

Oracle Access Manager Integration
Oracle FLEXCUBE Investor Servicing
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1. Preface

1.1 Introduction

This manual discusses the integration of Oracle FLEXCUBE Investor Servicing 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
IS	Investor Servicing
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 IS 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.

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
"SHA256withRSA" -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:

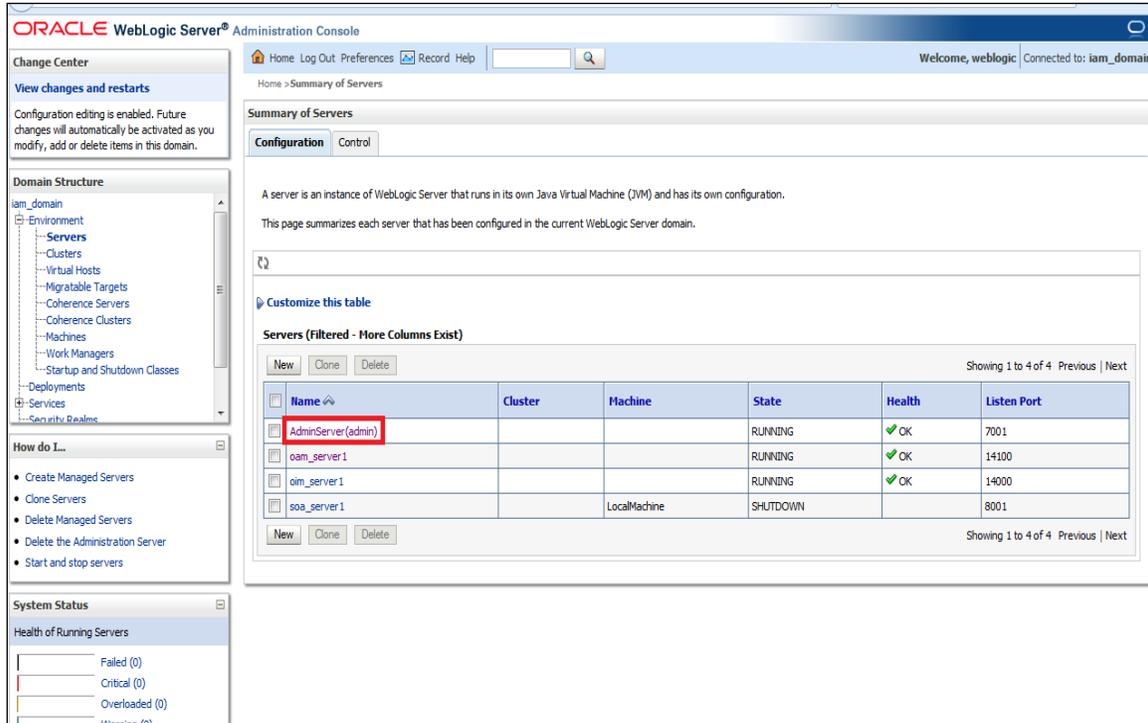
```
keytool -import -v -trustcacerts -alias rootcacert -file AdminFlexcubeCert.cer -keystore AdminFlexcubeKeyStore.jks -keypass Password@123 -storepass Password@123
```

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

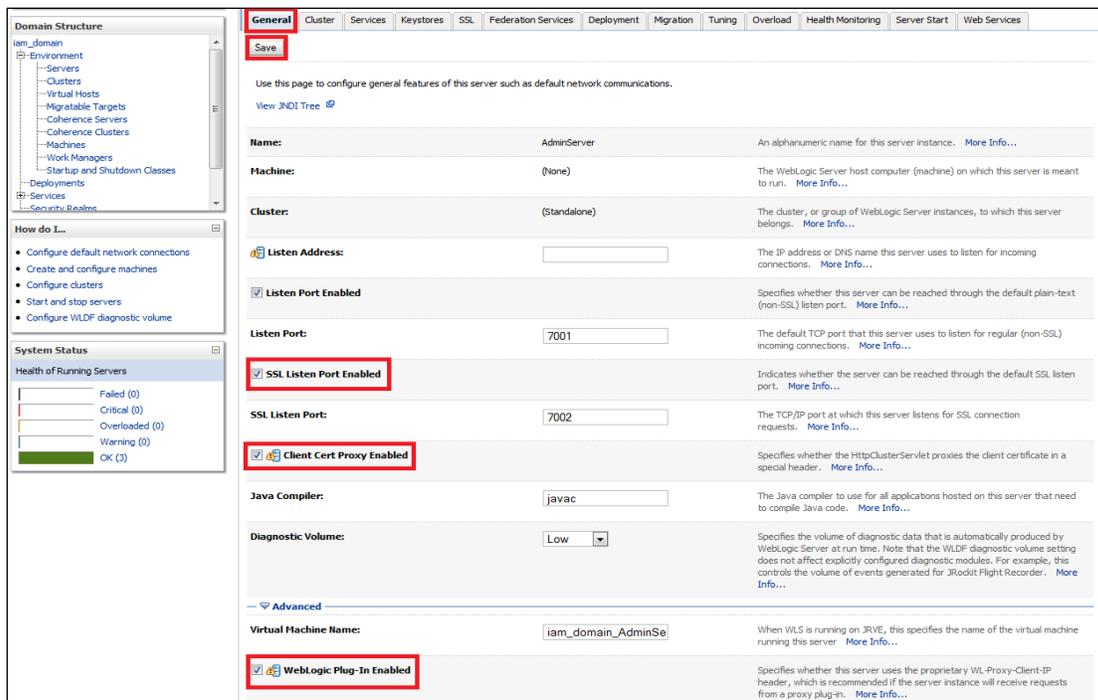


The screenshot shows the Oracle WebLogic Server Administration Console interface. The main content area displays the 'Summary of Servers' page, which includes a table of configured servers. The 'AdminServer(admin)' server is highlighted with a red box. The table columns are Name, Cluster, Machine, State, Health, and Listen Port. The 'AdminServer(admin)' server is in a RUNNING state with a Health of OK and a Listen Port of 7001. Other servers listed include oam_server1 (RUNNING, OK, 14100), oim_server1 (RUNNING, OK, 14000), and soa_server1 (SHUTDOWN, LocalMachine, 8001).

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:

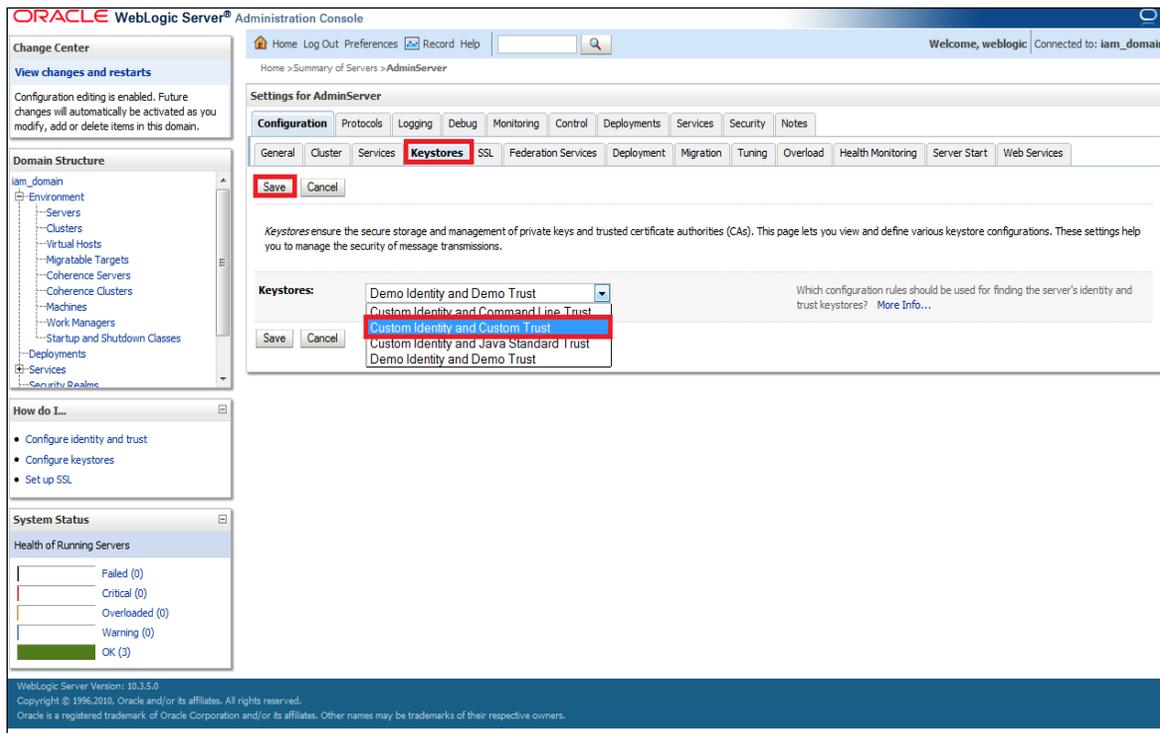
1. Select SSL Listen Port Enabled, Client Cert Proxy Enabled, Weblogic Plug-In Enabled.
2. Click on Save.



2.5.2.3 Follow the steps in Keystores Tab as shown below:

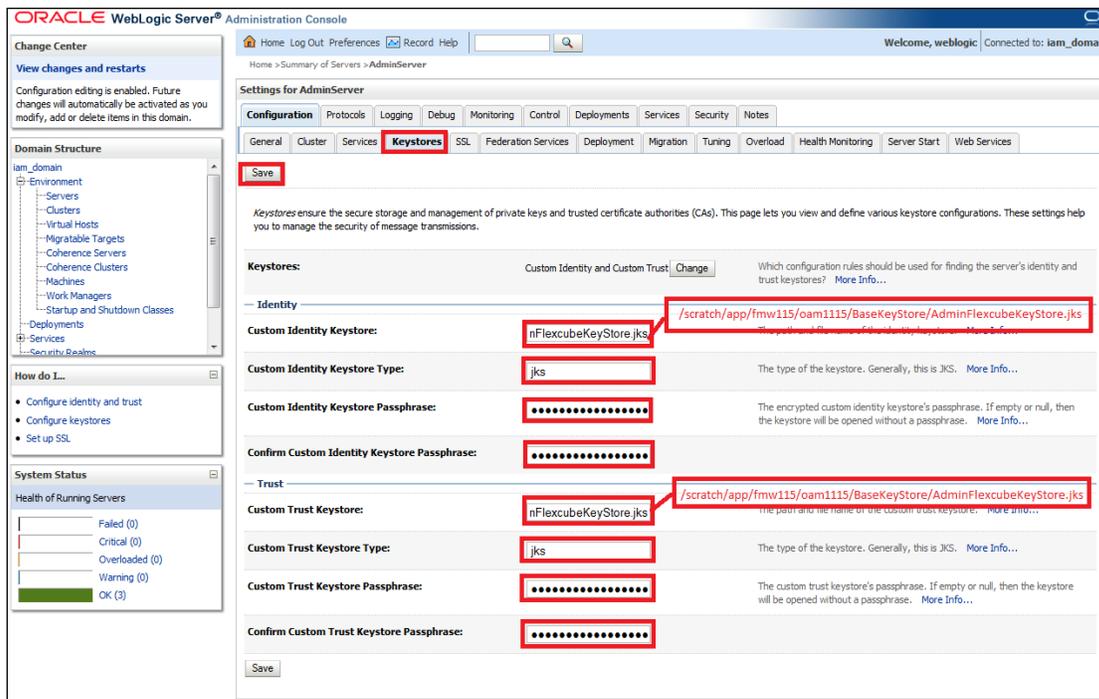
1. Click Change and select Keystores as Custom Identity and Custom Trust.
2. Click on Save.

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



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 during Key Store Creation.
2. Enter Private Key Passphrase and Confirm Private Key Passphrase as same as the Private Key Password entered during Key Store Creation.
3. Change the Hostname Verification to None.
4. Select Use JSSE SSL option
5. Click on Save.

