Oracle Access Manager Integration Oracle FLEXCUBE Investor Servicing Release 14.5.3.0.0 Part Number F53508-01 February 2022

FINANCIAL SERVICES





Oracle Access Manager Integration [February] [2022] Version 14.5.3.0.0

Oracle Financial Services Software Limited Oracle Park Off Western Express Highway Goregaon (East) Mumbai, Maharashtra 400 063 India

Worldwide Inquiries: Phone: +91 22 6718 3000 Fax:+91 22 6718 3001 www.oracle.com/financialservices/

Copyright © [2007], [2022], Oracle and/or its affiliates.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

U.S. GOVERNMENT END USERS: Oracle programs (including any operating system, integrated software, any programs embedded, installed or activated on delivered hardware, and modifications of such programs) and Oracle computer documentation or other Oracle data delivered to or accessed by U.S. Government end users are "commercial computer software" or "commercial computer software documentation" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, reproduction, duplication, release, display, disclosure, modification, preparation of derivative works, and/or adaptation of i) Oracle programs (including any operating system, integrated software, any programs embedded, installed or activated on delivered hardware, and modifications of such programs), ii) Oracle computer documentation and/or iii) other Oracle data, is subject to the rights and limitations specified in the license contained in the applicable contract. The terms governing the U.S. Government's use of Oracle cloud services are defined by the applicable contract for such services. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate failsafe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

This software or hardware and documentation may provide access to or information on content, products and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services.

Table of Contents

1.	PRE	FACE	1-1
1	.1	INTRODUCTION	
		Audience	
1		ABBREVIATIONS	
1		DOCUMENTATION ACCESSIBILITY	
1	.5	ORGANIZATION	1-1
1		GLOSSARY OF ICONS	
	1.6.1		
2.	ENA	BLING SINGLE SIGN-ON WITH ORACLE ACCESS MANAGER	
2	.1	INTRODUCTION	
2		BACKGROUND AND PREREQUISITES	
	2.2.1		
2	.3	BACKGROUND OF SSO RELATED COMPONENTS	
	2.3.1	Oracle Access Manager (OAM)	
	2.3.2	LDAP Directory Server	
	2.3.3	WebGate/AccessGate	
	2.3.4	Oracle Adaptive Access Manager	
2	.4	CONFIGURATION	
	2.4.1		
2	.5	ENABLING SSL FOR WEBLOGIC AND OAM CONSOLE	
	2.5.1	~	
	2.5.2		
	2.5.3		
2		CONFIGURING SSO IN OAM CONSOLE	
	2.6.1		
	2.6.2		
	2.6.3		
	2.6.4		
	2.6.5		
2		FIRST LAUNCH OF FLEXCUBE AFTER INSTALLATION	
	2.7.1		
	2.7.2		
	2.7.3	Laurenning i LErre e 22	
	2.7.4	Signoff in a SSO Situation	

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 <u>Audience</u>

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

1.6 **Glossary of Icons**

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



Icons	Function
×	Exit
+	Add row
	Delete row
1	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 7.3.0.0.0.0.0.

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

	Administration Console						õ					
Change Center	🔒 Home Log Out Preferences 🛃 Record	Help	2		Welcor	me, weblogic Connected to: ia	am_domaii					
View changes and restarts	View changes and restarts Home > Summary of Servers											
Configuration editing is enabled. Future	Summary of Servers											
changes will automatically be activated as you modify, add or delete items in this domain.	Configuration Control											
Domain Structure iam_domain ▲ □: Environment → → Custers → → Outers → → Outers → → Coherence Servers → → Coherence Clusters → → Machines → → Work Managers →	A server is an instance of WebLogic Server This page summarizes each server that has C2 C3 C4 C4 C4 C4 C4 C4 C4 C4 C4 C4 C4 C4 C4	been configured in the current 1		wm configuration.		Showing 1 to 4 of 4 Previous	s Next					
Deployments	🔲 Name 🌣	Cluster	Machine	State	Health	Listen Port						
Security Realms	AdminServer(admin)			RUNNING	✓ OK	7001						
How do I	oam_server1			RUNNING	✓ OK	14100						
Create Managed Servers	oim_server1			RUNNING	✓ OK	14000						
Clone Servers	soa_server1		LocalMachine	SHUTDOWN		8001						
Delete Managed Servers Delete the Administration Server Start and stop servers	New Clone Delete					Showing 1 to 4 of 4 Previous	s Next					
System Status 🖃	j											
Health of Running Servers												
Failed (0) Critical (0) Overloaded (0) Warning (0)												

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.



Domain Structure	General Cluster Services Keyston	res SSL Federation Services Deplo	yment Migration Tuning	Overload Health Monitoring	Server Start Web Services				
Iam_domain ← C-Environment Custers Custers Vironal Hosts Vironal Hosts Coherence Servers	Save Use this page to configure general features of this server such as default network communications. View JNDI Tree: Ø								
Coherence Clusters Machines Work Managers	Name:	AdminServer	An alphanumeric name for this server instance. More Info						
Startup and Shutdown Classes	Machine:	(None)		The WebLogic Server host com to run. More Info	nputer (machine) on which this server is meant				
How do I	Cluster:	(Standalone)		The duster, or group of WebLe belongs. More Info	ogic Server instances, to which this server				
Configure default network connections Create and configure machines	低 Listen Address:			The IP address or DNS name this server uses to listen for incoming connections. More Info					
Configure clusters Start and stop servers Configure WLDF diagnostic volume	☑ Listen Port Enabled			Specifies whether this server can be reached through the defau (non-SSL) listen port. More Info					
System Status	Listen Port:	7001		The default TCP port that this server uses to listen for regular (non-SSL) incoming connections. More Info					
Health of Running Servers Failed (0)	SSL Listen Port Enabled			Indicates whether the server of port. More Info	can be reached through the default SSL listen				
Critical (0) Overloaded (0) Warning (0)	SSL Listen Port:	7002		The TCP/IP port at which this s requests. More Info	server listens for SSL connection				
OK (3)	Client Cert Proxy Enabled			Specifies whether the HttpClus special header. More Info	sterServlet proxies the client certificate in a				
	Java Compiler:	javac		The Java compiler to use for all applications hosted on this server that nee 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 WLDF diagnostic volume setting does not affect explicitly configured diagnostic modules. For example, this controls the volume of events generated for Rodst Flight Recorder. More Info					
	- 🖓 Advanced								
	Virtual Machine Name:	iam_domain	AdminSe	When WLS is running on JRVE, running this server More Info	, this specifies the name of the virtual machine				
	🖉 🛃 WebLogic Plug-In Enabled				uses the proprietary WL-Proxy-Client-IP d if the server instance will receive requests nfo				

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															
Change Center	쉺 Home	Log Out F	reference	s 🔤 Record H	elp		۹						Welcome, w	eblogic Conner	cted to: iam_domain
View changes and restarts	Home >Su	ummary of	Servers >A	dminServer											
Configuration editing is enabled. Future	Settings for AdminServer														
changes will automatically be activated as you modify, add or delete items in this domain.	Configura	ation P	rotocols	Logging Deb	ug I	Monitoring C	Control	Deployments	Services	Security	Notes				
Domain Structure	General	Cluster	Services	Keystores	SSL	Federation S	Services	Deployment	Migration	Tuning	Overload	Health Monitoring	Server Start	Web Services	
iam_domain	Keystore	anage the	Dem Cust	storage and man f message transm or Identity and orn Identity ar on Identity ar on Identity ar o Identity and	I Dem I Dem I d Co I d Cu	s. no Trust mmand Line stom Trust va Standard	• Trust	vusted certificat	e authorities	s (CAs). Thi	Which	ou view and define va configuration rules shr cystores? More Info.	ould be used for	-	
System Status															
Health of Running Servers Failed (0) Critical (0) Overloaded (0) Warning (0) OK (3)			names may	be trademarks of	their re	espective owners	5.								



