Oracle® Financial Services Lending and Leasing Application Installation Guide



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Oracle Financial Services Lending and Leasing Application Installation Guide, Release 14.12.0.0.0

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10.1 Launching Application

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Preface

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.

For recommendations on security configuration, refer Security Configuration Guide.

It is assumed that anyone installing Oracle Financial Services Lending and Leasing will have a thorough knowledge and understanding of Oracle Weblogic Server 12c, OAS (Oracle Analytic Server) 5.9.0.

Application installation consists of following steps.

- Install Software
- Create Domains, Repositories, Data Sources
- Configure Policies
- Deploy Application
- Enable SSL
- Map Enterprise Group with Application Role
- Configure JNDI name for HTTP Listener
- Configure JMS Queue
- Configure Oracle Analytics Publisher for Application
- Launch Application

This section consists of the following topics:

- Prerequisites
- Audience
- Documentation Accessibility
- Diversity and Inclusion
- Conventions

Prerequisites

The following software are required to install Oracle Financial Services Lending and Leasing application and they are available from the following sources:

Oracle Software Delivery Cloud (http://edelivery.oracle.com/)



- Oracle Technology Network (OTN)
 - JDK Version 1.8.0_281 or above (https://www.oracle.com/technetwork/java/javase/ downloads/jdk8-downloads-2133151.html)
 - Oracle WebLogic Server 12c Version 12.2.1.4.0 http://www.oracle.com/technetwork/ middleware/weblogic/downloads/wls-main-097127.html Navigate to Fusion Middleware Infrastructure Installer.
 - 3. JVM/JDK are to be downloaded and installed prior to installing the Weblogic Server.

Note:

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

Audience

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

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Access to Oracle Support

Oracle customer access to and use of Oracle support services will be pursuant to the terms and conditions specified in their Oracle order for the applicable services.

Diversity and Inclusion

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Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

Conventions

The following conventions are used in this document:

Table I	Conventions used	

Conventions used

Term	Refers to	
Application	Oracle Financial Services Lending and Leasing	



1 Install Software

The following section details the steps to be followed to install weblogic server.

Installing Oracle WebLogic Server 12c

1.1 Installing Oracle WebLogic Server 12c

Please follow below steps to install oracle weblogic server 12c.

To install using generic Weblogic installer

- 1. Run the command > java -jar fmw_12.2.1.4.0_infrastructure.jar
- 2. Welcome screen is displayed as shown below. Click Next.

Oracle Fusion Middleware 12c Infrastructure Installation - Step 1 of 8 X ORACLE Welcome FUSION MIDDLEWARE Welcome Welcome to the Oracle Fusion Middleware 12c (12.2.1.4.0) Infrastructure Installer. Auto Updates Installation Location Use this installer to create a new Oracle home that contains the Oracle Fusion Middleware Infrastructure software. You can then install additional Fusion Middleware products that require the Infrastructure into the Oracle home, or you can use the Infrastructure to configure a WebLogic Installation Type Server domain for the deployment of Java and Oracle ADF applications. Prerequisite Checks For more information, see Install, Patch, and Upgrade in the Oracle Fusion Middleware Installation Summary documentation library Installation Progress Context-sensitive online help is available from the Help button. Installation Complete Copyright © 1996, 2019, Oracle and/or its affiliates. All rights reserved. Help < Back Next > **Einish** Cancel

Figure 1-1 Oracle Fusion Middleware infrastructure installer window



Welcome		ť		FUSION MIDDLEW	
Auto Upda	ites	Skip <u>A</u> uto Up	dates		
Installation	n Location	Select patche	s from <u>d</u> irectory		
Installation	n Type	Location:			Br <u>o</u> w
Prerequisit	te Checks	O Search My Or	acle Support for Updates		
Installation	n Summary	Username:			
Installation	n Progress	Password:			
Installation	n Complete	2	Proxy Settings		Test Connecti
		Search			Tescconnect

Figure 1-2 Auto Updates window

4. Select Skip Auto Updates and Click Next.

0	Oracle Fusion Middleware 12c	Infrastructure Installation - Step 3 of 8 —	
In	stallation Location		
2	Welcome	Qracle Home:	
	Auto Updates	/u01/Middleware/Weblogic12cHome	Browse
0	Installation Location	Feature Sets Installed At Selected Oracle Home: View	-
,	Installation Type		
,	Prerequisite Checks		
,	Installation Summary		
	Installation Progress		
5	Installation Complete		
		The Oracle Home will be used for all Oracle Feature Sets in this installation.	
		This page only shows Feature Sets installed at the selected Oracle Home. It does not show Feature Sets installed anywhere else.	
	Help	< <u>Back</u> <u>Next</u> <u>Finish</u>	Cancel

Figure 1-3 Installation Location window

 Specify the path for Middleware Home Directory. Click Next. The following window is displayed.

Oracle Fusion Middleware 12c Infrastructure Installation - Step 4 of 8 X ORACLE Installation Type FUSION MIDDLEWARE Welcome ○ Fusion Middleware Infrastructure With Examples Auto Updates Installation Location <u>Fusion Middleware Infrastructure</u> Installation Type Prerequisite Checks Oracle Fusion Middleware 12c Infrastructure 12.2.1.4.0 G Core Server Installation Summary Core Application Server 12.2.1.4.0 Installation Progress Coherence Product Files 12.2.1.4.0 Web 2.0 HTTP Pub-Sub Server 12.2.1.4.0 Installation Complete WebLogic SCA 12.2.1.4.0 WebLogic Client Jars 12.2.1.4.0 Administrative Tools Administration Console Additional Language Help Files 12.2.1.4.0 CIE WLS Config 12.2.1.4.0 Enterprise manager 12.2.1.4.0 🖃 Database Support Third party JDBC Drivers 12.2.1.4.0 WebLogic Evaluation Database 12.2.1.4.0 Open Source Components Fusion Middleware Maven Support 12.2.1.4.0 JRF and Enterprise Manager WLS for FMW 12.2.1.4.0 Oracle Automatic Diagnostic Repository Feature Set Group 4 ۲ Help < Back Next > Finish Cancel

Figure 1-4 Installation Type window

6. Select the option Fusion Middleware Infrastructure. Click Next.

Welcome	
Auto Updates	100%
Installation Location	Checking operating system certification Checking Java version used to launch the installer
Prerequisite Checks	Checking Java version used to launch the installer
Installation Progress	
	Stop Rerun Skip View Successful Tasks View Let Checking operating system certification P Checking Java version used to launch the installer

Figure 1-5 Prerequisite Checks window

7. Click **Next** to continue.

nstallation Summary			
Welcome	□ Install Oracle Fusion Middleware 12c Infrastructure		
Auto Updates	Installation Location		
and the second	Oracle Home Location: /u01/Middleware/Weblogic12cHome		
Installation Location	Log File Location: /tmp/OraInstall2020-04-30_08-58-54AM/install2020-04-30_08-58-54AM		
Installation Type	.log		
Prerequisite Checks	Disk Space		
	Required: 2127 MB		
Installation Summary	Available: 16019 MB		
Installation Progress	□ Feature Sets to Install		
	WLS for FMW 12.2.1.4.0		
Installation Complete	Core Application Server 12.2.1.4.0		
	Coherence Product Files 12.2.1.4.0		
	Web 2.0 HTTP Pub-Sub Server 12.2.1.4.0		
	WebLogic SCA 12.2.1.4.0		
	WebLogic Client Jars 12.2.1.4.0		
	Third party JDBC Drivers 12.2.1.4.0		
	WebLogic Evaluation Database 12.2.1.4.0		
	FMW Platform Generic 12.2.1.4.0		
	OPatch 13.9.4.2.1		
	Toplink Developer 12.2.1.4.0		
	Administration Console Additional Language Help Files 12.2.1.4.0		
	CIE WLS Config 12.2.1.4.0		
	Enterprise manager 12.2.1.4.0		
	Fusion Middleware Maven Support 12.2.1.4.0		
	Save Response File		
	Select Install to accept the above options and start the installation.		
	To change the above options before starting the installation, select the option to change in the le pane or use the Back button.		

Figure 1-6 Installation Summary window

8. Click Next.



Oracle Fusion Middleware 12c	Infrastructure Installation - Step 7 of 8	- 🗆 X
Installation Progress		
9 Welcome	1	
Auto Updates	100%	
Installation Location	V Prepare	
Installation Type	🖌 Сору	
• Prerequisite Checks	Generating Libraries	
Installation Summary	Performing String Substitutions	
Installation Progress	✓ Linking	
Installation Complete	Setup	
	Saving the inventory	
	✓ Post install scripts	
	View Messages	View Log
	Hardware and S Engineered to Work	
Help	< Back Next > Finis	sh Cancel

Figure 1-7 Installation Progress window

9. Click **Install**. The weblogic installation starts. Once done, the following window is displayed.

Oracle Fusion Middleware 12c1	Infrastructure Installation - Step 8 of 8 — 🗌
nstallation Complete	
Welcome	😑 Install Oracle Fusion Middleware 12c Infrastructure
Auto Updates	Installation Location
Installation Location	Oracle Home Location: /u01/Middleware/Weblogic12cHome
	Log File Location: /tmp/OraInstall2020-04-30_08-58-54AM/install2020-04-30_08-58-54AM
Installation Type	.log ■ Feature Sets Installed Successfully
Prerequisite Checks	WLS for FMW 12.2.1.4.0
Installation Summary	Core Application Server 12.2.1.4.0
Installation Progress	Coherence Product Files 12.2.1.4.0
-	Web 2.0 HTTP Pub-Sub Server 12.2.1.4.0
Installation Complete	WebLogic SCA 12.2.1.4.0
	WebLogic Client Jars 12.2.1.4.0
	Third party JDBC Drivers 12.2.1.4.0
	WebLogic Evaluation Database 12.2.1.4.0
	FMW Platform Generic 12.2.1.4.0
	OPatch 13.9.4.2.1
	Toplink Developer 12.2.1.4.0
	Administration Console Additional Language Help Files 12.2.1.4.0
	CIE WLS Config 12.2.1.4.0
	Enterprise manager 12.2.1.4.0
	Fusion Middleware Maven Support 12.2.1.4.0
	Next Step(s):
	See the online help for next steps after installation.
	Oracle Fusion Middleware 12c Infrastructure installation completed successfully
Help	< Back Next > Finish Cance

Figure 1-8 Installation Complete window

10. Click **Finish** to close the window.

Create Domains, Repositories, Data Sources

The following section details how to create domains, repositories, data sources.

- Creating Schemas using Repository Creation Utility
- Creating Domain and Servers
- Creating Metadata Repository
- Creating Data Source
- Creating SQL Authentication Provider
- Creating User Groups and Users
- Implementing JMX Policy for Change Password

2.1 Creating Schemas using Repository Creation Utility

The following section details the steps to create schemas using repository creation utility.

 Open command prompt on Unix and browse to <WL_HOME>/oracle_common/bin and run ./rcu.



Repository Creation Utility - Step	1 of 8	- □ >	×
Repository Creation U	tility		
Welcome	Welcome to Repository Creation Utility 12.2.1.4.0	for Oracle Fusion Middleware.	
Create Repository	The Repository Creation Utility enables you to cre	ate and drop database schemas that are require	ed .
Database Connection Details	for Oracle Fusion Middleware products.		
Select Components			
Schema Passwords			
Map Tablespaces			
Summary			
Completion Summary			
	Copyright © 1996,2019, Oracle and/or its affiliate	s. All rights reserved.	
Help		< Back Next > Finish Cancel	
			-

Figure 2-1 Repository Creation Utility 1

2. Click Next.

Velcome Create Repository	<u>C</u> reate Repository	
Database Connection Details	Create and load component schemas into a database.	
Select Components	System Load and Product Load I have DBA privileges.	
Map Tablespaces	Prepare Scripts for System Load Create scripts for DBA to run later.	
Completion Summary	O <u>P</u> erform Product Load System Load scripts have been run by DBA.	
	O Drop Repository Remove component schemas from a database.	

Figure 2-2 Repository Creation Utility 2

3. Select Create Repository and select System Load and Product Load. Click Next. The following screen is displayed.

Repository Creation U	tility			(☆)
Welcome Create Repository Database Connection Del Select Components Schema Passwords Map Tablespaces Summary Completion Summary	Database Type: Connection String Format: Connect String Host Name: Port: Service Name: Dassword: Role:	Oracle Database Connection P <u>a</u> rameters ofsll.oracle.com 1521 OLLMDR sys SYSDBA	FUSION MIDDLEWARE	

Figure 2-3 Repository Creation Utility 3

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



5. Click Next.



Create Repository	<u>D</u> atabase Type:	Oracle Database		
Database Connection Def Select Components	Connection String Format:	Connection Para	ameters O Connection String	9
Schema Passwords 1ap Tablespaces	Conne <u>c</u> t String Host Na <u>m</u> e:	whf00ake.in.oracle	com	
< Obtai	izing repository configuration n properties of the specifier k requirement for specified completed. Click OK to continu	d database database	00:13.825(sec) 00:04.073(sec) 00:00.805(ms)	
Operation				

Figure 2-4 Repository Creation Utility 4

- 6. Click **OK** in the confirmation dialog.
- 7. Click **Next** the following window is displayed.

Welcome Create Repository	Specify a unique prefix for all s and manage the schemas late		ion, so you can easily locate, referen
Database Connection Details	Select existing prefix:		
	O Select existing prenx.		
Select Components	Oreate new prefix:	OLL	
Schema Passwords		Alpha numeric only. Canno	t start with a number. No special
Map Tablespaces			
Summary	Component		Schema Owner
	□□Oracle AS Repositor		
Completion Summary	■■AS Common Sche		
		structure Services *	OLL_STB
	User Messagir	m Security Services	OLL_OPSS UMS
	Audit Services		OLLIAU
	Audit Services		OLL IAU APPEND
	Audit Services		OLL IAU VIEWER
	Metadata Sen	lices	OLL MDS
	Weblogic Serv	ices *	OLL_WLS
	* Mandatory component. M	landatory components canno	t be deselected.

Figure 2-5 Repository Creation Utility 5

8. Select **Create new Prefix** option and specify the value.

For example, OLL.

9. Select the options Metadata Services and Oracle Platform Security Services as shown in the above screen. Click Next.



pository Creation U	remey		FUSION MIDDLEWARE	
Welcome Create Repository	Specify a unique prefix for all s and manage the schemas late		session, so you can easily lo	cate, refere
Database Connection Details	Select existing prefix:			
Select Components	Oreate new prefix:	OLL		
Schema Passwords			annot start with a number. N	o special
Map Tablespaces		, opine institution entry i e		
Summary	Repository Creation Utility - Ch	necking Prerequisites	-	×
Completion Summary	Checking Component Prerequis	itee		-
	Common Infrastructure S		00:09.540(sec)	
The second se	✓ Oracle Platform Security		00:00.100(ms)	
	Audit Services		00:00.101(ms)	
	Audit Services Append		00:00.101(ms)	
	Audit Services Viewer		00:00.101(ms)	
	🖋 Metadata Services		00:00.101(ms)	
	Veblogic Services		00:00.100(ms)	
				_
	Operation completed. Click OK	to continue to next page.		
			<u>0</u> 1	<
	* Mandatory component. N	landatory components c	annot be deselected.	