Change Center

View changes and restarts

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

Domain Structure

- iam_domain
 - Environment
 - Servers
 - Clusters
 - Virtual Hosts
 - Migratable Targets
 - Coherence Servers
 - Coherence Clusters
 - Machines
 - Work Managers
 - Startup and Shutdown Classes
 - Deployments
 - Services
 - Security Realms

How do I...

- Configure identity and trust
- Set up SSL
- Verify host name verification is enabled
- Configure a custom host name verifier
- Configure two-way SSL

System Status

Health of Running Servers

- Failed (0)
- Critical (0)
- Overloaded (0)
- Warning (0)
- OK (2)

Warning (0)

OK (2)

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

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.

Identity and Trust Locations: Keystores [Change](#) Indicates where SSL should find the server's identity (certificate and private key) as well as the server's trust (trusted CAs). [More Info...](#)

Identity

Private Key Location: from Custom Identity Keystore The keystore attribute that defines the location of the private key file. [More Info...](#)

Private Key Alias: The keystore attribute that defines the string alias used to store and retrieve the server's private key. [More Info...](#)

Private Key Passphrase: The keystore attribute that defines the passphrase used to retrieve the server's private key. [More Info...](#)

Confirm Private Key Passphrase: [More Info...](#)

Certificate Location: from Custom Identity Keystore The keystore attribute that defines the location of the trusted certificate. [More Info...](#)

Trust

Trusted Certificate Authorities: from Custom Trust Keystore The keystore attribute that defines the location of the certificate authorities. [More Info...](#)

Advanced

Hostname Verification: Specifies whether to ignore the installed implementation of the weblogic.security.SSL.HostnameVerifier interface (when this server is acting as a client to another application server). [More Info...](#)

Custom Hostname Verifier: The name of the class that implements the weblogic.security.SSL.HostnameVerifier interface. [More Info...](#)

Export Key Lifespan: Indicates the number of times WebLogic Server can use an exportable key between a domestic server and an exportable client before generating a new key. The more secure you want WebLogic Server to be, the fewer times the key should be used before generating a new key. [More Info...](#)

Use Server Certs Sets whether the client should use the server certificates/key as the client

client to another application server). [More Info...](#)

Custom Hostname Verifier: The name of the class that implements the weblogic.security.SSL.HostnameVerifier interface. [More Info...](#)

Export Key Lifespan: Indicates the number of times WebLogic Server can use an exportable key between a domestic server and an exportable client before generating a new key. The more secure you want WebLogic Server to be, the fewer times the key should be used before generating a new key. [More Info...](#)

Use Server Certs Sets whether the client should use the server certificates/key as the client identity when initiating an outbound connection over https. [More Info...](#)

Two Way Client Cert Behavior: The form of SSL that should be used. [More Info...](#)

Cert Authenticator: The name of the Java class that implements the weblogic.security.acl.CertAuthenticator class, which is deprecated in this release of WebLogic Server. This field is for Compatibility security only, and is only used when the Realm Adapter Authentication provider is configured. [More Info...](#)

SSLRejection Logging Enabled Indicates whether warning messages are logged in the server log when SSL connections are rejected. [More Info...](#)

Allow Unencrypted Null Cipher Test if the AllowUnencryptedNullCipher is enabled [More Info...](#)

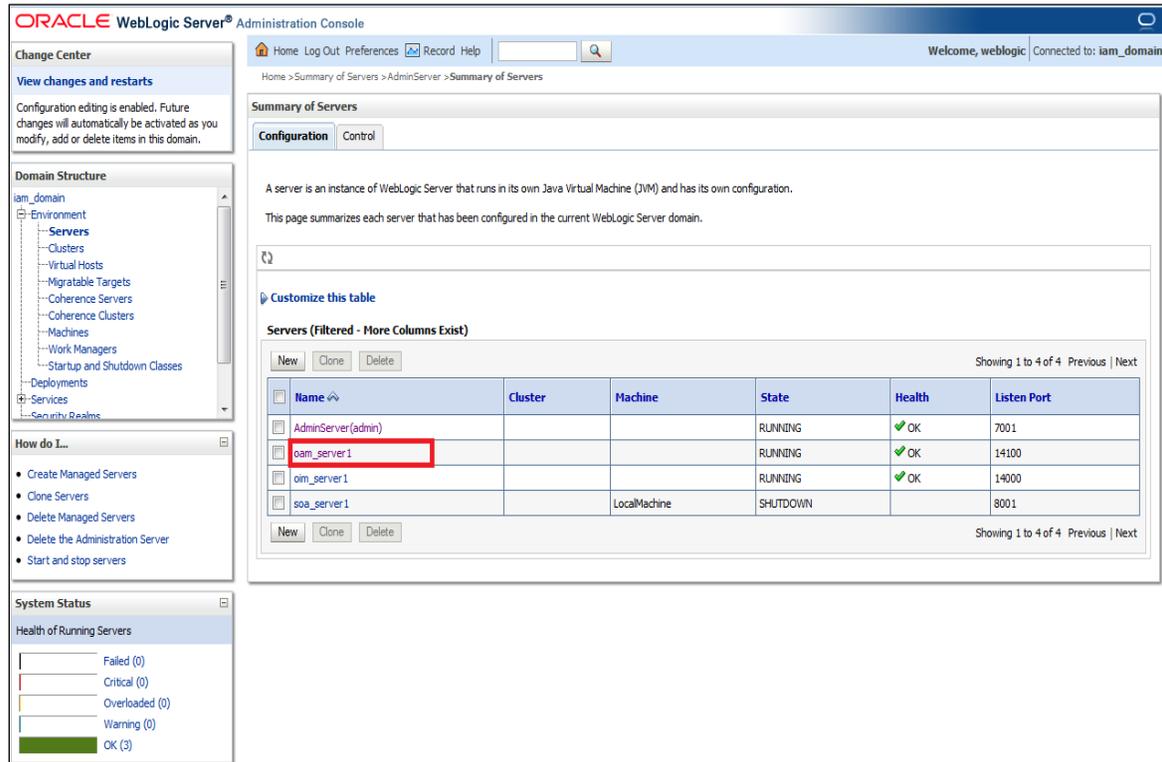
Inbound Certificate Validation: Indicates the client certificate validation rules for inbound SSL. [More Info...](#)

Outbound Certificate Validation: Indicates the server certificate validation rules for outbound SSL. [More Info...](#)

Use JSSE SSL Select the JSSE SSL implementation to be used in Weblogic. [More Info...](#)

Save

6. Select OAM Server to enable SSL options and Repeat the steps performed for admin server



The screenshot displays the Oracle WebLogic Server Administration Console. The main content area shows the 'Summary of Servers' page for the 'AdminServer' domain. A table lists the servers, with 'oam_server1' highlighted by a red box. The table columns are Name, Cluster, Machine, State, Health, and Listen Port.

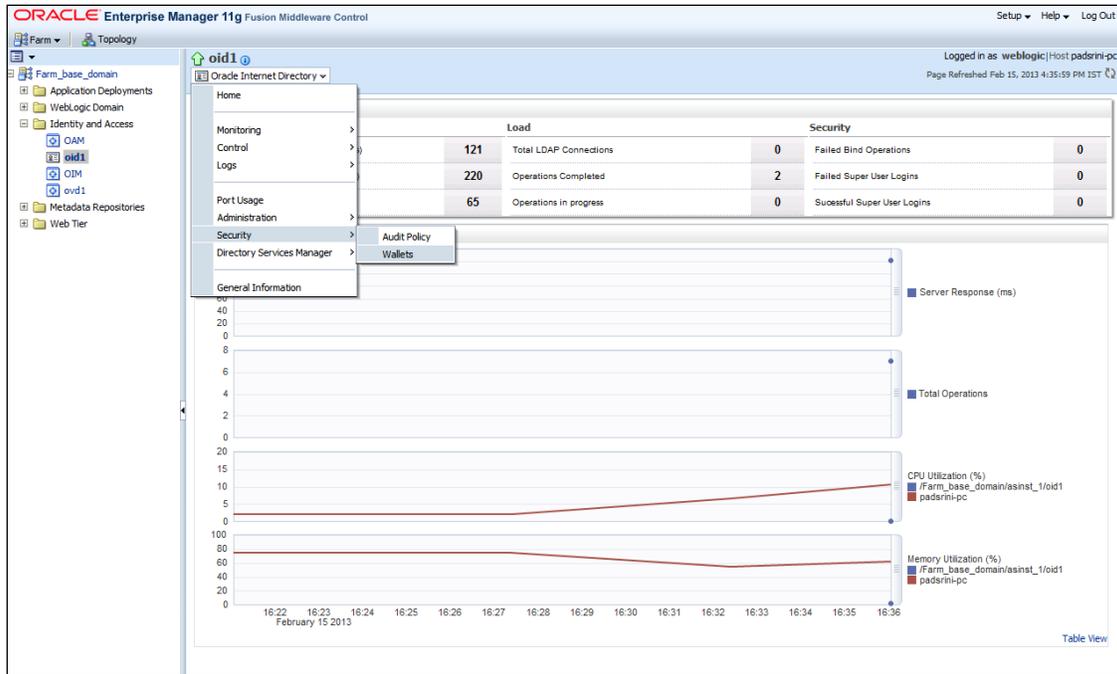
Name	Cluster	Machine	State	Health	Listen Port
AdminServer(admin)			RUNNING	OK	7001
oam_server1			RUNNING	OK	14100
oim_server1			RUNNING	OK	14000
soa_server1		LocalMachine	SHUTDOWN		8001

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

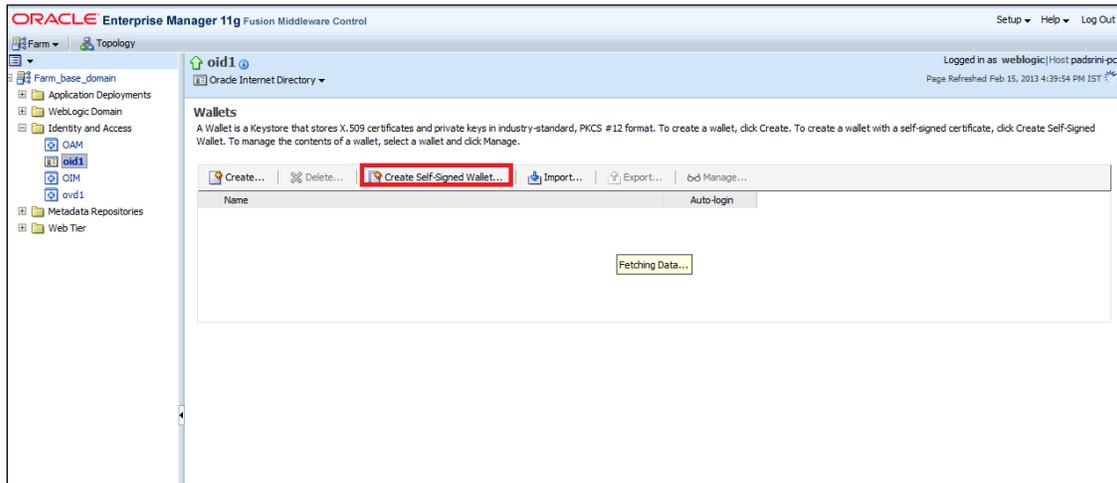
2.5.3 Configuring SSL Mode in Oracle Internet Directory

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

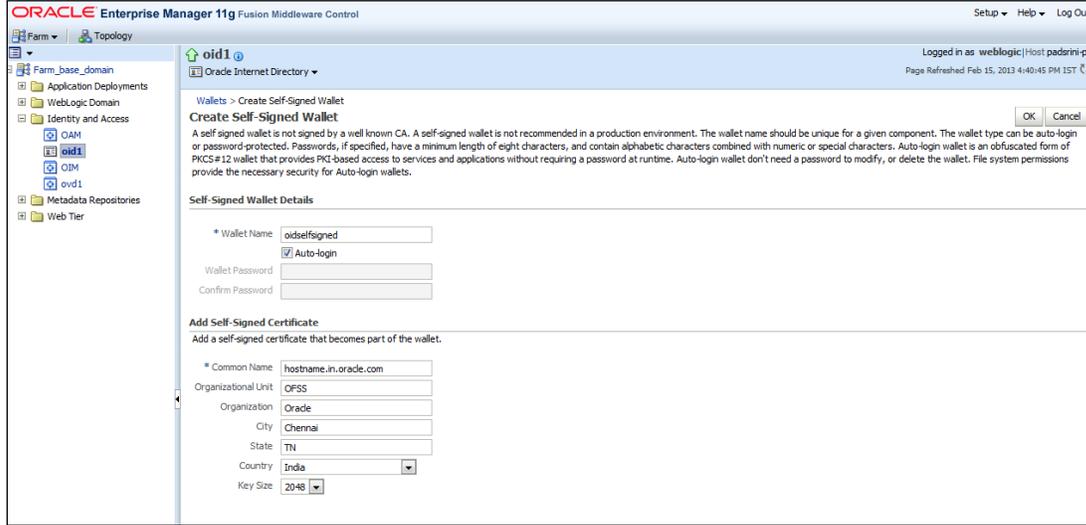
1. Login to the Enterprise Manager Console of the domain, in which Oracle Internet Directory is associated.



