Application Installation Guide Oracle Financial Services Lending and Leasing

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1. Preface

For recommendations on security configuration, refer Security Configuration Guide.

This document contains notes and installation steps needed to install and setup Oracle Financial Services Lending and Leasing. Oracle Financial Services Lending and Leasing relies on several pieces of Oracle software in order to run and this document is in no way meant to replace Oracle documentation supplied with these Oracle products or available via Oracle technical support. The purpose of this document is only meant to supplement the Oracle documentation and to provide Oracle Financial Services Lending and Leasing specific installation instructions.

It is assumed that anyone installing Oracle Financial Services Lending and Leasing will have a thorough knowledge and understanding of Oracle Weblogic Server 10.3.5/10.3.6, Oracle BI Publisher 11.1.1.6.

Application installation is a seven step process.

- 1. Installing Software
- 2. <u>Creating Domains, Repositories, Data Sources</u>
- 3. Configuring Policies
- 4. Configuring Oracle BI Publisher for Application
- 5. Deploying Application
- 6. Enabling SSL
- 7. Launching Application

1.1 <u>Prerequisites</u>

The following software are required to install Oracle Financial Services Lending and Leasing application.

1. Sun JDK Version 1.6 update 31 or above <u>http://www.oracle.com/technetwork/java/javase/downloads/index.html</u>

OR

Oracle JRockit JDK Version 1.6 update 22 or above <u>http://www.oracle.com/technetwork/</u> middleware/jrockit/downloads/index.html

- 2. Oracle Repository Creation Utility (RCU) Version 11.1.1.6.0. Download RCU for the respective platform from the "Required Additional Software" section of http://www.oracle.com/technetwork/middleware/bi-publisher/downloads/index.html
- 3. Oracle WebLogic Server 11gR1 Version 10.3.5/10.3.6

http://www.oracle.com/technetwork/middleware/weblogic/downloads/wls-main-097127.html)

Navigate to Oracle WebLogic Server 11gR1 (10.3.5/10.3.6) + Coherence - Package Installer and download the file for respective OS.

To use WebLogic Server with 64-bit JVM's on Linux and Solaris or to use WLS on other supported platforms, use the WebLogic Server generic installer listed under "Additional Platforms". The generic installers do not include a JVM/JDK. These are to be downloaded and installed prior to installing the Weblogic Server.

4. Oracle ADF 11g http://www.oracle.com/technetwork/developer-tools/adf/downloads/index.html



Note

Please use all 64-bit software's for machine hosted with 64-bit O/S.

Note

Use XManager for remote UNIX/LINUX machine. Please refer XManager Usage.

1.2 <u>Audience</u>

This document is intended for system administrators or application developers who are installing Oracle Financial Services Lending and Leasing Application.

1.3 Conventions Used

Term	Refers to
Application	Oracle Financial Services Lending and Leasing



2. Installing Software

2.1 Installing Oracle WebLogic Server 11g

To install using generic Weblogic installer -

- 1. Run the command \rightarrow java -jar wls1035_generic.jar / java -jar wls1036_generic.jar
- 2. Welcome screen is displayed as shown below.

👩 Oracle Installer - WebLogic 10.3.5.0		
Welcome This installer will guide you through the ins WebLogic 10.3.5.0	tallation of	ORACLE [.]
	Instructions Click the Next button to proc change entries in a previous may quit the installer at any	eed to the next screen. If you want to screen, click the Previous button. You time by clicking the Exit button.
ORACLE		
Exit		Previous <u>N</u> ext

3. Click **Next** to continue.



👩 Oracle Installer - WebLogic 10.3.5.	0	
Choose Middleware Home Directory Specify the Middleware Home where you wish to install WebLogic 10.3.5.0.		ORACLE
 Middleware Home Type Use an existing Middleware Home Create a new Middleware Home 	D:\Oracle\Middleware C:\Oracle\Middleware1035	
Middleware Home Directory		
C:\Oracle\Middleware		
Browse Reset		
E⊻it		Previous Next

- 4. Select Create a new Middleware Home as Middleware Home Type
- 5. Specify the path for **Middleware Home Directory**, and then click **Next**.
- 6. Confirmation window is displayed as shown below.

Are you sure?		
Â	Do you wish to bypass initiation of the configuration manager and remain uninformed of critical security issues in your configuration?	
	Yes No	



7. Click **Yes** to continue.

ſ	Connection failed
	If necessary, specify proxy server information. Otherwise click Cancel and check your network connection.
	Proxy Server:
	Proxy Port:
	Use authentication
1	Proxy Username:
	Proxy Password:
	If this machine has no internet connection, select the checkbox below and click Continue.
	I wish to remain uninformed of security issues in my configuration or this machine has no Internet access.
	Cancel Continue

8. Check the check box as shown in the above screen shot and click **Continue**. The following window is displayed.

🛃 Oracle Inst	aller - WebLogic 10.3.5.0	
Choose In Select the type	stall Type of installation you wish to perform.	ORACLE [.]
	• WebLogic Server • Oracle Coherence	
00	Custom	
0	Choose software products and components to install and configuration.	perform optional
Exit		Previous Next

9. Select 'Typical' as the 'Install Type' and click **Next.** The following window is displayed.



😡 Oracle Installer - WebLogic 10.3.5.0	
JDK Selection JDK(s) chosen will be installed. Defaults will be used in script string-substitution if installed.	ORACLE
	💍 Discard Changes
Bundled JDK:	Approximate installed size*
	Highlighted item:
	All selected bundled JDK's: 0.0 KB
	Total of all selected items: 655.1 MB
	*Installer requires free disk space approximately 2x this total
Local JDK:	
Browse	
E <u>x</u> it	Previous Next

10. Click Browser button and select existing JDK Home Path as shown below.

🛃 Open	Contraction of the second second	×
Look <u>I</u> n:	Documents	× 🛱 🗂 📴 📴
ing apps dbkls My G NetB Visua	-xws-app oogle Gadgets eansProjects Il Studio 2005	
<u>N</u> ame:	C:\Program Files\Java\jdk1.6.0_26	
<u>I</u> ype:	All Files	· · · · · · · · · · · · · · · · · · ·
		Select



11. The selected Java Home is displayed as shown below.

👩 Oracle Installer - WebLogic 10.3.5.0	
JDK Selection JDK(s) chosen will be installed. Defaults will be used in script string-substitution if installed.	ORACLE
	🔁 Discard Changes
Bundled JDK:	Approximate installed size*
	Highlighted item:
	All selected bundled JDK's: 0.0 KB
	Total of all selected items: 655.1 MB
	*Installer requires free disk space approximately 2x this total
Local JDK:	
☑ Sun SDK 1.6.0_26 (C:\Program Files\Java\jdk1.6.0_26)	
Browse	
Exit	Previous Next

12. Click Next. The following window is displayed.

😡 Oracle Installer - WebLogic 10.3.5.0	
Choose Product Installation Directories Provide the directories where you wish to install WebLogic 10.3.5.0.	ORACLE
	💍 Dis <u>c</u> ard Changes
Middleware Home Directory	
C:\Oracle\Middleware	
Product Installation Directories	
The Product Home might contain shared utilities and any products or comp are not set. WebLogic Server:	ponents for which unique directories
C:\Oracle\Middleware\wlserver_10.3	Browse
Oracle Coherence:	
C:\Oracle\Middleware\coherence_3.6	Browse
E <u>x</u> it	Previous <u>N</u> ext

13. Click **Next**. The following window is displayed.



Note

You can change the Oracle WebLogic Server and Oracle Coherence paths, if needed.

	💀 Oracle Installer - WebLogic 10.3.5.0
	Choose Shortcut Location
	The installer creates shortcuts to Oracle components, samples, and tools. As a ORACLE user with administrative privileges, you can specify where these shortcuts are created.
	Select the Start Menu folder in which you want to create Oracle shortcuts:
	• "All Users" Start Menu folder (recommended)
	For some installations, this setting may limit the automatic creation of server shortcuts for users without administrative privileges. Refer to the documentation for more information.
1	O <u>L</u> ocal user's Start Menu folder
	Select this option if you need to ensure that other profiles registered on this machine will not have access to these shortcuts.
	Exit Previous Next

14. Select the recommended option for the Shortcut Location and click **Next**. The following window is displayed.

•	
The following Products and JDKs will be installed.	ORACLE [®]
 WebLogic Server Core Application Server Administration Console Configuration Wizard and Upgrade Fran Web 2.0 HTTP Pub-Sub Server WebLogic SCA WebLogic JDBC Drivers Third Party JDBC Drivers WebLogic Server Clients WebLogic Web Server Plugins UDDI and Xquery Support 	Description Implements JEE technologies, Web services, and other leading Internet standards, to provide a reliable framework for highly available, scalable, and secure applications.
Coherence Coherence Coherence Coherence	Approximate Installed Size Highlighted item: 658.4 MB Total of all selected items: 655.2 MB



15. Click **Next**. The following window is displayed.

😡 Oracle Installer - WebLogic 10.3.5.0		
Installation Complete Click the Done button to exit the installer.		ORACLE [.]
	Message Congratulations! Installation is complete.	
ORACLE	🗹 Run Quickstart	
Exit		Previous Done

16. Click **Done** to close the window.

2.2 Installing Oracle ADF Runtime

- 1. Extract the zipped file ofm_appdev_generic_11.1.1.6.0_disk1_1of1.zip.
- 2. Go to Disk1 folder of the above unzipped file. Run the following command

In Unix\Linux:./runInstaller

3. Enter JDK/JRE Home Path, when prompted.

In Windows:setup.exe -jreLoc <JDK/JRE Home Path>



4. Welcome window is displayed.



5. Click Next. The following window is displayed.

Oracle Fusion Middleware 11	pdates
Welcome Skip Software Updates Skip Software Updates Prerequisite Checks Installation Location Application Server Installation Summary Installation Progress Installation Complete	Skip Software Updates Search My Oracle Support for Updates User Name: Password: Proxy Settings Test Connection Search Local Directory for Updates Local Directory: Browse Search For Updates
Help	< <u>Back</u> <u>Next</u> > <u>Einish</u> Cancel Elapsed Time: 0m 15s



Prerequisite Che	cks			. <u>e</u> . ware 11 4
Welcome	Selection	Check	Progress	Status
Skip Software Updates	v	Checking operating system certification	100%	×
Prerequisite Checks	V	Checking physical memory	100%	1
Installation Summary Installation Progress Installation Complete		Ab hecking operating system certification hecking physical memory	ort <u>R</u> etry	<u>C</u> ontinue

6. Select **Skip** Software **Updates** and click **Next**. The following window is displayed.

7. Click Next. The following window is displayed.

Oracle Fusion Middleware 11g	Application Developer Install	ation - Step 4 of 8		
Specify Installation Location				
Welcome Skip Software Updates Prerequisite Checks Installation Location Application Server Installation Summary Installation Progress Installation Complete	Oracle <u>M</u> iddleware Home: <u>O</u> racle Home Directory: The Oracle home will be create given name.	C:\Oracle\Middleware oracle_common	► Browse	
Help		< <u>B</u> ack <u>N</u> ext	Einish Cancel Elansed Time: 1m 15s	



8. Select Oracle **Middleware Home Path** as highlighted and click **Next**. The following window is displayed.

Oracle Fusion Middleware 11g	Application Developer Installation - Step 5 of 8
Application Server	
Welcome Skip Software Updates Prerequisite Checks Installation Location Application Server Installation Summary Installation Progress Installation Complete	WebLogic Server WebSphere Application Server Location C:10racleWiddleware Browse
	WLS installation detected, WebLogic Server support available in this Middleware Home.
Help	< <u>Back</u> <u>Next</u> > <u>Finish</u> Cancel
Help	< Back Next > Einish Cancel Elapsed Time: 1m 20
Help Select WebLogic Serv	<pre></pre>
Help Select WebLogic Serv Oracle Fusion Middleware 11g A	<u>Application Developer Installation - Step 6 of 8</u>
Help Select WebLogic Serv Oracle Fusion Middleware 11g A Installation Summa	< Back Next > Enish Cancel Elapsed Time: 1m 20 rer and click Next. The following window is displayed. Application Developer Installation - Step 6 of 8 Try ORACLE: FUSION MIDDLEWARE 118
Help Select WebLogic Serv Oracle Fusion Middleware 11g / Installation Summa Welcome Skip Software Updates Prerequisite Checks Installation Location Application Server Installation Progress Installation Complete	<pre></pre>
Help Select WebLogic Serv Oracle Fusion Middleware 11g / Installation Summa Welcome Skip Software Updates Prerequisite Checks Installation Server Installation Summary Installation Progress Installation Complete	< Back Mext > Finish Cancel Elapsed Time: 1m 20 reer and click Next. The following window is displayed. Application Developer Installation - Step 6 of 8 Image: Colspan="2">Image: Colspan="2">Colspan="2" Colspan="2">Colspan="2" Officition Developer Middleware Home Location: C:\Oracle\Middleware Oracle Home Location: C:\Oracle\Middleware Oracle Home Location: C:\Oracle\Middleware Oracle Enterprise WebLogic Server Applications Oracle Enterprise Manager Coracle Enterprise Manager
Help	< Back



10. Click Install. The following window is displayed.

Oracle Fusion Middleware 11g	Application Developer Installation - Step 7 of 8
Installation Progre	ss ORACLE 118
Skin Software Undates	Progress
	100%
Prerequisite Checks	Completed
Installation Location	Install Log C:\Program Files\Oracle\Inventory\logs\install2013-01-31_11-52-57AM.log
Application Server	Installation Successful.
Installation Summary	Starting execution of post install scripts
Installation Progress	Execution of post install scripts completed
Oracle Fu	ision Middleware More Flexibility
	ORACLE
Help	< <u>B</u> ack <u>N</u> ext > <u>F</u> inish Cancel
	Elapsed Time: 4m 5s



11. Once the installation is complete, click **Next**. The following window is displayed.

Installation Comp	
 Welcome Skip Software Updates Prerequisite Checks Installation Location Application Server Installation Summary Installation Progress Installation Complete 	Install Oracle Application Developer Directory Details Oracle Home Location: C:\Oracle\Middleware Oracle Home Location: C:\Oracle\Middleware\oracle_common Application Server Type: WebLogic Server Application Server Location: C:\Oracle\Middleware Oracle Home Size: 1020 MB Available: 30487 MB Oracle Enterprise Manager Save Installation Details: Save
Help	Oracle Application Developer installation completed successfully < Back Next > Einish Cancel

12. Click Finish to close the window.



3. Creating Domains, Repositories, Data Sources

3.1 Creating Domain and Servers

1. In Unix/Linux machine, once the Oracle WebLogic Server is installed, navigate to the following path.

<WL_HOME>/wlserver_10.3/common/bin

Note

Use XManager for remote UNIX/LINUX machine. Refer XManager Usage.

Here, WL_HOME is /home/Oracle/Middleware.

2. In Unix run config.sh.

In Windows Go to Start Menu \rightarrow All Programs \rightarrow Oracle WebLogic \rightarrow WebLogic Server 11gR1 \rightarrow Tools,

퉬 Oracle WebLogic	
Online Documentation	
[QuickStart	
🙆 Smart Update	
Uninstall Oracle WebLogic	
🌗 WebLogic Server 11gR1	-
🌗 Tools	
Configuration Wizard	
Domain T D:\Oracle\Middle	war
🔺 Domain Upgrade Wizard	
國 Node Manager	
🔳 WebLogic Scripting Tool	Ŧ
◀ Back	
Search programs and files	



3. Click Configuration Wizard icon.

Fusion Middleware Configuration Wizard		
Welcome		ORACLE [.]
Create a new WebLogic domain Create a WebLogic domain	ctow.	
	ctory.	
O Extend an existing WebLogic domain	1	
Use this option to add new components to an	existing domain and modify configuration settings.	
Exit Help	[Previous <u>N</u> ext

4. Select **Create a new WebLogic domain** and click **Next**. The following window is displayed.

Fusion Middleware Configuration Wizard	
Select Domain Source	ORACLE
Generate a domain configured automatically to support the following produc	cts:
Basic WebLogic Server Domain - 10.3.6.0 [wiserver_10.3] *	
Oracle WSM Policy Manager - 11.1.1.0 [oracle_common]	
Oracle JRF WebServices Asynchronous services - 11.1.1.0 [oracle_common]	
✓ Oracle JRF - 11.1.1.0 [oracle_common]	
Basic WebLogic SIP Server Domain - 10.3.4.0 [wlserver_10.3]	
WebLogic Advanced Web Services for JAX-RPC Extension - 10.3.6.0 [wlserver_10.3]	
WebLogic Advanced Web Services for JAX-W5 Extension - 10.3.6.0 [wlserver_10.3]	
O Base this domain on an existing template	
Template location: C:\Oracle\Middleware Brow	vse
Egit Help	Previous Next

- 5. Select Generate a domain configured automatically to support the following products option.
- 6. Select Oracle Enterprise Manager 11.1.1.0 [oracle_common] check box.
- 7. Select Oracle JRF 11.1.1.0 [oracle_common] check box.



8. Click **Next**. The following window is displayed.

Specify Domain Name	and Location			ORACLE
	En f	ter the name and location for the domain:		
	Domain location:	C:\Oracle\Middleware\user_projects\domains	Browse	

9. Enter **Domain** Name and click **Next**. The following window is displayed.

10. Edit Domain Location, if needed.

Eusion Middleware Configu	Eusion Middleware Configuration Wizard		
Configure Administrato	User Name and Password	ORACLE	
💍 Disgard Changes			
*Name:	weblogic		
*User password:	*****		
*Confirm user password:	****		
Description:	This user is the default administrator.		
Exit Help		Previous Next	

- 11. Enter credentials for the following:
 - Name
 - User password



- Confirm user password
- Description
- 12. Click **Next**. The following window is displayed.