Figure 2-6 Repository Creation Utility 6

10. Click Next.

Repository Creation U	tility		3
Welcome Create Repository Database Connection Details Select Components Schema Passwords Map Tablespaces Summary Completion Summary	<u>U</u> se same password: <u>P</u> assword: <u>C</u> onfirm Password: Use <u>m</u> ain schema p	nain and auxiliary schema users. Is for all schemas Alpha numeric only.Cannot start with No special characters except \$, #, asswords for auxiliary schemas asswords for all schemas	
	• •		

Figure 2-7 Repository Creation Utility 7

- **11.** You can select one of the following:
 - Select Use same password for all schemas and specify the password.
 - Select **Specify different passwords for all schemas** and specify Schema Passwords for each schema.
- 12. Click Next.



	*		FUSION MI	
Welcome Create Repository			lected components appear tablespaces, use the Mana	
Database Connection Detail	5			Manage <u>T</u> ablespa
Select Components				
Schema Passwords	Component	Schema Owner	Default Tablespace	Temp Tablespace
	Common Infrastruct	OLL STB	*OLL STB	*OLL IAS TEMP
Map Tablespaces	Oracle Platform Sec	OLL OPSS	*OLL IAS OPSS	*OLL IAS TEMP
Summary	Audit Services	OLLIAU	*OLL IAU	*OLL IAS TEMP
	Audit Services App	OLL IAU APPEND	*OLL IAU	*OLL IAS TEMP
Completion Summary	Audit Services Viewer	OLL IAU VIEWER	*OLL IAU	*OLL IAS TEMP
	Metadata Services	OLL MDS	*OLL MDS	*OLL IAS TEMP
	Weblogic Services	OLL WLS	*OLL WLS	*OLL IAS TEMP
			011_1120	022_010_12111
		,		

Figure 2-8 Repository Creation Utility 8

13. Click Next.

			FUSION MID	
<u>Welcome</u> <u>Create Repository</u> Database Connection Details			elected components appear g tablespaces, use the Mana	
Select Components	Component	Schema Owner	Default Tablespace	Temp Tablespace
Schema Passwords	Common Infrastruct		*OLL STB	*OLL IAS TEMP
Map Tablespaces	Oracle Platform Sec		*OLL IAS OPSS	*OLL IAS TEMP
Summary	Audit Services	OLL IAU	*OLL IAU	*OLL IAS_TEMP
	Aud O Repository Creat	ion Utility - Confirmati	on X	
Completion Summary	Aud			*OLL_IAS_TEMP
	Met Any Any	***	not already exist in the	*OLL_IAS_TEMP *OLL_IAS_TEMP
	Clic	k Cancel to return to		
			<u>QK</u> <u>Cancel</u>	
	* Default tablespaces (s	pecified in the config	uration files) are to be crea	ted upon confirmation.

Figure 2-9 Repository Creation Utility 9

14. Click **OK** in the confirmation dialog.

epository Crea	ation U	tility			
<u>Welcome</u> <u>Create Repository</u> <u>Database Connections Select Components</u>				elected components appear tablespaces, use the Mana	
Schema Passwords	6	Component	Schema Owner	Default Tablespace	Temp Tablespace
Map Tablespace		Common Infrastru	uct OLL_STB	*OLL_STB	*OLL_IAS_TEMP
Completion Summ	V Chec		rements for selected co he repository database		- IAS LEMP
	Operation	completed. Click OK	to continue to next page.	2	2K

Figure 2-10 Repository Creation Utility 10

15. Click **OK** in the confirmation dialog.

pository Creation U	Itility			
Welcome	Database details:			
Create Repository	Host Name	ofsII.oracle.com		
Database Connection Details	Port	1521		
Select Components	Service Name	OLLMDR		
Schema Passwords	Connected As	sys		
Map Tablespaces	Operation	System and Data	Load concurrently	
Summary	Prefix for (prefixable) Schema Owne	ers OLL		
Completion Summary				
	Component	Schema Owner	Tablespace Type	Tablespace Name
	Common Infrastructure Services	OLL_STB	Default Temp Additional	OLL_STB OLL_IAS_TEMP [None]
	Oracle Platform Security Services	OLL_OPSS	Default Temp Additional	OLL_IAS_OPSS OLL_IAS_TEMP [None]
	Audit Services	OLL_IAU	Default Temp Additional	OLL_IAU OLL_IAS_TEMP [None]
	Audit Services Append	OLL_IAU_APPEND	Default Temp Additional	OLL_IAU OLL_IAS_TEMP [None]
	Audit Services Viewer	OLL_IAU_VIEWER	Default Temp	OLL_IAU OLL_IAS_TEMP
	Save Response File			

Figure 2-11 Repository Creation Utility 11

16. Click Create.

	tion U	cincy		FUSION MIDDLE	
Welcome		Database details:			
Create Repository		Host Name	ofsil.oracle.com		
Database Connection	n Details		1521		
Select Components		Service Name	OLLMDR		
<u>Schema Passwords</u> Map Tablespaces	🖸 Repo	sitory Creation Utility - System Load		- D >	<
Summary	Reposito	ory System Load in progress.			
		ecuting pre create operations		00:16.429(sec)	
Completion Summa		nmon Infrastructure Services		00:09.528(sec)	ablespace Nam
		dit Services Append		0	L STB
		dit Services Viewer		0	L IAS TEMP
		tadata Services		0	one]
		blogic Services		0	
		dit Services Incle Platform Security Services		0	L_IAS_OPSS
		cuting post create operations		0	L_IAS_TEMP
		· · · ·			L_IAU L_IAS_TEMP)ne]
				Stop	L_IAU L_IAS_TEMP
				Additional	[None]
		Audit Services Viewer	OLL_IAU_VIEWER	Default Temp	OLL_IAU OLL_IAS_TEMP

Figure 2-12 Repository Creation Utility 12

Welcome	Database details:				
Create Repository	Host Name	ofsil.oracie.co	н		
) Database Connection Detai		1521			
	Service Name				
Select Components		OLLMDR			
Schema Passwords	Connected As	sys			
Map Tablespaces	Operation	System and D	ata Load concu	rrently	
	Execution Time	3 minutes 11	seconds		
Summary	RCU Logfile				
		1000/RC112020		42165227/logs/rcu.lo	a
Completion Summary					-
Completion Summary	Component Log			42165227/logs	
Completion Summary		/tmp/RCU2020			
Completion Summary	Component Log Directory View Log	/tmp/RCU2020 rcu.log			
Completion Summary	Component Log Directory View Log Prefix for (prefixable	/tmp/RCU2020 rcu.log			
Completion Summary	Component Log Directory View Log	/tmp/RCU2020 rcu.log			
Completion Summary	Component Log Directory View Log Prefix for (prefixable Schema Owners	/tmp/RCU2020 rcu.log	-04-30_10-43_5	42165227/logs	
Completion Summary	Component Log Directory View Log Prefix for (prefixable Schema Owners Comp	/tmp/RCU2020 rcu.log	-04-30_10-43_5	42165227/logs Time	Logfile{Click to view
Completion Summary	Component Log Directory View Log Prefix for (prefixable Schema Owners Comp Common Infrastruct	/tmp/RCU2020 rcu.log) OLL onent ture Services	-04-30_10-43_5 Status Success	542165227/logs Time 00:12.083(sec)	Logfile(Click to view stb.log
Completion Summary	Component Log Directory View Log Prefix for (prefixable Schema Owners Comp Common Infrastruct Oracle Platform Sec	/tmp/RCU2020 rcu.log) OLL onent ture Services	-04-30_10-43_5 Status Success Success	Time 00:12.083(sec) 01:04.542(min)	Logfile(Click to view stb.log opss.log
Completion Summary	Component Log Directory View Log Prefix for (prefixable Schema Owners Comp Common Infrastruct Oracle Platform Sec Audit Services	/tmp/RCU2020 rcu.log) OLL nonent cure Services .urity Services	-04-30_10-43_5 Status Success Success Success Success	Time 00:12.083(sec) 01:04.542(min) 00:31.023(sec)	Logfile(Click to view stb.log opss.log iau.log
Completion Summary	Component Log Directory View Log Prefix for (prefixable Schema Owners Comp Common Infrastruct Oracle Platform Sec	/tmp/RCU2020 rcu.log) OLL nonent ture Services turity Services nd	-04-30_10-43_5 Status Success Success	Time 00:12.083(sec) 01:04.542(min)	Logfile(Click to view stb.log opss.log iau.log iau_append.log
Completion Summary	Component Log Directory View Log Prefix for (prefixable Schema Owners Comp Common Infrastruct Oracle Platform Sec Audit Services Audit Services Appe	/tmp/RCU2020 rcu.log) OLL nonent ture Services turity Services nd	-04-30_10-43_5 Status Success Success Success Success Success	Time 00:12.083(sec) 01:04.542(min) 00:31.023(sec) 00:10.196(sec)	Logfile(Click to view stb.log opss.log iau.log

Figure 2-13 Repository Creation Utility 13

17. Click Close to close the window.

2.2 Creating Domain and Servers

The following section details the steps to create domain and servers.

- In Unix/Linux machine, once the Oracle WebLogic Server is installed, navigate to the following path - <WL HOME>/oracle common/common/bin.
- 2. In Unix, run config.sh

ects/domains/OFSLL	REL domain E	Brows
ects/domains/OFSLL	REL domain E	Brown
ects/domains/OFSLL	REL domain E	Brown
ects/domains/OFSLL	REL domain E	Brown
ects/domains/OFSLL	REL domain E	Brown
ects/domains/OFSLL	REL domain E	Brown
ects/domains/OFSLL	REL domain E	Brown
ects/domains/OFSLL	REL domain E	Brown
ects/domains/OFSLL	REL domain E	Brown
ects/domains/OFSLL	.REL domain E	Brown
		5 <u>7</u> 0₩

Figure 2-14 Weblogic Domain Creation 1

- 3. Select Create a new domain and specify the Domain Location.
- 4. Click **Next** to continue.

Templates				
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Progress End Of Configuration	Filter Templates: Available Templa Basic WebLog Oracle Enterp Oracle Enterp Oracle User M Oracle JRF SO Oracle RS Se Oracle WSM P Oracle WSM P Oracle JRF [or- Oracle BRF [or- Oracle Restrict WebLogic Adva MT	□ Include all <u>s</u> elected templates tes ic Server Domain [wlserver] * rise Manager [em] rise Manager-Restricted JRF [em] lessaging Service Basic [oracle_co AP/JMS Web Services [oracle_common] osicy Manager [oracle_common] olicy Manager Cloud - File [oracle_	ommon] mon] _common] tension [oracle_comr	 lied templat

Figure 2-15 Weblogic Domain Creation 2

- Select the option Create Domain Using Product Templates in the list of available templates and select Oracle Enterprise Manager [em]. On selection, the following options are auto-selected:
 - Oracle JRF [oracle_common]
 - Weblogic coherence cluster Extension [wlserver]
- 6. Click Next.

Application Location			()
Create Domain Image: Create Domain Contains and Contains and Contains and Contains and Continuation Type Administrator Account Component Datasources IDBC Test Configuration Configuration Configuration Summary Configuration Progress End Of Configuration	Domain name: Domain location: Application location:	LREL_domain Middleware/Weblogic12cHome/user_projects/domains ogic12cHome/user_projects/applications/OFSLLREL_domai	n Brows

Figure 2-16 Weblogic Domain Creation 3

7. Specify the Domain Name in the **Application location** field. You can click browse to directly select the path (if required). Click **Next**.

Administrator Account		
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Name Password Confirm Password	eblogic

Figure 2-17 Weblogic Domain Creation 4

- 8. Enter credentials for the following:
 - Name
 - Password
 - Confirm Password
- 9. Click Next.



Administrator Account Domain Mode and JDK Require the entry of a username and pase	d password, and poll for applications to deploy.
Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	1.8.0_241

Figure 2-18 Weblogic Domain Creation 5

10. Select the Domain Mode as **Production** and **JDK** from Available JDKs. You can also select any other JDK by selecting **Other JDK Location**option. Click **Next**.

Database Configuration	Type ORACLE FUSION MIDDLEWARE
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Ty Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Specify AutoConfiguration Options Using: • <u>B</u> CU Data <u>Manual Configuration</u> Enter the database connection details using the schema credentials corresponding to Common Infrastructure Services component in the Repository Creation Utility. The Wizard uses this conne to automatically configure the datasources required for components in this domain. Vendor: Oracle Driver: *Oracle's Driver (Thin) for Service connections; . • Connection Parameters Connection URL String Host Name: ofsil.oracle.com DBMS/Service: OLLMDR Port: 1521 Schema Owner: OLL_STB Schema Password: ••••• Get RCU Configuration Cancel Connection Result Log Successfully Done. Click "Get RCU Configuration" button to test the connection and activate the "Next" button.

Figure 2-19 Weblogic Domain Creation 6

 Specify the RCU data and click on Get RCU Configuration. The following window is displayed.