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.

	dministration Console			Q							
Change Center	🔒 Home Log Out Preferences 🖂 Record Help	Q		Welcome, weblogic Connected to: iam_domain							
View changes and restarts	Home >Summary of Servers >AdminServer										
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Settings for AdminiServer Configuration Protocols Logging Debug Monitoring Control Deployments Services Security Notes										
Domain Structure	General Cluster Services Keystores SSL Fed	eration Services Deployment Migratio	on Tuning Overload Health Monitorin	g Server Start Web Services							
Iam_domain	Save <i>Reystores</i> ensure the secure storage and management of p you to manage the security of message transmissions. Keystores:	rivate keys and trusted certificate authorit Custom Identity and Custom Trust	· · · · · · ·	should be used for finding the server's identity and							
Startup and Shutdown ClassesDeployments B-ServicesServicesServicesServicesServices	– Identity Custom Identity Keystore: Custom Identity Keystore Type:	nFlexcubeKeyStore.jks	The particul Character	SeKeyStore/AdminFlexcubeKeyStore.jks							
Configure identity and trust Configure keystores	Custom Identity Keystore Passphrase:	•••••		ntity keystore's passphrase. If empty or null, then d without a passphrase. More Info							
Set up SSL	Confirm Custom Identity Keystore Passphrase:										
System Status 🗉	- Trust		laaratah laun linuut 15 laam 1115 (Da	seKeyStore/AdminFlexcubeKeyStore.jks							
Health of Running Servers Failed (0)	Custom Trust Keystore:	nFlexcubeKeyStore.jks		the custom a disc keystore. More throw							
Critical (0) Overloaded (0)	Custom Trust Keystore Type:	jks	The type of the keystore.	Generally, this is JKS. More Info							
Warning (0) OK (3)	Custom Trust Keystore Passphrase:	The custom trust keystore's passphrase. If empty or nu will be opened without a passphrase. More info									
	Confirm Custom Trust Keystore Passphrase:	••••••									
	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	🙆 Home Log Out Preferences 🖂 Record	d Help	Welcome, weblogic Connected to: iam_domain
View changes and restarts	Home >Summary of Servers >AdminServer		
Configuration editing is enabled. Future	Settings for AdminServer		
changes will automatically be activated as you modify, add or delete items in this domain.	Configuration Protocols Logging D	Debug Monitoring Control Deployments Servi	ces Security Notes
Domain Structure	General Cluster Services Keystores	SSL Federation Services Deployment Migral	tion Tuning Overload Health Monitoring Server Start Web Services
iam_domain	Save		
Servers Clusters Virtual Hosts Wigratable Targets	This page lets you view and define various	Secure Sockets Layer (SSL) settings for this server insta	nce. These settings help you to manage the security of message transmissions.
Coherence ServersCoherence ClustersMachines	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
Work Managers Startup and Shutdown Classes	— Identity Private Key Location:	from Custom Identity Keystore	The keystore attribute that defines the location of the private key file. More Info
Services Security Realms	Private Key Alias:	FlexcubeCert	The keystore attribute that defines the string alias used to store and retrieve the server's private key. More Info
How do I • Configure identity and trust	街 Private Key Passphrase:		The keystore attribute that defines the passphrase used to retrieve the server's private key. More Info
Set up SSL Verify host name verification is enabled	👸 Confirm Private Key Passphrase:		
Configure a custom host name verifier Configure two-way SSL	Certificate Location:	from Custom Identity Keystore	The keystore attribute that defines the location of the trusted certificate. More Info
System Status	- Trust		
Health of Running Servers	Trusted Certificate Authorities:	from Custom Trust Keystore	The keystore attribute that defines the location of the certificate authorities. More Info
Failed (0) Critical (0)	— ♥ Advanced		
Overloaded (0) Warning (0) OK (2)	個 Hostname Verification:	None Custom Hostname Verifier BEA Hostname Verifier	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:	None	The name of the class that implements the weblogic.security.SSL.HostnameVerifier interface. More Info
	Export Key Lifespan:	500	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 ferver 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
Warning (0)			client to another application server). More Info
OK (2)	👸 Custom Hostname Verifier:		The name of the class that implements the weblogic.security.SSL.HostnameVerifier interface. More Info
	Export Key Lifespan:	500	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:	Client Certs Not Requested	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. Nore 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:	Builtin SSL Validation Only	▼ Indicates the client certificate validation rules for inbound SSL. More Info
	Outbound Certificate Validation:	Builtin SSL Validation Only	▼ 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 $\ensuremath{Info}\xspace$.

Save



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

	🔒 Home Log Out Preferences 🔤 Record He		Q		Walso	me, weblogic Connected to: iam_dom		
nge Center			<u> </u>		weico	me, weblogic Connected to: Iam_dom		
w changes and restarts	Home >Summary of Servers >AdminServer >Summ	mary of Servers						
figuration editing is enabled. Future nges will automatically be activated as you lify, add or delete items in this domain.	Summary of Servers Configuration Control							
anin Structure domain Snvironment -Servers -Clusters -Virtual Hosts	A server is an instance of WebLogic Server that This page summarizes each server that has bee			wn configuration.				
Migratable TargetsCoherence ServersCoherence ClustersMachinesWork ManagersWork Managers	Customize this table Servers (Filtered - More Columns Exist)							
L-Startup and Shutdown Classes	New Clone Delete					Showing 1 to 4 of 4 Previous Next		
Services Security Realms	🔲 Name 🗞	Cluster	Machine	State	Health	Listen Port		
v do I	AdminServer(admin)			RUNNING	🖋 ок	7001		
	oam_server1			RUNNING	🖋 ок	14100		
reate Managed Servers	oim_server1			RUNNING	🖋 ОК	14000		
lone Servers	soa_server1		LocalMachine	SHUTDOWN		8001		
elete Managed Servers elete the Administration Server tart and stop servers	New Clone Delete					Showing 1 to 4 of 4 Previous Next		
tem Status 🖂								
lth of Running Servers								
Failed (0) Critical (0) Overloaded (0) Warning (0)								

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.



	anager 11g Fusion Middleware Contr	rol			Setup	
👫 Farm 👻 🔒 Topology						
	🔂 oid1 🕡				Logged in as web	logic Host padsrini-pc
🗉 📲 Farm_base_domain	🖭 Oracle Internet Directory 🛩				Page Refreshed Feb 15,	2013 4:35:59 PM IST 🗘
Application Deployments	Home					
🗉 🚞 WebLogic Domain						
Identity and Access	Monitoring >		Load		Security	
OAM	Control >) 121	Total LDAP Connections	0	Failed Bind Operations	0
2 oid1	Logs >					
OIM O ovd1	'	220	Operations Completed	2	Failed Super User Logins	0
🗉 🚞 Metadata Repositories	Port Usage Administration	65	Operations in progress	0	Sucessful Super User Logins	0
🗄 🚞 Web Tier	Security >	Audit Policy				
	Directory Services Manager >	Wallets				
	Directory del vices Hundger	Wallets			•	
	General Information				Server Response (ms)	
	40					
	20					
	0					
					•	
	6					
	4				Total Operations	
	2					
	0					
	20					
	15				CPU Utilization (%)	
	10				/Farm_base_domain/asi	nst_1/oid1
	5				padsrini-pc	
	0				•	
	100					
	60				Memory Utilization (%)	
	40				/Farm_base_domain/asi	nst_1/oid1
	20					
	16:22 16:23 16 February 15 2013	6:24 16:25 16:26 16	6:27 16:28 16:29 16:30	16:31 16:32 16:33 16:	34 16:35 16:36	
						Table View