Fusion Middleware Configuration Wizard	
Configure Server Start Mode and JDK	ORACLE
Before putting your domain into production, make sure that Production Environment' in the WebLogic Server documents WebLogic Domain Startun Mode	the production environment is secure. For more information, see the topic 'Securing a ation.
O Development Mode Utilize boot.properties for username and password and poll for applications to deploy. Sun JDK recommended for better startup performance during iterative development.	Available JDKs Sun SDK 1.6.0_26 @ C:\Program Files\Java\jdk1.6.0_26
Production Mode Require the entry of a username and password and do not poll for applications to deploy. WebLogic IRockit JDK recommended for better runtime performance and management.	O Uther JDK Location: Browse
Exit Help	Previous Next

13. Select Production Mode and JDK/JRockit from Available JDKs

OR

Select Other JDK option to select any other JDK/JRockit .

14. Click Next. The following window is displayed.

Fusion Middleware Configuration Wizard		
Select Optional Configuration		ORACLE
	 ✓ Administration Server Modify Settings ✓ Managed Servers, Clusters and Machines Add or Delete Modify Settings □ RDBMS Security Store Modify Settings 	
Exit <u>H</u> elp		Previous Next



15. Select Administration Server and Managed Servers, Clusters and Machines and click Next. The following window is displayed.

Eusion Middleware	Configuration Wizard	
Configure the Ad	ninistration Server	ORACLE
Discard Changes		
*Name:	AdminServer	
*Listen address:	All Local Addresses	
Listen port:	7001	
SSL listen port:	N/A	
SSL enabled:		
E <u>x</u> it <u>H</u> elp]	Previous

16. Enter Administration Server **Name** and **Listen Port** details and click **Next**. The following window is displayed.

💽 Fu	Eusion Middleware Configuration Wizard					
Cor	nfigure Managed Server	ORACLE				
	🖳 Add 🛛 🗙 Delete 💍 Discard	d Changes			Switch Display	
	Name*	Listen address*	Listen port	SSL listen port	SSL enabled	
	→ 1 Ofsll_ManagedServer	All Local Addresses	7003	N/A		
	E <u>x</u> it <u>H</u> elp				Previous Next	

17. Enter **Name** and **Listen Port** details in Configure Managed Servers window and click **Next**. The following window is displayed.



•	Fusion Middleware Configur	ation Wizard			
С	Configure Clusters				ORACLE [®]
	🕂 Add 🗱 Delete 🕐 Dis	<u>c</u> ard Changes			Switch Display
	Name*	Cluster messaging mode	Multicast address	Multicast port	Cluster address
	E <u>x</u> it <u>H</u> elp				Previous Next

18. Configure as required and click **Next**. The following window is displayed.

Susion Middleware Configuration Wizard	
Configure Machines	ORACLE
Machine Unix Machine	
🖳 Add 🗱 Delete 💆 Discard Changes	
E <u>x</u> it <u>H</u> elp	Previous Next

19. Configure as required and click **Next**. The following window is displayed.



	Fusion Middlew	vare Configuration Wizar	d			x
(Configuration	Summary			ORACLE	E.
	Domain Summary Summary View:	/ Deployment (C:1Oracle1Middleware1user	▼	Click on an iter Details pane b prior panel. If	m in the Domain Summary pane on the left to inspect its attributes in the elow. You can make limited adjustments by clicking Previous to return to everything is satisfactory, click Create.	a
	Server Admi Ofsl	nServer ManagedServer		Lecais Attribute Description Author Location	Value Basic WebLogic Server Domain Create a basic WebLogic Server domain without installing sample app Oracle Corporation C:\Oracle\Middleware\wiserver_10.3\common\templates\domains\wiserver_10.3\common\templates\domains	licat s.jar
,	Exit	telp			Previous	;e

20. Click **Create**. The following window is displayed.

Fusion Middleware Configuration Wiz	ard	
Creating Domain		ORACLE
ORACLE.	Preparing Extracting Domain Contents Creating Domain Security Information Saving the Domain Information Storing Domain Information String Substituting Domain Files Performing Oos Specific Tasks Performing Post Domain Creation Tasks Domain Created Successfully! Domain Location: C:\Oracle\Middleware\user_projects\domains\ofsll_domain Admin Server URL: http://MBOMMAVA-IN:7001	
		Start Admin Server
Exit Help		Previous Done

- 21. Once the creation of the Domain is complete.
- 22. Click **Done** to close the window.



Note

The default Weblogic installation will be running JVM with 512MB, this has to be increased for the ADF managed server. Say, for a 2 CPU Quad Core with 16 GB it could have the JVM running at 8 GB as:

USER_MEM_ARGS="-Xms8192m -Xmx8192m -XX:PermSize=2048m -XX:Max-PermSize=2048m"

 The "\$MW_HOME/user_projects/domains/mydomain" directory contains a script that can be used to start the Admin server. Use the "&" if you want access to the command line to be returned.

\$ cd \$MW_HOME/user_projects/domains/mydomain

- \$./startWebLogic.sh &
- 24. To Start Managed Server

\$ cd \$MW_HOME/user_projects/domains/mydomain/bin

\$ \$MW_HOME/user_projects/domains/mydomain/bin/startManagedWebLogic.sh {ManagedServer_name} {AdminServer URL} &

3.2 Applying the JRF Template

- 1. Start Oracle WebLogic Server
- 2. Login to Oracle Enterprise Manager 11g Console (http://hostname:port/em).

ORACLE Enterprise Ma	nager 11g Fusion Middleware Control					Setup 🗸 I	Help 👻 Log Out
🕂 Farm 👻 🔏 Topology							
Farm_ofsll_domain	Farm_ofsll_domain () Logged in as weblook Page Refreshed Jan 31, 2013 12:07:47 PM IST ()						
🗷 🚞 WebLogic Domain	Deployments		3	Fusion Middleware			
	100 %	Up (4)		50%	25	Down (1) Up (1)	
	Name	Status	Target	Name	Status	Host	CPU Usage (%)
	Application Deployments			🖃 🛅 WebLogic Domain			(10)
				🖃 💾 ofsl_domain			
				AdminServer	Û	MBOMMAVA-IN.in	0.00
				Gfsl_ManagedServer			

3. On Left window panel, expand WebLogic Domain → ofsll_domain and click Ofsll_ManagedServer as shown below.





4. On right window panel, click **Apply JRF Template** Button. The confirmation message is displayed as shown below.



3.3 Creating Schemas using Repository Creation Utility

- 1. Download Oracle Repository Creation Utility Tool (ofm_rcu_linux_11.1.1.6.0_disk1_1of1.zip) from the link mentioned in prerequisites.
- 2. Unzip the ofm_rcu_linux_11.1.1.6.0_disk1_1of1.zip to your local drive.
- 3. On windows, assume that it is unzipped to C:/oracle/rcuHome and set the value as RCU_HOME.
- i.e. export RCU_HOME=C:/oracle/rcuHome
- 4. Open command prompt and browse to \$RCU_HOME/bin and run ./rcu
- 5. On Unix, /home/oracle/rcuHome/bin and run ./rcu
- 6. The following window is displayed.

4		Repository Creation Utility - Welcome _ 🗆 🛪
We	lcome	
	Welcome	
Ť	Create Penositony	
L T	Create Repository	Welcome to Repository Creation Utility for Oracle Fusion Middleware.
Ĭ	Database Connection Details	The Repository Creation Utility enables you to create and drop component schemas that are part of
Ĭ	Select Components	Oracle Fusion Middleware.
Ŷ	Schema Passwords	
Ý	Map Tablespaces	A
Ý	Summary	
0	Completion Summary	
		Ski <u>p</u> this Page Next Time
		Messages:
	Help	< <u>B</u> ack <u>N</u> ext > <u>F</u> inish Cancel

7. Click Next. The following window is displayed.



🛃 Repos	itory Creation Utility - Step 1 of 7 : Create Repository _ \square ×
Create Repository	
Welcome	() Create
Q Create Repository	Create and load component schemas into a database.
Database Connection Details	
Select Components	○ <u>D</u> rop
of Schema Passwords	Remove component schemas from a database.
Map Tablespaces	R
Q Summary	
O Completion Summary	
	Messages:
Help	< <u>Back</u> Next > Einish Cancel

8. Select **Create** to create new schemas and click **Next**. The following window is displayed.

🛃 Repository 🤅	Creation Utility	- Step 2 of 7 : Database Connection Details $_$ \square \times
Database Connection Deta	ils	
♥ Welcome ↓ <u>↓</u> <u>Create Repository</u>	<u>D</u> atabase Type:	Oracle Database 🔹
Database Connection Details Select Components Schema Passwords	Hos <u>t</u> Name:	localhost.localdomain For RAC database, specify VIP name or one of the Node name as Host name. For SCAN enabled RAC database, specify SCAN host as Host name.
Map Tablespaces	P <u>o</u> rt:	1521
O Summary O Completion Summary	<u>S</u> ervice Name:	orcl
	<u>U</u> sername:	sys User with DBA or SYSDBA privileges. Example:sys
	<u>P</u> assword:	•••••
	<u>R</u> ole:	SYSDBA One or more components may require SYSDBA role for the operation to succeed.
	<u>M</u> essages:	
Help		< <u>Back</u> Next > Einish Cancel

9. Provide database details where you want to create schemas, as shown in the above screen.



Note

You will require a user with SYSDBA role to create schemas.

rect components				
Welcome	A Prefix groups the components as	ssociated with one deploym	ent.	
Create Repository	 Select an existing Prefix 			
Database Connection Details	Oreate a new Prefix	OLL		
Select Components	-	Prefix can contain only a	Ipha-numeric characters. Prefix :	should not
Schema Passwords	-	start with a number and	should not contain any special ch	naracters.
Man Tablesnaces	Component		Schema Owner	
Map Tablespaces	Oracle AS Repository Cr	omponents		
Summary	■ I AS Common Schema	IS		
Completion Summary	Metadata Service	s	OLL_MDS	
compression painting,	Audit Services		IAU	
	Audit Services For	r OES	IAUOES	
	Enterprise Schedr	uler Service	ESS	33
	Oracle Platform S	ecurity Services	OLL_OPSS	200
	Identity Management	t		
	■ WebCenter Content			
	Image: Bata Integrate	or		
	🖃 🗹 Oracle Business Intel	lligence		
	🛛 🗹 Business Intelliger	nce Platform	OLL_BIPLATFORM	
	🛛 🖃 🗆 WebLogic Communic	ation Services		
	■□SOA and BPM Infrast	ructure		

- 10. Select Create a new Prefix option and specify value. For example, OLL
- 11. Check Metadata Services, Oracle Platform Security Services and Business Intelligence Platform as shown in the above screen.
- 12. Click **Next**. The following window is displayed.

Metadata Services	00:00 100(ms)
Oracle Platform Security Services	00:00.100(ms)
Business Intelligence Platform	00:00.425(ms)
Business Intelligence Platform	00:00.425(ms)



13. Once the operation is complete, click **OK**. The following window is displayed.

🙆 Repository Creation Utility -	Step 4 of 7 : Schema Passwords			
Schema Passwords				ACLE 118
 Welcome Create Repository Database Connection Details Select Components Schema Pass words Map Tablespaces Summary Completion Summary 	Please enter the passwords for the m alphabets, numbers and the followin or a special character. Use same passwords for all scher Use main schema passwords for a Specify different passwords for a Component Metadata Services Oracle Platform Security Services Business Intelligence Platform	nain and additional (auxi g special characters: \$, ; mas auxiliary schemas II schemas Schema Owner OLL_MDS OLL_OPSS OLL_BIPLATFORM	Schema Password	Confirm Password
Help	<u>M</u> essages:		< <u>B</u> ack <u>N</u> ext >	Einish Cancel

- 14. Select **Specify different passwords for all schemas** and provide Schema Passwords for each server as shown above.
- 15. Click Next., The following window is displayed.

🙆 Repository Creation Utility - S	Step 5 of 7 : Map Tables	paces		
Map Tablespaces		غبر		
Welcome	Choose tablespaces for th the table below. To create new tablespaces	e selected components or modify existing tab	:. The default and temporar lespaces click the 'Manage ⁻	y tablespaces are specified in Tablespaces' button.
Q Database Connection Details	Component	Schema Owner	Default Tablespace	Temp Tablespace
	Metadata Services	OLL_MDS	*OLL_MDS	*OLL_IAS_TEMP
 Select Components 	Oracle Platform Secu	OLL_OPSS	*OLL_IAS_OPSS	*OLL_IAS_TEMP
Schema Passwords	Business Intelligence	OLL_BIPLATFORM	*OLL_BIPLATFORM	*OLL_IAS_TEMP
Man Tablesnaces				
Completion Summary	* Default tablespaces (spe	cified in the configurat	on files) are to be created u	ipon confirmation.
				<u>Manage Tablespaces</u>
	<u>M</u> essages:			
Help	L		< <u>B</u> ack <u>N</u> ex	t > Einish Cancel



16. Click Next. The following window is displayed.



17. Click OK. The following window is displayed.

🔬 Repository Creation Utility - Creating Tablespaces								
Validating and Creating Tablespaces	~~~							
Check tablespace requirements for selected components	00:00.103(ms)	1						
Create tablespaces in the repository database	00:06.012(sec)							
Operation completed Click OK to continue to part and								
Operation completed. Click OK to continue to next page.								
	<u>0</u> K							

18. Click **OK** to continue to the next page. The following window is displayed.

🙆 Repository Creation Utility -	Step 6 of 7 : Summary			
Summary				MIDDLEWARE 118
Welcome Greate Repository Database Connection Details Select Components Schema Passwords Map Tablespaces	Database details: Host Name: blabldm03 Port: 1521 Service Name: OFSLLDB Connected As: sys Operation: Create Prefix for (prefixable) Schema Owne	rs:OLL		
Summary	Component	Schema Owner	Tablespace Type	Tablespace Name
Completion Summary	Metadata Services Oracle Platform Security Services Business Intelligence Platform	OLL_MDS OLL_OPSS OLL_BIPLATFORM	Default Temp Additional Default Temp Additional Default Temp Additional	OLL_IAS_TEMP None OLL_IAS_OPSS OLL_IAS_TEMP None OLL_BIPLATFORM OLL_BIPLATFORM OLL_IAS_TEMP None
Help			< <u>B</u> ack Next >	<u>C</u> reate Cancel



19. Click **Create.** The following windows are displayed.

4	Repository Creation Utility - Create	\mathbf{X}
	Repository Create in progress.	
	🕒 Metadata Services	00:09.935(sec)
	Oracle Platform Security Services	0
	Business Intelligence Platform	0
	Execute post create operations	0
]	
	·	Stop

🕌 Repository Creation Utility -	Step 7 of 7 : Completion S	ummary			
Completion Summary		4		F	
Welcome Create Repository Database Connection Details Select Components Schema Passwords Map Tablespaces Summary	Database details: Host Name: Port: Service Name: Connected As: Operation: RCU Logfile: Component Log Directory: Execution Time: Prefix for (prefixable) Scher	blabldm03 1521 OFSLLDB sys Create /tmp/logdir 27 minutes na Owners:OL	:2013-03-08_1 .2013-03-08_1 19 seconds L	0-43/rcu.log 0-43	
Compresion Summary	Component Metadata Services Oracle Platform Security Se Business Intelligence Platfo	rvices rm	Status Success Success Success	Logfile mds.log opss.log biplatform.log	Time 01:46.781(min) 13:08.670(min) 10:51.086(min)
Help	J L			< <u>B</u> ack Next	t > <u>C</u> reate <u>C</u> lose

20. Click Close to close the window.

3.4 Creating Metadata Repository

Assuming that **DEV_MDS** schema is created using Oracle Repository Creation Utility (RCU) as mentioned in <u>Creating Schemas using Repository Creation Utility</u> section, follow the below steps to create the repository.



1. Login to Oracle Enterprise Manager 11g console (http://hostname:port/em).

		Summary of JUBC Data So 🗴 🔪 🔲 Ora	cie Financia	II Services	X			223	• •		~
← → C 🗋										\$	Ξ
	anag	er 11g Fusion Middleware Control								Setup 🗸 Help 🖌 Lo	g Out
Farm 🗸 🔒 Topology											
 ∃ -	of	sll domain 🗓								Logged in as web	logic
Barm_ofsll_domain		WebLogic Domain 🛩							Page Refreshed 3	an 31, 2013 3:32:47 PM I	ST 🗘
Application Deployments WebLogic Domain		Home					۰.	Clusters		(2) @) -
🖃 🔂 ofsll_domain		Control	>					Search			
AdminServer		Logs	>	Web	o configure .ogic Domai .ogic Server	and manage t n, use the <u>Ora</u> Administratio	his i <u>de</u> n	Name Servers Add	iter Cluster I ress Mode	Default Session Load Replication	n
		Port Usage	com	Cons	ole.			No Clusters found	- House	agonomi rype	
		Application Deployment	,				۵	Deployments		0 0)-
		Web Services AP Domain Configuration Security Webdata Repositories Up (2)		14%	Down	(1)					
		JDBC Data Sources System MBean Browser						86% Search			
		WebLogic Server Administration Console	ter	Listen Port	Active Sessions	Request Processing Time (ms)	Bean Accesses (per	Name Application Deployments Thermal Applications	Status	Target	
		General Information		7001	2	60	minute) 0.00	OFSLL_126(V12.6.0.0.0-b171)	4	Ofsl_ManagedSe.	
	6	Utsi Manageo 1 MBOM		/003	0	0	0.00				

- 2. Click on domain name ofsll_domain on the left side panel.
- 3. Expand Weblogic domain ofsll_domain and click Metadata Repositories on right side panel, as shown above screen.
- 4. The following window is displayed.