2. Click 'Create Self-Signed Wallet'.



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



ORACLE Enterprise Manager 11g Fusion Middleware Control

Walleys > Create Self-Signed Wallet

Create Self-Signed Wallet

A self-signed wallet is not signed by a well known CA. A self-signed wallet is not recommended in a production environment. The wallet name should be unique for a given component. The wallet type can be auto-login or password-protected. Passwords, if specified, have a minimum length of eight characters, and contain alphabetic characters combined with numeric or special characters. Auto-login wallet is an obfuscated form of PKCS #12 wallet that provides PKI-based access to services and applications without requiring a password at runtime. Auto-login wallet does not need a password to modify, or delete the wallet. File system permissions provide the necessary security for Auto-login wallets.

Self-Signed Wallet Details

* Wallet Name:

Auto-login

Wallet Password:

Confirm Password:

Add Self-Signed Certificate

Add a self-signed certificate that becomes part of the wallet.

* Common Name:

Organizational Unit:

Organization:

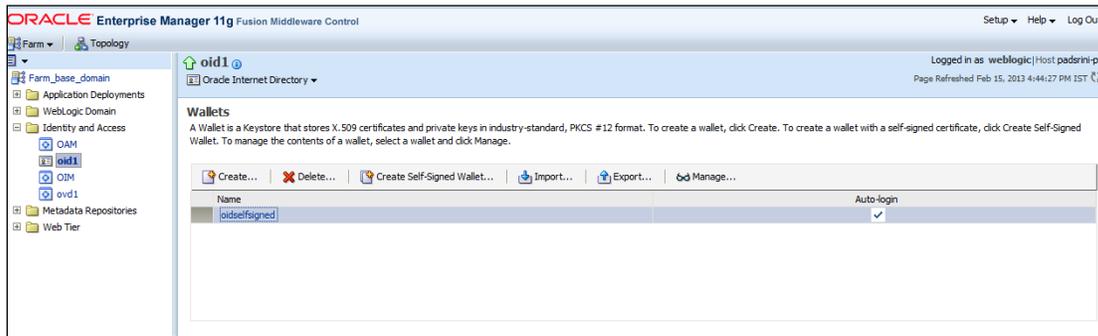
City:

State:

Country:

Key Size:

4. Click

ORACLE Enterprise Manager 11g Fusion Middleware Control

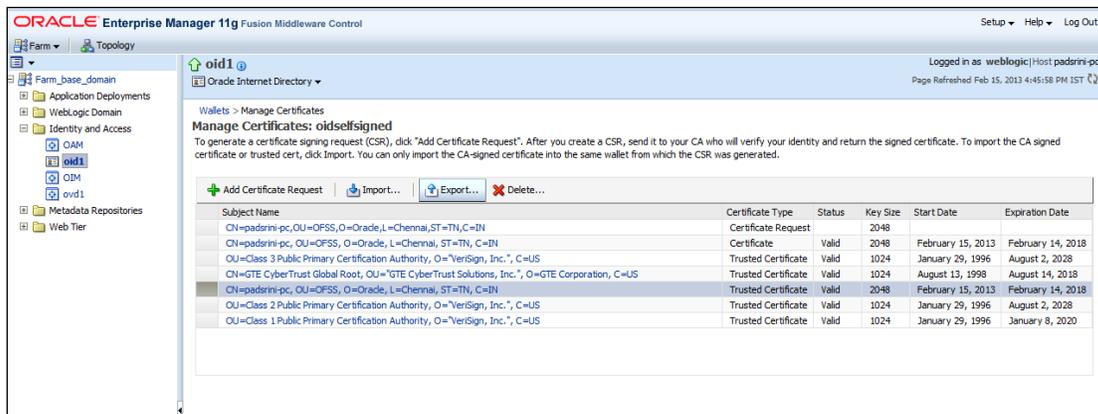
Walleys

A Wallet is a Keystore that stores X.509 certificates and private keys in industry-standard, PKCS #12 format. To create a wallet, click Create. To create a wallet with a self-signed certificate, click Create Self-Signed Wallet. To manage the contents of a wallet, select a wallet and click Manage.

Create... Delete... Create Self-Signed Wallet... Import... Export... Manage...

Name	Auto-login
oidselfsigned	<input checked="" type="checkbox"/>

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



ORACLE Enterprise Manager 11g Fusion Middleware Control

Walleys > Manage Certificates

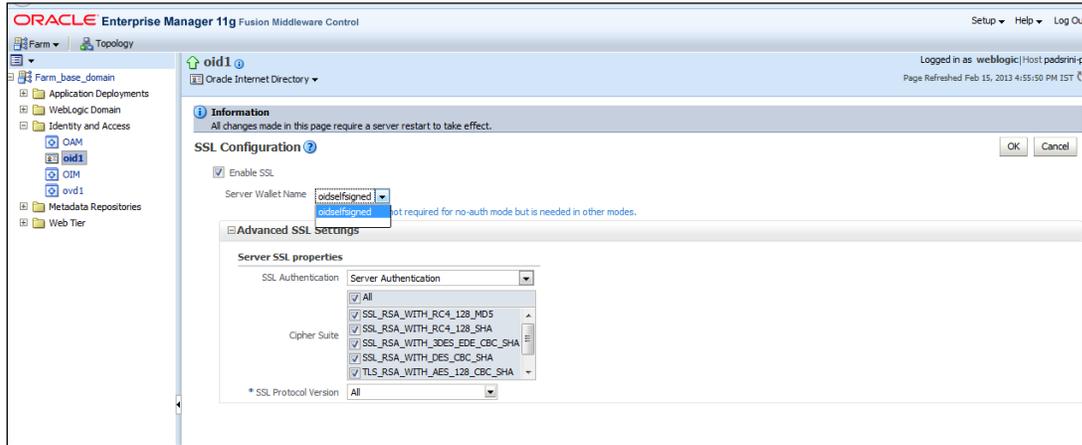
Manage Certificates: oidselfsigned

To generate a certificate signing request (CSR), click "Add Certificate Request". After you create a CSR, send it to your CA who will verify your identity and return the signed certificate. To import the CA signed certificate or trusted cert, click Import. You can only import the CA-signed certificate into the same wallet from which the CSR was generated.

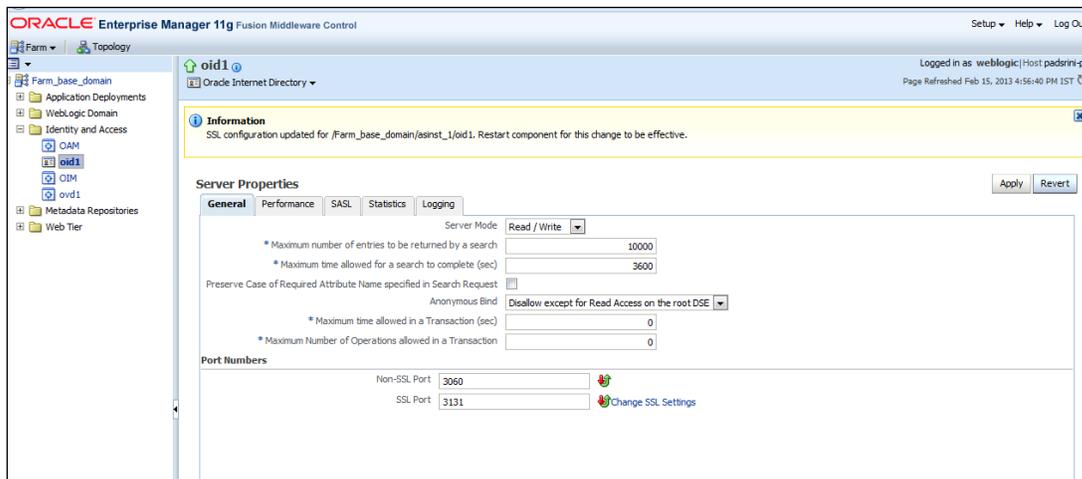
Add Certificate Request Import... Export... Delete...

Subject Name	Certificate Type	Status	Key Size	Start Date	Expiration Date
CN=padrini-px, OU=OFSS, O=Oracle, L=Chennai, ST=TN, C=IN	Certificate Request		2048		
CN=padrini-px, OU=OFSS, O=Oracle, L=Chennai, ST=TN, C=IN	Certificate	Valid	2048	February 15, 2013	February 14, 2018
OU=Class 3 Public Primary Certification Authority, O=VeriSign, Inc., C=US	Trusted Certificate	Valid	1024	January 29, 1996	August 2, 2028
CN=GTE CyberTrust Global Root, OU="GTE CyberTrust Solutions, Inc.", O=GTE Corporation, C=US	Trusted Certificate	Valid	1024	August 13, 1998	August 14, 2018
CN=padrini-px, OU=OFSS, O=Oracle, L=Chennai, ST=TN, C=IN	Trusted Certificate	Valid	2048	February 15, 2013	February 14, 2018
OU=Class 2 Public Primary Certification Authority, O=VeriSign, Inc., C=US	Trusted Certificate	Valid	1024	January 29, 1996	August 2, 2028
OU=Class 1 Public Primary Certification Authority, O=VeriSign, Inc., C=US	Trusted Certificate	Valid	1024	January 29, 1996	January 8, 2020

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



- 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.