2. Click 'Create Self-Signed Wallet'.

	nager 11g Fusion Middleware Control	Setup → Help → Log Out
📑 Farm 👻 🔒 Topology		
Farm_base_domain Application Deployments	Orade Internet Directory ▼	Logged in as weblogic(Host padorini-pc Page Refreshed Feb 15, 2013 4:39:54 PM 151 강애
WebLogic Domain Jentity and Access OAM OAM OAM	Wallets A Wallet is a Keystore that stores X.509 certificates and private keys in industry-stu- Wallet. To manage the contents of a wallet, select a wallet and click Manage.	ndard, PKCS #12 format. To create a wallet, dick Create. To create a wallet with a self-signed certificate, dick Create Self-Signed
OIM Ovd1	Create % Delete Create Self-Signed Wallet	mport ① Export 60 Manage Auto-login
Metadata Repositories Web Tier	Name	Auto-logn
🗄 🔜 Web Tier		Fetching Data



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

	nager 11g Fusion N	liddleware Control Setup + Help + Log Out
👫 Farm 👻 🔒 Topology		
-	🔂 oid1 🗿	Logged in as weblogic Host padsrini-pc
🛛 📑 Farm_base_domain	I Oracle Internet D	irectory 👻 Page Refreshed Feb 15, 2013 4:40:45 PM IST 🖏
Application Deployments		
🗷 🚞 WebLogic Domain	Wallets > Create Se	
Identity and Access	Create Self-Sig	
OAM E oid1 OIM O ovd1	or password-protect PKCS#12 wallet that	and signed by a well known C.A. A self-signed wallet is not recommended in a production environment. The wallet name should be unged for a given component. The wallet type can be auto-login de Dessivords, if yegendle, have a minum hength of eight obvarcets, and contrain alphabetic characters combined with numeric or special characters. Auto-login wallet an onbiaxated from of a provides PICI-based access to services and applications without requiring a password at runtime. Auto-login wallet don't need a password to modify, or delete the wallet. File system permissions ry security for Auto-login wallets.
🗄 🚞 Metadata Repositories	Self-Signed Wallet	: Details
🗉 🚞 Web Tier		
	* Wallet Name	oidselfsigned
		☑ Auto-login
	Wallet Password	
	Confirm Password	
	Add Self-Signed Co	ertificate
	Add a self-signed cer	tificate that becomes part of the wallet.
	* Common Name	hostname.in.orade.com
	Organizational Unit	OFSS
	Organization	Orade
	City	Chernai
	State	TN
	Country	Inda •
	Key Size	2048 🗸

4. Click 6d Manage...

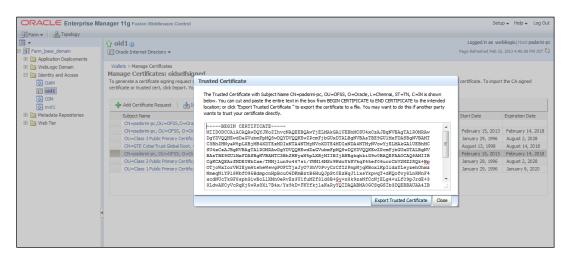
	Inager 11g Fusion Middleware Control	Setup → Help → Log Out							
🛱 Farm 👻 🔒 Topology									
∃ -	☆ oid1 ()	Logged in as weblogic Host padsrini-pc							
📑 Farm_base_domain	I Orade Internet Directory ▼	Page Refreshed Feb 15, 2013 4:44:27 PM IST 🖏							
Application Deployments									
Availation Deployments Availate to Access Availate to a Keystore that stores X.509 certificates and private keys in industry-standard, PKCS #12 format. To create a wallet, dick Create. To create a wallet with a self-signed certificate, dick Create Se Wallet. Availate to a Keystore that stores X.509 certificates and private keys in industry-standard, PKCS #12 format. To create a wallet, dick Create. To create a wallet with a self-signed certificate, dick Create Se Wallet. To manage the contents of a wallet, select a wallet and dick Manage. Wallet. Onth Content of the content of a wallet, select a wallet and dick Manage. Content of the content of a wallet, select a wallet and dick Manage. Content of the content of a wallet, select a wallet and dick Manage. Content of the content of a wallet, select a wallet and dick Manage. Content of the content of a wallet, select a wallet and dick Manage. Content of the content of a wallet, select a wallet and dick Manage. Content of the content of a wallet, select a wallet and dick Manage. Content of the content of a wallet, select a wallet and dick Manage. Content of the content of t									
OAM		create a wallet, click Create. To create a wallet with a self-signed certificate, click Create Self-Signed							
OIM	😭 Create 💥 Delete 😭 Create Self-Signed Wallet 👌 Import 🏦 Export	6d Manage							
	Name	Auto-login							
Metadata Repositories	oidselfsigned	✓							
A 🎦 Web Tier									

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

Farm 👻 🔒 Topology						
•	<pre>分 oid1 ₀</pre>				Logged in as we	blogic Host padsrin
Farm_base_domain	Crade Internet Directory -				Page Refreshed Feb 15	, 2013 4:45:58 PM IST
WebLogic Domain Identity and Access OAM OAM OIM OIM OVd1	Walets > Manage Certificates Manage Certificates: oidselfsigned To generate a certificate singing request (CSR), dick 'Add Certificate Request'. After you create a CSR, send it to you certificate or trusted cert, dick import. You can only import the CA-signed certificate into the same wallet from which the Add Certificate Request		ty and retu	im the signe	d certificate. To import	the CA signed
Metadata Repositories	Subject Name	Certificate Type	Status	Key Size	Start Date	Expiration Date
🛅 Web Tier	CN=padsrini-pc,OU=OFSS,O=Orade,L=Chennai,ST=TN,C=IN	Certificate Request		2048		
	CN=padsrini-pc, OU=OFSS, O=Orade, L=Chennai, ST=TN, C=IN	Certificate	Valid	2048	February 15, 2013	February 14, 201
	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=padsrini-pc, OU=OFSS, O=Orade, L=Chennai, ST=TN, C=IN	Trusted Certificate	Valid	2048	February 15, 2013	February 14, 201
	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



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



7. Click 'Server Properties'.

ORACLE Enterprise Ma	nager 11g Fusion Middleware O	ontrol				Setu	p ← Help ← Log Out				
👫 Farm 👻 🔒 Topology											
∃ -	🔓 oid1 🕡					Logged in as we	blogic Host padsrini-pc				
🖃 🚟 Farm_base_domain	🗵 Oracle Internet Directory 🛩					Page Refreshed Feb 15	, 2013 4:45:58 PM IST 🗘				
Application Deployments	Home										
🗉 🚞 WebLogic Domain		_									
Identity and Access	Monitoring	signed									
OAM	Control		st (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								
2 oid1	Logs	You can only import the CA-sign	You can only import the CA-signed certificate into the same wallet from which the CSR was generated.								
OIM	Logs										
💠 ovd1		Import 👔 Export	X Delete								
🗉 🚞 Metadata Repositories	Port Usage			Certificate Type	Status Key Size	Start Date	Expiration Date				
🗉 🚞 Web Tier	Administration	 Server Properties 		Certificate Request	2048						
	Security	Shared Properties		Certificate	Valid 2048	February 15, 2013	February 14, 2018				
	Directory Services Manager	>	.", C=US	Trusted Certificate	Valid 1024	January 29, 1996	August 2, 2028				
		Replication Management	Inc.", O=GTE Corporation, C=US	Trusted Certificate	Valid 1024	August 13, 1998	August 14, 2018				
	General Information	Tuning and Sizing		Trusted Certificate	Valid 2048	February 15, 2013	February 14, 2018				
		Certification Authority, O= VeriSign,		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				