DBC Component Scher	ma						()
Create Domain	Ver	ndor:	D	river:			
Templates		Connection Parameters		tion <u>U</u> RL String			
Application Location		Connection Farameters	s O connec	tion <u>o</u> ke string			
Administrator Account	Ho	st Name:					
Domain Mode and JDK	DB	MS/Service:	P	ort:			
Database Configuration Typ	sel Sel	hema Owner:		chema Password:	[
Component Datasources							
JDBC Test	Or	acle RAC configuration (for component	schemas:			
Advanced Configuration		O Convert to Gri	idLink 🛛 🔿 Co	nvert to RAC multi	data sour	ce 🔿 Don't i	convert
Configuration Summary							
	E di	its to the data above wi	ill affect all che	cked rows in the ta	able below	1	
the second se							
Configuration Progress		Component Schema	DBMS/Service		Port	Schema Ow	Schema Pas
the second s		Component Schema LocalSvcTbl Schema	DBMS/Service OLLMDR	ofsll.oracle.com	Port 1521	Schema Ow OLL_STB	
Configuration Progress		Component Schema LocalSvcTbl Schema WLS Schema		ofsll.oracle.com ofsll.oracle.com	1521 1521	Schema Ow OLL_STB OLL_WLS_RUM	·····
Configuration Progress		Component Schema LocalSvcTbl Schema WLS Schema OPSS Audit Schema	OLLMDR OLLMDR OLLMDR	ofsll.oracle.com ofsll.oracle.com ofsll.oracle.com	1521 1521 1521	Schema Ow OLL_STB OLL_WLS_RUN OLL_IAU_APPE	·····
Configuration Progress		Component Schema LocalSvcTbl Schema WLS Schema	OLLMDR OLLMDR OLLMDR	ofsll.oracle.com ofsll.oracle.com	1521 1521	Schema Ow OLL_STB OLL_WLS_RUM	·····

Figure 2-20 Weblogic Domain Creation 7

12. Click Next.

DBC Component Schem				FUSION MIDDLEWAR		
Create Domain		Status			JDBC Connecti	ion l
Templates		1	LocalSvcTbl Schema		jdbc:oracle:th	in:@
Application Location		1	WLS Schema		jdbc:oracle:th	-
Administrator Account		1	OPSS Audit Schema		jdbc:oracle:th	in:@
		1	OPSS Audit Viewer Schema		jdbc:oracle:th	in:@
Domain Mode and JDK		1	OPSS Schema		jdbc:oracle:th	in:@
Configuration Summary Configuration Progress End Of Configuration	Co Dse Pas SQL CFG	- r= <u>OLL</u> sword= . Test= ;FWK-64 ;FWK-64	Result Log OF35 select 1 from schema_version_registry where ov 213: Test Successful! 213: JDBC connection test was successful. 213: No action required.	wner=(select user fror	n dual) and mr	_tv

Figure 2-21 Weblogic Domain Creation 8

13. Click Next.

Advanced Configuration	
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Managed Servers Clusters Server Templates Coherence Clusters Machines Virtual Targets Partitions Configuration Summary Configuration Progress End Of Configuration	 ✓ Administration Server Modify Settings Node Manager Configure Node Manager ✓ Topology Add, Delete or Modify Settings for Managed Servers, Clusters, Virtual Targets and Coherence Domain Frontend Host Capture Configure Domain Frontend Host □ Deployments and Services Target to Servers or Clusters

Figure 2-22 Weblogic Domain Creation 9

14. Select Administration Server and Topology and click Next.

Administration Server		
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Listen Address All Local Addresses Listen Address Listen Address Advanced Configuration Enable SSL Advanced Configuration Managed Servers Clusters Server Templates Coherence Clusters Machines Yirtual Targets Partitions Configuration Progress End Of Configuration	FUSION MIDDLEWARE	coherence po

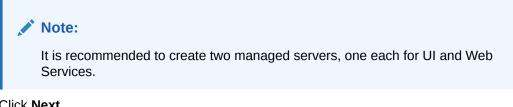
Figure 2-23 Weblogic Domain Creation 10

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

Fusion Middleware Configuration	Wizard - Page 11 of 20			ORA	-	
Managed Servers						
Create Domain	👍 Add 🖹 Clo	ne 🔀 <u>D</u> elete			🧐 Dis <u>c</u> ar	d Changes
Application Location Administrator Account	Server Name	Listen Address	Listen Port	Enable SSL	SSL Listen Port	Server Groups
Description of the section of the se	OFSLL_ManagedServer	All Local Address	9003	 Image: A start of the start of	9503	JRF-MAN-S.
Domain Mode and JDK Database Configuration Type (WS_ManagedServer	All Local Address	9004		Disabled	JRF-MAN-S.
Component Datasources JDBC Test Advanced Configuration Administration Server Managed Servers Clusters Server Templates Coherence Clusters Machines Virtual Targets Partitions						
 <u>Configuration Summary</u> Configuration Progress 						
End Of Configuration						
Help			< <u>B</u> ack	<u>N</u> ext >	- <u>F</u> inish	Cancel

Figure 2-24 Weblogic Domain Creation 11

- **16.** Click **Add** button to create **ManagedServer**.
- 17. Select the Server Group as **JRF-MAN-SVR**. Selecting this server group ensures that the Oracle JRF services are targeted to the specific Managed Servers created.



18. Click Next.

Clusters			i		
Create Domain	👍 Add 🛛 💥	Delete		1	Dis <u>c</u> ard Changes
Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration	Cluster Name	Cluster Address	Frontend Host	Frontend HTTP Port	Frontend HTT Port
Administration Server Managed Servers Clusters Server Templates					
Coherence Clusters Machines Virtual Targets					
Partitions Configuration Summary Configuration Progress					

Figure 2-25 Weblogic Domain Creation 12

19. Configure as required and click **Next**.

Server Templates				
Create Domain	Add X Delete			🔊 Dis <u>c</u> ard Change
Application Location	Name	Listen Port	SSL Listen Port	Enable SSL
Administrator Account				
Domain Mode and JDK	wsm-cache-server-temp	7100	8100	
Database Configuration Type	8			
Component Datasources				
JDBC Test				
Advanced Configuration				
Administration Server				
Managed Servers				
Clusters				
Server Templates				
Coherence Clusters				
<u>Coherence Clusters</u> <u>Machines</u>				
Machines				
<u>Machines</u> <u>Virtual Targets</u>				
<u>Machines</u> <u>Virtual Targets</u> <u>Partitions</u>				
Machines Virtual Targets Partitions Configuration Summary				
Machines Virtual Targets Partitions Configuration Summary Configuration Progress				

Figure 2-26 Weblogic Domain Creation 13

20. Configure as required and click Next.

Coherence Clusters		
<u>Create Domain</u> Templates		🔊 Dis <u>c</u> ard Chang
Application Location	Cluster Name	Cluster Listen Port
Administrator Account	defaultCoherenceCluster	7574
Domain Mode and JDK		
Database Configuration Type	<u>a</u>	
Component Datasources		
JDBC Test		
Advanced Configuration		
Administration Server		
Managed Servers		
<u>Clusters</u>		
Server Templates		
Coherence Clusters		
Machines		
Virtual Targets		
Partitions		
Configuration Summary		
Configuration Progress		
End Of Configuration		
Help		< Back Next > Finish Car

Figure 2-27 Weblogic Domain Creation 14

21. Configure as required and click Next.

Fusion Middleware Configuration Wiza	ard - Page 15 of 20		- 🗆 X
Machines			
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Managed Servers Clusters Server Templates Coherence Clusters Machines Virtual Targets Partitions Configuration Summary Configuration Progress	Add Xelete	Node Manager Listen Address	Dis <u>c</u> ard Changes Node Manager Listen Port
End Of Configuration			
Help		< Back Nex	t > Einish Cancel

Figure 2-28 Weblogic Domain Creation 15

22. Click Create.



Virtual Targets						
Create Domain	👍 Add 🗶 🕻	<u>D</u> elete		(🔊 Dis <u>c</u> ard C	hanges
Application Location Administrator Account	Name	Target	Host Names	URI Prefix	Explicit Port	Port Offset
Domain Mode and JDK Database Configuration Type						
Component Datasources						
<u>IDBC Test</u> Advanced Configuration						
Administration Server Managed Servers						
<u>Clusters</u> Server Templates						
Coherence Clusters						
Machines Virtual Targets						
Partitions .						
Configuration Progress						
Help			< <u>B</u> ac	k <u>N</u> ext >	Finish	Cancel

Figure 2-29 Weblogic Domain Creation 16

23. Click Next.

Partitions				
Create Domain	X Delete		🗳 Di	s <u>c</u> ard Change
Application Location		Name		
Administrator Account				
Domain Mode and JDK				
Database Configuration Type				
Component Datasources				
JDBC Test				
Advanced Configuration				
Administration Server				
Managed Servers				
Clusters				
Server Templates				
Coherence Clusters				
Machines				
Virtual Targets				
Partitions				
Configuration Summary				
Configuration Progress				
End Of Configuration				
Help		< Back	Next > Finis	Canc

Figure 2-30 Weblogic Domain Creation 17

24. Click Next.

Configuration Summary		
	Name Basic WebLogic Server D Description Create a basic WebLogic Author Oracle Corporation Location /u01/Middleware/Weblog .0 Name Oracle Enterprise Manager .0 Description emasTemplate p.apact Description emasTemplate .0.0) Description This extension template .1.0@ Location /u01/Middleware/Weblog 2.2.1.3.0 Name Oracle WSM Console - C p.apact Description This extension template .0.0212 Name Oracle Corporation Location /u01/Middleware/Weblog Location .0.0212 Name Oracle JRF Description Full JRF Domain Template .0.021.1 Cotion /u01/Middleware/Weblog .0.021.2 Valtor Oracle Corporation .0.021.2 <t< th=""><th>Server ic12cHo jer ic12cHo ore deploy ic12cHo e ic12cHo e</th></t<>	Server ic12cHo jer ic12cHo ore deploy ic12cHo e ic12cHo e

Figure 2-31 Weblogic Domain Creation 18

25. Click Next.

¢	Configuration Progress		Ē
R	Create Domain		
k	Templates	100%	
Y.	Application Location	Copy Unprocessed Artifacts	
9	Administrator Account		
5	Domain Mode and JDK		
1	Database Configuration Type		
	Component Datasources	Post Processing	
1			
	JDBC Test		
1	Advanced Configuration		
Ý	Administration Server		
Ý	Managed Servers		
ų.	Clusters		
ų	Server Templates		
ų.	Coherence Clusters		
Ş.	Machines		
J	Virtual Targets		
	Partitions		
J	Configuration Summary	•	
Ĭ	Configuration Progress		
Ÿ			
•	End Of Configuration		

Figure 2-32 Weblogic Domain Creation 19

26. Click Next.

End Of Configuration	
Create Domain Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Managed Servers Clusters Server Templates Coherence Clusters Machines Virtual Targets Partitions Configuration Summary Configuration Progress	
End Of Configuration	

Figure 2-33 Weblogic Domain Creation 20

27. Once the creation of the Domain is complete, click **Finish** to close the window.



- The "\$MW_HOME/user_projects/domains/<mydomain>" directory contains a script that can be used to start the Admin server.
 - \$ cd \$MW_HOME/user_projects/domains/<mydomain>/bin
 - \$./startWebLogic.sh

If the server is required to be running and access to command line needs to be returned use "nohup" and "&"

\$ nohup ./startWebLogic.sh &

- 29. 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}

If the server is required to be running and access to command line needs to be returned use "nohup" and "&".

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

The recommended parameters for each Managed Server for application and web services are as follows:

```
For managed server where application is deployed:
-Xms8g -Xmx8g -XX:NewRatio=3 -XX:HeapDumpPath=/tmp -
Dweblogic.threadpool.MinPoolSize=40 -Dweblogic.threadpool.MaxPoolSize=150 -
XX:SoftRefLRUPolicyMSPerMB=10 -
Dweblogic.diagnostics.debug.DebugLogger.DISABLED=true -
Dweblogic.management.discover=false -Dweblogic.llr.table.specjdsl=wl llr jent31 1 -
Dweblogic.llr.table.specids2=wl llr jent31 2 -Dsun.net.inetaddr.ttl=0 -
Dnetworkaddress.cache.ttl=0 -XX:AllocatePrefetchDistance=256 -
XX:AllocatePrefetchStyle=1 -XX:+AggressiveOpts -XX:+UseConcMarkSweepGC -
XX:+UseParNewGC -XX:MaxTenuringThreshold=4 -XX:-
UseCMSInitiatingOccupancyOnly -XX:CMSInitiatingOccupancyFraction=60 -
XX:CMSTriggerRatio=60 -XX:+CMSParallelRemarkEnabled -
XX:+UseCMSCompactAtFullCollection -XX:+CMSCompactWhenClearAllSoftRefs -
XX:PrintCMSStatistics=1 -XX:+PrintClassHistogram -XX:-UseParallelGC -
XX:ParallelGCThreads=10 -XX:-TraceClassUnloading -XX:-UseParallelOldGC -
XX:+UseCompressedOops -XX:+UseBiasedLocking -XX:+AlwaysPreTouch -XX:-
UseAdaptiveSizePolicy -Djbo.load.components.lazily=true -
Dibo.ampool.initpoolsize=100 -Dibo.recyclethreshold=200 -
Djbo.ampool.minavailablesize=200 -Djbo.ampool.maxavailablesize=200 -
Djbo.ampool.timetolive=-1 -Djbo.locking.mode=optimistic -
Djbo.doconnectionpooling=true -Djbo.txn.disconnect level=1 -
Dibo.ampool.doampooling=true -Dibo.dofailover=false -
Djbo.ampool.maxinactiveage=3600000 -Djbo.ampool.monitorsleepinterval=360000 -
Doracle.multitenant.enabled=false -
Dweblogic.mdb.message.MinimizeAQSessions=true -
Dweblogic.ejb.container.MDBDestinationPolIIntervalMillis=6000 -
XX:StringTableSize=100003 -XX:ReservedCodeCacheSize=1g -XX:+UseStringCache
-XX:+OptimizeStringConcat -XX:+UnlockCommercialFeatures -XX:+FlightRecorder -
Doracle.adfm.useSharedTransactionForFrame=false
For managed server where web services are deployed:
-Xms8g -Xmx8g -XX:NewRatio=3 -XX:HeapDumpPath=/tmp -
Dweblogic.threadpool.MinPoolSize=40 -Dweblogic.threadpool.MaxPoolSize=150 -
XX:SoftRefLRUPolicyMSPerMB=10 -
Dweblogic.diagnostics.debug.DebugLogger.DISABLED=true -
Dweblogic.management.discover=false -Dweblogic.llr.table.specjdsl=wl llr jent31 1 -
Dweblogic.llr.table.specjds2=wl llr jent31 2 -Dsun.net.inetaddr.ttl=0 -
Dnetworkaddress.cache.ttl=0 -XX:AllocatePrefetchDistance=256 -
XX:AllocatePrefetchStyle=1 -XX:+AggressiveOpts -XX:+UseConcMarkSweepGC -
XX:+UseParNewGC -XX:MaxTenuringThreshold=4 -XX:-
UseCMSInitiatingOccupancyOnly -XX:CMSInitiatingOccupancyFraction=60 -
XX:CMSTriggerRatio=60 -XX:+CMSParallelRemarkEnabled -
```

XX:+UseCMSCompactAtFullCollection -XX:+CMSCompactWhenClearAllSoftRefs - XX:-UseParalleIGC -XX:ParalleIGCThreads=10 -XX:-TraceClassUnloading -XX:-

XX:+AlwaysPreTouch -XX:-UseAdaptiveSizePolicy -Doracle.multitenant.enabled=false -XX:StringTableSize=100003 -XX:ReservedCodeCacheSize=1g -XX:+UseStringCache -XX:+OptimizeStringConcat -XX:+UnlockCommercialFeatures -XX:+FlightRecorder

UseParallelOldGC -XX:+UseCompressedOops -XX:+UseBiasedLocking -

2.3 Creating Metadata Repository

The following section details the steps to create metadata repository.