Metadata Repositories - 0 × 1	Summary of JDBC Data So ×	Oracle Financial	Services L ×	the stand line of	833			
← → C								2
	anager 11g Fusion Middleware Cor	trol					Setup 😽 Help	🗸 🗸 Log Oi
📲 Farm 👻 💑 Topology								
∃ -	ofsll_domain ()						Logged in	as weblog
Farm_ofsll_domain Application Deployments	WebLogic Domain 🗸					Page Refreshed J	an 31, 2013 3:33	:01 PM IST (
WebLogic Domain Infall_domain Infall_domain AdminServer Infall_ManagedServer	Metadata Repositories () You create most Fusion Middleware of Utility or created on disk as file-base Database-Based Repositories Register Deregister	component schema repos d repositories. You must s	itories in a database using the Repr register an MDS repository before y	ository Creation Utility. Metadata Ser ou can deploy application metadata	vices (MDS) repositories can be c to the repository.	reated in a database wi	th the Reposito	ry Creation
	Repository Name No Repository	Database Type	Database Name	Schema Name	JNDI Location			

5. Click Register button. The following window is displayed.

🗋 Metadata Repositories - 0 🗙 🗎	Settings for OFSLL12.6 DS ×		hilds: Comp	ana, 16.45 - 16	and lines		333					
← → C 🗋									☆ =			
	nager 11g Fusion Middleware Con	trol							Setup 🗸 Help 🖌 Log Out			
Farm - A Topology												
I •	ofsll_domain 🕡		Logged in as weblogic									
Farm_ofsl_domain	Page Refreshed Jan 31, 2013 3:33%											
Application Depoyments Application Depoyments Application Depoyments Admiserver Admiserver Ofsil_ManagedServer	Metadata Repositories > Register Metadata Repository Register Database-Based Metadata Repository () A repository stores information used by Application Server components and other applications. A metadata repository must be registered to be operational. A database-based repository is created using the Repository and dick OK button. Creation Utility. To register, input database connection information and dick Query, then select one of the Metadata Repository and dick OK button. OK Com											
	Database Connection Informatio	n										
	Database Type	Oracle O SQL:	Server 🔘 IBM DB2 🔇	MySQL		* User Name	DEV_MDS					
	* Host Name	ofss220059.in.orac	cle.com			* Password						
	* Port	1521				Role	Role NORMAL -					
	* Service Name	OFSLLD										
		Query										
	Metadata Repository	Is Registered?	Schema Name	Version	Status	Modified Time						
	MDS	false	DEV1_MDS	11.1.1.6.0	VALID	Nov 8, 2012 1	:59:10 PM IST					
	MDS	false	ECM_MDS	11.1.1.6.0	VALID	Dec 5, 2012 3	:48:20 PM IST					
	MDS	false	OFSS_MDS	11.1.1.6.0	VALID	Jan 3, 2013 2	23:52 PM IST					
	MDS	false	DEV_MDS	11.1.1.6.0	VALID	Nov 2, 2012 3	:28:12 PM IST					
	MDS	false	D_MDS	11.1.1.6.0	VALID	Nov 7, 2012 1	:41:26 PM IST					
	MDS	false	OFS_MDS	11.1.1.5.0	VALID	Jan 3, 2013 1	:03:27 PM IST					
	Selected Repository - Schema: I The selected schema can be registerd * Repository Name											

- 6. Enter database instance details under Database Connection Information section and click **Query**.
- 7. All available schemas in the given database instance are listed.
- 8. Select the schema you require and enter **Repository Name (adf)** and the password under Selected Repository Schema **DEV_MDS** section.



9. Click OK. The following window is displayed.



10. Click Repository name **mds-adf** on left panel. You can even select it from right panel.

rann • an ropology										
*	mds-adf () Logged in as weblogic Host MBOMMAVA-IN.in.orade.co									
Farm_ofsll_domain	Metadata Repository 🗸						Pa	ge Refreshed Ja	n 31, 2013 3:44:13 PM	IST
WebLogic Domain	Repository Partitions									2
E i ofsi_domain	To select a partition click on a row in the Repository Partitions table.									
AdminServer Ofsll_ManagedServer	Delete Manage Labels									
🛅 Metadata Repositories							Read		Write	
💽 mds-adf	Repository Partition				Applications	Response (seconds)	Load (reads/second)	Response (seconds)	Load (reads/second	
	FLLDemo				60	0	0	0	0	1
	ess_xmlpserver				60	0	0	0	0	
	obpm				60	0	0	0	0	1
	ofsil 126				60	0	0	0	0	
	owsm				60	0	0	0	0	
						0	0			
	Targeted Servers	⑧ ⊕ -	🗄 Re	sponse	and Load					0
	The repository is accessible from the servers listed below:									
	👍 Add 💥 Remove									
	AdminServer									
			-							
			1	5:30	15:32	15:34 1	5:36 15:38	15:40	15:42 15:44	
			0	Januar	y 31 2013					
			P 4						,	

11. And target to AdminSever and Ofsll_ManagedServer as on right panel.

3.5 Creating Data Source

1. Login to WebLogic Server 11g console (<u>http://hostname:port/console</u>).

ORACLE WebLogic Server® 11g Administration Console		
		Welcome
	Log in to work with the	WebLogic Server domain
	Username:	weblogic
	Password:	
		Login
WebLogi Server Version: 103.5.0 Copyright © 1956:2010 Aracke and/or its affiliates. All rights reserved. Oracke is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.		



2. The following window is displayed.

	Administration Console		Q
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: ofsll_domain
View changes and restarts	Home		
Click the Lock & Edit button to modify, add or delete items in this domain. Lock & Edit	Home Page - Information and Resources Helpful Tools	General Information	
Release Comiguration	Configure applications	 Common Administration Task Descriptions 	
Domain Structure	 Configure GridLink for RAC Data Source 	 Read the documentation 	
ofsl_domain	Recent Task Status Set your console preferences Oracle Enterprise Manager	Ask a question on My Oracle Support Oracle Guardian Overview	
Hervices Hervices Hervices Hervices Hervices Hervices Hervices Hervices Hervices	- Domain Configurations	Services	Interoperability
Work Contexts XML Registries XML Registries XML Registries 	Environment Servers Clusters Struct Match	JMS Servers Store-and-Forward Agents JMS Modules Path Services Biddees	Joit Connection Pools Diagnostics Log Files Connection Modules
How do I	Migratable Targets	Data Sources	Diagnostic Inages
Search the configuration Use the Change Center Record WLST Scripts Change Console preferences Monitor servers	Coherence Servers Coherence Clusters Machines Work Managers Startup And Shutdown Classes	Persistent Stores NUL Registres NUL Inity Carbos Foreign NICI Providers Work Contexts JCOM	Request Performance Archives Context SNMP Charts and Graphs
System Status	Your Deployed Resources	Mail Sessions	 Monitoring Dashboard Ø
Health of Running Servers	Deployments	• FileT3 • JTA	
Failed (0) Critical (0) Overloaded (0) Warning (0) OK (1)	Your Application's Security Settings Security Realms 		

3. Click Domain Name \rightarrow Services \rightarrow Data Sources.

4. The following window is displayed.

	Administration Co	nsole			Q
Change Center	🔒 Home Log Out Preferences 🖾 Record Help				
View changes and restarts Home > Summary of JDBC Data Sources					
No pending changes exist. Click the Release	Summary of JDB	C Data Sources			
Configuration button to allow others to edit the domain.	Configuration	Monitoring			
Lock & Edit					
Release Configuration	Release Configuration A JDBC data source is an object bound to the JHDI tree that provides database connectivity through a pool of JDBC connections. Applications can look up a data source on the JHDI tree and then borrow a database connection from a data source.				ctions. Applications can look up a data source on the JNDI tree and then
Domain Structure	This page summ	arizes the JDBC data source objects	that have been created in this doma	in.	
ofsl_domain					
Environment	Customize th				
E-Servicer					
Messaging	Data Sources	(Filtered - More Columns Exist)			
Data Sources	New v Dek	te			Showing 0 to 0 of 0 Previous Next
Persistent Stores					
Foreign JNDI Providers	📃 🔲 Name 🗠		Туре	JNDI Name	Targets
Work Contexts				ere are na itema ta disalari	
TXML Registries	inere are no items to display				
COM Caches	New V Delete Showing 0 to 0 of 0 Previous Next				
-Mail Sessions					
File T3					
	1				

5. Click Lock & Edit button on the left panel. Click New on right panel and select Generic Data Source.

	Administration Console				
Change Center	Home Log Out Preferences	Home Log Out Preferences 🖉 Record Help			
View changes and restarts	Home >Summary of JDBC Data S	Home >Summary of JDBC Data Sources			
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration	Create a New JDBC Data Source Back Next Finish Canc JDBC Data Source Propertie The following properties will be u	se set to identify your new JDBC data source.			
Domain Structure	Thucates required helds				
ofsll_domain	What would you like to name your	r new JDBC data source?			
Services Bessaging	ੴ * Name:	OFSLLNEW			
	What JNDI name would you like to	assign to your new JDBC Data Source?			
	jdbc/ofsllDBConnDS				
How do I		//			
Create JDBC generic data sources	What database type would you like	ke to select?			
Create LLR-enabled JDBC data sources	Database Type:	Oracle			
System Status	Back Next Finish Cano	cel			
Health of Running Servers					



- 6. Enter Data source Name
- 7. Enter JNDI Name as jdbc/ofsIIDBConnDS.
- 8. Select Oracle as Database Type and click Next. The following window is displayed.

	Administration Console	
Change Center	🛍 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected
View changes and restarts	Home >Summary of JDBC Data Sources	
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New JDBC Data Source Back Next Finish Cancel	
Lock & Edit Release Configuration	JDBC Data Source Properties The following properties will be used to identify your new JDBC data source.	
Domain Structure		
ofall_domain	Database Type: Oracle What database driver would you like to use to create database connections? Note: * indicates that the driver is explicitly supported by Database Driver: *Oracle's Driver (Thin) for Instance connections; Versions:9.0.1 and later Back itext	r Orade WebLogic Server.

9. Select the Database Driver "Oracle's Driver(Thin) for Instance connections; Versions:9.0.1 and later" as shown above.

10. Click Next. The following window is displayed.

WebLogic Server*	
Change Center	🏠 Home Log Out Preferences 🖾 Record Help
View changes and restarts	Home >Summary of JDBC Data Sources
No pending changes exist. Click the Release Configuration button to allow others to edit the domarn. Lock & Edit Release Configuration	Create a New JDBC Data Source Back Itex: Finish Cancel Transaction Options You have selected non-XA JDBC driver to create database connection in your new data source.
Domain Structure	Does this data source support global transactions? If yes, please choose the transaction protocol for this data source.
ofell_domain	Supports Global Transactions Select this option if you want to enable non-XA XDBC connections from the data source to participate in global transactions using the Logging Last Resource (LLR) transaction optimization. Recommended in global end transactions using the Logging Last Resource (LLR) transaction optimization. Recommended O Logging Last Resource
	Select this option if you want to enable non-XA JDBC connections from the data source to emulate participation in global transactions using JTA. Select this option only if your application can tolerate heuristic conditions.
How do I	One-Phase Commit
Create JDBC generic data sources Create LLR-enabled JDBC data sources	Back hex Finan Cancel
System Status	

11. Click **Next**. The following window is displayed.

	Administration Console		
Change Center	🕜 Home Log Out Preferences 🔤 Record Help		
View changes and restarts	Home >Summary of JDBC Data Sources		
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration	Create a New JDBC Data Source Back Next Finish Cancel Connection Properties Define Connection Properties.		
Domain Structure	What is the name of the database you would like	e to connect to?	
ofsll_domain Environment Deployments	Database Name:	OFSLLD	
Bervices What is the name or IP address of the database server?			
Data Sources	Host Name:	ofss220059.in.oracle.com	
Foreign JNDI Providers Work Contexts	What is the port on the database server used to	o connect to the database?	
XML Registries XML Entity Caches jCOM	Port:	1521	
Mail Sessions	What database account user name do you want	t to use to create database connections?	
How do I E	Database User Name:	OFSLLNEW	
Create JDBC generic data sources Create U.B. eachlad JDBC data sources	What is the database account password to use	to create database connections?	
Create LLK-enabled JDBC data sources	Password:		
System Status	3		
Health of Running Servers	Confirm Password:	••••••	
Failed (0) Critical (0) Overloaded (0) Warning (0)	Back Next Finish Cancel		



12. Enter Database details click Next. The following window is displayed.

Create a New JDBC Data Source - ofs	*		
	Administration Console		
Change Center	🙆 Home Log Out Preferences 🔤 Record Help		
View changes and restarts	Welcome, weblogic Connected to: ofsll126_domain		
Configuration editing is enabled. Future changes will automatically be activated as you	Home >Summary of Servers >Summary of JDBC Data Sources >Summary of Environment >Summary of JDBC Data Sources		
modify, add or delete items in this domain.	Create a New JDBC Data Source		
Domain Structure	Test Configuration Back Next Finish Cancel		
ofsll126_domain	Test Database Connection		
Servers	Test the database availability and the connection properties you provided.		
Clusters Virtual Hosts	What is the full package name of JDBC driver class used to create database connections in the connection pool?		
Migratable Targets	(Note that this driver class must be in the classpath of any server to which it is deployed.)		
Coherence Clusters			
Work Managers	Driver Class Name: oracle.jdbc.OracleDrive		
LStartup and Shutdown Classes	What is the URL of the database to connect to? The format of the URL varies by JDBC driver.		
-Services			
	jdbc.oracle.thin:@blabic		
	What database account user name do you want to use to create database connections?		
Create JDBC generic data sources Create U.Penabled JDBC data sources	Database User Name: ofsil126		
- crocke tax enables sobe data sources			
System Status	What is the database account password to use to create database connections?		
Health of Running Servers	Health of Running Servers (Note: for secure password management, enter the password in the Password field instead of the Properties field below)		
Done			

13. Click **Test Configuration.** The following window is displayed.

	dministration Console	
Change Center	🏦 Home Log Out Preferences 🖾 Record Help	Welcome, weblogic Connected to: ofsll_dor
View changes and restarts	Home >Summary of JDBC Data Sources	
No pending changes exist. Click the Release	Messages	
Configuration button to allow others to edit the domain.	Connection test succeeded.	
Lock & Edit	Create a New JDBC Data Source	
Release Configuration	Test Configuration Back Next Finish Cancel	
Domain Structure	Test Database Connection	
ofsl_domain	Test the database availability and the connection properties you provided.	
Deployments	What is the full package name of JDBC driver class used to create database connections in the connection pool?	
무-Services	(Note that this driver class must be in the classpath of any server to which it is deployed.)	

14. Displays confirmation message as "Connection test succeeded". Click **Next**. The following window is displayed.

	Administration Console
Change Center	🕜 Home Log Out Preferences 🔤 Record Help
View changes and restarts	Home >Summary of JDBC Data Sources
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New JDBC Data Source Back Next Finish Cancel
Release Configuration	Select Targets You can select one or more targets to deploy your new JDBC data source. If you don't select a target, the data source will be created but not deployed later time.
ofsl_domain	Servers
-Environment Deployments Services	AdminServer
MessagingData Sources EPersistent Stores	✓ Ofsll_ManagedServer
	Back Next Cancel


15. Select target Servers **AdminServer** and **Ofsll_ManagedServer** and click **Finish.** The following window is displayed.

ORACLE WebLogic Server® Administration Console								
Change Center	🔒 Home Log Out Preferences 🔤 Re	🕯 Home Log Out Preferences 🔤 Record Help 🛛 🔍 🔍 Welcome, weblogic Connected to: ofsil_don						
View changes and restarts	Home >Summary of JDBC Data Source	IS						
Pending changes exist. They must be activated	Summary of JDBC Data Sources							
to take effect.	Configuration Monitoring							
 Activate changes 								
Undo All Changes	A JDBC data source is an object bound	to the JNDI tree that provides data	base connectivity through a pool of JDBC connections. Appl	ications can look up a data source on the JNDI tree and then				
Domain Structure	borrow a database connection from a	uata source.						
ofsll_domain	This page summarizes the JDBC data s	ource objects that have been create	d in this domain.					
Environment Deployments								
- Services	P Customize this table							
Messaging Data Sourced	Data Sources (Filtered - More Col	umns Exist)						
Persistent Stores	New v Delete			Showing 1 to 1 of 1 Previous Next				
Foreign JNDI Providers	Name 🔿	Type	INDI Name	Targets				
XML Registries		1790		Torgeo				
XML Entity Caches	OFSLL 12.6 DS	OFSLL12.6 DS Generic jdbc/ofsIDBConnDS Ofsil_ManagedServer						
Mail Sessions	New V Delete	New Delete Showing I to 1 of 1 Previous Next						
T Cile T2								

16. Click Activate Changes.

Update the following parameters in JDBC data source connection pool:

- 1. Select Services→Data Sources→select the OFSLL data source→Connection Pool.
- 2. Initial capacity and Maximum capacity is defaulted to 15, if the number of concurrent users are more this needs to be increased.
- 3. Click Advanced button and update the following:
 - Inactive Connection Timeout=900
 - Uncheck the "Wrap Data Types" parameter for better performance.
- 4. Click Save.

3.6 Creating SQL Authentication Provider

1. Login to WebLogic server administration console and click Security Realms in left panel. The following window is displayed.