8. Click 'Change SSL Settings'.

	nager 11g Fusion Middleware Control	Setup 🗸 Help 🖌 Log Out
🕂 Farm 👻 👗 Topology		
	<pre> oid1 ₀ </pre>	Logged in as weblogic Host padsrini-pc
E 🙀 Farm_base_domain	I Oracle Internet Directory	Page Refreshed Feb 15, 2013 4:54:17 PM IST 🗘
Application Deployments		
WebLogic Domain Identity and Access	Server Properties	Apply Revert
OAM	General Performance SASL Statistics Logging	
2 oid1	Server Mode Read / Write 💌	
OIM		
ovd1		
🗉 🚞 Metadata Repositories	* Maximum time allowed for a search to complete (sec) 3600	
🗉 🚞 Web Tier	Preserve Case of Required Attribute Name specified in Search Request	
	Anonymous Bind Disallow except for Read Access on the root DSE	
	* Maximum time allowed in a Transaction (sec) 0	
	* Maximum Number of Operations allowed in a Transaction 0	
	Port Numbers	
	Non-SSL Port 3060	
	SSL Port 3131	



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

	nager 11g Fusion Middleware Control	Setup → Help → Log Out
🕂 Farm 👻 🔒 Topology		
Ξ •	↔ oid1 @	Logged in as weblogic Host padsrini-pc
Farm_base_domain Application Deployments	TO Orade Internet Directory -	Page Refreshed Feb 15, 2013 4:55:50 PM IST €2
Application Depoyments Application Depoyments Application Depoyments More applications Application Depoyments ApplicationDepoyments ApplicationDepoyments ApplicationDepoyments	Information Al changes made in this page require a server restart to take effect. SSL Configuration Co	OK Cancel
	Advanced SSL Sectors Server SSL properties	
	SSL Authentication Server Authentication Cipher Sult SSL RSA_WITH_RC4_128_MD5 SSL RSA_WITH_RC4_128_MD5 SSL RSA_WITH_RC4_128_MD5 SSL RSA_WITH_RC5_128_CB4 SSL RSA_WITH_RC5	

10. Click 'Apply'.

	inage	e r 11g Fusi	on Middleware	Control							Setup → Help → Log Out	
📑 Farm 👻 🔒 Topology												
∃ •	1 the	oid1 🕠									Logged in as weblogic Host padsrini-pc	
🛿 📲 Farm_base_domain	■ Orade Internet Directory									Page Refreshed Feb 15, 2013 4:56:40 PM IST 🗘		
Application Deployments MebLogic Domain												
WebLogic Domain Identity and Access		Informatio		e Æren	hace demain	alaniant 1/n	idit. Dooto	ert component for thi	, change to be	offective	×	
OAM		SSE corrigor	auon upuateu it	n /ram	_Dase_domai	i/dsinst_1/0	IUI. RESID	ar component for an	s change to be	enecuve.		
E oid1 OIM												
ovd1	S	erver Pro	-								Apply Revert	
🗄 🫅 Metadata Repositories		General	Performance	SASL	Statistics	Logging						
🗄 🚞 Web Tier							ver Mode	Read / Write 💌				
		* Maximum number of entries to be returned by a se						th 10000				
			* Maximum t	ime allo	wed for a sea	rch to compl	ete (sec)		360	00		
		Preserve Ca	ase of Required A	ttribute	Name specifi							
							nous Bind	Disallow except fo	Read Access	on the root DSE 💌		
					time allowed i					0		
			* Maximum Num	ber of C	perations allo	wed in a Tra	ansaction			0		
	1	Port Numbe	ers									
					Non-SSL	0000			U			
					SSL	Port 313	1		Change	SSL Settings		

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 ldapcacert –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.



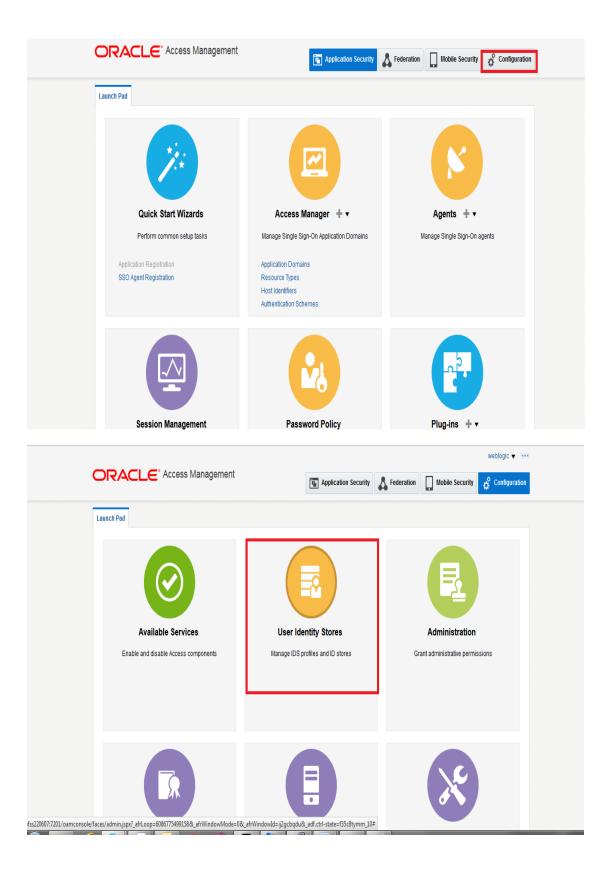
Follow the post installation scripts deployWebGate and EditHttpConf as provided in (http://docs.oracle.com/cd/E37115_01/install.1112/e38922/webgate_ohs.htm#CACDEJAD)

2.6.1 Identity Store Creation

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

	ss Management	About Oracle ••••
Copyright @ 2000, 2015, Oracle and/or its af	Sign In Sign in to administer Oracle Access Management Username [Password Sign in Sign in	
copyright e 2000, 2010, Oldole allufol its all	manage, contriguing respect 60.	





2. Click 'Create' under OAM ID Stores.



Configuration >				
User Identity Sto	ores			
Default and System	Store			App
* De	fault Store UserIdentityStore1	•		
* Sy:	stem Store UserIdentityStore1	•		
4 OAM ID Stores				Sync IDS Profil
A OAM ID Stores Manage local User Identit	y Stores. This includes IDS Profile:	s that are synchronized by using Sync ID	S Profiles button.	Sync IDS Profil
	•	s that are synchronized by using Sync ID Delete	S Profiles button.	Sync IDS Profil
Manage local User Identit	•		S Profiles button.	Sync IDS Profil Synched IDS Profiles
Manage local User Identit	🍽 Duplicate 🇳 Edit 🗙	Delete		

- 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.



Configuration >							
reate: User Ident	ity Store User Identity	Store Service				Test Connection	Appl
* Store Name	FLEXCUBEStore				Enable SSL		
* Store Type	OID: Oracle Internet Direct	ory	•		Use Native ID Store S	Settings	
Description				Prefetched Attributes			
Location and Cred	entials						
* Location	ofss220607.in.oracle.com	3131 		* Password	•••••		
* Bind DN	cn=orcladmin						
Users and Groups							
	* Login ID Attribute	cn					
	User Password Attribute	userPassword					
	* User Search Base	cn=Users,dc=ofss,dc=	in,dc=oracle,dc=c				
	Jser Filter Object Classes						
	Group Name Attribute						
	* Group Search Base	cn=Groups,dc=ofss,dc	=in.dc=oracle.dc=				

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

	Stores × Create: User Ide	entity Sto ×					
Configuration >	ity Store					Test Connection	Apply
Create: User Ident		Store Service			Connection Status	×	Abbil
* Store Name	FLEXCUBEStore						
* Store Type	OID: Oracle Internet Direct	ory	•		Connection to the User Ide		
			Devé	4 - 1 - 1 - 1 - 1 - 1 - 1		OK Cancel	
Description			Prete	etched Attribut	es		
Location and Crede							
Location and crede	entials						
* Location	ofss220607.in.oracle.com	3131		* Passwo	rd ••••••		
* Bind DN	cn=orcladmin						
Users and Groups							
	* Login ID Attribute	cn					
	User Password Attribute	userPassword					
	* User Search Base	cn=Users,dc=ofss,dc=in,dc	=oracle.dc=c				
		0.0000,000,000,000,000	01000,00 0				
	Jser Filter Object Classes						
	Group Name Attribute						
	* Group Search Base	cn=Groups,dc=ofss,dc=in,d	c=oracle,dc=				