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

1. Login to Oracle Enterprise Manager 12c console (http://hostname:port/em).

*	Manager Fusion Middleware			
OFSLLREL_domain •			Home Monitoring Diagnostics	
Information Certain functionality on this page i Change Center menu.	s available only when you ov	vn the edit session lock. To obt	Control Logs	
Servers	Administration Serve	r	Environment	
3 Up	Name A	dminServer	Deployments JDBC Data Sources	
	Host of Listen Port 9	fsll.in.oracle.com 001	Messaging Cross Component Wiring	
Clusters	Servers	Persistent Stores	Web Services	
0 > Clusters	View 💌 🎽 Create	XML Entity Caches	Administration	
	Name	OSGi Frameworks	Refresh WebLogic Domain	
Deployments	AdminServer(admin) OFSLL ManagedSer	Mail Sessions Foreign JNDI Providers	Security JNDI Browser	
	WS_ManagedServer	WTC Servers	System MBean Browser	
1 Up		Metadata Repositories	WebLogic Server Administration Cons	ole
-	<	3	Target Sitemap	
		Columns Hidden 34	Target Information	

Figure 2-34 Metadata Repository 1

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

	OFSLLREL_domain	•				<u> </u>	
	UFSLEKEL_UUIIdili	•				<u> </u>	_
_	WebLogic Domain 👻				2	Sep 15, 2017 6:22:12 Pl	M IST
leta	adata Repositorie:	S					
ou cre	eate most Fusion Middlewar	e component schema n	epositories in a database u	using the Repository Creation	Utility. Metadata Service	es (MDS) repositories	can b
eated	f in a database with the Rep tion metadata to the reposite	ository Creation Utility of	or created on disk as file-b	ased repositories. You must r	egister an MDS reposito	ry before you can dep	loy
Data	abase-Based Repositor	ries					
Re	egister Deregister						_
	Beregister						_
1							
	Repository Name	Database Type	Database Name	Schema Name	JNDI Location	Partitio	
	Repository Mame	Database Type	Database Maine	Schema Mame	JNDI Location	Farino	
No F	Repository						
<							>
	es neo co e						
File-	Based Repositories						
Re	egister Deregister						
_		11					
1							
	Repository Name	Directory			D	artition	
	Repository Name	Directory			F	artition	
No F	Repository						
							>

Figure 2-35 Metadata Repository 2

5. Click **Register** button.

OFSLLRE	L_domain	0								M
	ic Domain 👻						Sep 15, 3	2017 6:31:	:32 PM	IST
Information										
The changes ma undo the change		age do not participa	ite in the edit sessi	on. The changes	will be activ	ated and ap	plied immedia	tely. You	canno	ot
			er components and o							
database-based rep	ository is cre	ated using the Repos		To register, input	database co	nnection info	rmation and clic	k Query,	Canc	
e of the Metadata R	oository is cre Repository and	ated using the Repos d click OK button.		To register, input	database co	nnection info	rmation and clic	OK		
database-based rep e of the Metadata R atabase Connec	ository is cre Repository and ction Inform	ated using the Repos d click OK button. nation	itory Creation Utility.	To register, input	database co	nnection info	rmation and clic	ok		
database-based rep e of the Metadata R atabase Connec Database Type	estiony is cre Repository and tion Inform Oracle (ated using the Repos d click OK button. nation	itory Creation Utility.		database co User Name	Ţ	rmation and clic	OK		
database-based rep e of the Metadata R atabase Connec	estiony is cre Repository and tion Inform Oracle (ated using the Repos d click OK button. nation	itory Creation Utility.	*(Ţ	rmation and clic	к Query, ОК		
database-based rep e of the Metadata R atabase Connec Database Type	estiony is cre tepository and tion Inform () Oracle (ofsll.oralce.	ated using the Repos d click OK button. nation	itory Creation Utility.	*(Jser Name Password	sys]	rmation and clic	OK		
database-based rep e of the Metadata R atabase Connec Database Type * Host Name	tion Inform Oracle (ofsll.oralce. 1521	ated using the Repos d click OK button. nation	itory Creation Utility.	*(Jser Name Password	sys]	••	OK		
database-based rep e of the Metadata R atabase Connec Database Type * Host Name * Port	tion Inform Oracle (ofsll.oralce. 1521	ated using the Repos d click OK button.	itory Creation Utility.	*(Jser Name Password	sys]	••	OK		
database-based rep e of the Metadata R atabase Connec Database Type * Host Name * Port	tion Inform Oracle (ofsll.oralce. 1521 OLLDB Query	ated using the Repos d click OK button.	itory Creation Utility.	*(Jser Name Password	sys] SYSDBA	••	<u>ок</u>		

Figure 2-36 Metadata Repository 3

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



OFSLLREL_domai							25-Apr-2018 2	1:29:37 EDT
Information The changes made on this Change Center.	page do not participa	te in the edit sessio	n. The changes	will be activated an	d applied im	mediately. You cannot undo the	e changes from	n the
Register Database-E repository stores information u reated using the Repository Cre	used by Application Serv	er components and o	other applications.	. A metadata reposito n and click Query, the	ory must be n en select one	egistered to be operational. A data of the Metadata Repository and o	abase-based re click OK button	pository is
atabase Connection Info	rmation							
Database Type	Oracle SQL Ser	ver 🔘 IBM DB2 🔘	MySQL	*	User Name	sys		
* Host Name	ofsll.oracle.com				Password			
* Port	1521				Role	SYSDBA V		
* Service Name	OLLDB							
	Query							
Metadata Repository	Is Registered?	Schema Name	Version	Status	Modif	ied Time		
MDS	false	OLL_MDS	12.2.1.3.0	VALID	25-Apr	-2018 07:38:50 EDT		
elected Repository - Sch he selected schema can be reg		already been registe	red.					
* Repository Name	adf							
]					
* Schema Password	200							

Figure 2-37 Metadata Repository 4

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

						0	
	OFSLLREL_domain	0				<u>•</u> •	~
-	🔚 WebLogic Domain 🔻				Dec 5	5, 2019 3:08:33 PM I	IST
ota	data Repositories						
	•						
n be	created in a database with th	ne Repository Creation		sing the Repository Creation s file-based repositories. You			
	ploy application metadata to						
Data	abase-Based Repositor	ies					
Re	gister Deregister						
1			11				-
ž.,							
	Repository Name	Database Type	Database Name	Schema Name	JNDI Loca	tion	Pa
	mds-adf	Oracle	OLL122	OLL_MDS	jdbc/mds/ad	lf	Glo
	4						
ile-	Based Repositories						
Re	gister Deregister						
1							
	Repository Name	Directory				Partition	
	Repository Hume	Directory				1 ur u u u	
	Repository						
No F	Repository						

Figure 2-38 Metadata Repository 5

10. Click Add and target to AdminSever and OFSLL_ManagedServer as on right panel.

2.4 Creating Data Source

The following section details the steps to create data source.

1. Login to WebLogic Server 12c console (http://hostname:port/console).





2. The following window is displayed.

Figure 2-39 Create Data Source 1



0 ORACLE WebLogic Server Administration Console 12c 🔒 Home Log Out Preferences 🔤 Record Help Q Change Center Welcome, weblogic Connected to: OFSLLREL_domain View changes and restarts Home Click the Lock & Edit button to modify, add or delete items in this domain. Home Page Lock & Edit Information and Resources Release Configuration Helpful Tools General Information Configure applications Domain Structure Common Administration Task Descriptions OFSLLREL_domain Configure GridLink for RAC Read the documentation Domain Partitions Data Source Ask a question on My Oracle Support Environment Configure a Dynamic Cluster Deployments Recent Task Status -Services Set your console preferences -Interoperability Oracle Enterprise Manager Diagnostics Domain Configurations Domain Resource Group Templates Interoperability WTC Servers Resource Group Templates Domain Jolt Connection Pools **Domain Partitions** Resource Groups How do I... Domain Partitions Resource Groups Diagnostics Search the configuration Partition Work Managers Log Files • Use the Change Center Deployed Resources Diagnostic Modules Record WLST scripts Deployments • Built-in Diagnostic Modules Environment Change Console preferences Diagnostic Images Servers Manage Console extensions Clusters Request Performance Services Monitor servers Server Templates Archives Messaging Migratable Targets JMS Servers Context SNMP Store-and-Forward Agents System Status Coherence Clusters Machines Interceptors Health of Running Servers as of 6:38 PM JMS Modules Mintual Marte

Figure 2-40 Create Data Source 2

- 3. Click Domain Name > Services > Data Sources.
- 4. The following window is displayed.

Figure 2-41 Create Data Source 3

Change Center		Home Log O	ut Preference	s 🚵 Re	cord Help	Q		
View changes and restarts					Welcome,	weblogic Connected to: OFSLLREL_don		
Click the <i>Lock & Edit</i> button to modify, add	or H	Home >Summary of JDBC Data Sources						
delete items in this domain.	Sur	mmary of JDB	C Data Sourc	es				
Lock & Edit Release Configuration	6	onfiguration	Monitoring					
Oomain Structure						database connectivity through a pool of		
DFSLLREL_domain Domain Partitions DEnvironment Deployments Services	~	connection from	n a data source	a.	k up a data source on the JNDI ource objects that have been cr	tree and then borrow a database		
-Messaging		Customize thi	is table					
- Data Sources Persistent Stor Foreign JND Providers Work Contexts XML Registries	c	Data Sources (Click the <i>Lock &</i> New * Dele	& <i>Edit</i> button i		nns Exist) Inge Center to activate all the b	buttons on this page. Showing 1 to 6 of 6 Previous Next		
Data Sources Persistent Stor Foreign JNDI Providers Work Contexts	c	Click the <i>Lock (</i>	& <i>Edit</i> button i					
Data Sources Persistent Storm) Work Contexts XML Registries XML Registries XML Entity Caches JCOM Mail Sessions	c	Click the Lock I	& <i>Edit</i> button i	n the Cha	inge Center to activate all the b	Showing 1 to 6 of 6 Previous Next		
Data Sources Persistent Stor Work Contexts XML Registries XML Entity Caches JCOM Mail Sessions		Click the Lock I	& <i>Edit</i> button i	n the Cha Type Generic	inge Center to activate all the b	Showing 1 to 6 of 6 Previous Next Targets		
Data Sources Persistent Stor Foreign JNDI Providers Work Contexts XML Entity Caches 		Click the Lock & Deleter &	& <i>Edit</i> button i	n the Cha Type Generic Generic	INDI Name	Showing 1 to 6 of 6 Previous Next Targets AdminServer AdminServer		
Data Sources Persistent Stor Foreign JNDI Providers Work Contexts -XML Entity Caches -JCOM -Mail Gessions 		Click the Lock I New Dele Name LocalSvcT mds-adf	& <i>Edit</i> button i ete	n the Cha Type Generic Generic	JNDI Name jdbc/LocalSvcTblDataSource jdbc/mds/adf	Showing 1 to 6 of 6 Previous Next Targets AdminServer AdminServer AdminServer, OFSLL_ManagedServer,		
Data Sources Dersistent Story Foreign JNDI Providers Work Contexts Create JDBC generic data sources Create JDBC GridLink data sources Create JDBC multi data sources Create UCP data sources		Click the Lock I New Dele Name LocalSvcT mds-adf opss-audit	& <i>Edit</i> button i ate blDataSource CDBDS CviewDS	Type Generic Generic Generic Generic	JNDI Name jdbc/LocalSvcTblDataSource jdbc/Mds/adf jdbc/AuditAppendDataSource	Showing 1 to 6 of 6 Previous Next Targets AdminServer AdminServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer, AdminServer, OFSLL_ManagedServer,		
Data Sources Persistent Storm Foreign JNDI Providers Work Contexts XML Registries XML Entity Caches JCOM		Click the Lock I New Dele LocalSvcT dopss-audit opss-audit opss-audit	& Edit button i ete blDataSource >DBDS +viewDS -source	Type Generic Generic Generic Generic Generic	INDI Name jdbc/LocalSvcTblDataSource jdbc/AuditAppendDataSource jdbc/AuditViewDataSource	Showing 1 to 6 of 6 Previous Next Targets AdminServer AdminServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer AdminServer, OFSLL_ManagedServer,		

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



Figure 2-42 Create Data Source 4

Change Center	🖻 Home Log Out Preferences 🔤 Record Help	
View changes and restarts	Welcome, weblogic Connected to: OFSLI	REL_domain
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Home - Summary of JDBC Data Sources Create a New JDBC Data Source	
Lock & Edit Release Configuration	Back Next Finish Cancel	
Nelease Comiguration	JDBC Data Source Properties	acanactana));==
Domain Structure	The following properties will be used to identify your new JDBC data source.	
DF5LLREL_domain Domain Partitions	* Indicates required fields	
B-Environment Deployments 3-Services	What would you like to name your new JDBC data source?	
Messaging Data Sources	d∰ *Name: OFSLL	
···· Persistent Stores ···· Foreign JNDI Providers	What scope do you want to create your data source in ?	
Work Contexts XML Registries XML Entity Caches	Scope: Global 🗸	
	What JNDI name would you like to assign to your new JDBC Data Source?	
How do I	idbc/ofsllDBConnDS	
Create JDBC generic data sources Create LLR-enabled JDBC data sources		
System Status		
Health of Running Servers as of 7:02 PM	What database type would you like to select?	
Failed (0) Critical (0)	Database Type: Oracle	
Overloaded (0) Warning (0)	Back Next Finish Cancel	

- 6. Enter Data source **Name**, JNDI Name as **jdbc/ofsIIDBConnDS** and select **Oracle** as Database Type.
- 7. Click Next.

Figure 2-43 Create Data Source 5

Change Center	🔓 Home Log Out Preferences 🔛 Record Help	
View changes and restarts	Welcome, weblogic Connected to: OFSLLREL_domain	6
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Home >Summary of JDBC Data Sources Create a New JDBC Data Source	
Lock & Edit Release Configuration	Back Next Finish Cancel	
	JDBC Data Source Properties	
Domain Structure	The following properties will be used to identify your new JDBC data source.	
OFSLIREL_domain DefSLIREL_domain DefDomain Partitions DefDomment Deployments DefMessaging Data Sources Persistent Stores Foreign JNDI Providers Work Contexts XML Registries XML Registries XML Registries XML Registries SCM COM CMAIl Sessions	Database Oracle Type: What database driver would you like to use to create database connections? Note: * indicates that the driver is explicitly supported by Oracle WebLogic Server. Database *Oracle's Driver (Thin) for Instance connections; Versions:Any Database Next Finish Cancel	
How do I	1	
Create JDBC generic data sources Create LLR-enabled JDBC data sources		
System Status	3	
Health of Running Servers as of 7:02 PM		
Failed (0) Critical (0) Overloaded (0) Warning (0)		~

- 8. Select the Database Driver Oracle's Driver(Thin) for Instance connections; Versions:Any as shown above.
- 9. Click Next.