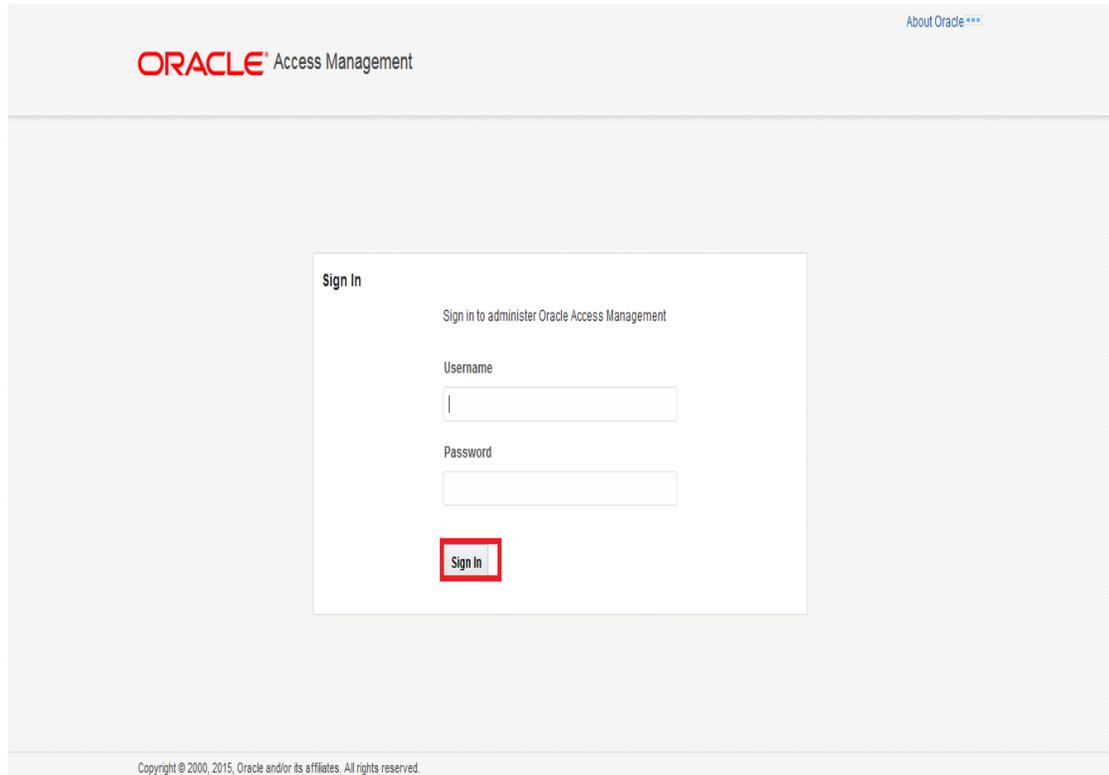
2.6 Configuring SSO in OAM Console

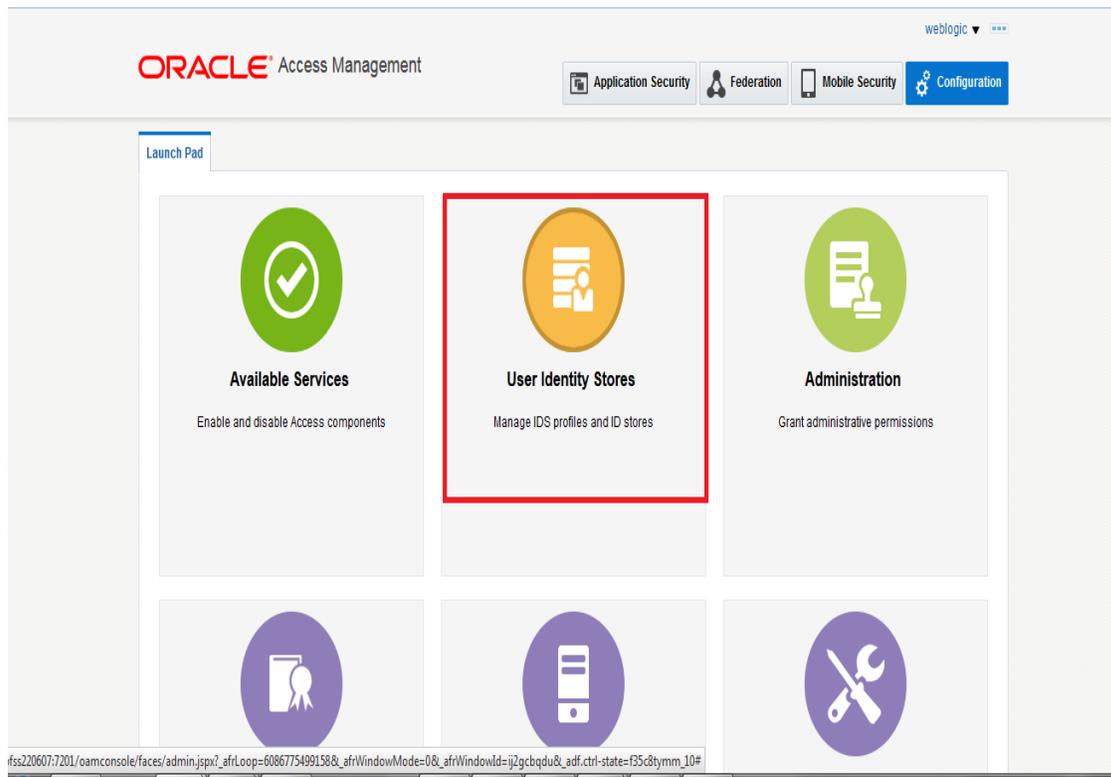
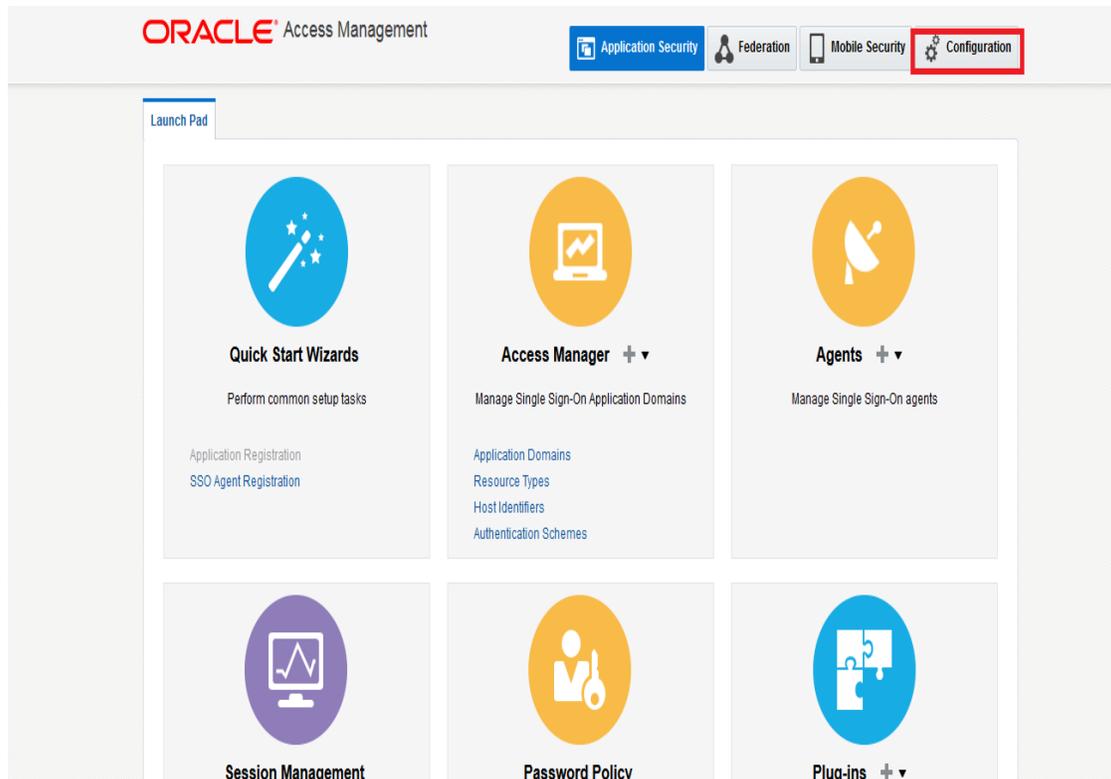
After installing OAM, Webtier Utilities and Webgate, extend the Weblogic domain to create OAM server.

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)

2.6.1 Identity Store Creation

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





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'. Below this, a 'Launch Pad' shows 'User Identity Stores' as the active tab. The main content area is titled 'User Identity Stores' and includes a 'Configuration >' breadcrumb. There are two main sections: 'Default and System Store' with dropdowns for 'Default Store' and 'System Store' (both set to 'UserIdentityStore1'), and 'OAM ID Stores' with a 'Sync IDS Profiles' button. Below these is a table with columns: Name, Directory Type, Host Information, Description, and Synched IDS Profiles. A 'Create' button is highlighted with a red box. At the bottom, there is a section for 'Identity Directory Service' with explanatory text.

Name	Directory Type	Host Information	Description	Synched IDS Profiles
UserIdentityStore1	EMBEDDED_LDAP	Idap-host:7001		No

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:

Location and Credentials

Location: ofss220607.in.oracle.com:3131

Bind DN: cn=orcladmin

Enable SSL:

Use Native ID Store Settings:

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:

Group Name Attribute:

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

Prefetched Attributes:

Password:

Test Connection **Apply**

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:

Location and Credentials

Location: ofss220607.in.oracle.com:3131

Bind DN: cn=orcladmin

Enable SSL:

Use Native ID Store Settings:

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:

Group Name Attribute:

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

Prefetched Attributes:

Password:

Test Connection **Apply**

Connection Status X

Connection to the User Identity Store successful!

OK **Cancel**

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

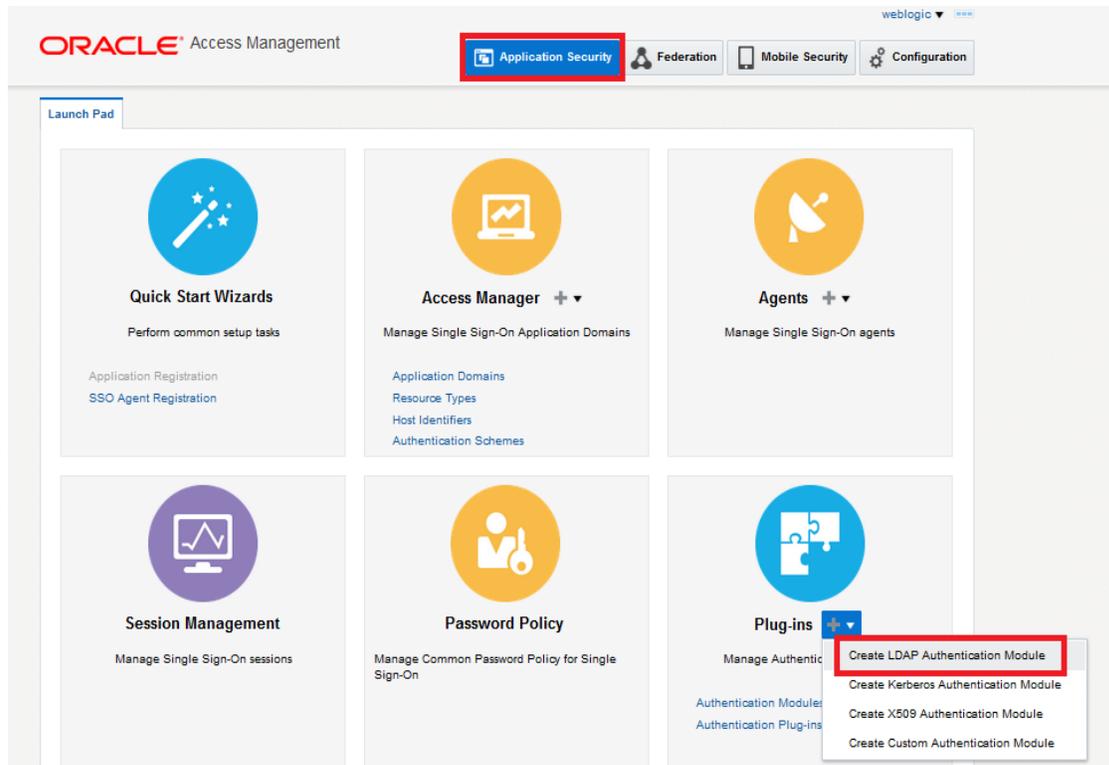
Note: User Identity Store will be created only if valid LDAP Parameters are passed.