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



LEXCODESION	User Identity Store Service					Duplicate	Test Connection	Ар
Ocnfirmation								>
User Identity Store FLEX	CUBEStore created success	fully.						
Store Name	FLEXCUBEStore				Enable SSL			
* Store Type	OID: Oracle Internet Directory		•		Use Native I	D Store Setti	ngs	
Description				Prefetched Attributes				
boonpaon								
Location and Crede	entials							
* Location	ofss220607.in.oracle.com	:3131		* Password	•••••			
* Bind DN	cn=orcladmin							
Users and Groups								
	* Login ID Attribute	cn						

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

2.6.2 Creating Authentication Module

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



ORACLE [®] Access Management	Application Security	weblogic
Launch Pad	Access Manager + • Manage Single Sign-On Application Domains Application Domains Resource Types Host Identifies Authentication Schemes	Agents + • Manage Single Sign-On agents
Session Management Manage Single Sign-On sessions	Password Policy Manage Common Password Policy for Single Sign-On	Plug-ins Manage Authentication Module Authentication Module Authentication Plug-ins

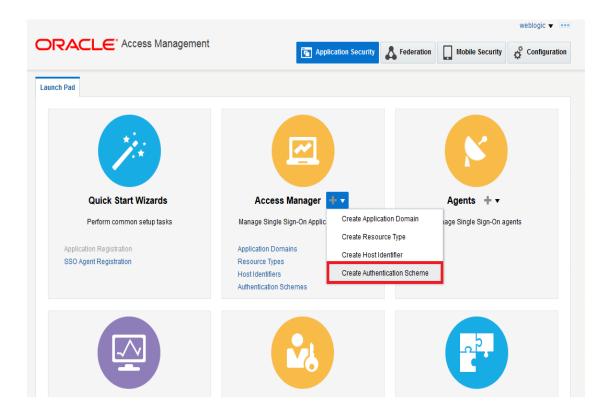
Enter the Name for the Authentication Module and choose the User Identification Store, created in Identity Store Creation section. Click on 'Apply' to create Authentication Module.

e credentials (username an	d password) of the us	Duple ser who requests a resource	
			×
) credentials (username an	credentials (username and password) of the us	Duple e credentials (username and password) of the user who requests a resource

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 Auth	nentication Module 2.6.2' of this document.
Challenge Parameters	: ssoCookie=Secure
	contextType=default
	contextValue=/oam
	challenge_url=/CredCollectServlet/BASIC



Launch Pad FlexcubeBa	sicOAMScheme x	
Access Manager >		
	tion Scheme Authentication Scheme Set As Default Duplicate	Apply
An Authentication Scheme	sefines 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	<u>ssoCookie</u> =Secure context/Dge=default challenge_utl=CtedColectServle/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 Aut	hentication Module 2.6.2' of this document.
Challenge URL	: /pages/login.jsp
Context Type	: default
Context Value	: /oam
Challenge Parameters	: ssoCookie=Secure



Launch Pad FlexcubeFor	mOAMScheme ×				
	ation Scheme Authentication Scheme	ticate a user. Each Authentication Scheme must also include a	Set As Default	Duplicate	Apply
Confirmation	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 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 Aut	hentication 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

ORACLE

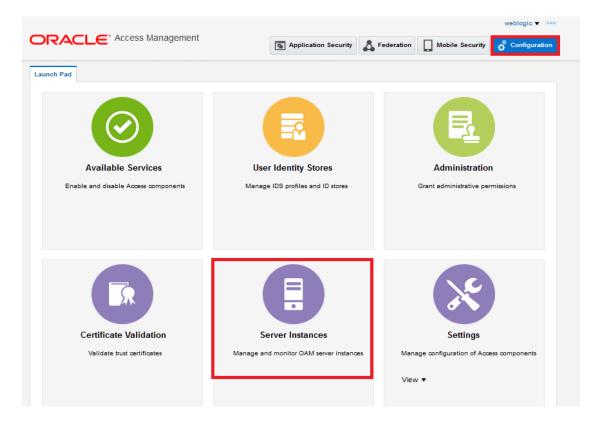
١

	Authentication Scheme		Set As Default	Duplicate	Арр
Authentication Scheme of	defines the challenge mechanism required to authe	nticate a user. Each Authentication Scheme must also include a	defined Authentica	ation Module.	
Confirmation					×
Authentication Scheme,	FlexcubeKBAOAAMScheme, created successfully				
* Name	FlexcubeKBAOAAMScheme				
Description	KBA Based login page				
* Authentication Level	2 🔨 🗸				
Default					
* Challenge Method	FORM				
allenge Redirect URL	/oam/server				
Authentication Module	FlexcubeAuthModule				
* Challenge URL	/pages/oaam/login.jsp				
* Context Type	default 💌				
* Context Value	/oam				
Challenge Parameters	ssoCookle=Secure gaamPostAuth=true gaamPreAuth=true				

2.6.4 Creating OAM 11g Webgate

Follow the below steps to create a Webgate:

1. Click on 'Server Instances' under Configuration.





2. Click on 'Search'.

										weblogic 🔻 🚥
				Te Appli	ation Security	Sederation	Mobile Security	of Configuration		
aunch Pad	Server Ins	stances ×								
Configura	ation >									
Search O	OAM Sei	vers							+ c	reate OAM Server
Searce										
Name									_	
										Search Reset
Search Re	esults									
Actions 🔻	View 🔻	+ Create	O Duplicate	/ Edit	🗙 Delete	Monitor	Detach			
Row	Name									
No data to dis	splay.									

3. Edit oam_server1.

			weblogic 🔻 🚥
	Application	n Security 👗 Federation	Mobile Security Configuration
Launch Pad Server Instances ×			X
Configuration >			
Search OAM Servers			- Create OAM Server
⊿ Search			
Name			
			Search Reset
Search Results			
Actions 🔻 View 👻 🕂 Create 🔿 Duplicate 🧪 Edit 🗙 Delete	Monitor	Detach	
Row Name			
1 oam_server1			
opyright © 2000, 2015, Oracle and/or its affiliates. All rights reserved.			

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

				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.orac	ler		
* Port 14101 ^ ~					
OAM Proxy					
* Proxy Server Id AccessServerConfigP					
* Port 5575 ^ ~					
* Mode Simple 💌					
Coherence Simple on					
* Log Level 3 ^ V					
* Local Port 9095 🔨 🗸					
* Log Limit 4096 🔨 🗸					
Copyright \circledast 2000, 2015, Oracle and/or its affiliates. All rights reserved.					