Figure 2-44 Create Data Source 6

Change Center	😰 Home Log Out Preferences 🔤 Record Help
View changes and restarts	Welcome, weblogic Connected to: OFSLLREL_domain
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Home >Summary of JDBC Data Sources Create a New JDBC Data Source
Lock & Edit	Back Next Finish Cancel
Release Configuration	Transaction Options
Domain Structure	You have selected non-XA JDBC driver to create database connection in your new data source.
DFSLLREL_domain Dr Domain Partitions Dr Environment Deployments Dr Services	Does this data source support global transactions? If yes, please choose the transaction protocol for this data source.
Messaging Data Sources Persistent Stores Foreign JNDI Providers Work Contexts	Select this option if you want to enable non-XA JDBC connections from the data source to participate in global transactions using the <i>Logging Last Resource</i> (LLR) transaction optimization. Recommended in place of Emulate Two-Phase Commit.
XML Registries XML Entity Caches jcoM Mail Sessions	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	O Emulate Two-Phase Commit
Create JDBC generic data sources Create LLR-enabled JDBC data sources	Select this option if you want to enable non-XA JDBC connections from the data source to participate in global transactions using the one-phase commit transaction processing. With this option, no other resources can participate in the global transaction.
System Status 💿	One-Phase Commit
Health of Running Servers as of 7:06 PM	Back Next Finish Cancel
Failed (0) Critical (0) Overloaded (0)	
Warning (0)	

10. Click Next.

Figure 2-45	Create Data	Source 7
-------------	-------------	----------

Change Center	A Home Log Out Preferences	Record Help				
View changes and restarts		Welcome, weblogic Connected to: OFSLLREL_domain				
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Home >Summary of JDBC Data					
Lock & Edit	Back Next Finish Ca	ncel				
Release Configuration	Connection Properties					
Domain Structure	Define Connection Properties.					
DFSLLREL_domain Domain Partitions Environment	What is the name of the databas	ie you would like to connect to?				
- Deployments Services	Database Name:	OLLDB				
Messaging Data Sources		What is the name or IP address of the database server?				
Persistent Stores Foreign JNDI Providers Work Contexts	Host Name:	ofsll.oracle.com				
XML Registries	What is the port on the database	e server used to connect to the database?				
jCOM Mail Sessions	Port:	1521				
How do I	What database account user nar	ne do you want to use to create database connections?				
Create JDBC generic data sources Create LLR-enabled JDBC data sources	Database User Name:	OFSLLREL				
	What is the database account pa	assword to use to create database connections?				
Health of Running Servers as of 7:06 PM	Password:	•••••				
Failed (0) Critical (0)	Confirm Password:	•••••				
Overloaded (0) Warning (0)	Additional Connection Properties	1				

11. Enter Database details click **Next**.

Figure 2-46	Create Data Source 8
-------------	----------------------

Change Center		Home Log Out Pro	eferences 🔛 Record	Help	Q	
View changes and restarts					Welcome, weblogic Conn	nected to: OFSLLREL_domain
No pending changes exist. Click the Release		Home >Summary of JI	DBC Data Sources			
Configuration button to allow others to edit domain,	the	Create a New JDBC D	ata Source			
Lock & Edit		Test Configuration	Back Next Fini	Cancel		
Release Configuration		Test Database Con	nection			
Domain Structure		Test the database ava	ailability and the connec	ction properties you pro	vided.	
OFSLLREL_domain	~	What is the full packag	e name of JDBC driver	class used to create dat	tabase connections in the conr	nection pool?
B-Environment Deployments E-Services		(Note that this driver c	lass must be in the clas	sspath of any server to v	which it is deployed.)	
Data Sources Persistent Stores		Driver Class Name:	oracle.jdbc.Oracle	eDriver		
Foreign JNDI Providers		What is the URL of the	database to connect to	o? The format of the UR	L varies by JDBC driver.	
-XML Registries XML Entity Caches		URL:	jdbc:oracle:thin:@	ofsll.oracle.com:15	21:OLLDB	
-jCOM Mail Sessions	~	What database accoun	t user name do you wa	ant to use to create data	base connections?	
How do I	E	Database User Name:	OFSLLREL	×		
Create JDBC generic data sources Create LLR-enabled JDBC data sources		What is the database a	account password to use	e to create database cor	nnections?	
	_	(Note: for secure pass	word management, ent	er the password in the F	Password field instead of the P	Properties field below)
System Status		11 12200 14200 1210 12-12				
Health of Running Servers as of 7:17 PM		Password:	•••••			
Failed (0) Critical (0) Overloaded (0)		Confirm Password:	•••••	••••		
Warning (0) OK (3)		What are the propertie	s to pass to the JDBC o	driver when creating dat	abase connections?	
		Properties:				

12. Click **Test Configuration**.

Change Center	Home Log Out P	references 🔤 Record Help
View changes and restarts		Welcome, weblogic Connected to: OFSLLREL_domai
No pending changes exist. Click the Release Configuration button to allow others to edit the	Home >Summary of . Messages	JDBC Data Sources
domain, Lock & Edit	Connection test s	ucceeded.
Release Configuration	Create a New JDBC	Data Source
Domain Structure	Test Configuration	Back Next Finish Cancel
OFSLLREL_domain	Test Database Co	nnection vailability and the connection properties you provided.
Environment Deployments Services Or Messaging Data Sources	What is the full packa	valiability and the connection properties you provided. Inge name of JDBC driver class used to create database connections in the connection pool?
Persistent Stores Foreign JND1 Providers Work Contexts	Driver Class Name	oracle.jdbc.OracleDriver
XML Registries XML Entity Caches 	What is the URL of th	e database to connect to? The format of the URL varies by JDBC driver.
How do I		
Create JDBC generic data sources	What database accou	nt user name do you want to use to create database connections?
Create LLR-enabled JDBC data sources	Database User Name:	OFSLLREL X
System Status	What is the database	account password to use to create database connections?
Health of Running Servers as of 7:13 PM	(Note: for secure pas	sword management, enter the password in the Password field instead of the Properties field below)
Failed (0) Critical (0) Overloaded (0)	Password:	••••••
Warning (0) OK (3)	Confirm Password	*****

Figure 2-47 Create Data Source 9

13. Displays confirmation message as **Connection test succeeded**. Click **Next**.

Change Center	🟦 Home Log Out Preferences 🔤 Record Help
View changes and restarts	Welcome, weblogic Connected to: OFSLLREL_domain
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Home >Summary of JDBC Data Sources Create a New JDBC Data Source
Lock & Edit Release Configuration	Back Next Finish Cancel
Release Computation	Select Targets
Domain Structure OFSLLREL_domain ⊕-Domain Partitions	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. You will need to deploy the data source at a later time.
Environment	Servers
Deployments El-Services El-Messaging	2 AdminServer
Data Sources Persistent Stores Foreign JNDI Providers	OFSLL_ManagedServer
Work Contexts XML Registries	UWS_ManagedServer
-XML Entity Caches 	Back Next Finish Cancel
How do I	
Create JDBC generic data sources	
Create LLR-enabled JDBC data sources	
System Status	
Health of Running Servers as of 7:21 PM	
Failed (0)	
Critical (0) Overloaded (0)	
Warning (0)	
OK (3)	

Figure 2-48 Create Data Source 10

 Select target Servers AdminServer and OFSLL_ManagedServer and click Finish. The following window is displayed.

Figure 2-49 Create Data Source 11

Change Center	Hom	e Log Out Preference	s 🚵 Re	cord Help	Q	
View changes and restarts				1	Velcome, weblogic	Connected to: OFSLLREL_don
Click the <i>Lock & Edit</i> button to modify, add or delete items in this domain.	Message			restarts are necessary.		
Release Configuration	Carrier	y of JDBC Data Sour	A PROPERTY A	restarts are necessary.		
omain Structure	Configu	uration Monitoring				
H-Domain Partitions H-Environment -Deployments Services H-Messeging -Data Sources	connectsource	ctions. Applications can	look up a	to the JNDI tree that provides data source on the JNDI tree a ource objects that have been cr	and then borrow a da	tabase connection from a data
Persistant Stores Poreign JNDI Providers Work Contexts XML Registries XML Entity Caches GOM Mail Sessions	Data S			nns Exist) ange Center to activate all the b		wing 1 to 7 of 7 Previous Next
Foreign JNDI ProvidersWork Contexts	Data S Click th	ources (Filtered - Me e <i>Lock & Edit</i> button		1		wing 1 to 7 of 7 Previous Next
Foreign JNDI Providers Work Contexts XML Registries XML Entity Caches JCOM Mail Sessions	Data S Click th	ources (Filtered - Me e <i>Lock & Edit</i> button	in the Cha	ange Center to activate all the b	Sho	wing 1 to 7 of 7 Previous Next
Foreign JNDI Providers Work Contexts XML Registries XML Entity Caches jCOM Mail Sessions cow do I Create JDBC generic data sources Create JDBC GridLink data sources	Data S Click th	iources (Filtered - Me le <i>Lock & Edit</i> button Delete Name 🐟	in the Cha Type Generic	ange Center to activate all the b	Sho	wing 1 to 7 of 7 Previous Next
Foreign JNDI Providers	Data S Click th New	Iources (Filtered - Mo e <i>Lock & Edit</i> button Delete Name & ocalSvcTb/DataSource	in the Cha Type Generic Generic	ange Center to activate all the b JNDI Name jdbc/LocalSvcTblDataSource	Sho Targets AdminServer	
Foreign JNDI Providers	Data S Click th New	ources (Filtered - M. e <i>Lock & Edit</i> button P Delete Name & ocalSvcTbiDataSource nds-adf	Type Generic Generic Generic	INDI Name jdbc/LocalSvcTblDataSource jdbc/mds/adf	Sho Targets AdminServer AdminServer	L_ManagedServer
Foreign JNDI Providers Work Contexts XML Registries XML Entity Caches - GOM - Mail Seecions ow do L Create JDBC generic data sources Create JDBC GridLink data sources Create JDBC multi data sources Create JDBC multi data sources Create UCP data sources Create Proxy data sources	Data S Click th New C	iources (Filtered - Mi e Lock & Edit button P Delete Name & ocalSvcTblDataSource nds-adf VFSLL	Type Generic Generic Generic Generic	JNDI Name jdbc/LocalSvcTblDataSource jdbc/docalSvcTblDataSource jdbc/mds/adf jdbc/ofslIDBConnDS	Sho Targets AdminServer AdminServer AdminServer, OFSLI AdminServer, OFSLI	L_ManagedServer L_ManagedServer, L_ManagedServer,
Foreign JNDI Providers Work Contexts -XML Registries -XML Entity Caches -JCOM -Mail Sestions ow do L Entity Caches -JCOM -Mail Sestions ow do L Entity Caches -Create JDBC generic data sources Create JDBC GridLink data sources Create JDBC multi data sources Create JDBC multi data sources Create Proxy data sources	Data S Click th New Click th L L C C C	iources (Filtered - Mi e Lock & Edit button Delete tame & ocalSvcTblDataSource nds-adf IFSLL pss-audit-DBDS	Type Generic Generic Generic Generic Generic	JNDI Name jdbc/LocalSvcTblDataSource jdbc/nds/adf jdbc/AuditAppendDataSource	Sho Targets AdminServer AdminServer, OFSLI AdminServer, OFSLI ViS_ManagedServer AdminServer, OFSLI	L_ManagedServer L_ManagedServer, L_ManagedServer, L_ManagedServer,

15. Click Activate Changes on the left panel.

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.

Note:

User Authentication and Management is outside of Oracle Financial Services Lending and Leasing application. Organizations can use an LDAP implementation for authentication. For Development and Testing purpose, the following sections can be configured for authentication:

- 3.5 Creating SQL Authentication Provider
- 3.6 Creating User Groups and Users
- 3.7 Implementing JMX Policy for Change Password



- 4.1 Configuring Password Policy for SQL Authenticator
- 4.2 Configuring User Lockout Policy

2.5 Creating SQL Authentication Provider

The following section details the steps to create SQL authentication provider.

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

Change Center	Home Log Out Preferences	s 🚵 Record Help	Q	
View changes and restarts		Welcome,	weblogic Connected to:	OFSLLREL_dor
Click the Lock & Edit button to modify, add o	Home >Summary of JDBC Data So	ources >Summary of Security Realms		
delete items in this domain.	Summary of Security Realms			
Lock & Edit		for the mechanismsincluding users, gr ed to protect WebLogic resources, You c		
Domain Structure		ut only one can be set as the default sec		
OFSLLREL_domain	This Security Realms page list	s each security realm that has been conf o explore and configure that realm.	igured in this WebLogic Se	rver domain.
Security Realms	Customize this table			
Interoperability Diagnostics	Realms (Filtered - More Col	lumns Exist)		
	Click the Lack & Edit button in	n the Change Center to activate all the b		
	CIICK CIE LOCA & LOR DUCOT	n the change center to activate all the b	uttons on this page.	
	New Delete	n the Change Center to activate all the b	uttons on this page. Showing 1 to 1 of 1	Previous Next
		Default Realm	1041 - 10 - 1041 - 1021 - 10	Previous Next
New do T	New Delete		1041 - 10 - 1041 - 1021 - 10	Previous Next
	New Delete	Default Realm	1041 - 10 - 1041 - 1021 - 10	
Configure new security realms	New Delete	Default Realm	Showing 1 to 1 of 1	
How do I • Configure new security realms • Enable automatic realm restart	New Delete	Default Realm	Showing 1 to 1 of 1	
 Configure new security realms Enable automatic realm restart Delete security realms 	New Delete	Default Realm	Showing 1 to 1 of 1	
Configure new security realms	New Delete	Default Realm	Showing 1 to 1 of 1	
 Configure new security realms Enable automatic realm restart Delete security realms Change the default security realm 	New Delete	Default Realm	Showing 1 to 1 of 1	
Configure new security realms Enable automatic realm restart Delete security realms Change the default security realm System Status	New Delete Name nyrealm New Delete	Default Realm	Showing 1 to 1 of 1	
 Configure new security realms Enable automatic realm restart Delete security realms 	New Delete Name nyrealm New Delete	Default Realm	Showing 1 to 1 of 1	

Figure 2-50 SQL Authentication 1

2. Click myrealm on right panel.

Change Center	Home	Log Out Preference	ces 📐 Ri	ecord Help			Q		
View changes and restarts					w	Velcome	, weblogic	Connected to	: OFSLLREL_0
Click the Lock & Edit button to modify, add or	Home >Sur	nmary of JDBC Data	Sources >S	Summary of Se	curity Rea	alms >my	realm		
delete items in this domain.	Settings for	r myrealm							
Lock & Edit Release Configuration	Configura	tion Users and	Groups	Roles and Po	licies	Credenti	al Mappings	Providers	Migration
	General	RDBMS Security	Store U	Jser Lockout	Perform	mance			
Domain Structure	distant	Lacht	and the set						
DFSLLREL_domain - Domain Partitions - Environment	Save	Lock & Edit buttor	n in the Ch	hange Center	to modify	y the set	tings on this p	age.	
 Services Security Realms Interoperability 	Note:	page to configure t	the general	l behavior of t	this secur	rity realn	n. (
Ð-Diagnostics	3	f you are implemer SR 115), you must nd the security fur	t use the D	D Only securi Web applicat	ty model.	. Other \	VebLogic Serv the Administra	ver models ar ation Console	e not available
Diagnostics): a	SR 115), you must nd the security fur	t use the D nctions for	D Only securi Web applicat	ty model.	. Other \	NebLogic Serv the Administra The name of Info Specifies the applications	ver models ar ation Console this security default secu or EJBs that : m. You can o	re not available are disabled. realm. More rity model for W are secured by t verride this defa
) a Name:	SR 115), you must nd the security fur	t use the D nctions for myrealm	DOnly securi Web applicat	ty model.	. Other \	NebLogic Sen the Administra The name of Info Specifies the applications security real during deplo Determines I Enterprise A EDB containe	ver models ar tition Console this security default secu or EBs that m. You can o yment. Mor now the role opplications, W is interact. a splications d security mo	e not available are disabled. realm. More rity model for W are secured by to verride this defa e Info mappings in the eb application, a and EJBs that u del and that ment