	Administration Console				Ģ
Change Center	🚹 Home Log Out Preferences 🔤 Record Help	٩		Welcome, weblogic	Connected to: ofsll126_doma
View changes and restarts	Home >Summary of Deployments >Summary of Security	Realms >myrealm >Provider	>Summary of Security Realms		
Click the Lock & Edit button to modify, add or delete items in this domain.	Summary of Security Realms				
Lock & Edit Release Configuration	A security realm is a container for the mechanisms-in security realms in a WebLogic Server domain, but onl This Security Realms page lists each security realm th	nduding users, groups, sec ly one can be set as the de nat has been configured in f	rity roles, security policies, and security provid ault (active) realm. his WebLogic Server domain. Click the name of	ersthat are used to protect WebLogic res the realm to explore and configure that rea	ources. You can have multiple alm.
Domain Structure ofdi126_domain	© Customize this table Realms (Filtered - More Columns Exist) Click the <i>Lock & Edit</i> button in the Change Center to	o activate all the buttons or	this page.		
ter-Interoperability ⊡-Diagnostics	New Delete			Showi	ng 1 to 1 of 1 Previous Next
	Name & myrealm New Delete		Default Realm true	Showi	ng 1 to 1 of 1 Previous Next
How do I					
Configure new security realms Delete security realms Change the default security realm					
System Status Health of Running Servers					
Failed (0) Critical (0)					



2.	Click myrealm	in the	right panel.	The following	window is	displayed.
<u> </u>	Choix myroam		ingin panoi.	The fellowing		alopiayoa.

View changes and restarts	Home >Summary of Deployments >Summary of Security Realms >myrealm >Providers >Summary of Security Realms >myrealm						
Click the Lock & Edit button to modify, add or	Settings for myre	Settings for myrealm					
delete items in this domain.	Configuration	Users and Groups	Roles and Policies	Credential Mappings	Providers	Migration	
Release Configuration	General RDBM	IS Security Store	User Lockout Per	formance			
Domain Structure	Click the Lock &	Edit button in the C	hange Center to more	dify the settings on this p	bage.		
ofsll126_domain	Save						
H-Environment Deployments H-Services H-Services H-Interoperability H-Diagnostics	Use this page to configure the general behavior of this security realm. Note: If you are implementing security using JACC (Java Authorization Contract for Containers as defined in JSR 115), you must use the DD Only security model. Other WebLogic Server models are not available and the security functions for Web applications and EJBs in the Administration Console are disabled.						115), you must use the DD Only security model. Other WebLogic Server models are abled.
	Name:		myr	ealm			The name of this security realm. More Info
	👸 Security Mo	del Default:	DI	O Only	Y		Specifies the default security model for Web applications or EJBs that are secured by this security realm. You can override this default during deployment. More Info
How do I Manage security for Web applications and EJBs	🗹 街 Combine	d Role Mapping E	nabled				Determines how the role mappings in the Enterprise Application, Web application, and EJB containers interact. This setting is valid only for Web applications and EJBs that use the Advanced security model and that initialize roles from denovement decriments. Note Triffs.
 Set the default security model 							Tota non depoyment descriptors. Proceedings.
Delegate MBean authorization to the realm	🗌 街 Use Auth	orization Provide	ers to Protect JMX	Access			Configures the WebLogic Server MBean servers to use the security realm's Authorization providers to determine whether a JMX client has permission to construct the security of the security
System Status							access an indean attribute or invoke an indean operation. More thro
Health of Running Servers	- Advanced -						
Failed (0)	Save						
Critical (0)	Click the Lock &	Edit button in the C	hange Center to mor	lify the settings on this p	bage.		
Uverloaded (0) Warning (0)							
OK (1)							

3. Click on Providers tab. The following window is displayed.

ORACLE WebLogic Servet® Administration Console						Ģ				
Change Center	Home Log C	Dut Preferences 📐	Record Help		2				Welcome, w	eblogic Connected to: ofsll126_doma
View changes and restarts	Home >Summar	ry of Deployments >Sur	imary of Security Real	ms >myrealm >Pro	viders >Summary	of Security Re	alms >myrealm >Prov	riders		
Click the Lock & Edit button to modify, add or delete items in this domain.	Settings for m	yrealm								
Lock & Edit	Configuration	Users and Groups	Roles and Policies	Credential Mapp	ngs Provider	s Migration	n			
Release Configuration	Authenticati	on Password Valida	tion Authorization	Adjudication	Role Mapping	Auditing	Credential Mapping	Certification Path	Keystores	
0000000000000000000000000000000000000	A Authentication provider allows Weld.org Server to establish thust by valdating a user. You must have one Authentication provider in a security realm, and you can configure an Authentication provider in a security realm. Therefore, types of Authentication provider in a security realm. Therefore, types of Authentication provider in a security realm. Therefore, types of Authentication provider that allows you to work with users and groups from previous releases of WebLogic Server. Customize this table Authentication Providers Cick the Lack & Ediffution in the Change Center to activate all the buttons on this page. New Date: Particular School in 16 26 2 Previous School 16 26 27 Previous						so configure a Realm Adapter			
	Name			De	scription					Version
	DefaultA	luthenticator		We	bLogic Authentic	tion Provider				1.0
How do I	Defaulti	dentityAsserter		We	bLogic Identity A	sertion provi	ider			1.0
Configure Authentication and Identity Assertion providers Configure the Password Validation provider Manage security providers	New De	Reorder								Showing 1 to 2 of 2 Previous Next
Set the JAAS control flag Re-order Authentication providers										

4. Click **Lock & Edit** to unlock the screen and click **New** button in Authentication Providers sub tab. The following window is displayed.

ORACLE WebLogic Server®	Administration Consol	D	Ľ				
Change Center	Home Log Out Pre	ferences 🔤 Record Help	Welcome, weblogic Connected to: ofsll126_doma				
View changes and restarts	Home >Summary of De	oloyments >Summary of Security Realms >myrealm >Providers >Summary of Security Realms >myrealm > Provi	iders				
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration Domain Structure of612:6_doani B_E-furiorments	Create a New Authen OK Create a new Auth The following propert * Indicates required fie The name of the authen	tication Provider entication Provider es will be used to identify your new Authentication Provider. ds bication provider.					
Services Security Realms	* Name: OfsIIDBAuthenticator						
E -Interoperability	This is the type of authentication provider you wish to create.						
	Туре:	SQLAuthenticator					
	OK Cancel						
How do I 😑							
 Manage security providers 							
 Configure Authentication and Identity Assertion providers 							

5. Create Authentication provider with following values.



Name: OfsIIDBAuthenticator

Type: SQLAuthenticator

6. Click OK button. The following window is displayed.

	Administration (onsole								Ļ
Change Center	Home Log	Out Preferences 🔤 R	ecord Help		٩				Welcome, web	logic Connected to: ofsll126_dom
View changes and restarts	Home >Summa	ry of Deployments >Sumr	nary of Security Real	ms >myrealm >Pro	viders >Summary	of Security P	Realms >myrealm >Prov	viders		
Click the Lock & Edit button to modify, add or delete items in this domain.	Messages	have been activated. H	lowever 1 items mu:	st be restarted fo	r the changes to t	ake effect.				
Lock & Edit	Settings for m	yrealm								
Release Configuration	Configuration	Users and Groups	Roles and Policies	Credential Mapp	ings Provider	s Migrati	ion			
Domain Structure	Authenticati	on Password Validation	on Authorization	Adjudication	Role Mapping	Auditing	Credential Mapping	Certification Path	Keystores	
∰-Services →Servicty Realms ⊕-Interoperability ⊕-Diagnostics	Authenticatio	n provider that allows ye his table on Providers <i>& Edit</i> button in the Ch te Reorder	u to work with user	s and groups from	n previous release	s of WebLo	gic Server.		Show	wing 1 to 3 of 3 Previous Next
How do I	🔲 Name			Descrip	tion					Version
Configure Authentication and Identity Assertion providers	OfsiDe	Authenticator		Provider	that performs DBI	1S authent	cation			1.0
Configure the Password Validation provider	🔲 Defaul	tAuthenticator		WebLogi	Authentication P	rovider				1.0
Manage security providers Set the JAAS control flag	🔲 Defaul	tIdentityAsserter		WebLogi	c Identity Assertio	n provider				1.0
	New Dele	te Reorder							Shov	wing 1 to 3 of 3 Previous Next

Authentication order should be maintained as mentioned in the above screen.

- 7. **OfsIIDBAuthenticator** will be displayed as above.
- 8. Click on OfsIIDBAuthenticator.
- 9. The following window is displayed.

	dministratior	Console				
Change Center	🔒 Home Lo	g Out Preferences	Record Help		Welcome, weblogic Connected to: ofsll126_dom	
View changes and restarts	Home >Sum	mary of Deployments	>Summary of Security Realms >myrealm >Providers >OfslIDBAut	thenticator		
Configuration editing is enabled. Future	Settings for	OfsllDBAuthentica	itor			
modify, add or delete items in this domain.	Configurati	on Performance				
Domain Structure	Common	Provider Specific				
ofsil 126_domain	Save					
Servers Clusters Wrtual Hosts	This page d	lisplays basic informa	tion about this SQL Authentication provider. You can also use t	this page to set the JAAS	Control Flag to control how this provider is used in the login sequence.	
Coherence Servers	🏀 Name:		OfsIIDBAuthenticator		The name of this SQL Authentication provider. More Info	
Machines Work Managers	街 Descrip	tion:	Provider that performs DBMS authentication		A short description of this SQL Authentication provider. More Info	
	街 Version		1.0		The version number of this SQL Authentication provider. More Info	
Security Realms	街 Control	Flag:	SUFFICIENT		Specifies how this SQL Authentication provider fits into the login sequence. More Info	
How do L Configure Authentication and Identity Assertion providers	Save					
Set the JAAS control flag						
Configure the Password Validation provider						
Manage security providers						

10. Select SUFFICIENT as the **Control Flag** and click Save.



11. Click Provider Specific sub tab under Configuration tab. The following window is displayed.

	Administration Console		
ge Center	🏠 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: OFSLL126_D
changes and restarts	Home >Summary of Deployments >Summary of Security Re	alms >myrealm >Providers >OfsllDBAuthenticator	
uration editing is enabled. Future	Settings for OfsllDBAuthenticator		
y, add or delete items in this domain.	Configuration Performance		
ain Structure	Common Provider Specific		
126_Domain	Save		
ployments rvices curity Realms	Use this page to define the provider specific configurat	ion of this SQL Authentication provider.	
teroperability agnostics	Plaintext Passwords Enabled		Specifies whether plaintext passwords are allowed to be used. More Info.
	Data Source Name:	OFSLLNEW	The name of the JDBC data source used for database access. More Info
	Group Membership Searching:	unlimited 💌	Specifies whether recursive group membership searching is unlimited or limited. Valid values are unlimited and limited. More Info
fo I E	Max Group Membership Search Level:	0	This specifies how many levels of group membership can be searched. This setting is vaild only if Group Membership Searching is set to Imited. Vaild values are 0 and positive integers. For example, 0 indicates only direct group memberships will be found, a positive number indicates the number of levels to no drawn. Merc Info .
nage security providers	Password Style Retained		Controls how a password is stored in the database when updating an
em Status 🗠			existing user's password. More into
Failed (0) Critical (0)	Password Algorithm:	SHA-512	The message digest algorithm used to hash passwords for storage. The name is a standard algorithm name and must be recognized by a Java Cryptography Extension (JCE) provider that is available at runtime. More Info
Warning (0) OK (2)	Password Style:	SALTEDHASHED -	Indicates the password style that is used when storing passwords for user that are created and for changing the user's password if Password Style Retained is disabled. More Info
	SQL Get Users Password:	SELECT UAU_USR_P	The SQL statement used to look up a user's password. The SQL statement requires a single parameter for the username and must return a resultSet containing at most a single record containing the password. More Info
	SQL Set User Password:	UPDATE USER_AUTI	The SQL statement used to set the password for a user. The SQL statemen requires two parameters: the password for the user and the username. More Infn

12. Provide the following values in corresponding fields.

Data Source Name: OFSLLNEW

Password Style Retained: Uncheck

Password Algorithm: SHA-512

Password Style: SALTEDHASHED

Provide the SQL Queries from the column **Corresponding SQL Queries as per OFSLL Tables** as given below.

Operation	Default SQL Query from Weblogic	Corresponding SQL Queries as per our Tables
SQL Get Users Password:	SELECT U_PASS- WORD FROM USERS WHERE U_NAME = ?	SELECT UAU_USR_PASSWORD FROM USER_AUTHORISATIONS WHERE UAU_USR_CODE = ?
SQL Set User Password:	UPDATE USERS SET U_PASSWORD = ? WHERE U_NAME = ?	UPDATE USER_AUTHORISATIONS SET UAU_USR_PASSWORD = ? WHERE UAU_USR_CODE = ?
SQL User Exists:	SELECT U_NAME FROM USERS WHERE U_NAME = ?	SELECT UAU_USR_CODE FROM USER_AUTHORISATIONS WHERE UAU_USR_CODE = ?
SQL List Users:	SELECT U_NAME FROM USERS WHERE U_NAME LIKE ?	SELECT UAU_USR_CODE FROM USER_AUTHORISATIONS WHERE UAU_USR_CODE LIKE ?



Operation	Default SQL Query from Weblogic	Corresponding SQL Queries as per our Tables
SQL Create User:	INSERT INTO USERS VALUES (? , ? , ?)	INSERT INTO USER_AUTHORISA- TIONS(UAU_USR_CODE, UAU_USR PASSWORD,UAU_DESC) VALUES(?,?,?)
SQL Remove User:	DELETE FROM USERS WHERE U_NAME = ?	DELETE FROM USER_AUTHORISA- TIONS WHERE UAU_USR_CODE= ?
SQL List Groups:	SELECT G_NAME FROM GROUPS WHERE G_NAME LIKE ?	SELECT UGR_GROUP_CODE FROM USER_GROUPS WHERE UGR_GROUP_CODE LIKE ?
SQL Group Exists:	SELECT G_NAME FROM GROUPS WHERE G_NAME = ?	SELECT UGR_GROUP_CODE FROM USER_GROUPS WHERE UGR_GROUP_CODE = ?
SQL Create Group:	INSERT INTO GROUPS VALUES (? , ?)	INSERT INTO USER_GROUPS(UGR_GROUP_CODE,U GR_GROUP_DESC) VALUES(?,?)
SQL Remove Group:	DELETE FROM GROUPS WHERE G_NAME = ?	DELETE FROM USER_GROUPS WHERE UGR_GROUP_CODE = ?
SQL Is Mem- ber:	SELECT G_MEMBER FROM GROUPMEM- BERS WHERE G_NAME = ? AND G_MEMBER = ?	SELECT UGM_MEMBER_USR_CODE FROM USER_GROUP_MEMBERS WHERE UGM_MEM- BER_GROUP_CODE= ? AND UGM_MEMBER_USR_CODE = ?
SQL List Mem- ber Groups:	SELECT G_NAME FROM GROUPMEM- BERS WHERE G_MEMBER = ?	SELECT UGM_MEM- BER_GROUP_CODE FROM USER_GROUP_MEMBERS WHERE UGM_MEMBER_USR_CODE= ?
SQL List Group Mem- bers:	SELECT G_MEMBER FROM GROUPMEM- BERS WHERE G_NAME = ? AND G_MEMBER LIKE ?	SELECT UGM_MEMBER_USR_CODE FROM USER_GROUP_MEMBERS WHERE UGM_MEM- BER_GROUP_CODE= ? AND UGM_MEMBER_USR_CODE LIKE ?
SQL Remove Group Mem- berships:	DELETE FROM GROUPMEMBERS WHERE G_MEMBER = ? OR G_NAME = ?	DELETE FROM USER_GROUP_MEM- BERS WHERE UGM_MEMBER_US- R_CODE= ? OR UGM_MEMBER_GROUP_CODE= ?
SQL Add Member To Group:	INSERT INTO GROUPMEMBERS VALUES(?, ?)	INSERT INTO USER_GROUP_MEM- BERS (UGM_MEM- BER_GROUP_CODE,UGM_MEMBER_US R_CODE) VALUES(?,?)



Operation	Default SQL Query from Weblogic	Corresponding SQL Queries as per our Tables
SQL Remove Member From Group:	DELETE FROM GROUPMEMBERS WHERE G_NAME = ? AND G_MEMBER = ?	DELETE FROM USER_GROUP_MEM- BERS WHERE UGM_MEM- BER_GROUP_CODE= ? AND UGM_MEMBER_USR_CODE= ?
SQL Remove Group Mem- ber:	DELETE FROM GROUPMEMBERS WHERE G_NAME = ?	DELETE FROM USER_GROUP_MEM- BERS WHERE UGM_MEM- BER_GROUP_CODE= ?
SQL Get User Description:	SELECT U_DESCRIP- TION FROM USERS WHERE U_NAME = ?	SELECT UAU_DESC FROM USER_AU- THORISATIONS WHERE UAU_US- R_CODE = ?
SQLSet User Description:	UPDATE USERS SET U_DESCRIPTION = ? WHERE U_NAME = ?	UPDATE USER_AUTHORISATIONS SET UAU_DESC= ? WHERE UAU_US- R_CODE= ?
SQL Get Group Descrip- tion:	SELECT G_DE- SCRIPTION FROM GROUPS WHERE G_NAME = ?	SELECT UGR_GROUP_DESC FROM USER_GROUPS WHERE UGR_GROUP_CODE= ?
SQL Set Group Description:	UPDATE GROUPS SET G_DESCRIP- TION = ? WHERE G_NAME = ?	UPDATE USER_GROUPS SET UGR_GROUP_DESC= ? WHERE UGR_GROUP_CODE= ?
Provider Name	OfsIIDBAuthenticator	

13. Click Save.

Note

Application server needs to be restarted for these changes to take effect.

3.7 Creating User Groups and Users

3.7.1 Creating Users

Create an OFSLL application super user to login to the application.

A script is provided in the distribution media in the dba_utils folder to create an user.

Note

By default there are no users created to login to OFSLL application.



Run the script "crt_app_user.sql script" as a OFSLL application owner user.