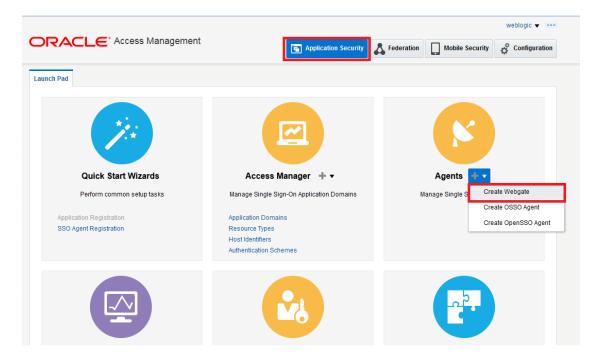


	Application Security	La Federation	Mobile Security Configuration
aunch Pad Server Instances 🗴 oam_server1 🗴			C
Configuration >			
oam_server1 OAM Server Instance			Duplicate Apply
* Server Name oam_server1	* Hos	st ofss220607.in.oracle.	
* Port 14101 A V Confir	m Edit >	×	
	rver instance oam_server1 might be in us sure you want to edit it?	e.	
* Proxy Server Id AccessServerConfigPi	Yes No		
* Port 5575 🔨 🗸			
* Mode Simple 💌			
Coherence Configuration			
* Log Level 3 🔨 🗸			
* Local Port 9095 🔨 🖌			
* Log Limit 4096 🔨 🗸			

am_server1 OAM Server Instance		Duplicate Apply
 Confirmation 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 A V		



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



6. Enter the below and Click 'Apply':

Version	: 11g	
Name	: Custom Web	gate Name
Base URL	Webgate is ins	port of the computer on which the Web server for the stalled. For example, http://example_host:port or e_host:port. The port number is optional.
Security	: Simple	
Protected Resource List	: for FCUBS	: /FCJNeoWeb
	For FCIS	: /FCISNeoWeb
User Defined Parameters	: filterOAMAuth	nnCookie=false



Access Manager >						
reate Webgate	gister an OAM Agent. Before yo	u register, ensure that at least one OAM	I Server is running in t	ne same mode as	the Agent to be r	Apply egistered.
* Versior	n 11g 💌		* Security			
* Name	FlexcubeWebgate		0	Simple		
Description	Flexcube 11g Webgate	Enter the Base URLs for Agent	Virtual host]		
Base URL	https://ofss220607.in.oracle. com	Aut	to Create Policies 🔽]		
Access Client Password	11. I I I I I I I I I I I I I I I I I I					
Host Identifie	FlexcubeWebgate					
	filterOAMAuthnCookie=false					
User Defined Parameters	6					
source Lists Protected Resou	rce List	Add Delete Public F	Resource List		Add Delet	e
Relative URI		Relativ	ve URI			
/FCJNeoWeb						
FCJNeoWeb	bgate			Apply	Download	
excubeWebgate wea				Арріу	Download X	
Confirmation	gate created successfully.	Logout Targ	et URL	Apply		
Confirmation OAM Webgate FlexcubeWeb	gate created successfully.	Logout Targ Deny On Not Pro		Арріу		
excubeWebgate Web Confirmation OAM Webgate FlexcubeWeb Version 1 Name [Description]	gate created successfully.		proxySSLHead	eVer=IS_ ^		
excubeWebgate Web Confirmation DAM Webgate FlexcubeWeb Version 1 Name 2 Description f Access Client Password	gate created successfully. 1g TlexcubeWebgate Elexcube 11g Webgate		proxySSLHead SSL SSL PRULITESE	eVer=IS_▲ mat=true		
excubeWebgate Wei Confirmation DAM Webgate FlexcubeWeb Version 1 Name 1 Description 1 Access Client Password * Security ()	gate created successfully. 1g 1excubeWebgate 1excube 11g Webgate 0 Open 9 Simple	Deny On Not Pro User Defined Parar	meters	atver=15 ^ materue rety_atte		
Confirmation OAM Webgate FlexcubeWeb Version 1 Name 1 Description 1 Access Client Password 1 * Security 1 () () () () () () () () () () () () ()	gate created successfully. 1g 1excubeWebgate Iexcube 11g Webgate Open) Simple) Cert	Deny On Not Pro User Defined Parar * Sleep for (Sec	conds)	atver=15 ^ materue rety_atte		
Confirmation CAM Webgate FlexcubeWeb Version 1 Name 1 Description 1 Access Client Password 1 * Security 1 * State 1	gate created successfully. 1g 1excubeWebgate 1excube 11g Webgate 0 Open 9 Simple 0 Cert 9 Enable 1 Disable	Deny On Not Pro User Defined Parar * Sleep for (Sec Cache Pragma H	meters	atver=15 ^ materue rety_atte		
Confirmation CAM Webgate FlexcubeWeb Version 1 Name 2 Description f Access Client Password 2 * Security 2 * Security 2 * State 2	gate created successfully. 19 FlexcubeWebgate Flexcube 11g Webgate 0 Open 9 Simple 10 Cert 10 Enable	Deny On Not Pro User Defined Parar * Sleep for (See Cache Pragma H Cache Control H	vetected vet	atver=15 ^ materue rety_atte		

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



				weblogic 👻 🚥
DRACLE [®] Acc	ess Management	F Application Security	ederation Mobile Secu	rity 🗳 Configuration
Launch Pad SSO Agents x	FlexcubeWebgate ×			B
Access Manager > FlexcubeWebgate we	obgate			Apply Download
Version	11g	Logout Target URI		
Name	FlexcubeWebgate	Deny On Not Protected	1 🔽	
Description Access Client Password	Flexcube 11g Webgate	User Defined Parameters	proxySSLHeaderVar=	
* Security	Simple	* Sleep for (Seconds	client_request_retry_ + attempts=1	
* State	CertEnable	Cache Pragma Heade	r no-cache	
	Disable	Cache Control Heade	r no-cache	

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

	Application Security A Federation Mobile Security Configuration
aunch Pad Server Instances x oam_server1 x	
Configuration >	
DAM_Server1 OAM Server Instance	Duplicate Apply
Confirmation	×
OAM Server instance cam_server1 modified successfully.	
* Server Name oam_server1	* Host ofss220607.in.oracle.con
* Port 14101 ^ ~	
A OAM Proxy	
* Proxy Server Id AccessServerConfigProxy	
* Port 5575 ^ ~	
* Mode Open 💌	
Coherence Configuration	
Coherence Contiguration	

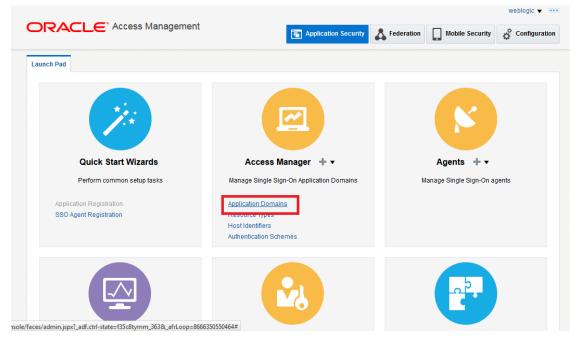


2.6.5 Post OAM Webgate 11g Creation

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.

aunch Pad	Applicati	on Domain 🗙				
Access	Manager >					
earch /	Applica	tion Domains				+ Create Application Domain
se the sea	rch tool to fi	nd an existing Application Domain or clic	the Create Application D	omain button to create a new	one.	
🔺 Sea	rch					
Name	e					
						Search Reset
Search R	esults					
	View 🔻	🕂 Create 🧪 Edit 💥 Delete	Detach			
Actions 👻				Description		
Actions 👻	Name			Description		



	CLE	* Access	Managel	ment		🚡 Applic	ation Security	A Federation	n 🛄 Mob	ile Security	¢° (Configurati
Launch Pad	Applicatio	on Domain 🗙										C
Access M	/lanager >											
Search A	Applicat	ion Doma	ins							Create A	pplicatio	n Domain
Use the searc	ch tool to fin	d an existing A	pplication Do	main or click	the Create App	lication Domain butto	n to create a new	one.				
✓ Searce	ch											
A Searce Name												
Name											Search	Reset
											Search	Reset
Name	esults	+ Create	/ Edit	X Delete	Detach						Search	Reset
Name Search Re	esults	+ Create	/ Edit	🗙 Delete	Detach	Descriptic	on				Search	Reset
Name Search Re Actions Row	esults View ▼		/ Edit	X Delete	📄 Detach	· · ·		through Remote	Registration		Search	Reset
Name Search Re Actions Row 1	esults View ↓ Name 1 Flexcube		~ .	X Delete	Detach	Application	Domain created	through Remote gration with Oracl	-		Search	Reset