The screenshot displays the Oracle Identity Management console for configuring a User Identity Store. The main title is "FLEXCUBEStore User Identity Store Service". At the top right, there are buttons for "Duplicate", "Test Connection", and "Apply" (highlighted with a red box). Below this is a confirmation message: "Confirmation: User Identity Store FLEXCUBEStore created successfully." The configuration form includes the following fields:

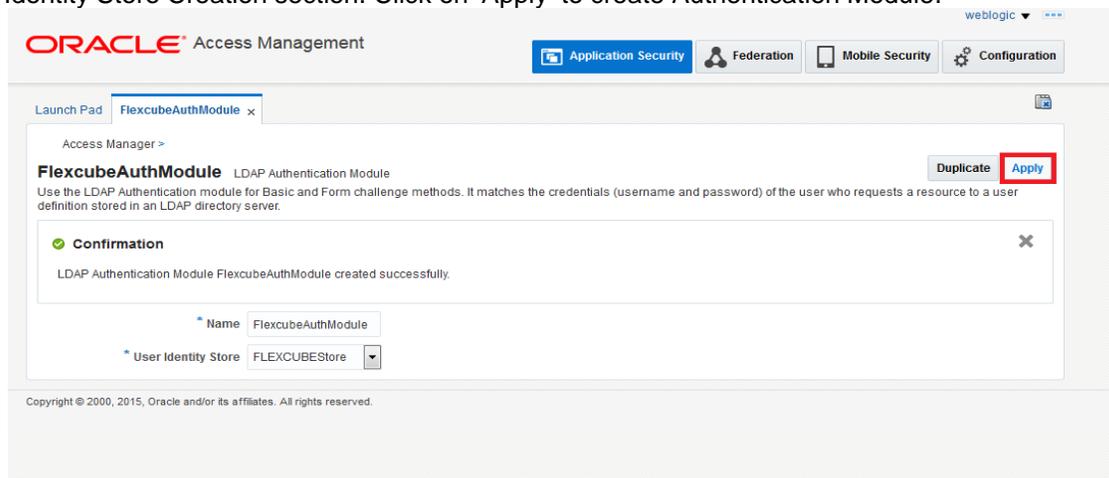
- Store Name: FLEXCUBEStore
- Store Type: OID: Oracle Internet Directory
- Description: (empty text area)
- Prefetched Attributes: (empty text area)
- Enable SSL:
- Use Native ID Store Settings:
- Location: ofss220607.in.oracle.com:3131
- Password: (masked with dots)
- Bind DN: cn=orcladmin
- Users and Groups section:
 - 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: (empty text area)

2.6.2 Creating Authentication Module

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

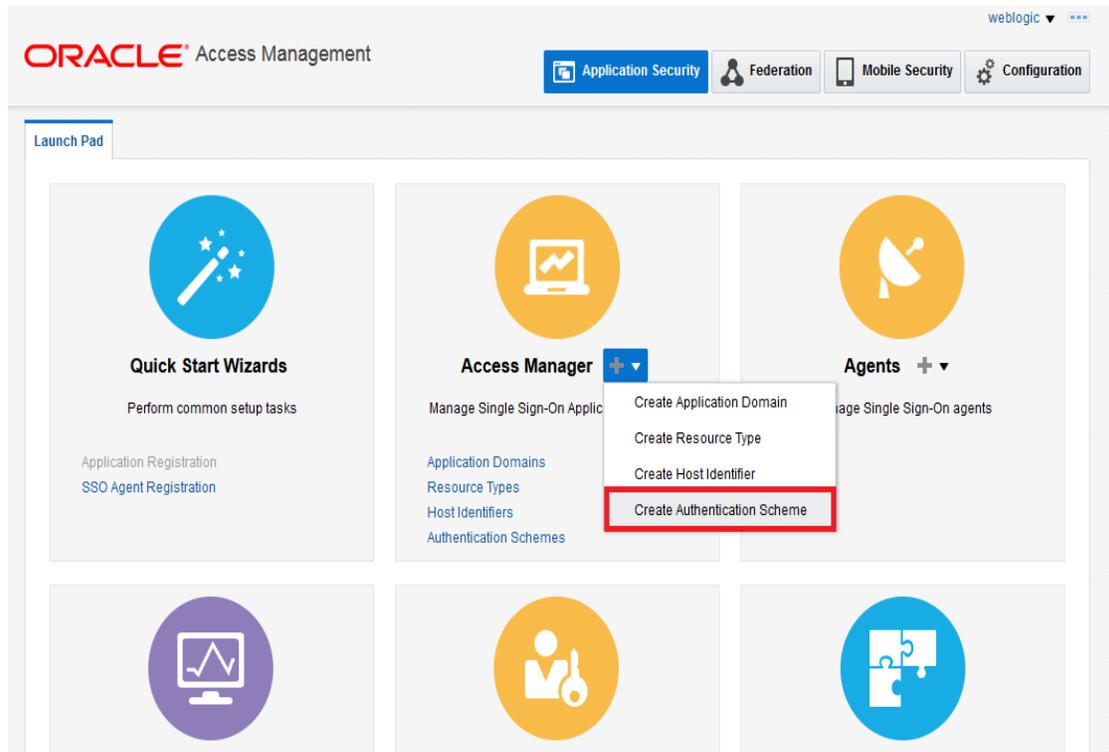


Enter the Name for the Authentication Module and choose the User Identification Store, created in Identity Store Creation section. Click on 'Apply' to create Authentication Module.



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

2.6.3.1 **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

Launch Pad FlexcubeBasicOAMScheme x

Access Manager >

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, FlexcubeBasicOAMScheme, created successfully

* Name FlexcubeBasicOAMScheme

Description Basic login screen

* Authentication Level 1 ▲ ▼

Default

* Challenge Method BASIC ▼

Challenge Redirect URL /oam/server

* Authentication Module FlexcubeAuthModule ▼

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

Access Manager >

Create Authentication Scheme Authentication Scheme

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

Buttons: Set As Default, Duplicate, **Apply**

Confirmation
Authentication Scheme, FlexcubeFormOAMScheme, created successfully

* Name: FlexcubeFormOAMScheme

Description: Form based login page

* Authentication Level: 2

Default:

* Challenge Method: FORM

Challenge Redirect URL: /oam/server

* Authentication Module: FlexcubeAuthModule

* Challenge URL: /pages/login.jsp

* Context Type: default

* Context Value: /oam

Challenge Parameters: ssoCookie=Secure

2.6.3.3 **KBA Based Strong Authentication Scheme (Only in case OAM 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.

ORACLE Access Management weblogic

Application Security Federation Mobile Security **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 'Server Instances' and contains a 'Search OAM Servers' section. A search input field is labeled 'Name'. Below it, a 'Search' button is highlighted with a red box, and a 'Reset' button is also visible. The 'Search Results' section shows a table with columns 'Row' and 'Name', and a message 'No data to display.' Below the table are several action buttons: 'Create', 'Duplicate', 'Edit', 'Delete', 'Monitor', and 'Detach'. The footer contains the copyright notice: 'Copyright © 2000, 2015, Oracle and/or its affiliates. All rights reserved.'

3. Edit oam_server1.

The screenshot shows the Oracle Access Management console interface, similar to the previous one. The 'Search Results' table now contains one entry with 'Row' 1 and 'Name' 'oam_server1'. The name 'oam_server1' is highlighted with a red box. The 'Search' and 'Reset' buttons are visible above the table. The footer contains the copyright notice: 'Copyright © 2000, 2015, Oracle and/or its affiliates. All rights reserved.'

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 page title is 'oam_server1 OAM Server Instance'. There are 'Duplicate' and 'Apply' buttons at the top right, with 'Apply' highlighted by a red box. The configuration fields include: 'Server Name' (oam_server1), 'Host' (ofss220607.in.oracle.), 'Port' (14101), 'OAM Proxy' section with 'Proxy Server Id' (AccessServerConfigP) and 'Port' (5575), 'Mode' dropdown (set to Simple), 'Coherence' section with 'Mode' dropdown (set to Simple), 'Log Level' (3), 'Local Port' (9095), and 'Log Limit' (4096). The footer contains the copyright notice: 'Copyright © 2000, 2015, Oracle and/or its affiliates. All rights reserved.'

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

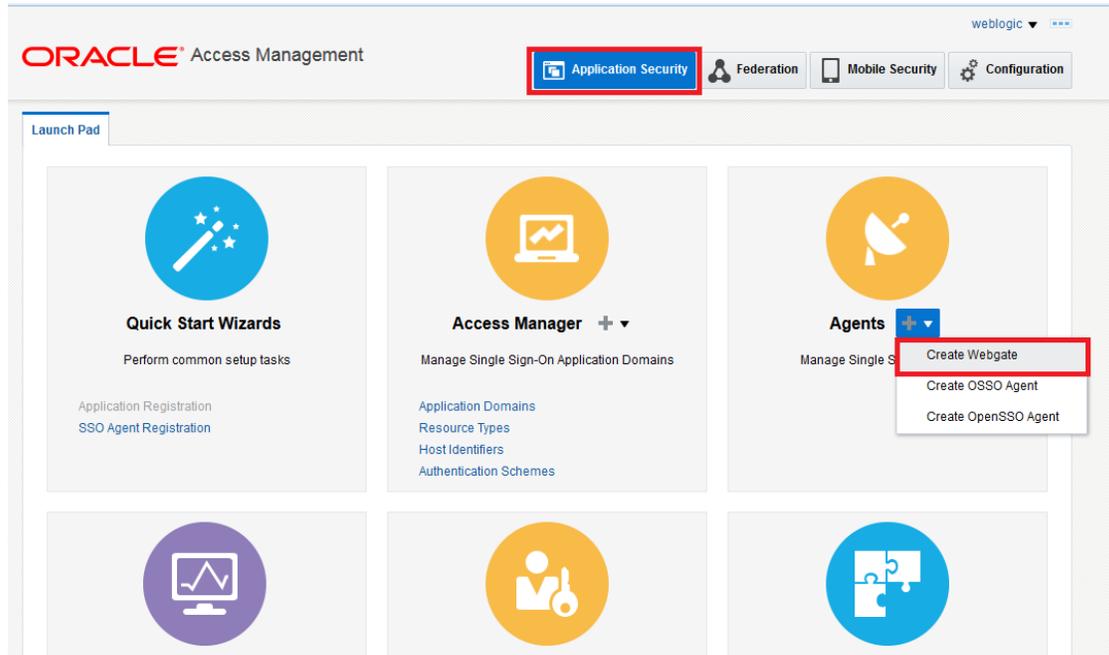
* Log Level 3

* 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 Enter the Base URLs for Agent

* Security Open Simple Cert

Virtual host

Auto Create Policies

IP Validation

Access Client Password

Host Identifier FlexcubeWebgate

User Defined Parameters

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

* Cache Timeout (Seconds)

Logout Target URL

Deny On Not Protected

User Defined Parameters

* Sleep for (Seconds)

Cache Pragma Header

Cache Control Header

Debug

IP Validation

7. 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.
8. 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

proxSSLHeaderVar=ssl

ue 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'.