\$ sqlplus
SQL*Plus: Release 12.2.0.3.0 Production on Wed Nov 27 15:06:06 2013
Copyright (c) 1982, 2011, Oracle. All rights reserved.
Enter user-name: OFSLL141 Enter password:
Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.3.0 - 64bit Production With the Partitioning, OLAP, Data Mining and Real Application Testing options
SQL> @/tmp/dba_utils/crt_app_user.sql Enter the name of the OFSLL App user Id you
Want to create user: OLLUSER
Enter the First Name for this user: OLL
Enter the Last Name for this user: USER
Enter the Phone Number for this user: 9090900990
Enter the Fax Number for this user: 8976986798
1 row created.
1 row created.
1 row created.
SQL>

- 1. Login into WebLogic server console.
- 2. Click Security Realms on the left panel.
- 3. Click myrealm on the right panel..

	Administration Console		9
Change Center	Home Log Out Preferences 🖾 Record Help	2	Welcome, weblogic Connected to: ofsll_domain
View changes and restarts	Home >Summary of JDBC Data Sources >Summary of Security Realms >myrealm >	Users and Groups >Summary of Securi	ty Realms
Click the Lock & Edit button to modify, add or delete items in this domain.	Summary of Security Realms		
Lock & Edit Release Configuration	A security realm is a container for the mechanisms-including users, groups, s security realms in a WebLogic Server domain, but only one can be set as the This Security Realms page lists each security realm that has been configured	ecurity roles, security policies, and sec default (active) realm. In this WebLogic Server domain. Click t	urity providersthat are used to protect WebLogic resources. You can have multiple he name of the realm to explore and configure that realm.
Domain Structure			
ofsil_domain D=Environment Deployments B-Services Services	Customize this table Realms (Filtered - More Columns Exist) Click the Lock & Editbutton in the Change Center to activate all the buttons	on this page.	
D-Interoperability	New Delete		Showing 1 to 1 of 1 Previous Next
	🔲 Name 🗞	Default Realm	
	myrealm	true	
	New Delete		Showing 1 to 1 of 1 Previous Next
]		

- 1. Select Users tab under Users and Groups.
- 2. If SQLAuthenticator is configured as a Security Provider for the OFSLL application, the Users are automatically created in weblogic when created through an application.

Change Center		🔞 Home Log Out Preferences 🔤	Record Help	Welcome, weblogic Connected to: OFSLL141_don
/iew changes and restarts		Home >Summary of Security Realms >r	nyrealm >Users and Groups	
Configuration editing is enabled. Future	VOU	Settings for myrealm		
modify, add or delete items in this domain.		Configuration Users and Groups	Roles and Policies Credential Mappings Providers Migratio	11
Domain Structure		Users Groups		
>FSL141_domain ■ Environment → Deployments ■ Services → Security Realms ■ Interoperability ■ Diagnostics		This page displays information about	each user that has been configured in this security realm.	Showing 1 to 10 of 20 Previous Hext
		□ Name ↔	Description	Provider
		BATCH	BATCH USER	OfsIDBAuthenticator
		DEMOCOLL	DEMO COLLECTOR	OfsIDBAuthenticator
How do I		DEMOSALES	DEMO SALES AGENT	OfsIIDBAuthenticator
 Manage users and groups 		DEMOSUPR	DEMO SUPERUSER	OfsIDBAuthenticator
Create users		DEMOSUPR 1	DEMO SUPERUSER 1	OfsIIDBAuthenticator
Modify users		DEMOSUPR2	DEMO SUPERUSER2	OfsIDBAuthenticator
Delete users		DEMOSUPR3	DEMO SUPERUSER3	OfsIDBAuthenticator
Eusteen Etabus		DEMOSUPR4	DEMO SUPERUSER4	OfsIDBAuthenticator
System Status		DEMOSUPRS	DEMO SUPERUSERS	OfsIDBAuthenticator
realth of Running Servers		DEMOSUPR6	DEMO SUPERUSER6	OfsIDBAuthenticator
Failed (0) Critical (0) Overloaded (0) Warning (0)		New Delote		Showing 1 to 10 of 20 Previous Nex

3.7.2 Creating User Groups

1. Select Groups tab under Users and Groups.



2. If SQLAuthenticator is configured as a Security Provider for the OFSLL application, the Groups are automatically created in weblogic when created through an application.

Administration Console		Q
Home Log Out Preferences	Record Help	Welcome, weblogic Connected to: OFSLL141_domain
Home >Summary of Security Realms	>myrealm >Users and Groups	
Settings for myrealm		
Configuration Users and Grou	ps Roles and Policies Credential Mappings Providers Migration	
Users Groups		
This page displays information abo	ut each group that has been configured in this security realm.	Showing 1 to 10 of 10 Previous Next
📃 Name 🏟	Description	Provider
AdminChannelUsers	AdminChannelUsers can access the admin channel.	DefaultAuthenticator
Administrators	Administrators can view and modify all resource attributes and start and stop servers.	DefaultAuthenticator
AppTesters	AppTesters group.	DefaultAuthenticator
CrossDomainConnectors	CrossDomainConnectors can make inter-domain calls from foreign domains.	DefaultAuthenticator
Deployers	Deployers can view all resource attributes and deploy applications.	DefaultAuthenticator
Monitors	Monitors can view and modify all resource attributes and perform operations not restricted by roles.	. DefaultAuthenticator
OFSLL USER	OFSLL_USER	OfsIIDBAuthenticator
OFSLL_USERS	OFSLL USER GROUP	OfsIDBAuthenticator
Operators	Operators can view and modify all resource attributes and perform server lifecycle operations.	DefaultAuthenticator
OradeSystemGroup	Oracle application software system group.	DefaultAuthenticator
New		Showing 1 to 10 of 10 Previous Next
	Administration Console Inter Log Out Preferences Inter Log Out Preferences Inter Settings for myrealm Configuration Users Settings for myrealm Configuration Users Groups This page displays information abord Customize this table Groups Inter Appresters Administrators ApoTesters CossoDomeConnectors Despices OrSEL_USERS Operators OradeSystemGroup New Deleter	Administration Console • Home Log Out Preferences Record Help • International Security Relates Impression • International Security Relates Impression Impressinted By Impress

3.7.3 Assigning Users to Groups

The USERS are automatically mapped to default application group - OFSLL_USER.

Change Center	1 Home Log Out Preferences 🚵 Record Help	Welcome, weblogic Connected to: OFSLL141_domain
View changes and restarts	Home >Summary of Security Realms >myrealm >Users and Groups >DEMOSUPR	
Configuration editing is enabled. Future	Settings for DEMOSUPR	
changes will automatically be activated as you modify, add or delete items in this domain.	General Passwords Groups	
Domain Structure	Save	
DFSLL141_domain B=Environment Deployments B=Services	Use this page to configure group membership for this user.	
I—Security Realms ∰-thereopenality ⊕-tolagnostics	Available: Chosen: Chosen:	This user can be a member of any of these parent groups. More info
How do L	(Read)	
Create users	Save	
System Status		
Health of Running Servers		
Failed (0) Critical (0) Overloaded (0) Warning (0) Ok (3)		

3.7.4 <u>Resetting password</u>

The password for the USER can be reset in weblogic using console or through a sample python script provided with the distribution Media. The script is available in the utils directory of the media with the instructions. The script resets the password of OFSLL users defined within Weblogic Application Server in bulk.



3.7.5 Resetting password via weblogic console

1. Click on User. Select Passwords tab. The following window is displayed.

ORACLE WebLogic Server®	Administration Console	Q
Change Center	🏦 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: OFSLL141_domain
View changes and restarts	Home >Summary of Security Realms >myrealm >Users and Groups >DEMOSUPR >Users and Groups >DEMOSUPR1	
Configuration editing is enabled. Future	Settings for DEMOSUPR1	
modify, add or delete items in this domain.	General Passwords Groups	
Domain Structure	Save	
OFSL14_doman Ø=Envronment — Deployments Ø=Services Ø=Services Ø=Services Ø=Intercostrub Realms Ø=Intercostrub Realms Ø=Dagnostics	Use this page to change the password for the selected user.	The new password of this user. More Info
How do I		
Create users Modificureers		
Delete users		
System Status		
Health of Running Servers		
Failed (0) Critical (0) Overloaded (0) Warning (0) OK (3)		
WebLogic Server Version: 10.3.6.0 Copyright © 1996, 2011, Oracle and/or its affiliates. Al Oracle is a registered trademark of Oracle Corporatio	I rights meanwed. n and/or its affiliates. Other names may be trademarks of their respective owners.	

2. Enter the new password and confirm password.

Change Center	🔒 Home Log Out Preferences 🔤 Record	d Help	Welcome, weblogic Connected to: OF5LL141_domain
View changes and restarts	Home >Summary of Security Realms >myrealm	>Users and Groups >DEMOSUPR	
Configuration editing is enabled. Future	Settings for DEMOSUPR		
changes will automatically be activated as you modify, add or delete items in this domain.	General Passwords Groups		
Domain Structure	Save		
OFSLL141_domain #) Environment Deployments #) Services Security Realms	Use this page to change the password for t	the selected user.	
B Diagnostics	* New Password:		The new password of this user. More Info
	* Confirm New Password:		
	Save		
How do I 🖂			
Create users			
 Modify users 			
Delete users			
System Status 🖂	1		
Health of Running Servers			
Failed (0) Critical (0) Overloaded (0) Warning (0) OK (3)			

3. Click on **Save**. The following window displayed.



ORACLE WebLogic Server®	Administration Console		Q
Change Center	🙆 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: OFSLL141_domain
View changes and restarts Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Home >Summary of Security Realms >myrealm >Users and Gro Messages	ups >DEMOSUPR >Users and Groups >DEMOSUPR1	
Domain Structure	Control Decrements Control		
OFSLL141_domain Environment Deployments Services	Save		
Security Realms D-Interoperability D-Diagnostics	Use this page to change the password for the selected use = Indicates required fields	в.	
	* New Password:		The new password of this user. More Info
	* Confirm New Password:		
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WebLogic Server Version: 10.3.6.0 Copyright © 1996, 2011, Oracle and/or its affiliates. All Oracle is a resistence frademark of Oracle Composition	rights reserved. and/or its affinites. Other names may be trademarks of their respecti	ive rowners.	

3.8 Implementing JMX Policy for Change Password

1. Login to Oracle WebLogic Server 11g console (http://hostname:port/console)

Note

The Change Password feature uses the JMX Policy configured on the domain. Hence, the AdminServer is required to be up and running to enable this.

2. Click Domain \rightarrow Security \rightarrow myrealm \rightarrow Configuration

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WebLogic Server Version: 10.3.5.0 Copyright © 1996,2010, Oracle and/or its affiliates. All Oracle is a registered trademark of Oracle Corporation	rights reserved. and/or its affiliates. O	ther names may be trac	lemarks of their re	spective owners.					



3. To enable JMX policy select the "Use Authorization Providers to Protect JMX Access" check box on the right panel

Change Center	Home Log	Out Preferences 🔤	Record Help	Q			Welcome, weblogic Connected to: DefaultD		
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Domain Structure	General F	DBMS Security Store	User Lockout	Performance					
efaultDomain P-Environment Deployments	Save								
□ Security Realms □ "Interoperability ⊕ Diagnostics	Use this pag Note: If ye not	e to configure the gene ou are implementing sec available and the securi	ral behavior of t urity using JACC ty functions for	his security realm. C (Java Authorization Contr Web applications and EJBs	act for Containe n the Administra	rs as defined in 2 ation Console are	ISR 115), you must use the DD Only security model. Other WebLogic Server models are disabled.		
	Name:	Name: myrealm				The name of this security realm. More Info			
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iow do I • Manage security for Web applications and EJBs	🔽 🏀 Coml	bined Role Mapping I	Enabled				Determines how the role mappings in the Enterprise Application, Web application, and EJB containers interact. This setting is valid only for Web applications and EJBs that use the Advanced security model and that initialize roles from deployment descriptors.		
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4. Click **Save** and restart the server.

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- 5. Re-login to console.
- 6. Click Domain \rightarrow Security \rightarrow myrealm \rightarrow Roles and Policies \rightarrow Realm Policies

Note

If server is not restarted, JMX Policy Editor option will not appear

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7. Click on JMX Policy Editor to configure

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Change Center	Home Log Out Preferences 🐼 Record Help	Welcome, weblogic Connected to: DefaultDomain						
View changes and restarts	Home >Summary of Security Realms >myrealm >Realm Roles >Realm Rolicies >JHX Policy Editor							
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DefaultDomain (P)=Environment Deployments (B)=Services Security Realms	To apply this policy to all instances of an MBean, select GLOBAL SCOPE. To apply this policy only to an MBean instance that is used to manage a specific deployment or resource, select the deployment or resource. Scopes							
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- 8. Select GLOBAL SCOPE
- 9. Click Next

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B weblogic security providers realmadapter B weblogic security providers seal B weblogic security providers saml B weblogic security providers saml autorization Back. Neat. Create Policy: Cancel.	L	weblogic.security.providers.pk
Et weblogic security providers saml Et weblogic security providers saml authorization Back. Neet. Create Policy Cancel.		weblogic.security.providers.realmadapter
E weblogic security providers xacmil-authorization Back Next Create Policy Cancel	Г	⊞ weblogic.security.providers.saml
Back Next Create Policy Cancel		weblogic.security.providers.xacml.authorization
Daux INEX Create Forcy LanCe	P-	- ale Nuest Counte Datau Councel
	Ва	ok Nex Create Policy Cancel
	rights res	erved. ts affiliates. Other names may be trademarks of their respective owners.

10. Select weblogic.security.providers.authentication



11. Select "SQLAuthenticatorMBean". Click Next.

ORACLE WebLogic Server	Administration Console	<u> </u>
Change Center	🕼 Home Log Out Preferences 🗁 Record Help	Welcome, weblogic Connected to: DefaultDomain
View changes and restarts	Home >Summary of Security Realms >myrealm >Realm Roles >Realm Policies >JMX Policy Editor	
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	JHX Policy Editor Back Next Create Policy Cancel	
Domain Structure DefaulDoman ← Derkoyments → Deskynemts → Security Realms → Security Realms → Interoperability ⊕ Diagnostics	Select Read, Write, or Invoke Privileges Specify read/write privileges for one or al MBean attributes, or specify privileges for involving an MBean operation. If you chose ALL MEENT TYPES on the previous page, you must apply the policy to all attributes or all operation. If you chose ALL MEENT TYPES on the previous page, you can select a specific attribute or operation or you Selected Scope: GLOBAL SCOPE Selected MBean Type: SQLAuthenticator/MBean Attributes and Operations Introduction of the previous page.	s. can apply the policy to all attributes or operations.
	Attribute or Operation	Existing Policy
How do I	H Attributes: Permission to Read	
Conte The other	C E Attributes: Permission to Write	
Create JMX policies	Encrypted Attributes: Permission to Read	
System Status	Encrypted Attributes: Permission to Write	
Health of Running Servers	E Lookup Operations: Permission to Invoke	
Failed (0)	E Operations: Permission to Invoke	
Critical (0)	addMemberToGroup	
Overloaded (0)	advance	
OK (1)	changeUserPassword	
	() dose	
	CreateGroup	
	© createUser	
	getCurrentName	
	getGroupDescription	
	getUserDescription	
	groupExists	
	haveCurrent	
	Sim is Member	
	isSet	
	listGroupMembers	
	listGroups	
	IstMemberGroups	
	 I do nativaj construira por al Sulta 	

- 12. Expand "Operations: Permissions to Invoke" and select "ChangePassword"
- 13. Click "Create Policy"
- 14. It opens the below screen for Authorization providers where you can add conditions to setup the policy.

ORACLE WebLogic Server®	Administration Console
Change Center	🔒 Home Log Out Preferences 🖾 Record Help
View changes and restarts	Home >Summary of Security Realms >myrealm >Realm Roles >Realm Policies >JMX Policy Editor >Edit JMX Policies
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Edit JHX Policies Save
Domain Structure	
Defatitionain Bi-Environment I-Dedyoments Bi-Services I-Services Bi-Services Bi-Interoperability Bi-Interoperability Bi-Dagnostics	Use this page to specify the conditions under which a user can access this JMX resource and the Authorization provider that stores and enforces the conditions. Providers These are the authorization providers an administrator can select from. Authorization Providers: VACMLAuthorizer Policy Conditions These conditions determine the access control to your JMX resource. Add Conditions Combine Uncombine Move Up Move Down Remove Negate No Policy Specified No Policy Specified No
How do I	Sau
Create JMX policies Combine Conditions	Poloc Used By Default Role : Admin
System Status 🗉	
Health of Running Servers	
Failed (0) Critical (0) Overloaded (0) Warning (0) OK (1)	inght reserved.



15. Click Add Condition. The below screen will be displayed.

	⁹ Administration Console			õ
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic	Connected to: OFSLL141_domain
View changes and restarts	Home > Summary of Security Realms > myrealm > Providers	s >OfsliDBAuthenticator >Summary of Security Real	ns >myrealm >Realm Roles >Realm Policies >JMX Policy Editor >Edit J	MX Policies
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Edit JMX Policies Back Next Finish Cancel			
Domain Structure	Choose a Predicate			
OFSLL141_domain	Choose the predicate you wish to use as your new cor	ndition		
Deployments Services	The predicate list is a list of available predicates which c	can be used to make up a security policy condition		
i Security Realms ⊡ Interoperability	Predicate List: Group		•	
How do L	1			
Create JMX policies				
Combine Conditions				
Cubu Chiu	a			
Health of Running Servers				
Falled (0) Critical (0) Overloaded (0) Warning (0) OK (3) CK (3)				
WebLogic Server Version: 10.3.6.0 Copyright © 1996, 2011, Oracle and/or its affiliates. Oracle is a registered trademark of Oracle Corporati	All rights reserved. ion and/or its affiliates. Other names may be trademarks of their res	spective owners.		