3. Click on 'Authentication Polices'.

					weblogic 🔻 🚥
	Management	Application Security	Federation	Mobile Security	Configuration
Launch Pad Application Domain 🗙	FlexcubeWebgate ×				
Access Manager >					
FlexcubeWebgate Applicat	ion Domain				
Application Domain provides a logical	container for resources or sets of resources, and t	he associated policies that dicta	te who can acces	s specific protected resou	Irces.
Summary Resources Authention	cation Policies Authorization Policies Token Is	suance Policies Administrati	on		
					Apply
* Name	FlexcubeWebgate				
	Application Domain created through Remote Registration				
Description	Registration				
beschpiton					
* Session Idle Timeout (minutes)	0 ^ ~				
Allow OAuth Token					
Allow Session Impersonation					
Enable Policy Ordering					



4. Click on 'Protected Resource Policy'.

aunch Pad	Application	Domain x FlexcubeWebg	ate ×				ĺ
Access	Manager >						
lexcub	eWebgat	Application Domain					
Application I	 Domain provide	es a logical container for reso	urces or sets of resourc	es, and the associated policies	s that dictate who can access	specific protected resou	irces.
Summary	Resources	Authentication Policies	Authorization Policies	Token Issuance Policies A	dministration		
Select an	evisting Authen	tication Policy from the list or	click the Create Authent	cation Policy button to create a	new one.		
	existing numeri	acadon roncy normale list of					
Actions	▼ View ▼		🖌 Edit 🗙 Delet	e 🗐 Detach			
Actions Row	2		🖌 Edit 🗙 Delet	e 📄 Detach Description			
	▼ View ▼ Name		🖌 Edit 🗙 Delet	Description	domain creation. Add resour	ces to this policy to allow	anyone access.

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

unch Pad Appl	ication Domain × FlexcubeWebgate				
-	esource Policy Authentication	Policy		Duplicate	App
thentication Polic	-	ust be perfo	rmed to provide a sufficient level of trust for Access Manager to grant acc pplication Domain.	cess to the user making the requ	iest. A
* Name	Protected Resource Policy		Success URL		
	Policy set during domain creation. Add r to this policy to protect them.		s Failure URL		
Description	to and policy to protect arent.		elect the challenge mechanism required to thenticate the user.		
Authentication Scheme	LDAPScheme] 🗖 🦢			
Resources Re	AdaptiveAuthenticationScheme AnonymousScheme BasicFAScheme BasicSessionlessScheme ESSOProvAuthnScheme				
Resources	FAAdminLocalScheme FAAuthScheme	=			
Resource T	FederationMTScheme	-	Query String		
This Policy o	FlexcubeBasicOAMScheme FlexcubeFormOAMScheme FlexcubeKBAOAAMScheme				
	LDAPNoPasswordValidationScheme LDAPScheme OAAMAdvanced OAAMBasic				
right © 2000, 2015,	OAM10gScheme OAMAdminConsoleScheme	-			



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

unch Pad Appl	lication Domain × FlexcubeWebgate ×	FlexcubeWebgate : Protect ×			
Access Manag	er >				
rotected Re	esource Policy Authentication Po	icy	D	uplicate	App
	cy defines the type of verification that must t e defined to protect one or more resources		for Access Manager to grant access to the user making	the reque	st. A
* Name	Protected Resource Policy	Success	3 URL		
Description	Policy set during domain creation. Add re to this policy to protect them.	sources Failure	URL		
Authentication Scheme	FlexcubeBasicOAMScheme	1			
Resources Res	sponses Advanced Rules				
Identity As:	sertion				
This will cause	an assertion to be generated for the user,	optionally containing any Asserted Attribute set b	pelow.		
Responses	🕂 Add 💉 Edit 💥 Delete				
Name		Туре	Value		
	es not have any Responses				

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

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

Click on Add button

aunch Pad Appl	ication Domain × FlexcubeWebgate ×	FlexcubeWebgate : Protect ×	
uthentication Polic	esource Policy Authentication Poli	e performed to provide a sufficient level of trust for Access Ma	Duplicate Appl anager to grant access to the user making the request. A
* Name	Protected Resource Policy	Add Response X	
Description * Authentication Scheme Resources Ret	Policy set during domain creation. Add res to this policy to protect them. FlexcubeBasicOAMScheme	* Name DN Value	
Identity Ass This will cause Responses	an assertion to be generated for the user, o	Identity Assertion has not been enabled for this policy Enable Identity Assertion in order Add Cancel	
Name		Туре V	alue
This Policy do	es not have any Responses		



8. Click on Apply to Save the Changes

			×
Confirmat			^
uthentication F	Policy, Protected Resource Policy, modified su	ccessfully	
* Name	Protected Resource Policy	Success URL	
	Policy set during domain creation. Add reso to this policy to protect them.	urces Failure URL	
Description	to this policy to protect them.		
uthentication Scheme	FlexcubeBasicOAMScheme		
sources Re	sponses Advanced Rules		
Identity Ass	sertion		
Idontity Acc	sertion		

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

aunch Pad	Application Domain × FlexcubeWebgate ×					6
Access I	Manager >					
lexcub	eWebgate Application Domain					
pplication D	omain provides a logical container for resources or sets of resourc	ces, and the	associated policies that di	tate who can acces	s specific protected reso	urces.
Summary	Resources Authentication Policies Authorization Policies	Token Issu	uance Policies Administ	ation		
	1					
Select an e	xisting Authorization Policy from the list or click the Create Authoriza	ation Policy b	outton to create a new one.			
	-					
Actions 🖣	 View		etach			
	View		etach Description			
Actions 🖣	 View		etach	creation. Add resou	rces to this policy to allow	v anyone access.
Actions 🖣	View		etach Description			
Actions 🖣	View		etach Description Policy set during domain			
Actions 🖣	View		etach Description Policy set during domain			



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

	s Managomont					weblo	gic 🔻
JRACLE Acces	s Management	Г Арр	lication Security	Federation	Mobile Security	Ç [©] Con	figurati
aunch Pad Application Domain 🗙	FlexcubeWebgate ×	FlexcubeWebgate : Protect ×					C
Access Manager >							
Protected Resource Pol	ICV Authorization Policy					Duplicate	Apply
	e generated for the user, op	tionally containing any Asserted Attri	bute set below.				
	**						
Responses + Add	1	Туре	Value				
		Туре	Value				
Name		Гуре	Value				

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

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

Click on Add button

nch Pad Application Domain x FlexcubeWebgate x	excubeWebgate : Protect ×	
Access Manager > otected Resource Policy Authorization Polic norization policy contains a set of conditions that define whe	dd Response × sources protected by the policy. A	Duplicate Apply
dittions apply to all resources within a specific Authorization ummary Resources Conditions Rules Response Identity Assertion This will cause an assertion to be generated for the user. Responses + Add Petitit >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	* Type Header Name DN Suser.attr.gg	
Name This Policy does not have any Responses	Identity Assertion has not been enabled for this policy Enable Identity Assertion in order Add Cancel	



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

	ss Management	E A	pplication Security	A Federation	Mobile Security
aunch Pad Application Domain	× FlexcubeWebgate × F	lexcubeWebgate : Protect ×			
Access Manager >					
Protected Resource Po	Authorization Policy				Duplicate Ap
	f conditions that define wheth		denied access to the	resources protected	by the policy. Authorization rules and
Confirmation					2
• • • • • • • • • • • • • • • • • • • •					
Authorization Policy, Protected R	esource Policy, modified succ	cessfully			
Summary Resources Condit	ions Rules Responses				
Summary Resources Condu	ions Rules Responses				
Identity Assertion					
This will cause an assertion to	be generated for the user, opt	tionally containing any Asserted A	ttribute set below.		
Responses 🕂 Add	🗡 Edit 🗙 Delete				
Name	т	уре	Value		
DN	н	leader	\$user.attr.dn		

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

WLSSLWallet

"<ORACLE_MIDDLEWARE>/<ORACLE_WEBTIER_HOME>/instances/instance1/config/OHS/ohs1/keystores/default"

</Location>

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



2.6.5.5 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	Un	Friday, January 11, 2013			
		16:18:27			

Cache Name	State			(seconds)	Cache Stats (Hits:Misses: Expired:Flushed)	Memory Footprint (bytes)
Resource to Authentication Scheme		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.