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 ofss220807.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 4095

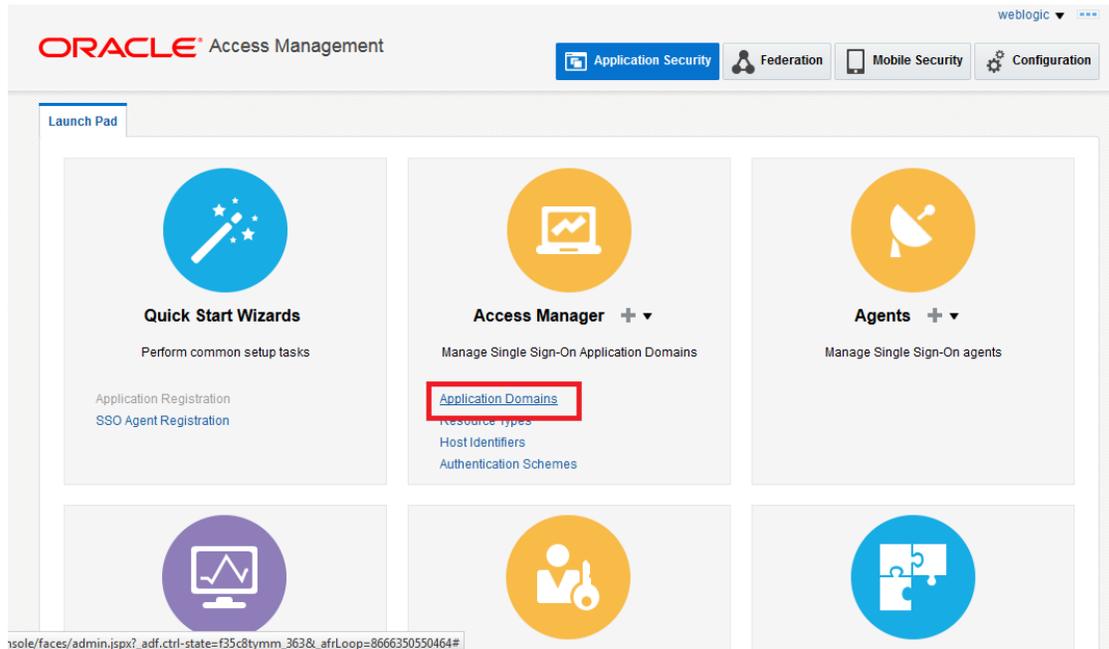
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2.6.5 Post OAM Webgate 11g Creation

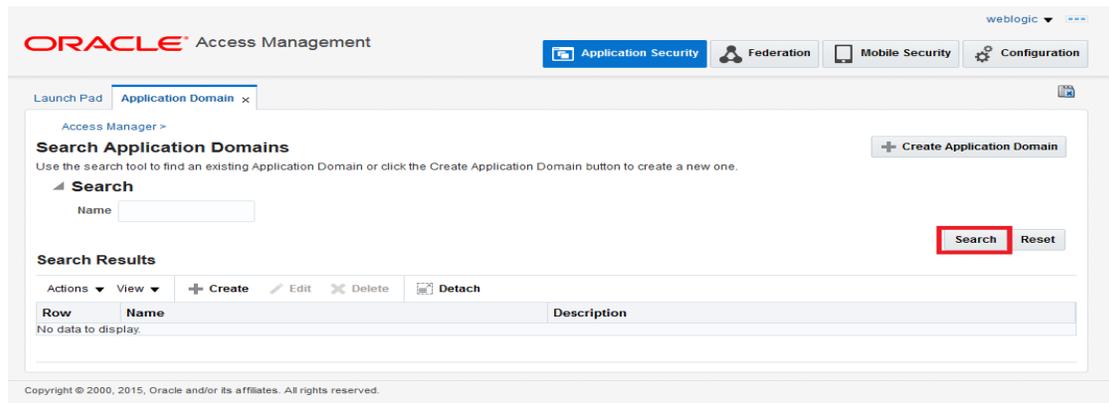
Follow the below steps to configure the webgate created.

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.



ORACLE Access Management weblogic ▾

Application Security Federation Mobile Security Configuration

Launch Pad Application Domain x

Access Manager >

Search Application Domains

+ Create Application Domain

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

Description

* Session Idle Timeout (minutes) ^ v

Allow OAuth Token

Allow Session Impersonation

Enable Policy Ordering

4. Click on 'Protected Resource Policy'.

The screenshot shows the Oracle Access Management console interface. At the top, there is a navigation bar with the Oracle logo and 'Access Management' text. On the right, there are tabs for 'Application Security', 'Federation', 'Mobile Security', and 'Configuration'. Below this, there is a breadcrumb trail: 'Launch Pad > Application Domain x FlexcubeWebgate x'. The main content area is titled 'FlexcubeWebgate Application Domain' and includes a sub-header 'Authentication Policies'. A table lists two authentication policies:

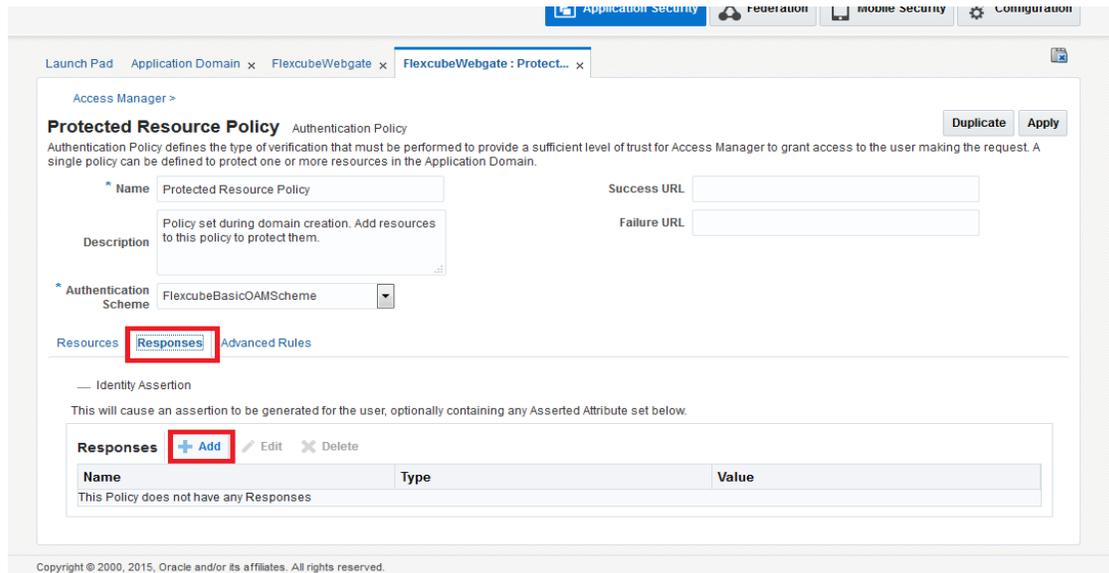
Row	Name	Description
1	Public Resource Policy	Policy set during domain creation. Add resources to this policy to allow anyone access.
2	Protected Resource Policy	Policy set during domain creation. Add resources to this policy to protect them.

The 'Protected Resource Policy' row is highlighted with a red border. Below the table, there are action buttons: '+ Create', 'Duplicate', 'Edit', 'Delete', and 'Detach'. The footer contains the copyright notice: 'Copyright © 2000, 2015, Oracle and/or its affiliates. All rights reserved.'

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

The screenshot shows the configuration page for the 'Protected Resource Policy' in the Oracle Access Management console. The page title is 'Protected Resource Policy Authentication Policy'. There are 'Duplicate' and 'Apply' buttons in the top right. The form includes fields for 'Name' (set to 'Protected Resource Policy'), 'Description' (Policy set during domain creation. Add resources to this policy to protect them.), 'Success URL', and 'Failure URL'. A dropdown menu for 'Authentication Scheme' is open, showing a list of available schemes. The 'FlexcubeBasicOAMScheme' is highlighted with a blue selection bar and a red border. A tooltip above the dropdown reads: 'Select the challenge mechanism required to authenticate the user.' Below the dropdown, there is a 'Query String' field. The footer contains the copyright notice: 'Copyright © 2000, 2015, Oracle and/or its affiliates. All rights reserved.'

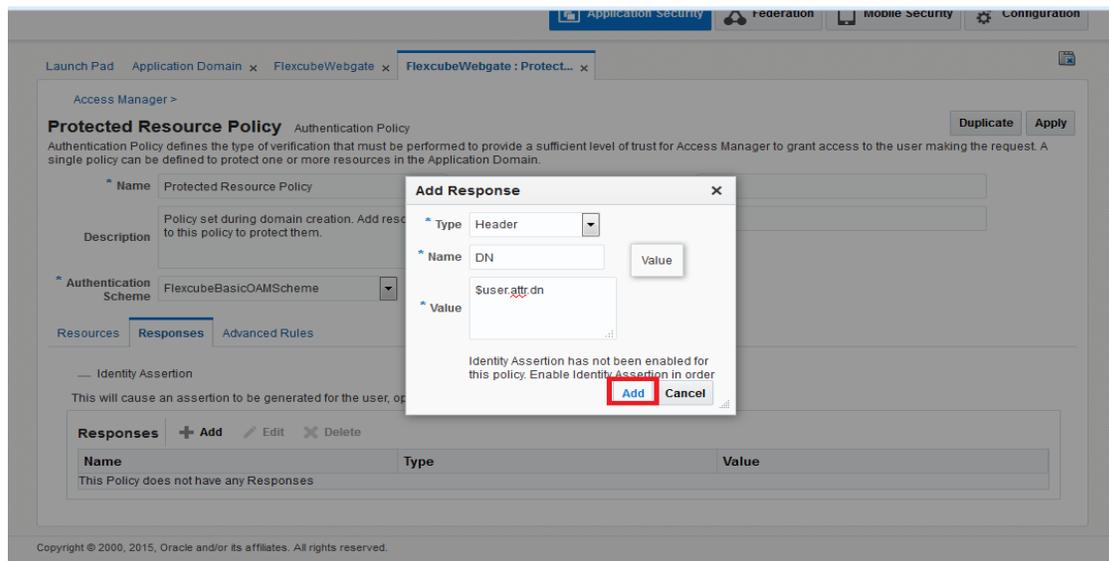
6. Click 'Responses' tab and click  button to Add 'DN' variable to the Response Header.



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

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

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

* Authentication Scheme: FlexcubeBasicOAMScheme

Success URL:

Failure URL:

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

Application Security Federation Mobile Security Configuration

Launch Pad Application Domain FlexcubeWebgate

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

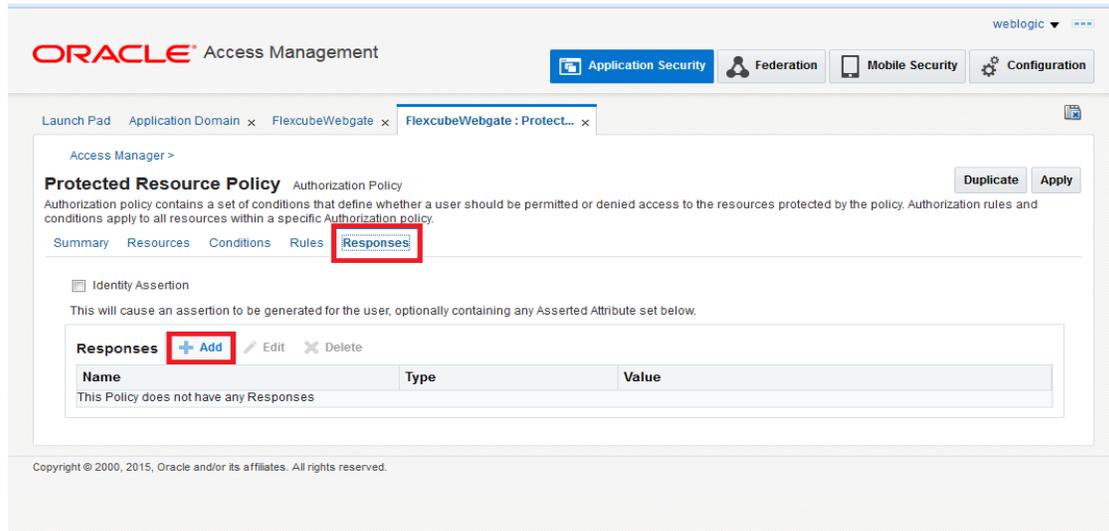
Select an existing Authorization Policy from the list or click the Create Authorization Policy button to create a new one.

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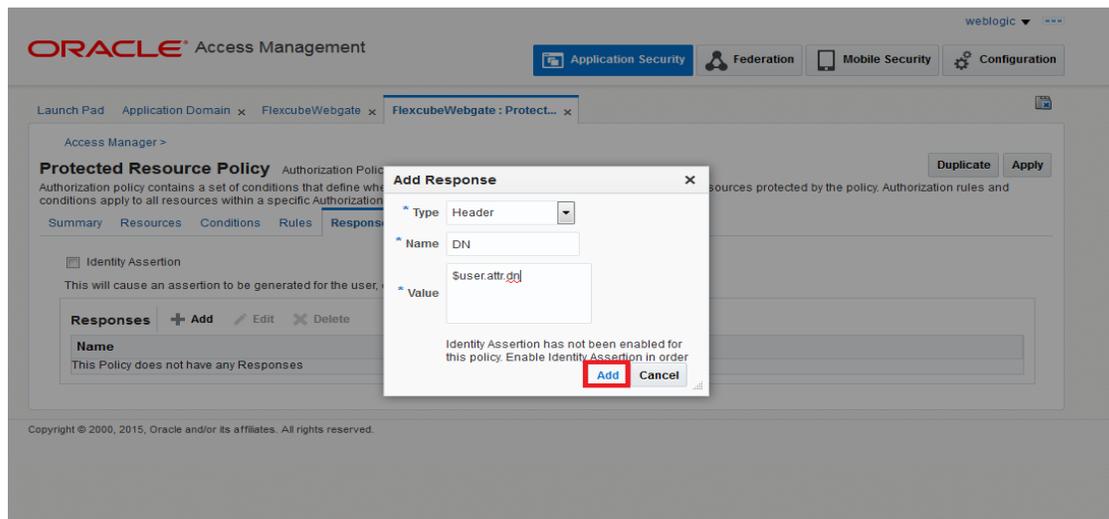
10. Click on 'Response' tab and click on **+ Add** button to Add 'DN' variable to the Response Header.