16. For **Predicate List**, select **Group** for configuration.

17. Click Next.

	Administration Console		Q
Change Center WebLogic Server Admir	Home Los Out Dreferences Record Help	Q	Welcome, weblogic Connected to: OFSLL141_domain
View changes and restarts	Home >Summary of Security Realms >myrealm >Provid	sers >OfsIDBAuthenticator >Summary of Security Realms	>myrealm >Realm Roles >Realm Policies >JMX Policy Editor >Edit JMX Policies
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Edit JHX Policies		
Domain Structure	Edit Arguments		
OFSLL141_domain	On this page you will fill in the arguments that perta	in to the predicate you have chosen.	
Deployments Services	Add one or more groups to this condition. If you add	multiple groups, the condition evaluates as true if the	user is a member of ANY of the groups.
Security Realms	Group Argument Name:	Add	
(B) Diagnostics		OFSLL_USER	1
How do I	Back Next Finish Cancel		
Create JMX policies Combine Conditions			
System Status	1		
Health of Running Servers			
Faled (0) Critical (0) Overloaded (0) Warning (0) OK (3)			
WebLogic Server Version: 10.3.6.0 Copyright © 1996, 2011, Oracle and/or its affiliates. A Oracle is a registered trademark of Oracle Corporatio	N rights reserved. on and/or its affiliates. Other names may be trademarks of their	respective owners.	

- 18. Select user roles for application.
- 19. Click Finish to complete the configuration.

3.9 Migrating Policy from File to Database

For the scalability and manageability of the policy, you must migrate them from a file to database.



To migrate policy from File to Database:

1. Create a data source for OPSS schema with non XA and non global transaction.

Ne	New v Delete Showing 1 to 3 of 3 Previous N								
	Name 🚕	Туре	JNDI Name	Targets					
	jdbc/devopss	Generic	jdbc/devopss	126_AdminServer, 126_ManagedServer					
	mds-126	Generic	jdbc/mds/126	126_AdminServer, 126_ManagedServer					
	OFSLLNEW	Generic	jdbc/ofsllDBConnDS	126_AdminServer, 126_ManagedServer					
Ne	New v Delete Showing 1 to 3 of 3 Previous Next								

For data source creation refer Creating Data Source section of this chapter.

- 2. Go to \$MW_Home/oracle_common/common/bin.
- 3. Run /setWlstEnv.sh
- 4. Run /wlst.sh.
- 5. When prompted, enter connect()
- 6. Enter Username, Password and Server URL
- 7. Run the below command:

```
reassociateSecurityStore(domain="ofsll_domain",servertype="DB_ORA-
CLE",datasourcename="jdbc/devopss",jpsroot="cn=opssNode",join="false")
```

datasourcename is the data source created in Step 1.

```
wis:/OfSLL_domain/serverConfigo reassociateSecurityStore(domain=*OfSLL_domain*,servertype="DB_ORACLE*,datasourcename=*;dbc/devopas*,jperoot=*cn=opsaNode*,jot
p=*failes*)
Location changed to domainRuntime tree. This is a read-only tree with DomainMSean as the root.
For more help, use help(domainRuntime)
Starting policy store reassociation.
The store and ServiceConfigurator setup dome.
Schema is seeded into the store
Data is sugrated to the store. Check logs for any failures or varnings during migration.
Data in the store after migration bas been tested to be available
Update of in-memory jse configurator setup dome.
Schema is seeded into the store
Data is migrated to the store. Check logs for any failures or varnings during migration.
Data is migrated to the store concelling to be available
Update of in-memory ise configurators setup dome.
Schema is seeded into the store
Data is migrated to the store. Check logs for any failures or varnings during migration.
Data is migrated to the store. Check logs for any failures or varnings during migration.
Data is migrated to the store.
Codential store reassociation
The store and ServiceConfigurators setup dome.
Schema is seeded into the store
Data is migrated to the store.
Data is the store after migration has been tested to be available
Data is the store after migration has been tested to be avail
```

- 8. The policy gets migrated from file to Database.
- 9. Restart the server for the changes to take effect.



4. Configuring Policies

4.1 <u>Configuring Password Policy for SQL Authenticator</u>

- 1. Login to the WebLogic server administration console with user login credentials.
- Browse to Security Realms →myRealm→ Providers as shown below. The following window is displayed

	Administration Con	isole									Q
Change Center	Home Log Out	Preferences 🔤 Re	cord Help		Q			١	Velcome, wel	Connected to:	ofsll126_domain
View changes and restarts	Home >myrealm >U	Users and Groups >Sur	nmary of Security Re	ealms >myrealm >9	ummary of Securi	ty Realms >m	tyrealm >Users and Gro	ups >Realm Roles >Cr	edential Mapping	s >Providers	
Configuration editing is enabled. Future	Settings for myre	alm									
modify, add or delete items in this domain.	Configuration U	Isers and Groups R	oles and Policies	Credential Mapp	ngs Provider	s Migratio	on				
Domain Structure	Authentication	Password Validation	n Authorization	Adjudication	Role Mapping	Auditing	Credential Mapping	Certification Path	Keystores		
ofsi⊥e_gonnant II-Deployments II-Services	An Authentication providers in a sec Authentication pr Customize this Authentication	n provider allows Webb curity realm. Different rovider that allows you s table Providers Reorder	Logic Server to est types of Authentic to work with usen	ablish trust by va cation providers a s and groups from	idating a user. Yo e designed to ao previous release	u must hav tess differer s of WebLog	e one Authentication p nt data stores, such as gic Server.	rovider in a security ILDAP servers or DB	realm, and you MS. You can als	can configure multiple o configure a Realm Ac Showing 1 to 3 of 3 f	Authentication Sapter
	Name			Descrip	tion					Version	
	DefaultAuth	nenticator		WebLogi	Authentication P	rovider				1.0	
How do I	DefaultIden	itityAsserter		WebLogi	Identity Assertio	n provider				1.0	
 Configure Authentication and Identity Assertion providers 	OfsIDBAuth	enticator		Provider	that performs DB	4S authenti	cation			1.0	
Configure the Password Validation provider	New Detet: Reorder Showing 1 to 3 of 3 Previous Next										
 Manage security providers 											
 Set the JAAS control flag 											
Re-order Authentication providers											

3. Click Password Validation tab. The following window is displayed

ORACLE WebLogic Server® Administration Console										
Change Center	Home Log Ou	it Preferences 🔤 Reco	rd Help		Q			w	elcome, weblo	gic Connected to: ofsll126_domain
View changes and restarts	Home >Summary	of Security Realms >myreal	m >Summary of	Security Realms >my	realm >Users and	Groups >Re	alm Roles >Credential M	lappings >Providers >	OfsIIDBAuthenticat	or >Providers
Configuration editing is enabled. Future	Settings for myr	realm								
modify, add or delete items in this domain.	Configuration	Users and Groups Role	s and Policies	Credential Mappin	gs Providers	Migratio	n			
Domain Structure	Authentication	Password Validation	Authorization	n Adjudication	Role Mapping	Auditing	Credential Mapping	Certification Path	Keystores	
of 125_down # Environment Deployments Security Realms (P: Interoperability (P: Diagnostics (P: Interoperability (P: Castomize this table Password Validation provider is a security realm, the Password Va					ion provider is automatically a check to determine whether the owing 1 to 1 of 1 Previous Next					
	🔲 Name				Descripti	on				Version
How do I	SystemPas	sswordValidator			Password of	omposition	checks			1.0
Configure the Password Validation provider	New	Reorder							Sh	owing 1 to 1 of 1 Previous Next
Sustem Status										

4. Click SystemPasswordValidator link. The following window is displayed

ORACLE WebLogic Server®	Administration Console		\mathbf{Q}							
Change Center	🏠 Home Log Out Preferences 🖂	Record Help	Welcome, weblogic Connected to: ofsll126_domain							
View changes and restarts	Home >myrealm >Summary of Security	r Realms >myrealm >Users and Groups >Realm Roles >Crede	ential Mappings >Providers >OfsIDBAuthenticator >Providers >SystemPasswordValidator							
Configuration editing is enabled. Future	Settings for SystemPasswordValie	Settings for SystemPasswordValidator								
modify, add or delete items in this domain.	Configuration									
Domain Structure	Common Provider Specific									
ofsll126_domain -Environment -Deployments -Services	This page displays basic information	about this System Password Validation provider.								
Security Realms Interoperability	🥵 Name:	SystemPasswordValidator	The name of this System Password Validation provider. More Info							
Diagnostics	i Description:	Password composition checks	A short description of the System Password Validator provider. More Info							
	4월 Version:	1.0	The version number of the System Password Validator provider. More Info							
How do I • Configure the Password Validation provider • Manage security providers										

5. Click **Provider Specific** Tab. The following window is displayed



	- User Name Policies		
	Reject if Password Contains the User Name		Specifies whether the password can contain, or be set to, the username. More Info
do I 🖂	Reject if Password Contains the User Name Reversed		To determine whether the password can contain or be equal to the reverse username. This check will be case insensitive. If the value is "true", the password must not contain or be equal to the reverse username. More Info
for re the Password Validation provider	- Password Length Policies		
nage security providers	Minimum Password Length:	8	Specifies the minimum number of characters that the password may contain. Note: If the Default Authentication provider is configured in the realm, make sure that this number is consistent with the one configured for that provider. More Info
r of Running Servers Faled (0) Critical (0)	Maximum Password Length:	0	Specifies the maximum number of characters that the password may contain To be accepted, the password may not contain a greater number of characters than the value specified. Specifying 0 results in no restriction on password length. More Info
Uverbaded (0)	- Character Policies		
OK (1)	Maximum Instances of Any Character:	0	Specifies the maximum number of times any one character may appear in the password. More Info
	Maximum Consecutive Characters:	0	Specifies the maximum number of times that a character may appear consecutively in the password. More Info
	Minimum Number of Alphabetic Characters:	0	Specifies the minimum number of alphabetic characters that a password mus contain. More Info
	Minimum Number of Numeric Characters:	0	Specifies the minimum number of numeric characters that must appear in the password. More Info
	Minimum Number of Lower Case Characters:	0	Specifies the minimum number of lowercase characters that a password mus contain. More Info
	Minimum Number of Upper Case Characters:	0	Specifies the minimum number of uppercase characters that a password mus contain. More Info
	Minimum Number of Non-Alphanumeric Characters:	0	Specifies the minimum number of non-alphanumeric characters (also known a special characters, such as $\%$, $*$, \neq , or }) that must appear in the password. More Info
	Minimum Number of Non-Alphabetic Characters:	1	Specifies the minimum number of numeric or special characters (such as %, #, or }) that a password must contain. More Info
	Save		

6. Configure the password policy as per the requirement. An example is provided below.

	- User Name Policies						
	Reject if Password Contains the User Name		Specifies whether the password can contain, or be set to, the username. More Info				
ə I	Reject if Password Contains the User Name Reversed	Reject if Password Contains the User Name Reversed					
igure the Password Validation provider	- Password Length Policies						
age security providers	Minimum Password Length:	8	Specifies the minimum number of characters that the password may contain Note: If the Default Authentication provider is configured in the realm, main sure that this number is consistent with the one configured for that provider. May Info				
of Running Servers			provider. More prio				
Faled (0) Critical (0) Overloaded (0)	Maximum Password Length:	20	Specifies the maximum number of characters that the password may contz To be accepted, the password may not contain a greater number of characters than the value specified. Specifying 0 results in no restriction on password length. More Info				
Warning (0)	- Character Policies						
OK (1)	Maximum Instances of Any Character:	2	Specifies the maximum number of times any one character may appear in password. More Info				
	Maximum Consecutive Characters:	0	Specifies the maximum number of times that a character may appear consecutively in the password. More Info				
	Minimum Number of Alphabetic Characters:	2	Specifies the minimum number of alphabetic characters that a password m contain. More Info				
	Minimum Number of Numeric Characters:	1	Specifies the minimum number of numeric characters that must appear in the password. More Info				
	Minimum Number of Lower Case Characters:	1	Specifies the minimum number of lowercase characters that a password mu contain. More Info				
	Minimum Number of Upper Case Characters:	1	Specifies the minimum number of uppercase characters that a password m contain. More Info				
	Minimum Number of Non-Alphanumeric Characters:	1	Specifies the minimum number of non-alphanumeric characters (also known special characters, such as $\%$, $\#$, or $\}$) that must appear in the password. Nore Info				
	Minimum Number of Non-Alphabetic Characters:	1	Specifies the minimum number of numeric or special characters (such as % #, or }) that a password must contain. More Info				

7. Click Save.



4.2 Configuring User Lockout Policy

 To Change User lockout policy, browse to Security Realms → →Configuration Tab → User Lockout Tab. The following window is displayed

	Administration Console		Ç					
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	٩	Welcome, weblogic Connected to: ofsll126_dom					
View changes and restarts	Home >Summary of Security Realms >myrealm							
Configuration editing is enabled. Future	Settings for myrealm							
modify, add or delete items in this domain.	Configuration Users and Groups Roles and Policie	es Credential Mappings Providers Migration						
Domain Structure	General RDBMS Security Store User Lockout	Performance						
ofsll 126_domain B-Environment Deployments	Save							
G-Services Security Realms G-Interoperability	Password guessing is a common type of security attack provides a set of attributes to protect user accounts fr	c. In this type of attack, a hacker attempts to log in to a comp om intruders. This page allows us to define how user lockouts	uter using various combinations of usernames and passwords. Weblogic Server will be handled in this security realm.					
UT Liagnostics	🗹 🔏 Lockout Enabled		Specifies whether the server locks users out when there are invalid login attempts on their account. More Info					
	4월 Lockout Threshold:	5	The maximum number of consecutive invalid login attempts that can occur before a user's account is locked out. More Info					
	🏀 Lockout Duration:	30	The number of minutes that a user's account is locked out. More Info					
How do I Set user lockout attributes	A Lockout Reset Duration:	5	The number of minutes within which consecutive invalid login attempts cause a user's account to be locked out. More Info					
Unlock user accounts	🏀 Lockout Cache Size:	5	The maximum number of invalid login records that the server can place in a cache. More Info					
System Status Health of Running Servers	🚝 Lockout GC Threshold:	400	The maximum number of invalid login records that the server keeps in memory. More Info					
Failed (0) Critical (0) Overloaded (0)	Save							

2. Configure the User Lockout details as per the requirement. An example is provided above.



5. Deploying Application

5.1 **Deploying Application**

1. Login to the Oracle Enterprise Manager 11g console. (i.e. http://hostname:port/em)

ORACLE Enterp	prise Ma	nager 11g Fusion Middl	eware (Control								Setup 🗸	Help 👻 Log
🕂 Farm 🗸 📔 💑 Topology	y												
		Ofsll Managed	Serv	er								Logo	ged in as webk
Farm_ofsll_domain	_	🔠 WebLogic Server 🗸									Page Refreshed Jar	31, 2013	12:08:47 PM IST
🗉 🚞 Application Deployment	ts .												
🖃 🛄 WebLogic Domain		Summary			0	- 1	Response and	Load					()
E 🗾 ofsl_domain		Connel											
AdminServer	dConvor	General			📑 To configure and manage this WebLogi	ic							
Ho	ome		own		Server, use the Oracle WebLogic Server								
			labl	e	Administration Console.								
Col	ontrol		> ilabl	e	Work Manager								
Log	ıgs		> ilabl	e	Requests (per minute) Unavailable								
					Pending Requests Unavailable								
Per	erformance S	ummary			1M5								
JVE	M Performan	nce	sions	: Unavailable	IMS Servers Linavailable								
Por	ort Usage		(ms)	Unavailable	Pending Messages Unavailable								
			nute)	Unavailable	Current Messages Unavailable								
Api	oplication Dep	ployment	>	Deploy	and ITA Usage		12:05	12:07	12:09	12:11 12	:13 12:15	12:17	12:19
Sys	/stem MBean	Browser		Undeploy	Open JDBC Connections U		January 3	51 2015					
we	eb services			Redeploy	C Connection Creates (per minute) U	2	4						•
	ahl onic Serv	er Administration Console	-	Petch Deployment Plan	Active Transactions U	r		 Request Pro 	ocessing Ti	me (ms) 💻 Requ	ests (per minute)		
	corogicocii		ts (p	er minute) Unavailable	Transaction Commits (per minute) U	1							Table View
Ger	eneral Inform	nation	ts (p	er minute) Unavailable	Transacuor Ronoacios (per minute) o								
	4	Bean Transa	iction Co	mmits (%) Unavailable									
		4		m	*								
		Deployments											3
		Application Deploym	ents										
		Name						Status	s	Active Sessions	Request Processing	Bean A	Accesses (per minute)
		No Deployments found									tine (no)		

2. Right click on **OfsII_ManagedServer** in left panel, select **Application Deployment** → **Deploy**. The following window is displayed.