Figure 2-51 SQL Authentication 2

3. Click on **Providers tab**.

Change Center	B Home Lo	g Out Preferences 渣	Record Help		Q		
View changes and restarts				Wel	come, weblogic	Connected	to: OFSLLREL_dom
No pending changes exist. Click the Release	Home >Summ	ary of JDBC Data Source	as >Summary of Security	Realms >myrealm	i >Summary of Seci	urity Realms >	myrealm > Providers
Configuration button to allow others to edit the domain.	Settings for n	nyrealm					
Lock & Edit	Configuration	Users and Groups	Roles and Policies	Credential Map	pings Provide	rs Migratio	n
Release Configuration	Authenticat	tion Password Valid	ation Authorization	Adjudication	Role Mapping	Auditing	Credential Mapping
Domain Structure	Certification	Path					
Security Realms Interoperability Diagnostics	Customize	this table tion Providers					
	New, De	lete			Sho	wing 1 to 3 o	f 3 Previous Next
	New De		Desc	ription	Sho	wing 1 to 3 o	f 3 Previous Next
How do T			7	(f)	Sho Assertion Provider	-	
	Name		er Trust	(f)	Assertion Provider	-	Version
	Name Trust 9 Defaul	e Service Identity Assert	er Trust WebL	Service Identity /	Assertion Provider on Provider	-	Version 1.0
 Configure authentication and identity assertion providers 	Name Trust 9 Defaul Defaul	service Identity Assert	er Trust WebL	Service Identity / ogic Authenticatio	Assertion Provider on Provider ertion provider		Version 1.0 1.0
Configure authentication and identity	Name Trust 9 Defaul Defaul	Service Identity Assert tAuthenticator	er Trust WebL	Service Identity / ogic Authenticatio	Assertion Provider on Provider ertion provider		Version 1.0 1.0 1.0
Configure authentication and identity assertion providers Configure the Password Validation provider Manage security providers Set the JAAS control flag	Name Trust 9 Defaul Defaul	Service Identity Assert tAuthenticator	er Trust WebL	Service Identity / ogic Authenticatio	Assertion Provider on Provider ertion provider		Version 1.0 1.0 1.0
Configure authentication and identity assertion providers Configure the Password Validation provider Manage security providers Set the JAAS control flag	Name Trust 9 Defaul Defaul	Service Identity Assert tAuthenticator	er Trust WebL	Service Identity / ogic Authenticatio	Assertion Provider on Provider ertion provider		Version 1.0 1.0 1.0
Configure authentication and identity assertion providers Configure the Password Validation provider Manage security providers Set the JAAS control flag Re-order authentication providers	Name Trust 9 Defaul Defaul	Service Identity Assert tAuthenticator	er Trust WebL	Service Identity / ogic Authenticatio	Assertion Provider on Provider ertion provider		Version 1.0 1.0 1.0
Configure authentication and identity assertion providers Configure the Password Validation provider Manage security providers Set the JAAS control flag Re-order authentication providers	Name Trust 9 Defaul Defaul	Service Identity Assert tAuthenticator	er Trust WebL	Service Identity / ogic Authenticatio	Assertion Provider on Provider ertion provider		Version 1.0 1.0 1.0
Configure authentication and identity assertion providers Configure the Password Validation provider Manage security providers Set the JAAS control flag Re-order authentication providers System Status	Name Trust 9 Defaul Defaul	Service Identity Assert tAuthenticator	er Trust WebL	Service Identity / ogic Authenticatio	Assertion Provider on Provider ertion provider		Version 1.0 1.0 1.0

Figure 2-52 SQL Authentication 3

4. Click Lock & Edit to unlock the screen and click New button in Authentication Providers sub tab.

ORACLE WebLogic Server A	
Change Center	🔒 Home Log Out Preferences 🔤 Record Help
View changes and restarts	Welcome, weblogic Connected to: OFSLLREL_domain
No pending changes exist. Click the Release	Home >Summary of JDBC Data Sources >Summary of Security Realms >myrealm >Summary of Security Realms >myrealm >Providers
Configuration button to allow others to edit the domain.	Create a New Authentication Provider
Lock & Edit	OK Cancel
Release Configuration	Create a new Authentication Provider
Oomain Structure	The following properties will be used to identify your new Authentication Provider.
DFSLLREL_domain	* Indicates required fields
Domain Partitions Environment	-AUTROL 144-20072020
Deployments	The name of the authentication provider.
Services Security Realms	* Name: OFSLLDBAuthenticator
+)-Interoperability	
Diagnostics	This is the type of authentication provider you wish to create.
	Type: SQLAuthenticator
	OK
How do I 🗉	" ¹
 Manage security providers 	
 Configure authentication and identity 	
assertion providers	
System Status 🗉	1
Health of Running Servers as of 7:33 PM	
Failed (0)	
Critical (0)	
Overloaded (0) Warning (0)	
OK (3)	

Figure 2-53 SQL Authentication 4

- 5. Create Authentication provider with following values:
 - Name: OFSLLDBAuthenticator
 - Type: SQLAuthenticator
- 6. Click OK.



Change Center	1 1	Hom	ne Log Or	ut Preferences 📐	Record Hel			Q			
View changes and restarts							Wel	come,	weblogic	Connected	to: OFSLLREL_don
Pending changes exist. They must be activate	6	Home >	Summary	of JDBC Data Source	s >Summary of	Security	Realms >myrealm	>Sum	nary of Secur	ity Realms >	myrealm > Providers
to take effect.	Se	ttings	for myre	ealm							
Activate Changes		Configu	ration	Users and Groups	Roles and F	olicies	Credential Map	pings	Providers	Migratio	on
Undo All Changes			ntication	Password Valid	arte a la arte	rization	Adjudication	- Posta		Auditing	Credential Mapping
Iomain Structure					ation Autho	nzation	Adjudication	Role	Mapping	Auditing	Credential Mapping
FSLLREL domain		Certific	ation Path	1							
+)-Diagnostics	- D										
	110		ntication	s table Providers					Show	ing 1 to 4 c	of 4 Previous Next
	110	Authe	ntication	Providers		Descrip	tion		Show	ing 1 to 4 c	of 4 Previous Next Version
low do I	110	Authe New	ntication Delete	Providers	er	- 6	ition rvice Identity As	sertion		ing 1 to 4 c	
		Authe New	ntication	Providers	ŧr	Trust Se			Provider	ing 1 to 4 c	Version
 Configure authentication and identity assertion providers 		Authe New	ntication Delete Name Frust Serv DefaultAut	Providers	er	Trust Se WebLog	rvice Identity As	Provid	Provider er	ing 1 to 4 c	Version 1.0
Configure authentication and identity assertion providers Configure the Password Validation provider		Authe	ntication Delete Name Frust Serv DefaultAut	Providers	er	Trust Se WebLog WebLog	rvice Identity As ic Authentication	Providi ion pro	Provider er vider		Version 1.0 1.0
Configure authentication and identity assertion providers Configure the Password Validation provider Manage security providers		Authe	ntication Delete Name Frust Serv DefaultAut DefaultIde DFSLLDBA	Providers Reorder Ice Identity Asserter henticator ntityAsserter uthenticator	er	Trust Se WebLog WebLog	rvice Identity As ic Authentication ic Identity Assert	Providi ion pro	Provider er vider thentication		Version 1.0 1.0 1.0 1.0 1.0 1.0
Configure authentication and identity assertion providers Configure the Password Validation provider Manage security providers Set the JAAS control flag		Authe	ntication Delete Name Trust Serv DefaultAut DefaultAut DefaultIde	Providers Reorder Ice Identity Asserter henticator ntityAsserter uthenticator	tr	Trust Se WebLog WebLog	rvice Identity As ic Authentication ic Identity Assert	Providi ion pro	Provider er vider thentication		Version 1.0 1.0 1.0
Configure authentication and identity assertion providers Configure the Password Validation provider Manage security providers Set the JAAS control flag		Authe	ntication Delete Name Trust Serv DefaultAut DefaultAut DefaultIde	Providers Reorder Ice Identity Asserter henticator ntityAsserter uthenticator	if	Trust Se WebLog WebLog	rvice Identity As ic Authentication ic Identity Assert	Providi ion pro	Provider er vider thentication		Version 1.0 1.0 1.0 1.0 1.0 1.0
Configure authentication and identity assertion providers Configure the Password Validation provider Manage security providers Set the JAAS control flag Re-order authentication providers		Authe	ntication Delete Name Trust Serv DefaultAut DefaultAut DefaultIde	Providers Reorder Ice Identity Asserter henticator ntityAsserter uthenticator	i i	Trust Se WebLog WebLog	rvice Identity As ic Authentication ic Identity Assert	Providi ion pro	Provider er vider thentication		Version 1.0 1.0 1.0 1.0 1.0 1.0
Configure authentication and identity assertion providers Configure the Password Validation provider Manage security providers Set the JAAS control flag Re-order authentication providers System Status		Authe	ntication Delete Name Trust Serv DefaultAut DefaultAut DefaultIde	Providers Reorder Ice Identity Asserter henticator ntityAsserter uthenticator	it	Trust Se WebLog WebLog	rvice Identity As ic Authentication ic Identity Assert	Providi ion pro	Provider er vider thentication		Version 1.0 1.0 1.0 1.0 1.0 1.0
Configure authentication and identity assertion providers Configure the Password Validation provider Manage security providers Set the JAAS control flag Re-order authentication providers		Authe	ntication Delete Name Trust Serv DefaultAut DefaultAut DefaultIde	Providers Reorder Ice Identity Asserter henticator ntityAsserter uthenticator	it	Trust Se WebLog WebLog	rvice Identity As ic Authentication ic Identity Assert	Providi ion pro	Provider er vider thentication		Version 1.0 1.0 1.0 1.0 1.0 1.0

Figure 2-54 SQL Authentication 5

7. Click on Activate Changes.

Change Center	🔒 н	lome Log O	ut Preferences 渣	Record Help		Q		
View changes and restarts					We	come, weblogic	Connected	to: OFSLLREL_dom
Pending changes exist. They must be activated	Hom	ie >Summary	of JDBC Data Source	s >Summary of Secu	ity Realms >myrealn	Summary of Security of Security 1 - Summary 1 - Sum	rity Realms :	>myrealm > Providers
to take effect.	Settin	igs for myr	ealm					
Activate Changes	Confi	iguration	Users and Groups	Roles and Policies	s Credential Map	pings Provider	s Migrati	ion
Undo All Changes	Aut	hentication	Password Valid	ation Authorizatio	on Adjudication	Role Mapping	Auditing	Credential Mapping
Domain Structure	1	ification Path			in hajaaraatan	noie napping	- House and	Creating rapping
Diagnostics	1	stomize thi						
		ew. Delete	Reorder	Desc	rintion	Shoi	wing 1 to 4	of 4 Previous Next
How do I		ew Delete	- 1		ription			
		w Delete	Reorder	Provi	r iption der that performs D .ogic Authenticatior	BMS authenticatio		Version
		Name OFSLLDBA DefaultAut	Authenticator	Provid	der that performs D ogic Authentication	BMS authenticatio Provider		Version 1.0
Configure authentication and identity assertion providers Configure the Password Validation provider		Delete Name OFSLLDBA DefaultAut DefaultIde	Reorder	Provi WebL WebL	der that performs D	BMS authenticatio Provider tion provider		Version 1.0 1.0
Configure authentication and identity		Delete Name OFSLLDBA DefaultAut DefaultIde	Authenticator thenticator entityAsserter rice Identity Asserte	Provi WebL WebL	der that performs D .ogic Authenticatior .ogic Identity Asser	BMS authenticatio Provider tion provider sertion Provider	n	Version 1.0 1.0 1.0
Configure authentication and identity assertion providers Configure the Password Validation provider Manage security providers Set the JAAS control flag		Delete Name OFSLLDBA DefaultAut DefaultIde Trust Serv	Authenticator thenticator entityAsserter rice Identity Asserte	Provi WebL WebL	der that performs D .ogic Authenticatior .ogic Identity Asser	BMS authenticatio Provider tion provider sertion Provider	n	Version 1.0 1.0 1.0 1.0 1.0 1.0
Configure authentication and identity assertion providers Configure the Password Validation provider Manage security providers Set the JAAS control flag		Delete Name OFSLLDBA DefaultAut DefaultIde Trust Serv	Authenticator thenticator entityAsserter rice Identity Asserte	Provi WebL WebL	der that performs D .ogic Authenticatior .ogic Identity Asser	BMS authenticatio Provider tion provider sertion Provider	n	Version 1.0 1.0 1.0 1.0 1.0 1.0
Configure authentication and identity assertion providers Configure the Password Validation provider Manage security providers Set the JAAS control flag Re-order authentication providers		Delete Name OFSLLDBA DefaultAut DefaultIde Trust Serv	Authenticator thenticator entityAsserter rice Identity Asserte	Provi WebL WebL	der that performs D .ogic Authenticatior .ogic Identity Asser	BMS authenticatio Provider tion provider sertion Provider	n	Version 1.0 1.0 1.0 1.0 1.0 1.0

Figure 2-55 SQL Authentication 6

Authentication order should be maintained as mentioned in the above screen. 'OFSLLDBAuthenticator' will be displayed as above.

8. Click on OFSLLDBAuthenticator.

Change Center	🔒 Home Log Out 🖡	Preferences 🔤 Record Help	Q
View changes and restarts		w	Velcome, weblogic Connected to: OFSLLREL_domai
No pending changes exist. Click the Release	Home >Providers >Su	mmary of Services >Summary of Security Realms >myre	alm >Providers >OFSLLDBAuthenticator
Configuration button to allow others to edit the domain.	Settings for OFSLLD	BAuthenticator	
Lock & Edit	Configuration Pe	erformance	
Release Configuration	Common Provide	er Specific	
Domain Structure	Save		
DFSLLREL_domain D-Dmain Partitions D-Environment Deployments D-Services	This page displays I Control Flag to cont	basic information about this SQL Authentication pro trol how this provider is used in the login sequence.	vider. You can also use this page to set the JAAS
Security Realms 	街 Name:	OFSLLDBAuthenticator	The name of this SQL Authentication provider. More Info
	description:	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
How do I	Control Flag:		Specifies how this SQL Authentication provider fits into the login sequence, More Info
 Configure authentication and identity assertion providers 	Save		
Set the JAAS control flag			
Configure the Password Validation provider Manage security providers			
Manage security providers	J		
System Status 🛛	1		
Health of Running Servers as of 8:01 PM			
Failed (0)			
Critical (0)			
Overloaded (0)			

Figure 2-56 SQL Authentication 7

- 9. Select **SUFFICIENT** as the Control Flag and click **Save**.
- **10.** Click **Provider Specific** sub tab under Configuration tab.

The following window is displayed.



Change Center	🔒 Home Log Out Preferences 🖂	Record Help	Q							
View changes and restarts			Welcome, weblogic Connected to: OFSLLREL_dom:							
Pending changes exist. They must be activated	Home >Providers >Summary of Services	>Summary of Security Realms >	myrealm >Providers >OFSLLDBAuthenticator							
to take effect.	Settings for OFSLLDBAuthenticato	Settings for OFSLLDBAuthenticator								
Activate Changes Undo All Changes	Configuration Performance									
Childe Par Changes	Common Provider Specific									
Domain Structure DFSLLREL_domain	Save									
Domain Partitions Deployments	Use this page to define the provider	specific configuration of this S	QL Authentication provider.							
Services Security Realms Interoperability	Identity Domain:		The name of the identity domain. More Info							
Ð-Diagnostics	Plaintext Passwords Enabled		Specifies whether plaintext passwords are allowed to be used. More Info							
	Data Source Name:	OFSLL	The name of the JDBC data source used for database access. More Info							
How do I	Group Membership Searching:	unlimited 🔽	Specifies whether recursive group membership searching is unlimited or limited. Valid values a unlimited andlimited. More Info							
Configure authentication and identity assertion providers Manage security providers	Max Group Membership Search Level:	0	This specifies how many levels of group membership can be searched. This setting is valid							
System Status			only if Group Membership Searching is set to limited, Valid values are 0 and positive integers. For example, 0 indicates only direct group memberships will be found, a positive number							
Health of Running Servers as of 8:03 PM			indicates the number of levels to go down. More Info							
Failed (0) Critical (0) Overloaded (0)	Password Style Retained		Controls how a password is stored in the database when updating an existing user's password. More Info							
Warning (0) OK (1)	Password Algorithm:	SHA-512	The message digest algorithm used to hash passwords for storage. The name is a standard							

Figure 2-57 SQL Authentication 8

- **11.** Specify the following values in corresponding fields:
 - Data Source Name: OFSLL
 - 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.