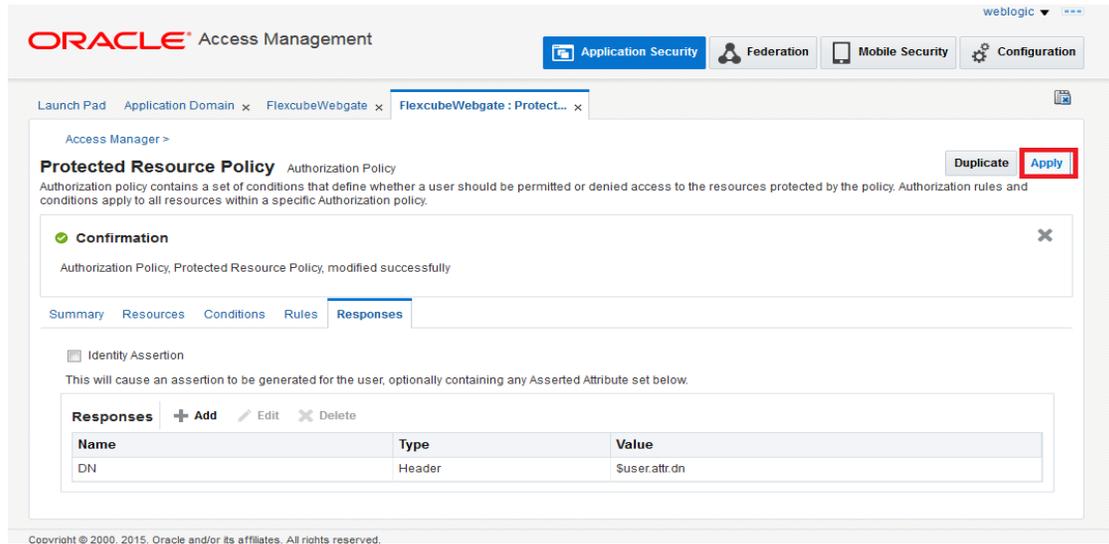
11. Enter the following values in the Add Response Window :

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/kestores/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			

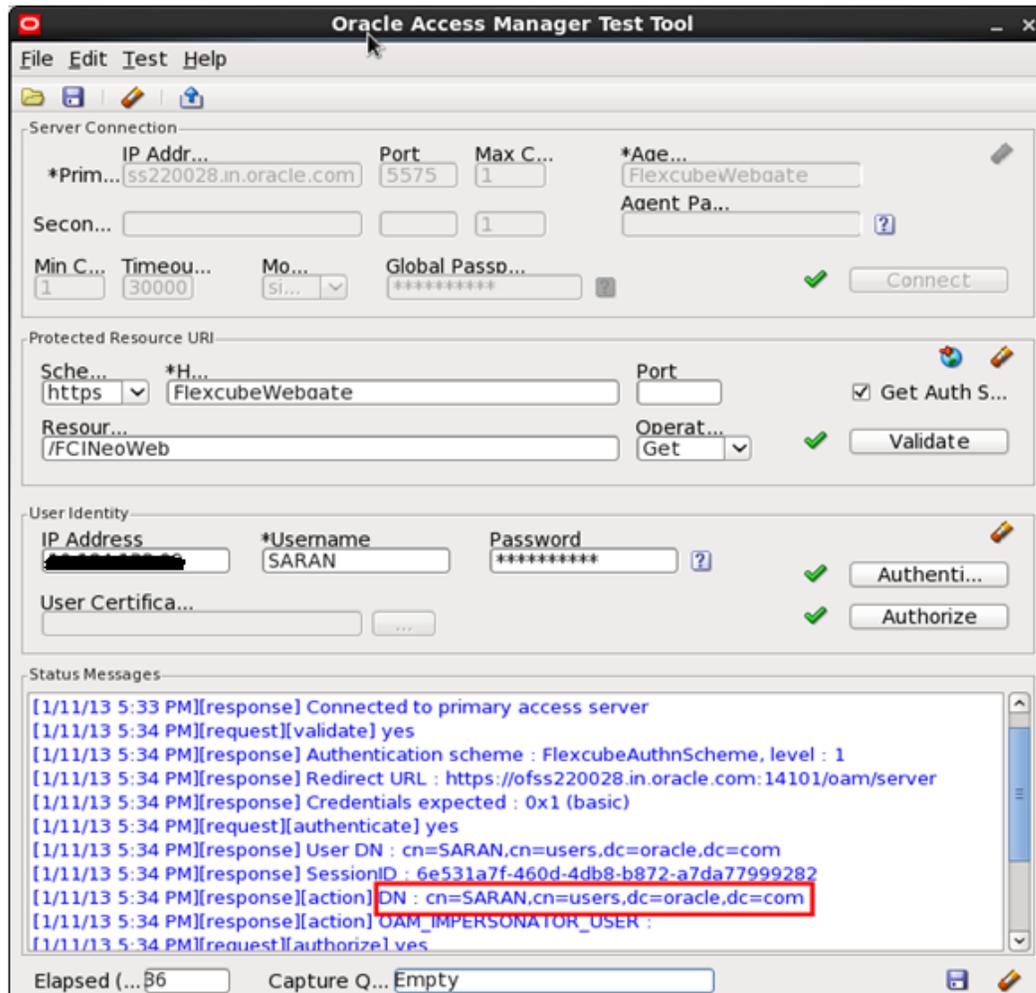
Cache Name	State	Max Elems	Curr Elems	Timeout (seconds)	Cache Stats (Hits:Misses:Expired:Flushed)	Memory Footprint (bytes)
Resource to Authentication Scheme	active	100000	100	1800	6451:273:61:0	59750
Authentication Scheme	active	25	1	1800	15012:34:33:0	802
Resource to Authorization Policy	active	100000	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.



If there is any escape character available in DN address, then refer '1935703.1' Oracle Document ID to remove the escape character.

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**

In STTM_BANK table update SSO_INSTALLED to 'Y' to enable Single Sign On.

During property file creation for FCIS application, select 'SSO Required' option as YES.

Refer FCIS_Property_File_Creation.pdf in FLEXCUBE_IS_Installation/FCIS Components/FCIS in Installation manual

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 - IS

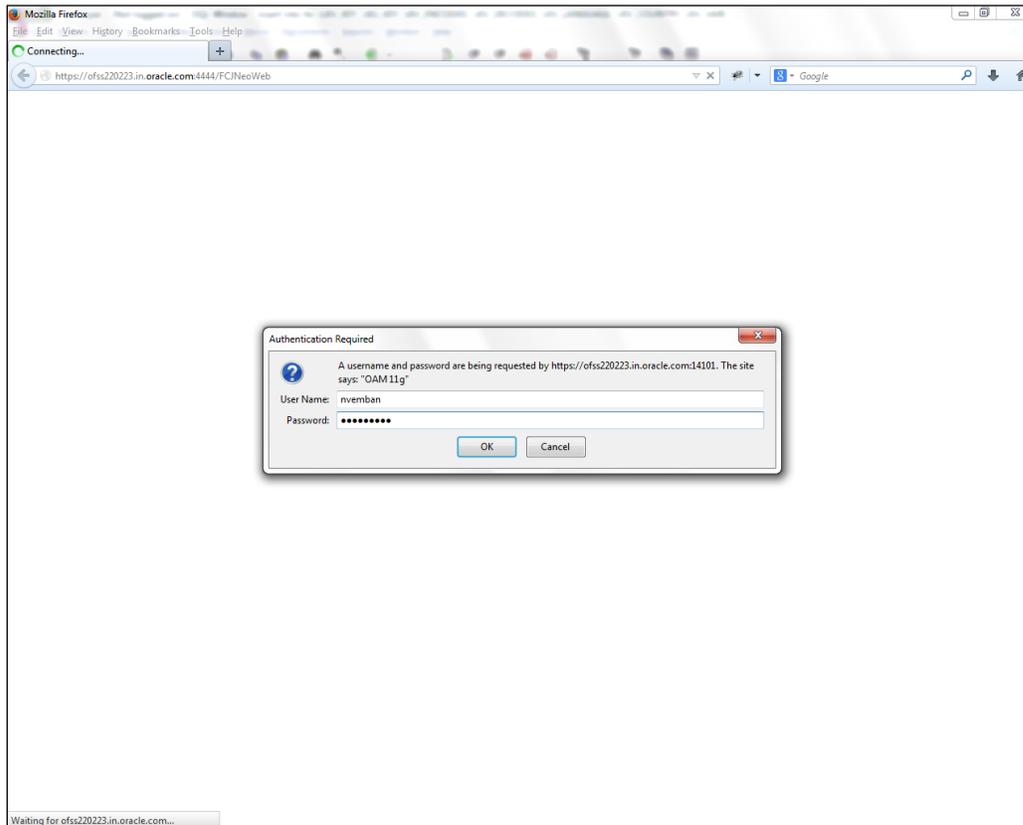
2.7.3 Launching FLEXCUBE

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

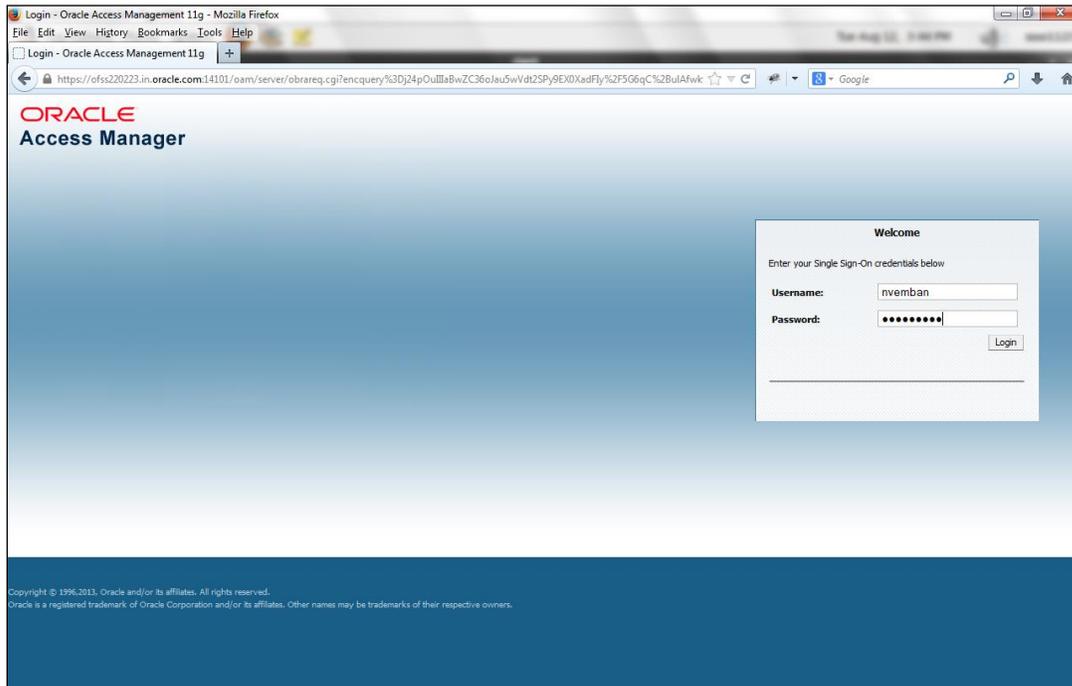
eg: <https://ofss00001.in.oracle.com:4443/FCJNeoWeb>