ORACLE Enterprise Manager 11g Fusion Middleware Control	Help -
Ofsll_ManagedServer (Orade WebLog: Server) ③: Deploy Java EE Application	1
Select Archive Select Target Application Attributes Deployment Settings	
Select Archive 3	Cancel Step 1 of 4 Next
Specify the application or the exploded directory. Optionally you can specify a deployment plan.	
Archive or Exploded Directory Java EE archive, Web Modules (WAR fies), EJB Modules (EJB JAR files) and Resource Adapter Modules (RAR files) can be deployed. You can also deploy an exploded archive that is present on the server where	Information
Enterprise Manager is running. Archive is on the machine where this web browser is running. (Choose File) OFSL_125.ear	Use this page to deploy Java EE applications that require Oracle Metadata Services (MDS) or that take advantage of the Oracle Application Development Framework (Oracle ADF).
Archive or exploded directory is on the server where Enterprise Manager is running. Browse	If your application is a SOA composite, use the SOA Composite deployment wizard.
Deployment Plan	If your application is not a SOA
The degivenent plan is a Bit phat contains the degivenent settings for an application. You can use a previoudly saved degivenent plan for this application. Later in the degivenent process, you can costonally edit the degivenent plan and save it for a future degivenent of this application. If you do not have a degivenent plan, one will be created automatically during the degivenent process when degivenent configuration is done.	composite or it does not require an MDS repository or ADF connections, then you can deploy your application using this wizard or the Oracle WebLogic Server Administration Console.
Create a new depoyment plan when depoyment computation is done.	
Upployment plan is on the macrine where this web provises is running.	
Choose Hiel No he chosen	
Deployment plan is on the server where Enterprise Manager is running.	
Browse	

3. Click Choose File button and select OFSLL application archive file i.e. OFSLL_141.ear

4. Click Next. The following window is displayed

ORA	CLE Enterprise Manage	er 11g Fusion Middleware Control	I	
🕹 Ofsll	_ManagedServer (Orade	WebLogic Server) (1) : Deploy	Java EE Application	
—	🔲 💷 🔲			
Select Archiv	/e Select Target Application A	ttributes Deployment Settings		
Select Ta	arget e WebLogic server or cluster that yo	ou want this application to be deploye	d to.	Ca
Select	Name	Туре	Deployed Applications	
	AdminServer	Oracle WebLogic Server	DMS Application(11.1.1.1.0), FMW Welcome Page Application(11.1.0.0.0), em, wsil-wls	
	Ofsll_ManagedServer	Oracle WebLogic Server	DMS Application(11.1.1.1.0), wsil-wls	

5. Check target server as per the requirement **OfsII_ManagedServer** and click **Next**.



6. The following window is displayed.

ORACLE Enterprise Ma	Inager 11g Fusion Middleware Control		Help 🗸
Ofsll_ManagedServer	Orade WebLogic Server) () : Deploy Java EE Application		5
Select Archive Select Target Applicat	ion Attributes Deployment Settings		
Application Attributes 🕄		Cancel Back Step 3 of 4 Next	Deploy
Archive Type Java	e E Application (EAR file)		
Deployment Plan Crea	ste a new plan		
Deployment Target Ofsl	_ManagedServer		
* Application Nam	e OFSLL_126		
Archive Versio	n V12.6.0.0.0-b171		
Deployment Plan Versio	n		
Context Root of Web Modules			
Web Module	Context Root		
ofsll126.war	ofsl 126		
Target Metadata Repository			
Select the metadata repository and s	pecify the partition in the repository that the application will be deployed to.		
Repository Nam	e Not specified in archive 🥒		
Repository Typ	e		
* Partitio	n		
Distribution			
	Distribute and start application (servicing all requests)		
	 Distribute and start application in administration mode (servicing only administration requests) 		
	Distribute only		
⊡ Other Options			
Source Accessibility	Use the defaults defined by the deployment's targets. Recommended selection.		
	Copy this application onto every target. During deployment, the files will be copied automatically to the managed servers to which the application is targeted.		

7. Click button to select Repository Name. The following window is displayed.

Metadata Repositories			×
Select the metadata reposito	ry that the application will be deployed to.		
Repository	mds-adf 💌		
Repository Details			
Name	mds-adf		
Туре	Database		
JNDI Location	jdbc/mds/adf		
Database Type	Oracle		
Database Name	OFSLLD		
Database User	DEV_MDS		
JDBC URL	jdbc:oracle:thin:@ofss220059.in.oracle.com:1521/OFSLLD		
	-		
		OK Cance	el
v the deployment's targets. Rec	commended selection.		_



1

8. Select Repository as per requirement and click **OK**.

•		
ORACLE Enterprise Ma	nager 11g Fusion Middleware Control	Help 🗸
ofsll_domain (Orade WebLogic Do	main) 🗿 : Deploy Java EE Application	0
alast Archiva, Calast Taxaat, Applicati	Attributes Deplement Sations	
elect Archive Select Target Applicati	an Attributes Deployment Settings	
Application Attributes 🕄		Cancel Back Step 3 of 4 Next Deploy
Archive Type Java	EE Application (EAR file)	
Deployment Plan Crea	e a new plan	
Deployment Target Ofsil	ManagedServer	
* Application Name	OFSLL_126	
Archive Version	V12.6.0.0.0b171	
Deployment Plan Version		
Context Root of Web Modules		
Web Module	Context Root	
ofsll 126.war	ofsil126	
Target Metadata Repository		
Select the metadata repository and sp	edfy the partition in the repository that the application will be deployed to.	
* Repository Name	mds-adf	
Repository Type	Database	
* Partition	ofs 126	
Distribution		
	Distribute and start application (servicion all requests)	
	Distribute and start application in administration mode (servicing only administration requests)	
	C Distribute only	
Other Options		
Source Accessibility	Use the defaults defined by the deployment's targets. Recommended selection.	
	One one characteristic structure is a supervised angles recommended settember in a supervised	
	 Copy one opproximition once every language pointing depresentation will be interested automatically to the managed servers to which the application is targeted. 	

9. Enter Partition name as per the requirement and click Next.

ORACLE Enterprise Mana	ager 11g Fusion N	liddleware Control	Help
Ofsll_ManagedServer (Ora	de WebLogic Server	() : Deploy Java EE Application	
Select Archive Select Target Application A	ttributes Deploym	ent Settings	
Deployment Settings			Cancel Back Step 4 of 4 Deploy
Archive Type Java EE	Application (EAR file) Application Name OFSLL_126	
Deployment Plan Create	a new plan	Version V12.6.0.0.0-b171	
Deployment Target Ofsl_M	anagedServer	Context Root ofsl126	
		Deployment Mode Distribute and start application (servicing all requests)	
Deployment Tasks			
The table below lists common tasks that yo	u may wish to do bef	ore deploying the application.	
Name	Go To Task	Description	
Configure Web Modules	/	Configure the web modules in your application.	
Configure Application Security	1	Configure application policy migration, credential migration and other security behavior.	
- Deployment Plan			
Ebeployment Hun			
Information			
The metadata repository and ADF connect	tion configurations a	re not saved to the deployment plan. At deployment time, those changes will be directly saved in the archive that is deployed.	
You can optionally use the Edit Deploymen Edit Deployment Plan	t Plan option to set m	ore advanced deployment options which the deployment tasks above do not cover.	
You can optionally save the deployment pla	an to your local disk.	You can redeploy this application later using your saved deployment plan and not have to edit the deployment plan.	

Save Deployment Plan

10. Click **Deploy**. The following window is displayed

12.6.0.0.0-b171 \Oracle\MIDDLE~2\USER_P~1\domains\OFSLL_~1\sysman\upload\deploy\OFSLL_126_V12.6.0.0.0-b171\archive\OFSLL_126.ear va EE Application (EAR file) stribute and start application (servicing all requests) fsll_ManagedServer way (offil WanagedServer)
\Oracle\MIDDLE~2\USER_P~1\domains\OFSLL_~1\sysman\upload\deploy\OFSLL_126_V12.6.0.0.0-b171\archive\OFSLL_126.ear va EE Application (EAR file) stribute and start application (servicing all requests) fsll_ManagedServer va_(fill_WanagedServer)
va EE Application (EAR file) stribute and start application (servicing all requests) fsll_ManagedServer
stribute and start application (servicing all requests) Sill_ManagedServer
fsll_ManagedServer
.uve (Orsin_ManagedServer)
sl126
PM IST] Archive: C: \Oracle\MIDDLE~2\USER_P~1\domains\OFSLL_~1\sysman\upload\deploy\OFSLL_16_V12.6.0.0.0-b171\ PM IST] Targeting MDS repository: com.bea:Name=mds-adf,Type=JDBCSystemResource to target Ofsll_ManagedServer. PM IST] Targeting MDS repository: com.bea:Name=mds-adf,Type=JDBCSystemResource to target Ofsll_ManagedServer completed. PM IST] Deployer: 14919]Operation 'deploy' on application 'OFSLL_126 [Version=V12.6.0.0.0-b171]' is initializing on PM IST] [Deployer: 149192]Operation 'deploy' on application 'OFSLL_126 [Version=V12.6.0.0.0-b171]' is in progress on PM IST] [Deployer: 149194]Operation 'deploy' on application 'OFSLL_126 [Version=V12.6.0.0.0-b171]' has succeeded on



11. Click Close once the message "Deploy operation completed" is displayed. The following window is displayed with Application deployment status



5.2



6. Enabling SSL

The application is accessible only via https protocol; hence, after the deployment of the application, you need to enable SSL.

To enable SSL:

- 1. Login to console.
- 2. **\$Domain_Home→Servers→Manage Servers→Configuration→General**. The below screen is displayed.

	···· []	г										
←)□								🟫 🗸 C 🔡	🖣 🗝 Google			9
Most Visited Getting Started												
nouny, aud or aclete items in ans aomain.												
Oomain Structure		Configuration	Protocols	Logging	Debug	Monitoring	Control	Deployments	Services	Security	Notes	
fsll 126_domain		General Clu	ster Servic	es Key	stores SS	L Federati	on Services	Deployment	Migration	Tuning	Overload	
Servers		Health Monitorin	ng Server S	itart W	eb Services							
Virtual Hosts Migratable Targets	=	Save										
Coherence Servers Coherence Clusters Work Managers Startup and Shutdown Classes		Use this page t	o configure ge 한	eneral fea	tures of this	server such a	as default ne	etwork communic	cations.			
Deployments Services Security Realms	-	Name:		adf_N	lanagedServ	er_1		An alphanu instance.	umeric name More Info	for this ser	ver	
low do I	-	Machine:		(None	:)			The WebLo which this :	ogic Server h server is mea	ost comput ant to run.	er (machine) More Info	on
Configure default network connections Create and configure machines Configure clusters		Cluster:		(Stan	dalone)			The cluster instances, Info	r, or group of to which this	f WebLogic server bel	Server ongs. More	
Start and stop servers Configure WLDF diagnostic volume		🏀 Listen Add	ress:]	The IP add listen for in	ress or DNS normalized	name this s ections.	erver uses to More Info)
ystem Status lealth of Running Servers		Listen Port					Specifies w through th port. Mor	Specifies whether this server can be reached through the default plain-text (non-SSL) listen port. More Info				
Failed (0) Critical (0) Overloaded (0)	Listen Port:			7003			The default TCP port that this server uses to liste for regular (non-SSL) incoming connections. Mo Info				ten lore	
Warning (0) OK (2)		SSL Listen	Port Enable	d				Indicates v through th	whether the s le default SSL	erver can listen port	be reached t. More Info	
	_	CCI Ulabar Dav					7	-		le alera anno	- Intern Cont	

- 3. Check the 'SSL Listen Port Enabled' check box.
- 4. Specify the port for 'SSL Listen Port'.

Note

It is recommended to disable http protocol.



7. Launching Application

Verifying Successful Application Deployment and Launching Application

Successful Application deployment can be verified by following:

- Making sure that the state is ACTIVE and health in OK in the Weblogic
- Access and log into the application.

After you enable SSL you can launch the application via https:// protocol.

To launch application

1. Verify if the deployed OFSLL application is **Active**.

	dministration Console			Q
Change Center	🔒 Home Log Out Preferences 🔤 Record Help		Welcome	e, weblogic Connected to: ofsll_domain
View changes and restarts	Home >mds-adf >Summary of Deployments >Summary of JDBC Data Sources >OFSL12.6 DS >Summary of Deployments >OFSL126(V12.6.0.0.0-b171) >Summary of Deployments	f Deployments >Summary of	JDBC Data Sources >mds-adf >Sun	nmary of
Click the Lock & Edit button to modify, add or delete items in this domain.	Summary of Deployments			
Lock & Edit	Control Monitoring			
Release Configuration				
Domain Structure	(redeployed), or deleted from the domain by first selecting the application modules that have been i (redeployed), or deleted from the domain by first selecting the application name and using the contro	is on this page.	tailed applications and modules ca	n be started, stopped, updated
ofsll_domain 🔺	To install a new application or module for deployment to targets in this domain, click the Install button	i.		
B-Environment				
Deployments				
-Services	Customize this table			
⊕-Messaging				
Data Sources E	Deployments			
Persistent Stores	Contraction Contraction Contraction			
Foreign JNDI Providers	Install Update Delete Start V Stop V			Showing 1 to 5 of 5 Previous Next
Work Contexts				
XML Registries	🔲 Name 🗞	State Health	Туре	Deployment Order
XML Entity Caches				
COM	E BOMS Application (11.1.1.1.0)	Active 🖋 OK	Web Application	5
Mail Sessions				
File T3	E Gem	Active 🖋 OK	Enterprise Application	400
How do I 🗉	E FMW Welcome Page Application (11.1.0.0.0)	Active 🖌 OK	Enterprise Application	5
Install an Enterprise application Configure an Enterprise application	OFSLL126 (V12.6.0.0.0-b171)	Active 🗸 OK	Enterprise Application	150
Update (redeploy) an Enterprise application	E Brawsi-wis	Active 🗸 OK	Enterprise Application	5
 Start and stop a deployed Enterprise application 	Install Update Delete Start Stop v			Showing 1 to 5 of 5 Previous Next
Monitor the modules of an Enterprise application				

2. The URL of the OFSLL application will be

https://<hostname>:<Port>/<ContextName>/faces/pages/OfsllSignIn.jspx



(eg. https://localhost:7003/ofsll140/faces/pages/OfsllSignIn.jspx)

Financial Services Lending and Leasing		Help 🧲
	Sign In Sign in to Oracle Financial Services Lending and Leasing. * User Id * Password Sign In	
Oracle Financial Services Lending and Leasing 14.0.0.0.0 Copyright © 1998,2013, Oracle and/or its affiliates. All rights reserved.		

3. Login with the user credentials that was created in Users Creation.

C C localhost://003/otsl/126/faces/pages/Ofsl/SignIn.js	px?_afrLoop=175909845220	0899&_afrWindowMode=0&_adf.ctrl-state=p382rxyr3_14	5 [°]
ACLE ancial Services Lending and Leasing			He
and convoce containing and couching			
	Sign In		
		Sign in to Oracle Financial Services Lending and Leasing.	
		User Id	
		SSC	
		••••••	
		Sign In	
		ogran	



4. After successful login, the following screen is displayed

Financial Services Lending and Leasing	🌡 Signed in as NDEVIK ▾ Accessibility. Help 👹 Sign Qut 🧲
DashBoard ▼ DashBoard Uees Productivit System Monitor	Ŷ
ł	
m Drigination Servicing Z Collections	
≥ WFP ≥ Tools ≥ Setup	



8. Mapping of Enterprise Group with Application Role

Follow the below steps to add an user to the group:

- 1. Login to Oracle Enterprise Manager 11g console (http://hostname:port/em).
- 2. Click WebLogic Domain \rightarrow Security \rightarrow Application Roles on the right panel..



3. On clicking **Application Roles**, the following screen is displayed:

DIRACLE Enterprise Manager 11g	Fusion Middleware Control	Setup + Help + Log C
Farm - & Topology		
) ~	OFSLL141_domain	Logged in as weblo
Farm_OFSLL141_domain	WebLogic Domain 👻	Page Refreshed Nov 19, 2013 2:42:31 PM 15T
WebLoge Domain OFSLI143_domain OFSLI143_domain OFSLI141_AdmisServer OFSLI141_ManagedServer Services_ManagedServer	Application Roles Application Roles registered. These are also applications that are specific to the registered. These are also application in the state are created in the context of end users a context of an application of the state of the context of and users a context of the state of the state of the state of the context of the Role of the state of the state of the state of the state of the Role of the state of the Role of the state of the Role of the state of the Role of the state of the st	application. These rules are seeded by applications in single global policy store when the applications are coassing the application. r Security Provider.
ni 🛄 Metadata Kepositories	Select an application and enter search keyword for role name to search for roles defined.	by this application. Use application stripe to search if application uses a stripe that is different from
	Application name. Application Stripe kibio application stripe selected > •	
	Role Name Starts With 🐷	
	Create @ Create Lke / Edt % Delete]	
	Role Name Display Name	Description

- 4. Select Application Stripe from the drop-down menu.
- 5. Click the arrow head button. Details of the existing Roles are displayed below.



6. Select the **Role Name**. Membership details of the selected Role Name are displayed under **Membership for "role_name"**...



