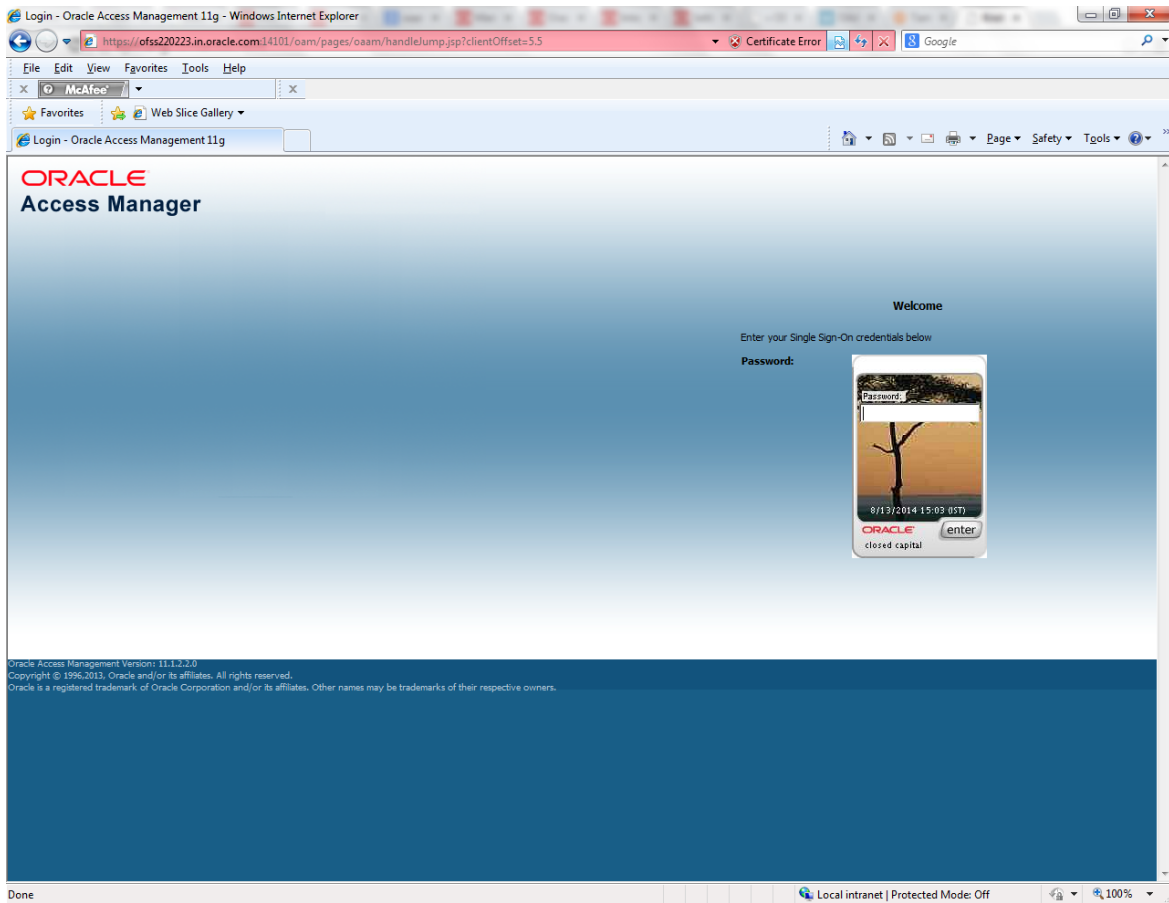


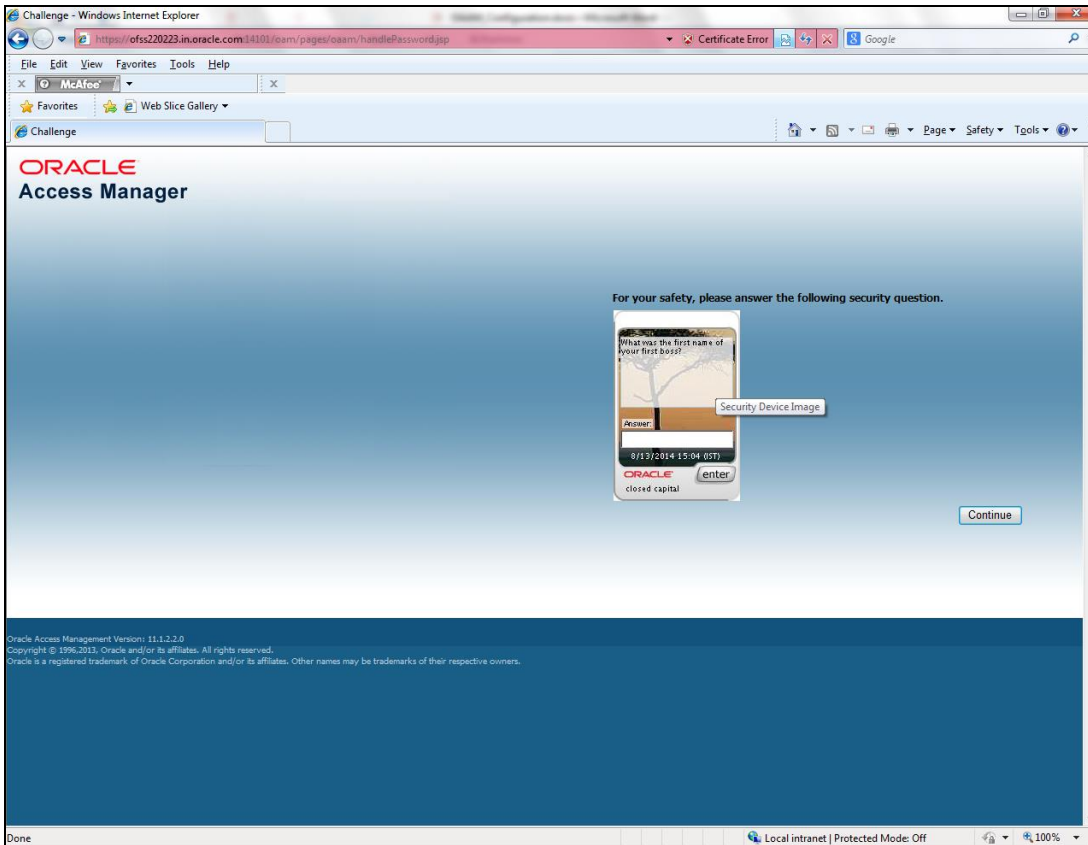
First Time Login





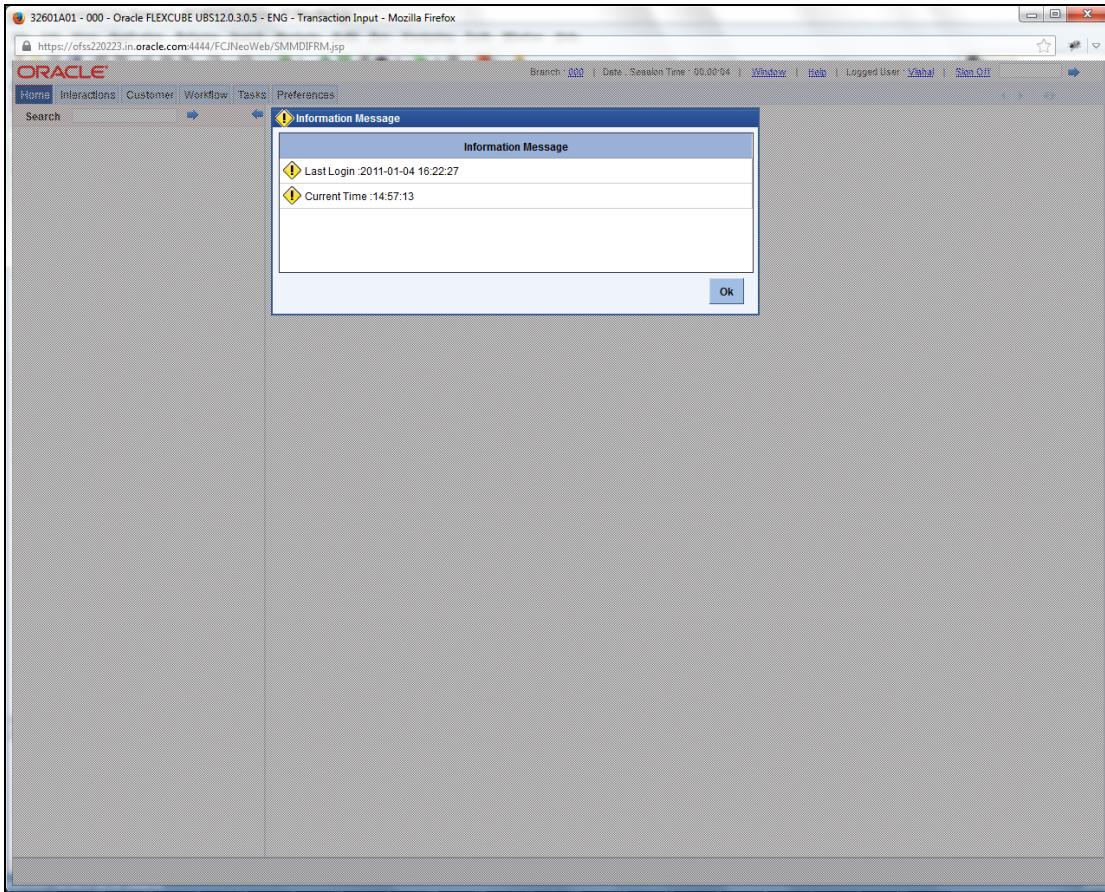
Post First Login





Once the user is authenticated and authorized to access the resource, the request gets redirected to normal FLEXCUBE application and it will take the user to Home Branch.

2.7.3.4 After SSO Login FLEXCUBE Application launch - Home Branch / Module



2.7.4 Signoff in a SSO Situation

FLEXCUBE does not provide for single signoff currently, i.e., when a user signs off in FLEXCUBE, the session established with Oracle Access Manager by the user will not be modified in any manner.

In a SSO situation the “Exit” and “Logoff” actions in FLEXCUBE will function as “Exit”, i.e., on clicking these, the user will “exit” FLEXCUBE and will need to re-launch FLEXCUBE using the FLEXCUBE launch URL.



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