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

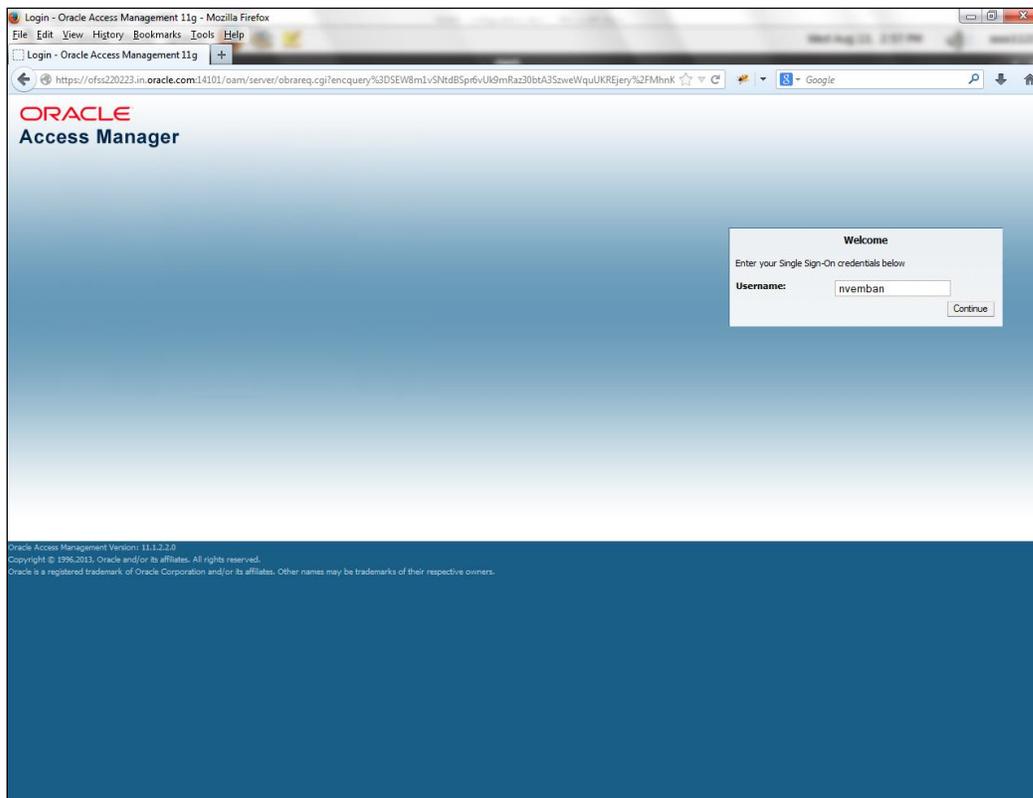
2.7.3.1 Basic Style Challenge by Webgate



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

ORACLE
Access Manager

Welcome

Enter your Single Sign-On credentials below

Password:

Security Device Image

6/13/2014 15:00 (EST)

ORACLE enter

Oracle Access Management Version: 11.1.2.2.0
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ORACLE
Access Manager

Your Security Device

Preview

6/13/2014 15:00 (EST)

ORACLE closed capital enter

Continue

Oracle Access Management Version: 11.1.2.2.0
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ORACLE
Access Manager

Select Your Security Questions/Answers

1) Select One

2) Select One

3) Select One

4) Select One

5) Select One

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ORACLE
Access Manager

Select Your Security Questions/Answers

1) Where did you get your first pet?

2) What is the name of the first musical group you saw in concert?

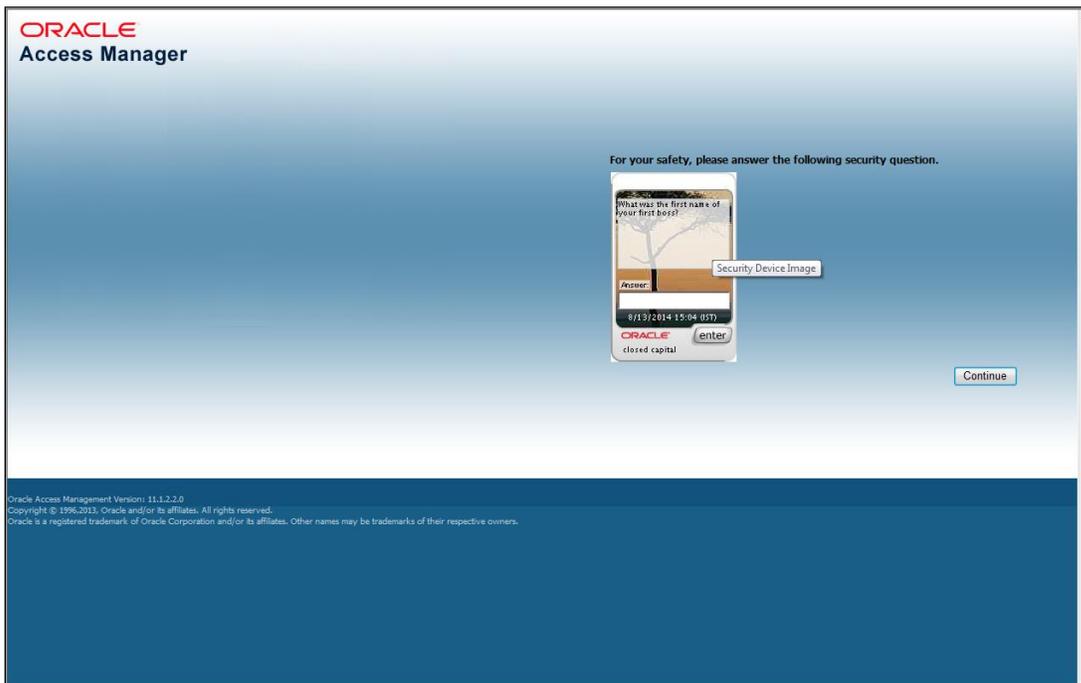
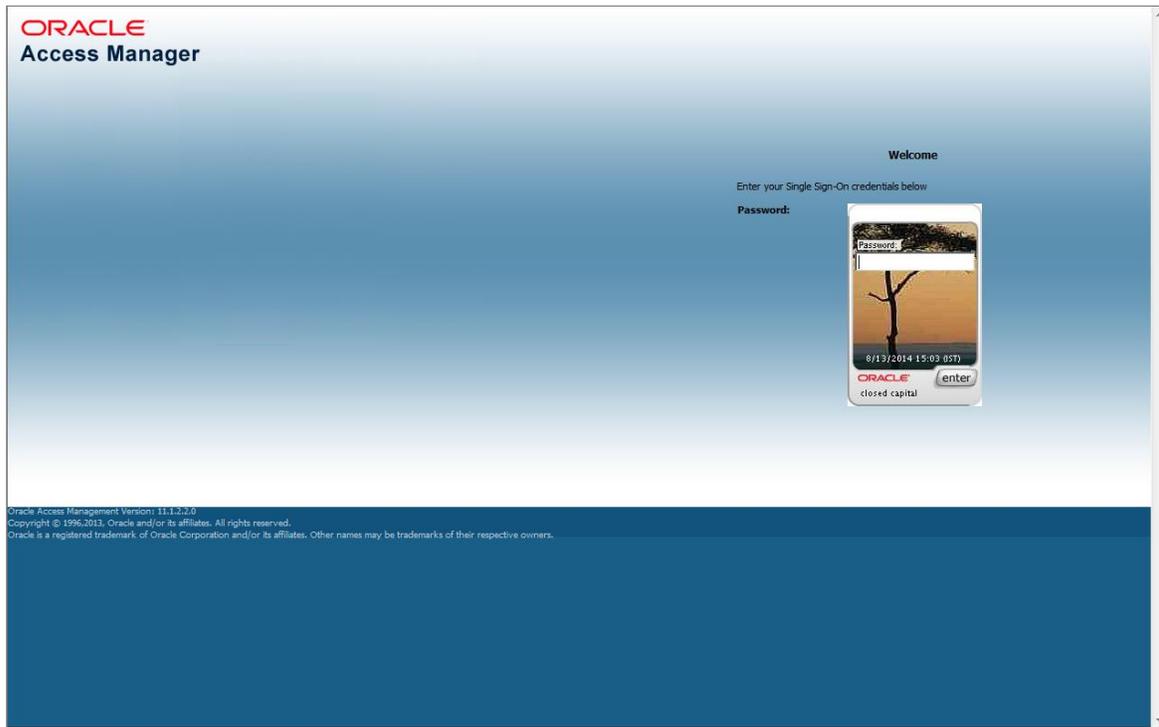
3) What color was your first pet?

4) What was the first name of your first boss?

5) Who is your favorite athlete?

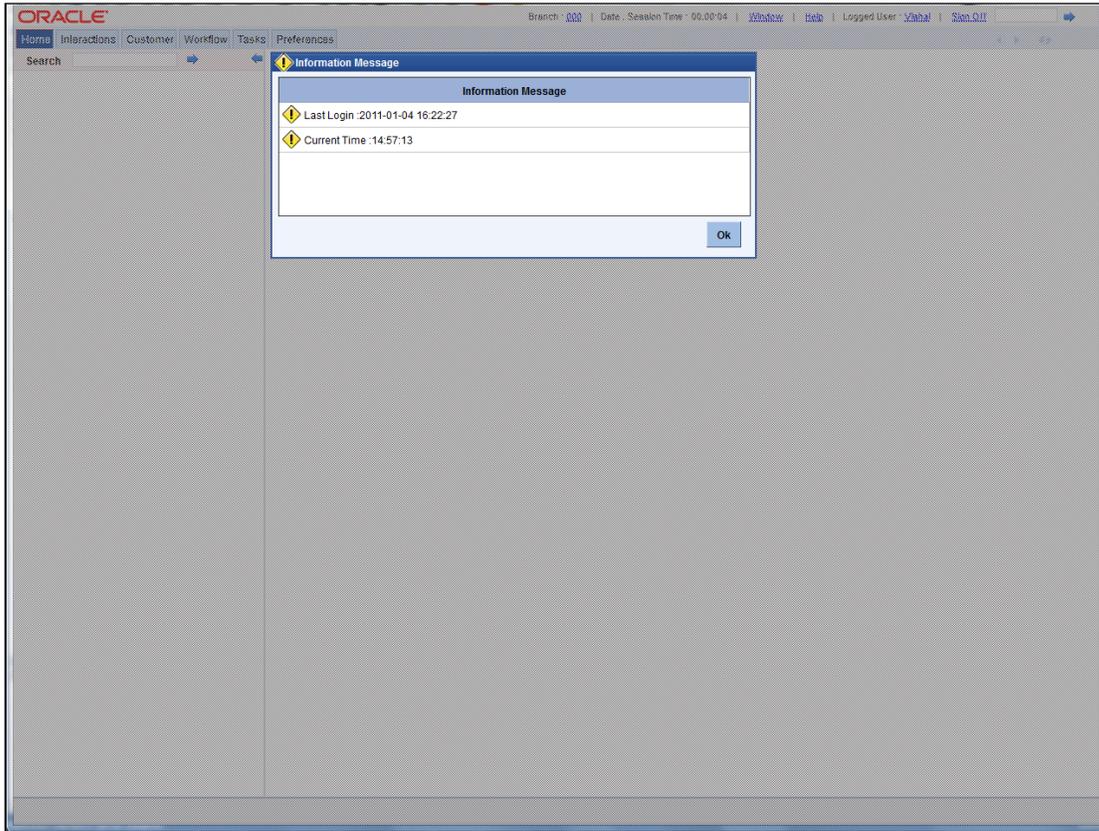
Oracle Access Management Version: 11.1.2.2.0
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Post First Login



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.