Oracle Access Manager Te	st Tool	_ ×
<u>F</u> ile <u>E</u> dit <u>T</u> est <u>H</u> elp		
🗀 🖬 I 🛷 I 🏦		
Server Connection		
IP Addr Port Max C *Prim[ss220028.in.oracle.com] 5575 [1	*Ade FlexcubeWebgate	
	Agent Pa	
Secon	L	?
Min C Timeou Mo Global Passo 1 30000 si ***********	~	Connect
Protected Resource URI		
Sche *H	Port	S 🗸
https V FlexcubeWebdate	Onerat	☑ Get Auth S
Resour /FCINeoWeb	Operat Get 🗸 🗸	Validate
User Identity		
IP Address *Username Password ***********	2	*
User Certifica	~ ~	Authenti
	~	Authorize
- Status Messages		
[1/11/13 5:33 PM][response] Connected to primary access ser	Vor	
[1/11/13 5:34 PM][request][validate] yes		
[1/11/13 5:34 PM][response] Authentication scheme : Flexcub [1/11/13 5:34 PM][response] Redirect URL : https://ofss220028		
[1/11/13 5:34 PM][response] Credentials expected : 0x1 (basic		E
[1/11/13 5:34 PM][request][authenticate] yes		
[1/11/13 5:34 PM][response] User DN : cn=SARAN,cn=users,d [1/11/13 5:34 PM][response] SessionID : 6e531a7f-460d-4db8		
[1/11/13 5:34 PM][response][action] DN : cn=SARAN,cn=users		
[1/11/13 5:34 PM][response][action] OAM_IMPERSONATOR_US	ER :	-
Elapsed (86 Capture Q Empty		🖸 🖌

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

🔷 User Admin					-
💾 Save					
User Details					
Externel Identifier	FCISUSER FCIS User FCIS User m=FCUSR,cn=Users,d(Language * Home Branch * Home Module *	000		 Staff Auto End Of Day Customer
Modules		Status Description			
	Corporate	User Status	 Enabled Hold Disabled Locked 	Time Level Status Changed On Last Signed On	* 9
Invalid Logins		User Passwords			
Cumulative Successive	0	Password Password Changed On Email		Start Date End Date	* 07/26/2014
Amount Limits					
Override Amount * Transaction Amount * Auth Amount * Date Format	k	Auto Auth Amount Format	No 💌 Dot Comma 💌		
Restricted Passwords	Roles Functions Bran	ches Module Disallo	wed Functions		
Input by Authorized by		ateTime ateTime	Mod No Open Authorized		Ok Cancel

2.7.3 Launching FLEXCUBE

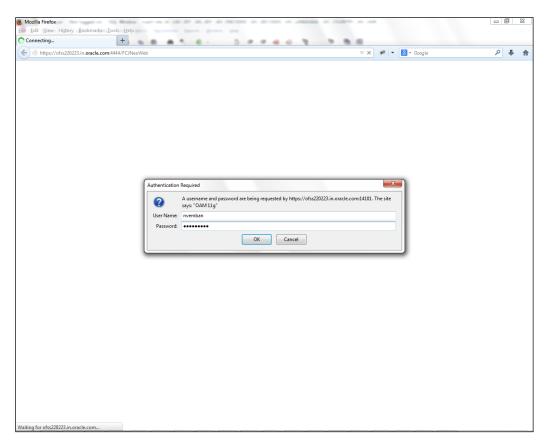
After setting up FLEXCUBE to work on Single Sign on mode, navigate to the URL <u>https://<hostname>:<OHS</u> SSL Port>/<Context Root> from your browser

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

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

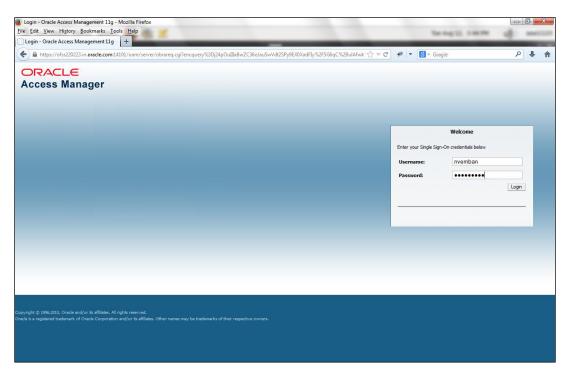


2.7.3.1 Basic Style Challenge by Webgate

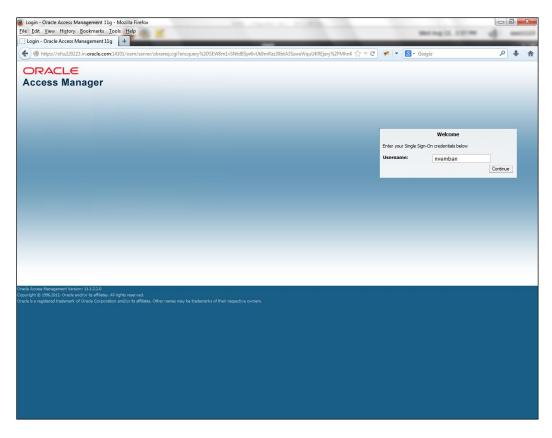




2.7.3.2 Form Style Challenge by Webgate



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





First Time Login

ORACLE Access Manager			^
	Enter your Single Sign-	Welcome	
	Password:	Pessivot Security Device Image	
Oracle Access Management Version: 11.1.2.20 Copyright & 19%2013. Oncice and/or its affliates. All rights reserved. Oracle is a registered trademark of Oracle Corporation and/or its affliates. Other names may be trademarks of their respective owners.			

ORACLE Access Manager		
Access Manager		
	Your Security Device	
		Continue
hank Access Management Version: 11.1.2.2.0 Compared 19 1996;3021. Orando and/or its officials. All rights mammed. Crack is a registered trademark of Oracle Composition and/or its afficials. Other names may be trademarks of their respective our Crack is a registered trademark of Oracle Composition and/or its afficials. Other names may be trademarks of their respective our	NML	



ORACLE Access Manager		*
Select Your Security Questions/Answers		
1) Select One		
2) Select One	•	
3) Select One	•	
4) Select One -		
5) Select One	Continue	
Oracle Access Management Version: 11.1.2.0 Copyright @ 1996;2013, Oracle and/or its affiliates. All rights reserved. Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other r		~

ORACLE	*
Access Manager	
Select Your Security Questions/Answers	
1) Where did you get your first pet?	
OFSS	
2) What is the name of the first musical group you saw in concert? 🔸	
2 minutes the memory of the maximum and and group you saw in concent	
3) What color was your first pet?	
OFSS	
4) What was the first name of your first boss?	
OFSS	
5) Who is your favorite athlete?	
OFSS	
Continue	
Oracle Access Management Version: 11.1.2.20 Coxyrght 51 (376:2301). Oracle and ora 1 adhates. All right reserved.	
Concis is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.	
	-



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.



ne inieractions Cust arch	« 16516 (=	() Information	Message								
		Information Message									
		Last Login :2011-01-04 16:22:27									
		Current T									
		• • • • • • • •									
								Ok			

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.