Table 2-1 SQL Queries

Operation	Default SQL Query from Weblogic	Corresponding SQL Queries as per our Tables
SQL Get Users Password:	SELECT U_PASSWORD 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 = ?



Operation	Default SQL Query from Weblogic	Corresponding SQL Queries as per our Tables			
SQL List Users:	SELECT U_NAME FROM USERS WHERE U_NAME LIKE ?	SELECT UAU_USR_CODE FROM USER_AUTHORISATIONS WHERE UAU_USR_CODE LIKE ?			
SQL Create User:	INSERT INTO USERS VALUES (?,?,?)	INSERT INTO USER_AUTHORISATIONS(UA U_USR_CODE, UAU_USR_PASSWORD,UAU_ DESC) VALUES(?,?,?)			
SQL Remove User:	DELETE FROM USERS WHERE U_NAME = ?	DELETE FROM USER_AUTHORISATIONS 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_GROU P_CODE,UGR_GROUP_DESC) VALUES(?,?)			
SQL Remove Group:	DELETE FROM GROUPS WHERE G_NAME = ?	DELETE FROM USER_GROUPS WHERE UGR_GROUP_CODE = ?			
SQL Is Member:	SELECT G_MEMBER FROM GROUPMEMBERS WHERE G_NAME = ? AND G_MEMBER = ?	SELECT UGM_MEMBER_USR_CODE FROM USER_GROUP_MEMBERS WHERE UGM_MEMBER_GROUP_COD E= ? AND UGM_MEMBER_USR_CODE = ?			
SQL List Member Groups:	SELECT G_NAME FROM GROUPMEMBERS WHERE G_MEMBER = ?	SELECT UGM_MEMBER_GROUP_COU E FROM USER_GROUP_MEMBERS WHERE UGM_MEMBER_USR_CODE= ?			
SQL List Group Members:	SELECT G_MEMBER FROM GROUPMEMBERS WHERE G_NAME = ? AND G_MEMBER LIKE ?	SELECT UGM_MEMBER_USR_CODE FROM USER_GROUP_MEMBERS WHERE UGM_MEMBER_GROUP_COI E= ? AND UGM_MEMBER_USR_CODE LIKE ?			

Table 2-1	(Cont.) SQI	_ Queries
-----------	-------------	-----------



Operation	Default SQL Query from Weblogic	Corresponding SQL Queries as per our Tables
SQL Remove Group Memberships:	DELETE FROM GROUPMEMBERS WHERE G_MEMBER = ? OR G_NAME = ?	DELETE FROM USER_GROUP_MEMBERS WHERE UGM_MEMBER_USR_CODE= ? OR UGM_MEMBER_GROUP_COD E= ?
SQL Add Member To Group:	INSERT INTO GROUPMEMBERS VALUES(?, ?)	INSERT INTO USER_GROUP_MEMBERS (UGM_MEMBER_GROUP_CO DE,UGM_MEMBER_USR_CO DE) VALUES(?,?)
SQL Remove Member From Group:	DELETE FROM GROUPMEMBERS WHERE G_NAME = ? AND G_MEMBER = ?	DELETE FROM USER_GROUP_MEMBERS WHERE UGM_MEMBER_GROUP_COD E= ? AND UGM_MEMBER_USR_CODE= ?
SQL Remove Group Member:	DELETE FROM GROUPMEMBERS WHERE G_NAME = ?	DELETE FROM USER_GROUP_MEMBERS WHERE UGM_MEMBER_GROUP_COD E= ?
SQL Get User Description:	SELECT U_DESCRIPTION FROM USERS WHERE U_NAME = ?	SELECT UAU_DESC FROM USER_AUTHORISATIONS WHERE UAU_USR_CODE = ?
SQLSet User Description:	UPDATE USERS SET U_DESCRIPTION = ? WHERE U_NAME = ?	UPDATE USER_AUTHORISATIONS SET UAU_DESC= ? WHERE UAU_USR_CODE= ?
SQL Get Group Description:	SELECT G_DESCRIPTION FROM GROUPS WHERE G_NAME = ?	SELECT UGR_GROUP_DESC FROM USER_GROUPS WHERE UGR_GROUP_CODE= ?
SQL Set Group Description:	UPDATE GROUPS SET G_DESCRIPTION = ? WHERE G_NAME = ?	UPDATE USER_GROUPS SET UGR_GROUP_DESC= ? WHERE UGR_GROUP_CODE= ?
Provider Name	OFSLLDBAuthenticator	

Table 2-1 (Cont.) SQL Queries

		member being added. More mio
SQL Remove Member From Group:	EMBER_USR_CODE= ?	The SQL statement used to remove a member from a group. The SQL statement requires two parameters: the group name and the group member being deleted from the group. More Info
SQL Remove Group Member:	DELETE FROM USER_(The SQL statement used to remove a member from a group. The SQL statement requires a single parameter: the username or group name being removed. More Info
Descriptions Supported		Indicates whether user and group descriptions are supported by the database used by the authentication provider. More Info
SQL Get User Description:	E UAU_USR_CODE = ?	The SQL statement used to retrieve the description of a specific user. Only valid if Descriptions Supported is enabled. The SQL statement requires a single parameter for the usemame and must return a resultSet containing at most a single record containing the user description. More Info
SQLSet User Description:	RE UAU_USR_CODE= ?	
SQL Get Group Description:	JGR_GROUP_CODE= ?	The SQL statement used to retrieve the description of a group. Only valid if Descriptions Supported is enabled. The SQL statement requires a single parameter for the group name and must return a resultSet containing at most single record containing the group description. More Info
SQL Set Group Description:	JGR_GROUP_CODE= ?	The SQL statement used to specify a description for a group. Only valid if Descriptions Supporter attribute is enabled. The SQL statement require two parameters: the group description and the group name. More Info

Figure 2-58 SQL Authentication 9

12. Click Save.

Note:

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

2.6 Creating User Groups and Users

The following section details the steps to create user groups and users.

- Creating Users
- Creating User Groups
- Assigning Users to Groups
- Resetting password via weblogic console

2.6.1 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.



Login as application schema owner and run the script crt_app_user.sql script to create OFSLL application user.

Figure 2-59 User group Script

SQL*Plus: Release 12.1.0.2.0 Production on Sat Sep 16 10:35:29 2017

Copyright (c) 1982, 2014, Oracle. All rights reserved.

```
Enter user-name: OFSLLREL
Enter password:
Last Successful login time: Sat Sep 16 2017 10:38:03 +05:30
Connected to:
Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production
With the Partitioning, OLAP, Advanced Analytics and Real Application Testing options
SQL> @crt_app_user.sql
Enter the name of the OFSLL App user Id you
Want to create user: DEMOSUPR
Enter the First Name for this user: DEMO
Enter the Last Name for this user: SUPR
Enter the Phone Number for this user: 9997778886
Enter the Fax Number for this user: 6655544422
1 row created.
1 row created.
1 row created.
SQL> commit;
```

Commit complete.

SQL>	

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



Figure 2	2-60	User	group	1
----------	------	------	-------	---

Change Center	🔒 Home Log Out Preferences 🔤	Record Help	Q	
View changes and restarts		Weld	come, weblogic Connected to: OFSLLREL	_domai
lick the <i>Lock & Edit</i> button to modify, add or	Home >Summary of Security Realms			
elete items in this domain.	Summary of Security Realms			
Lock & Edit				
Release Configuration	A security realm is a container for th	e mechanismsincluding users, group	s, security roles, security policies, and securi	ty
omain Structure	domain, but only one can be set as t	/ebLogic resources. You can have mul he default security realm, which is res	ltiple active security realms in a WebLogic Se served for domain administrative purposes.	rver
FSLLREL_domain Domain Partitions Environment Deployments	This Security Realms page lists each name of the realm to explore and co	security realm that has been configur nfigure that realm.	ed in this WebLogic Server domain. Click the	
Services	Customize this table			
Security Realms	Realms (Filtered - More Columns	Exist)		
Interoperability Diagnostics		Change Center to activate all the butto	ons on this page.	
	Landson and Landson and Landson			
	New Delete		Showing 1 to 1 of 1 Previous	Next
	🔲 Name 🏟	Default Realm		
	myrealm	true		
ow do I E	New Delete		Showing 1 to 1 of 1 Previous	Next
Configure new security realms				
Enable automatic realm restart				
Delete security realms				
Change the default security realm				
ystem Status	1			
ealth of Running Servers as of 10:49 AM				
Failed (0)				
Critical (0)				
Overloaded (0)				
Warning (0)				

- 4. Select **Users** tab under Users and Groups.
- 5. 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	Hor	me Log Ou	it Preferences 📐 🕅	Record Help	Q			
View changes and restarts					Welcome, v	weblogic Conne	ected to: OFSLLREL_doma	
Click the Lock & Edit button to modify, add or	Home	>Summary (of Security Realms >my	realm >Summary of Se	acurity Realms >myrealm	>Users and Grou	ps	
delete items in this domain.	Setting	Settings for myrealm						
Lock & Edit	Config	uration	Jsers and Groups	Roles and Policies	Credential Mappings	Providers M	igration	
Release Configuration	Users	Groups	1					
Domain Structure	Users	Groups						
OFSLERL_domain Domain Partitions Deployments Services Security Realms Intercoerability	Cust	omize thi			een configured in this s	ecurity realm.		
It-Interoperability ID-Diagnostics	New	New Delete Showing 1 to 4 of 4 Previous Next						
		□ Name ↔ Description Provider						
		DEMOSUP	R DEMO SUPR	DEMO SUPR			OFSLLDBAuthenticator	
	LCMUser			This is the default service account for WebLogic Server Lifecycle Manager configuration updates.			DefaultAuthenticator	
How do I 🖂		OracleSyst	emUser Oracle appli	cation software syste	m user.		DefaultAuthenticator	
 Manage users and groups 		weblogic	This user is	the default administr	ator.		DefaultAuthenticator	
Create users	New	Delete	1			Showing 1 t	to 4 of 4 Previous Next	
Modify users	-							
Delete users	-							
System Status 🖂								
Health of Running Servers as of 10:51 AM								
Failed (0) Critical (0)								
Overloaded (0) Warning (0)								
warning (0)								

Figure 2-61 User group 2

2.6.2 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.

		1 Home Log Out Preferences Record Help							
liew changes and restarts						Welcome	e, weblogic	onnected to:	OFSLLREL_dom
lick the Lock & Edit button to modify, add or	Home	Home >Summary of Security Realms >myrealm >Summary of Security Realms >myrealm >Users and Groups							
elete items in this domain.	Setting	s for myre	ealm						
Lock & Edit	Config	uration	Users and Gro	ups Roles and	Policies	Credential Mapping	s Providers	Migration	
Release Configuration	Users	Groups	<u>)</u>						
omain Structure	Osers	droup							
FSLLREL_domain P-Demain Partitions P-Environment —Deployments P-Services —Security Realms		tomize thi		about each group	that has	been configured in t	his security real	π.	
Ð-Interoperability ⊡-Diagnostics	Nev	New Delete Showing 1 to 9 of 9 Pre						Previous Next	
		Description				Provi	ider		
		AdminCha	nnelUsers	AdminChannelUsers can access the admin channel.		Defau	ItAuthenticator		
		Administra	itors	Administrators can view and modify all resource attributes and star and stop servers.			start Defau	ltAuthenticator	
low do I 🖂		AppTester	5	AppTesters group	1			Defau	ltAuthenticator
Manage users and groups		CrossDom	ainConnectors	CrossDomainConnectors can make inter-domain calls from foreign domains.		ign Defau	ltAuthenticator		
Create groups Modify groups		Deployers		Deployers can view all resource attributes and deploy applications. Monitors can view and modify all resource attributes and perform operations not restricted by roles.			ons. Defau	ItAuthenticator	
Delete groups		Monitors					^{rm} Defau	ItAuthenticator	
vstem Status		OFSLL_US	ER	OFSLL USER GRO	UP			OFSL	LDBAuthenticator
ystem Status 🛛 🖂 lealth of Running Servers as of 10:52 AM		Operators		Operators can view and modify all resource attributes and perform server lifecycle operations.			orm Defau	ltAuthenticator	
Failed (0)		OracleSyst	emGroup	Oracle application	software	system group.		Defau	ltAuthenticator
	1000	v Delete					22345 0.00	12 13 23 23	Previous Next

Figure 2-62 User group 3

2.6.3 Assigning Users to Groups

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

Change Center	🔹 Home Lag Dut Preferences 🖾 Rockell Help	Welcome, weblogic Connected In: OF911_domain
View changes and restarts	terms charmen of Security Reene constant alteroides coldolla thermatic charmen of Se	ourly Yeahs unymen y Den and Shops v00H05URK signar and Drougs v04H08URK
Clok the Lock & Edit button to modify, add or	Settings for DIHOSOPR	
delete fams in this domain. Lock & Ealt	General Patemorde Groups	
and the second	See	
Rybone Configuration	These second	
Domain Structure	Use this page to configure group membership for this user.	
OPSL Sonain M Environment 1 Sectorement PScontos 1 Sector Realmont M State operations M State operations M State operations	Parent Groups Available:	This can be a member of any of these parent groups. Here bries,
How de L		
System Status		
reach of Running Servers		
Failed (0) Drinkel (0) Overloaded (0) Valence (0) Col (2)		

Figure 2-63 User group 4



2.6.4 Resetting password via weblogic console

Figure 2-64 User Group 5

1. Click on User. Select Passwords tab and enter new password and confirm password.

Change Center	Home Log Out Preferences	Record Help	Q					
View changes and restarts			Welcome, weblogic Connected to: OFSLLREL_do	main				
Click the Lock & Edit button to modify, add or	Home >Summary of Security Real	Home >Summary of Security Realms >myrealm >Users and Groups >DEMOSUPR						
delete items in this domain.	Settings for DEMOSUPR							
Release Configuration	General Passwords Grou	ps						
Domain Structure	Save							
OFSLLREL_domain	Use this page to change the p	assword for the selected user.						
Environment Deployments Services	* Indicates required fields							
Security Realms Security Realms Interoperability Diagnostics	* New Password:	•••••	The new password of this user. More Info					
er plagnosocs	* Confirm New Password:	•••••						
	Save							
How do I]			_				
Create users								
Modify users								
Delete users								
System Status	1							
Health of Running Servers as of 11:04 AM								
Failed (0)								
Critical (0)								
Overloaded (0) Warning (0)								

2. Click Save.

The following window displayed.