7. Click Edit. The following window is displayed.

ORACLE Enterprise Manager	11g Fusion Middleware Control			Setup - Help - Log O
Farm - A Topology				
	OFSLL141_domain			Logged in as weblog
Farm_OFSL141_domain	WebLogic Domain 🗸		Page Refreshed Nov 15, 2013 3:24:17 PM 157	
Application Deportment Application Application	Application Roles > Edit Application Role Edit Application Role : OFSLL_USE General	R		OK Cancel
	Application Stripe OFSLL_141#V14.1.0.0.0 Role Name OFSLL USER	6237		
	Display Name OFSULLISER			
	Description			
	Hembers			
	An application role may need to be manned to	users or provins defined in enterprise LDAP server, or the role	can be manned to other application roles.	
	Add 3% Delete			
	Name	Display Name	Type	
	PLL_USER		Group	
	ALEXPLOR		User	1.00
	30M		User	
	ANSPANDA		User	
	KRITHOTA		User	10
	ARNATH		Liser	
	NTE		Liser	
	A NO MACOR		1 Marc	1.0
	VINCAPIEM		Liter	
	of all down 1		liner	
	and down?		the second se	
	diss_Derioz		Use	-



8. Click Add. Select type as Group. Click on the arrow head button.

OFSUL141_domain OFSUL143_domain OFSUL143_domain OFSUL143_domain OFSUL43_domain OFSUL43_domain	Logged in as weblogie and Nov. 15, 2013 3-19-05 PH (157 C)
Image: Section State Methods: Section Role Page Method Image: Section Role Application Role Edit Application Role Image: Section Role Edit Application Role Edit Application Role Image: Section Role Edit Application Role Edit Application Role Image: Section Role Edit Application Role Edit Application Role Image: Section Role Edit Application Role Edit Application Role Image: Section Role Edit Application Role Edit Application Role Image: Section Role Edit Application Role Edit Application Role Image: Section Role Edit Application Role Edit Application Role Image: Section Role Edit Application Role Edit Application Role Image: Section Role Edit Application Role Edit Application Role Image: Section Role Edit Application Role Edit Application Role Image: Section Role Edit Application Role Edit Application Role Image: Section Role Edit Application Role Edit Application Role Image: Section Role Edit Application Role Edit Application Role Image: Section Role Edit Application Role Edit Application Role Image: Section Role Edit Application Role Edit Application Role Image: Section Role Edit	Hell No+ 15, 2013 3+18+05 PH 157 €
Application Role Application Role Application Role Central Cent	
Control Marco Control Con	
General G	OK Cancel
Application Strope OPELL_194.9114.1.0.0-0-0237 Rote OPELL_194.9114.1.0.0-0-0237 Decider Isame OPELL_1958 Decider Isame OPELL_1958 Common Add Principal	
Rom Name OPELUGER Discler Innen OPELUGER OPELUGER Add Principal	
Desi Look	
Add Principal	
Specify criteria to search and select the application roles that you want to grant permissions to.	
Hembers Search	
An application Type Group 💌 optication roles.	
Add Principal Name Starts With	
Searched Principals	
Principal Display Name Description	
ADUIT Credesystemuloup Source's User User	
NTK Operators can view User	
IRUMC Operators resource with the User	
VINCA and perform server User	
offild offild offild offild offild	
device CrossDomanConnectors can make inter- User	
SSC domain cails them User foreign domains, User	
OFSL_USER OFSL_USER OFSL_USER OFSL_USER	1
Deployers can view	
Deployers attributes and	
deploy applications.	
Appliesters Appliesters group.	
OK Cover	

9. Select the Principal "OFSLL_USER" to add and click **OK**. The following window is displayed .

Logged in as weblo 2013 3:15:05 PH 25T OK Cance
013 3:19-06 PM 157
OK Cance
OK Cance
OK Cano

10. The selected Principal is listed under Members.



Click OK. The following window is displayed with the confirmation message as "The Application role of "group_name" has been updated".

Farm - K Topology	
•	OFSLL141_domain ()
Farm_OFSUL141_domain	Page Refreshed Nov 19, 2013 3:31:35 PM 15T
Application Deployments	
WebLogic Domain	(A) Information
OFSLL141_domain	An application role OFSL USPR has been undeted.
Metadata Repositories	
	Application Roles
	Application roles are the roles used by security aware applications that are specific to the application. These roles are seeded by applications in single global policy store when the applications are instrumed. These are labeled applications are instrumed and users accessing the applications are applications.
	registered, in table de des appreciant nels des al cuestors als contexts de si des succesaria de appreciant.
	C to see whit over a set if orders to be the period's period of the period of the period of the period.
	Policy Store Provider
	🖻 Search
	Select an application and enter search keyword for role name to search for roles defined by this application. Use application stripe to search if application uses a stripe that is different from
	application harries
	Role Name Starts Web w
	Role Name Starts Web Starts S
	Role Name Starts With
	Role Name Starts With Starts
	Refer Name Starts Hith Start
	Role Name Starte Vith
	Refer Name Starts With Starts With Star
	Refer to With Re
	Refer Name Starts With Start
	Refer tome Starts Hith Create Like Create Like Process OriskL USER



9. Configuring Oracle BI Publisher for Application

- 1. Copy the OfsIICommonCSF.jar from /WEB-INF/lib available in the staging area to \$DOMAIN_HOME/lib
- 2. Update the setDomainEnv.sh file (\$MW_HOME/user_projects/domains/mydomain/bin directory) by appending the above jar file path –

EXTRA_JAVA_PROPERTIES="....... \${EXTRA_JAVA_PROPERTIES} -Dofsll.csf.path=\${DOMAIN_HOME}"

3. Configure Security via EMconsole

Note

It is assumed that BI Publisher is installed and configured. Refer BI Publisher Guide for further details.

Most Visited 🗋 Getting Started 🔊 Latest Headlines 🥃	Un	iders	tanding Your I 💽 WebLogic Server Perf.	🖸	Basics of Deploying Or	BPEL Proce	ss Deploym »
Credentials: /Farm_OFSLLTST_doma 🔶							-
ORACLE Enterprise Manager 11g Fusion	n Mid	dlev	vare Control			Setup 🚽	Help 🚽 Log Out
📑 Farm 🗸 🛛 🏯 Topology							
		OF	SLLTST_domain ()			Log	ged in as weblogic
E Farm_OFSLLTST_domain		ы	WebLogic Domain 👻	_	Page Refres	hed Feb 13, 20	13 1:22:25 PM IST 🗘
Application Deployments Webl opic Domain			Home				
Hotocge Commain GFSLITST_domain Metadata Repositories			Control Logs	>it de	that certify the authority of e ential Store, a single, consolic	ntities used by lated service p	/ Java 2, J2EE, provider to store
			Port Usage		. 💥 Delete		»
			Application Deployment	>	Туре	Description	
			Web Services	,	Password		
			Security	>	Credentials		
	•		Metadata Repositories JDBC Data Sources System MBean Browser		Security Provider Config	uration	
		ď	WebLogic Server Administration Console		Application Policies Application Roles		
		_	General Information		System Policies		
			<		Audit Policy Audit Store		>
Transferring data from 10.184.132.170							



4. Click WebLogic Domain on the right panel. Select Security -> Credentials. Click 'Create Map'. The following window is displayed.

Credentials: /Farm_OFSLLTST_doma			
ORACLE Enterprise Manager 11g Fusion	n Middleware Control		Setup 🗸 Help 🚽 Log Out
🙀 Farm 🗸 🔒 Topology			t anna dia an makila sia
	OFSLLISI_domain ()	Dura Da	Logged in as weblogic
Farm_OFSLLTST_domain	weblogic Domain 🗸	Page Ker	reshed Feb 13, 2013 1:22:25 PM 151 V#
WebLogic Domain WebLogic Tomain OFSLITST_domain Metadata Repositories	Credentials A credential store is the repository of security and ADF applications. Applications can use the and manage their credentials securely. Credential Store Provider	data that certify the authority o 9 Credential Store, a single, cons	f entities used by Java 2, J2EE, olidated service provider to store
		and a second second	
		Edit X Delete	2 provintion
	Gregendar Gregendar	туре	Description
	<pre></pre>	Password	
	Create Map		
	A credential is uniquely identified by a map nam the map name corresponds with the name of ar credentials with the same map name define a lo such as the credentials used by the application credential store must be distinct.	ne and a key name. Typically, n application and all ogical group of credentials, . All map names in a	
	* Map Name		
		OK Cancel	
			<u>></u>

- 5. Enter the Map Name: ofsll.int.security
- 6. Click OK. The following window is displayed..

OFSLL126_Domain () ∰ WebLogic Domain →			Logged in as web Page Refreshed Feb 25, 2013 5:11:04 PM 1:
Credentials A credential store is the repository of secu provider to store and manage their creden Credential Store Provider	ity data that certify the author tials securely.	rity of entities used by Java 2, J2EE,	and ADF applications. Applications can use the Credential Store, a single, consolidated service
👍 Create Map 🛛 🖕 Create Key	🖉 Edit 💥 Delete	Credential Key Name	0
Credential	Туре	Description	
Confell int security			

7. Click Create Key Button.



The following window is displayed.

Create Key		
Select Map * Key	ofsll.int.security 🗸	
Туре	Password 💌	
* User Name		
* Password		
* Confirm Password		
Description		
	OK Cance	#

- 8. Enter the details as per your requirement.
- 9. And provide User Name and Password of BI Publisher console.

Create Key	
Select Map	ofsll.int.security 💌
* Key	bip_key
Туре	Password 💌
* User Name	weblogic
* Password	•••••
* Confirm Password	•••••
Description	
	OK Court
	OK Cancel

10. Click $\ensuremath{\textbf{OK}}$. The following window is displayed.

OFSLL126_Domain WebLogic Domain		Logged in as we Page Refreshed Feb 25, 2013 5:11:04 PM
(i) Information The credential key, bip_key, has been created.		
Credentials A credential store is the repository of security data the provider to store and manage their credentials secured	it certify the authority of ϵ	entities used by Java 2, JZEE, and ADF applications. Applications can use the Credential Store, a single, consolidated service
Credential Store Provider		
🖨 Create Map 🛛 🖨 Create Key 🖉 Edit	💥 Delete Crede	ential Key Name 🕖
Credential	Туре	Description
ofsl.int.security		
bip_key	Password	



10. Configuring JNDI name for HTTP Listener

1. Click WebLogic Domain on the right panel. Select Security \rightarrow Credentials.

ORACLE Enterprise Manager 11g	Fusion Mi	iddleware Control				5	ietup 🗸 Help 🖌 Log Out
Farm - A Topology							
	0	FSLL141 domain @					Logged in as weblogic
E Ram OFSU 141 domain	10	WebLogic Domain 👻				Page Refreshed No	v 21, 2013 3:06:44 PM IST 🖸
Application Deployments		Home	1				
🖂 🫅 WebLogic Domain		- Institu	Ø.	E Clusters			0.0.
E DFSLL141_domain		Castral		to clasters			
OFSLL 141_AdminServer		Control	To configure and manage this	Search		Churter D	alault Causian
OFSLL141_ManagedServer		Logs	WebLogic Domain, use the Oracle	Name	Servers Cluster	Messaging Lo	sad Replication
Services_ManagedServer			WebLogic Server Administration Console		Address	Mode Al	gorithm Type
🗄 🛅 Metadata Repositories		Port Usage	Saturda.	No Clusters found			
			3 ⊙+				
		Application Deployment >		Deployments			(D) (O) -
				behaltments			
		Web Services >					
		ADF Domain Configuration	Down (3)				
		Security >	Credentials			Dow	/n (11)
		Metadata Repositories			100%		
		IDBC Data Sources	Security Provider Configuration				
		System MRean Browser	Secondy Provider Comparation				
			tester to be the second	Search			
		Nicht ante Canvas Administrativa Canvala	Application Policies	Name		Status	Target
		veblogic server Administration Console	Application Roles	Application Deployment	nents		
		2.0.22		E 🛅 Internal Applica	tions	1000	
	<u>د</u>	General Information	System Policies	dbkls-xws-web			Services_Manage
	1	🛃 Services_Man 😽 ofss22		dbkls-xws-web-	ds	4	Services_Manage
		×	Audit Policy	C dbkis-xws-web-	dt		Services_Manage
	E	Oracle WebLogic Domain Resource Cent	Audit Store	dbkls-xws-web-	0		Services_Manage
	10	Before You Begin		OFSLL_141(V14	.1.0.0.0-6237)		OFSLL141_Manag
		(2) What is an Oracle WebLogic Server Doma	n?				
		Manage Oracle WebLogic Server with Fus	ion Middleware Control				
		Manage Oracle WebLogic Server with the	Administration Console				
		Typical Administration Tasks					
		③ Starting and Stopping Oracle WebLogic St	erver Instances				
		Deploying an Application Using Fusion Mid	dieware Control				
		Typical Security Practices with Fusion Mid	dieware Control				
		③ Getting Started Using the Fusion Middlew	are Control MBean Browsers				
		Other Resources					
		Oracle Fusion Middleware Resources on t	he Web				
	L	Oracle Fusion Middleware Forums					

2. On clicking **Credentials** the following window is displayed.

Q Tessien		
rm + Copology		Learned in security
	OFSLL141_domain ()	Logged in as web
arm_OPSLL141_domain	VebLogic Domain -	Page Refreshed Nov 21, 2013 3:07:50 PM 1
Application Deployments		
OFFILIAL domain	Credentials	
OFSI 141 AdminServer	A credential store is the repository of security data that certify the authority of entities used by Java 2, Jac consolidated service provider to store and manage their credentials securely.	it, and AUP applications. Applications can use the Credential Store, a single,
OFSLL141 ManagedServer	E Condential Store Develop	
Services ManagedServer	E Credential Store Provider	
Metadata Repositories	💠 Create Map 💠 Create Key 🛛 🥒 Edit 💥 Delete 🛛 Credential Key Name	
	Credential Type Description	
	u la	
	·	



3. Click on **Create Map**. The following window is displayed.

ORACLE Enterprise Manager 11	1g Fusion Middleware Control	Setup + Help + Log Out
g Farm → do Topology		t around in an unabland
BH Farm OFSI 141 domain	OFSLL141_domain @	ne Refreshed Nov 21, 2013 3-07-50 DM 15T C
III Deployments		
WebLogic Domain OFSL141_domain OFSL141_AdminServer OFSL141_ManagedServer	Information The oredential map, ofsil.http.lstener.jnd, and its keys have been deleted.	(H
Services ManagedServer	Credentials A credential store is the repository of security data that certify the authority of entities used by Jave 2, JZEE, and ADF applications. Applications can use the consolidated service provider to store and manage their credentials securely. III.Credential Store Provider	e Credential Store, a single,
	💠 Create Map 💠 Create Key 🖉 Edit % Delete Credential Key Name	
	Credential Type Description	
	Definition	
	Create Map	
	A credential is uniquely identified by a map name and a key name. Typically, the man name corresponds with the name of an application and all	
	credentials with the same map name define a logical group of credentials,	
	credential store must be distinct.	
	* Map Name	
	OK Canal	

- 4. Enter Map name as 'ofsll.http.listener.jndi'.
- 5. Click **OK**. The following window is displayed.

ORACLE Enterprise Manager 11g F	usion Middleware Control		Setup 👻 Help 👻 Log Ou
📑 Farm 🗸 🛛 💑 Topology			
-	OFSLL141_domain		Logged in as weblog
Farm_OFSLL141_domain	WebLogic Domain 👻		Page Refreshed Nov 21, 2013 3:07:50 PM IST
Application Deployments			
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OPSLL141_ManagedServer Services_ManagedServer E Metadata Repositories	Credentials A credential store is the repository of security data that consolidated service provider to store and manage their ECredential Store Provider	certify the authority of entities used by Java 2, J2EE, and oredentials securely.	d ADF applications. Applications can use the Credential Store, a single,
	💠 Create Map 🛛 💠 Create Key 🔰 🖉 Edit	X Delete Credential Key Name	۲
	Credential	Type Description	
	Generation of the security		
	ofss.http.listener.jndi		



6. Click **Create Key** Button. The following window is displayed.

Credential Type Description Create Key Select Map ofss.http.lstener.ynd "Key Type Password "Description "Confirm Password Description	Type Description
Create Key Select Map ofs.http.lstener.ynd "Key Type Password "Description Description	
Create Key Select Map ofss.http.lstener.jnd "Key Type Password "User Name "Password "Confirm Password Description	
Select Map ofss.http.lstener.ynd "Key Type Password "User Name "Password Confirm Password Description	
*Key Type Password User Name *Password Bescription Description	
Type Password "User Name "Password "Confirm Password Description	
User Name Password Confirm Password Description	
* Password * Confirm Password Description	
* Confirm Password Description	
Description	
OK Cancel	OK Cancel

7. Enter the details as per your requirement.

Key: jndiname

Credential: java:comp/env/jdbc/ofsllDBConnDS

Type:Generic


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E RE Farm OFSL141 domain	VPSLLT41_Unitaria	Nev 21, 2013 3:07:50 PM 15T ()						
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Services_ManagedServer (ii) Metadata Repositories	Credentials A credential store is the repository of security data that certify the authority of entities used by Java 2, J2EE, and ADF applications. Applications can use the Credential Store, a single, consolidates service provider to store and manage their credentials securely. B Credential Store Provider							
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	Select Map ofss.http.listener.jnd							
	*Key jndname							
	Type Generic 💌							
	Description							
	Enter as text C Enter map of property name and value pairs							
	Credential java:comp/env/jdbc/ofsIDBConnDS							
	OK. Cancel							

8. Click **OK**. The following window is displayed.

	OFSLL141 domain						Logged in as weblo
Farm_OFSLL141_domain	WebLogic Domain 🗸					Page Ref	freshed Nov 21, 2013 3:07:50 PM 15T
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11. Appendix

11.1 XManager Usage

To run any installer on remote non window machine user should have XManager software.

×	Xstart			
	Session:	10.184.74.143	~	<u>N</u> ew Sa <u>v</u> e
	<u>H</u> ost:	10.184.74.143	*	Save As
	<u>P</u> rotocol:	SSH	Setup	Delete
	<u>U</u> ser Name:	ofsll 126		Shortcut
	Pass <u>w</u> ord:	••••	S <u>a</u> ve	
	Execution <u>C</u> or	mmand:		
	/usr/bin/xter	m -ls -display \$DISPLAY		
	Options —			
	ii >	Show status dialog box.		Run
		To configure advanced options, click the Advanced button.	Advanced	Close Help

Give the following details

Session name: Give session name.

Host name: Give the UNIX machine address.

Protocol: This value depends on the operating system.

For ExampleE.g.:

Oracle Enterprise Linux: SSH

IBM AIX: TELNET

Solaris: SSH

UNIX: SSH

User Name: Give the UNIX user name.

Password: Give the password.

Execution Command: This value depends on the operating system.

E.g.:

Oracle Enterprise Linux: /usr/bin/xterm -ls -display \$DISPLAY



IBM AIX: /usr/dt/bin/dtterm -ls -display \$DISPLAY Solaris: /usr/openwin/bin/xterm -ls -display \$DISPLAY UNIX: /usr/bin/X11/xterm -ls -display \$DISPLAY