Change Center	Home	Log Out Pref	arences 🔛	Record Help		Q		
View changes and restarts						Welcome, web	logic Connected to	OFSLLREL_domain
Click the <i>Lock & Edit</i> button to modify, add or delete items in this domain. Lock & Edit	Home >Summary of Security Realms >myrealm >Users and Groups >DEMOSUPR Messages Settings updated successfully.							
Release Configuration	Settings f	or DEMOSUPP	t					
Domain Structure	General	Passwords	Groups					
OFSLLREL_domain Domain Partitions Environment	Save							
Deployments Services Security Realms		s page to chang is required fields		rd for the sele	cted user.			
 Interoperability Diagnostics 	* New P	assword:				The new p	assword of this user	• More Info
	* Confir	m New Passw	ord:]		
How do I 🗉	Save							
Create users	·							
Modify users								
Delete users	J							
System Status 🗉	1							
Health of Running Servers as of 11:07 AM								
Failed (0)								
Critical (0) Overloaded (0)								
Warning (0)								
OK (1)								

Figure 2-65 User Group 6

2.7 Implementing JMX Policy for Change Password

The following section details the steps to implement JMX Policy for Change Password.

1. Login to Oracle WebLogic Server 12c 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 > Security > myrealm > Configuration.

Change Center	Home Log Out Prei	erences 🔛	Record Help		Q			
/iew changes and restarts						Welcome, w	eblogic Co	innected to: OFSLLREL_dom
lick the Lock & Edit button to modify, add or	Home >Summary of Security Realms >myrealm							
lelete items in this domain.	Settings for myrealm							
Release Configuration	Configuration Users	and Groups	Roles and Po	licies C	Credential Mappings	Providers	Migration	
	General RDBMS Sec	urity Store	User Lockout	Perform	ance			
Iomain Structure		2//// 2016 S	5 20.80		w. 0.5			
FSLLREL_domain Domain Partitions	Click the Lock & Edit	outton in the l	Change Center t	o modify	the settings on this	page.		
Environment	Save							
Security Realms 8- Interoperability 8- Diagnostics	the DD Only s	lementing sec acurity model	curity using JACO) (Java Au c Server r	thorization Contrac	t for Containe lable and the	rs as defined security func	in JSR 115), you must use tions for Web applications
	Name:		myrealm			The name of	f this securit	y realm. More Info
How do I	문 Security Model Do	efault:	DD Only		~	applications realm. You	or EJBs that	urity model for Web are secured by this security this default during
Contrague they security rearing Enable automatic realm restant Manage security for Web applications and EIBs Sat the default security model Delegate MBean authorization to the realm	🗹 街 Combined Rol	e Mapping E	nabled			Application, interact. Th and EJBs th that initializ	Web applica	
System Status E Health of Running Servers as of 11:09 AM	🔲 💦 Use Authoriza	tion Provide	rs to Protect J	MX Acce	55	the security determine v access an N	realm's Auth vhether a JM	c Server MBean servers to use norization providers to X client has permission to te or invoke an MBean
Failed (0) Critical (0) Overloaded (0) Warning (0)	Automatically Res	tart After N	on-Dynamic C	hanges		non-dynami	c changes ar	alm will be auto-restarted if re made to the realm or m. More Info
OK (1)	Retire Timeout:		CD.			Constitue th	a potion times	out for a realm that is

Figure 2-66 Implement JMX Policy 1

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				
view changes and restarts				Welcome, web	logic Connected to: OFSLLREL_dom		
Io pending changes exist. Click the Release	Home >Summary of Security Realms >myréalm						
Configuration button to allow others to edit the Jomain.	Settings for myrealm						
Lock & Edit	Configuration Users and Grou	ps Roles and Policies	Credential Mappings	Providers 1	Migration		
Release Configuration	General RDBMS Security Store	e User Lockout Perfor	mance				
Iomain Structure	Save						
FSLRE_domain FSLRE_domain Perivicinment Deployments Services Security Realms Pinteroperability Diagnostics	the DD Only security mo	security using JACC (Java /	Authorization Contract	t for Containers a able and the sec	as defined in JSR 115), you must use urity functions for Web applications		
	Name:	myrealm		The name of th	his security realm. More Info		
	👸 Security Model Default:	DD Only	×	applications or	efault security model for Web E1Bs that are secured by this security override this default during More Info		
Iow do I Configure new security realms Enable automatic realm restart Manage security for Web applications and	🗹 ₆ Combined Role Mappin	 ✓ € Combined Role Mapping Enabled ✓ € Use Authorization Providers to Protect JMX Access 			w the role mappings in the Enterprise eb application, and EJB containers etting is valid only for Web applications use the Advanced security model and les from deployment More Info		
EBs Set the default security model Delegate MBean authorization to the realm	🗹 👘 Use Authorization Prov				WebLogic Server MBean servers to use alm's Authorization providers to ther a JMX client has permission to an attribute or invoke an MBean ore Info		
lystem Status							
lealth of Running Servers as of 11:09 AM Failed (0) Critical (0)	Automatically Restart Afte	r Non-Dynamic Changes		non-dynamic d	her the Realm will be auto-restarted if hanges are made to the realm or n the realm. More Info		
Overloaded (0) Warning (0)	Retire Timeout:	60		restarted. The	etire timeout for a realm that is old realm will be shutdown after the sut period has elapsed, More Info		

Figure 2-67 Implement JMX Policy 2

- 4. Click **Save** and restart the server.
- 5. Re-login to console.
- 6. Click Domain > Security > myrealm > Roles and Policies > Realm Policies.

Note:

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



Change Center	Home Log Out Prefer	ences 🔄 Record Help	Q	20					
View changes and restarts	Welcome, weblogic Connected to: OFSLLREL_doma								
lick the Lock & Edit button to modify, add or	Home >Summary of Securit	Home >Summary of Security Realms >myrealm >Realm Roles >Realm Policies							
delete items in this domain.	Settings for myrealm								
Lock & Edit Release Configuration	Configuration Users an	d Groups Roles and Policies	Credential Mappings	Providers Migration					
	Realm Roles Realm P	olicies							
omain Structure									
PSLLRL_domain Domain Partitions Deployments Services Security, Realms Districtory and the security of the security Districtory and the security of the security of the security District Security	access to root level polic resource instances. Notes: • This tab policies. • If you ir	or create security policies for this ies (which apply to all resources of le does not provide access to poli view the Security tab for each JR nported policies for Web applicati	f a given type). All other cies for instances of JNE IDI node or Work Contex ons or EJBs from deploy	nodes provide access to I resources or Work Cont It object instance.	policies that apply to ext resources. To see these				
tow do I 🖂	To view	t, you must activate changes to a or modify JMX policies in the Adr Authorization providers.		must first delegate MBea	n authorization to the				
Manage security policies	To view realm's Customize this table	or modify JMX policies in the Adr			n authorization to the 1 to 9 of 9 Previous Next				
Manage security policies Access policies for JNDI resources Access policies for Work Context resources	To view realm's realm's Customize this table Policies Create Policy Name	or modify JMX policies in the Adr Authorization providers.							
Manage security policies Access policies for JNDI resources Access policies for Work Context resources Delegate MBean authorization to the realm	To view realm's Customize this table Policies Create Policy Name Coherence Cluster One customize the customize t	or modify JMX policies in the Adr Authorization providers.	ninistration Console, you		1 to 9 of 9 Previous Next				
Manage security policies Access policies for JNDI resources Access policies for Work Context resources Delegate MBean authorization to the realm ystem Status	To view realm's realm's Customize this table Policies Create Policy Name Ocherence Cluster Deployments	or modify JMX policies in the Adr Authorization providers.	ninistration Console, you		1 to 9 of 9 Previous Next				
Manage security policies Access policies for JNDI resources Access policies for Work Context resources Delegate MBean authorization to the realm ystem Status	To view realm's Customize this table Policies Create Policy Name Coherence Cluster One customize the customize t	or modify JMX policies in the Adr Authorization providers.	ninistration Console, you		1 to 9 of 9 Previous Next				
Manage security policies Access policies for JNDI resources Access policies for Work Context resources Delegate MBean authorization to the realm ystem Status Failed (0) Critical (0)	To view realm's Customize this table Policies Create Policy Anne Coherence Cluster Deployments Deployments Domain	or modify JMX policies in the Adr Authorization providers.	ninistration Console, you		1 to 9 of 9 Previous Next				
Manage security policies Access policies for JNDI resources Access policies for Work Context resources Celegate MBean authorization to the realm System Status Health of Running Servers as of 11:24 AM Failed (0)	To view realm's Customize this table Policies Create Policy Name Coherence Cluster Deployments Deployments Domain DOM	or modify JMX policies in the Adr Authorization providers.	ninistration Console, you		1 to 9 of 9 Previous Next				
Manage security policies Access policies for INDI resources Access policies for INDI resources Delegate MBean authorization to the realm System Status Pailed (0) Critical (0) Overloaded (0)	To view realm's Customize this table Policies Create Policy Rame Coherence Cluster ① Deployments ② Domain ③ JCOM ③ JDBC	or modify JMX policies in the Adr Authorization providers.	ninistration Console, you		1 to 9 of 9 Previous Next				

Figure 2-68 Implement JMX Policy 3

7. Click on JMX Policy Editor to configure.

Figure 2-69 Implement JMX Policy 4

	A second the second sec				
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				
Click the Lock & Edit button to modify, add or delete items in this domain. Lock & Edit Release Configuration	JMX Policy Editor Back Next Create Policy Select the Policy Scope				
Domain Structure	 To apply this policy to all instances of an MBean, select GLOBAL SCOPE. 				
OFSLLREL_domain Domain Partitions Deployment Deployments Services	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 Scope				
Security Realms					
 Interoperability Diagnostics 	GLOBAL SCOPE				
C Disgrosses	Deployments				
	JDBC System Resources				
	E JMS System Resources				
	⊞ WLDF System Resources				
How do I					
	Back Next Create Policy Cancel				
Create JMX policies	W				
System Status 🗉					
Health of Running Servers as of 11:26 AM					
2 10 10 10 10 10					
Failed (0) Critical (0)					
Overloaded (0)					
Warning (0)					
OK (1)					



8. Select GLOBAL SCOPE and click Next.

	⊞ weblogic.security.providers.audit
	□ weblogic.security.providers.authentication
0	ActiveDirectoryAuthenticatorMBean
0	CustomDBMSAuthenticatorMBean
0	DefaultAuthenticatorMBean
0	DefaultIdentityAsserterMBean
0	IPlanetAuthenticatorMBean
0	LDAPAuthenticatorMBean
0	LDAPX509IdentityAsserterMBean
0	NegotiateIdentityAsserterMBean
0	NovellAuthenticatorMBean
0	OpenLDAPAuthenticatorMBean
0	OracleIdentityCloudIntegratorMBean
0	OracleInternetDirectoryAuthenticatorMBean
0	OracleUnifiedDirectoryAuthenticatorMBean
0	OracleVirtualDirectoryAuthenticatorMBean
0	ReadOnlySQLAuthenticatorMBean
۲	SQLAuthenticatorMBean
0	VirtualUserAuthenticatorMBean
	weblogic,security,providers,authorization
ġ	weblogic.security.providers.credentials
	⊞ weblogic.security.providers.pk
	weblogic.security.providers.saml
Ż	I weblogic.security.providers.xacml.authorization

Figure 2-70 Implement JMX Policy 5

- 9. Select weblogic.security.providers.authentication.
- 10. Select SQLAuthenticatorMBean. Click Next.

	Velcome, weblogic Connected to: OFSLLREL_doma			
Home >Summary of Security Realms >myrealm >Realm Roles >Realm Policies >JMX Policies				
Home >Summary of Security Realms >myrealm >Realm Roles >Realm Policies >JMX Policy Editor JMX Policy Editor				
Select Read, Write, or Invoke Privileges				
Specify read/write privilenes for one or all MBean attributes, or specify privilenes fo	or invoking an MBean operation.			
 If you crose a specific mean type of the previous page, you can select a policy to all attributes or operations. 	specific accidate or operation of you can apply the			
Selected Scope: GLOBAL SCOPE				
Attributes and Operations				
Attribute or Operation	Existing Policy			
○ Attributes: Permission to Read				
○				
○ Encrypted Attributes: Permission to Read				
O				
O III Lookup Operations: Permission to Invoke				
O E Operations: Permission to Invoke				
addMemberToGroup				
O advance				
changeUserPassword				
O close				
C createGroup				
O createUser				
	Selected Scope: GLOBAL SCOPE Selected MBean Type: SQLAuthenticator/MBean Attributes and Operations SQLAuthenticator/MBean Attributes and Operations Attributes: Permission to Read If: Attributes: Permission to Read If: Attributes: Permission to Write If: Encrypted Attributes: Permission to Read If: Departions: Permission to Unite If: Departions: Permission to Invoke If: Operations: Permission to Invoke If: Operations: Permission to Invoke If: addMemberToGroup advance Interpreting If: close If: close If: close			

Figure 2-71 Implement JMX Policy 6

- **11.** Expand **Operations: Permissions to Invoke** and select **ChangeUserPassword**.
- **12.** Click **Create Policy**. The following window is displayed for Authorization providers where you can add conditions to setup the policy.
- **13.** Click Add Condition.

The below screen will be displayed.

Pro-Sures delucino e investidade se observatione	🔒 Home Log Out. Preferences 🐼 Record. Help					
Change Center						
View changes and restarts	Home >Summary of Security Realms >myrealm >Realm Roles >Realm Policies >JMX Policy Editor >Edit JMX Policies					
Click the Lock & Edit button to modify, add or delete items in this domain.	Edit JMX Policies					
Lock & Edit	Save					
Release Configuration	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.					
Domain Structure						
OFSLLREL_domain	- Providers					
Domain Partitions Environment	These are the authorization providers an administrator can select from,					
Deployments E-Services	Authorization Providers: XACMLAuthorizer					
Security Realms	- Policy Conditions					
Interoperability Diagnostics	These conditions determine the access control to your JMX resource.					
Cir Diegnostes	Add Conditions Combine Uncombine Move Up Move Down Remove Negate					
	No Policy Specified					
	Add Conditions Combine Uncombine Move Up Move Down Remove Negate					
	Save					
	Policy Used By Default					
How do I	Role : Admin					
Create JMX policies						
Combine conditions						
System Status						
Health of Running Servers as of 11:31 AM						
Failed (0)						
Critical (0)						
Overloaded (0)						
Warning (0)						
OK (1)						

Figure 2-72 Implement JMX Policy 7

14. For Predicate List, select Group for configuration. Click **Next**.

Figure 2-73 Implement JMX Policy 8

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
Click the Lock & Edit button to modify, add or delete items in this domain.	Edit JMX Policies
Lock & Edit	Back Next Finish Cancel
Release Configuration	Edit Arguments
Domain Structure	On this page you will fill in the arguments that pertain to the predicate you have chosen.
DFSLLREL_domain Domain Partitions	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.
Environment Deployments Services	Group Argument Name: Add
Security Realms	OFSLL_USER
Diagnostics	Remove
	Back Next Finish Cancel
How do I	
Create JMX policies	
Combine conditions	
System Status	
Health of Running Servers as of 11:33 AM	
Failed (0)	
Critical (0)	
Overloaded (0) Warning (0)	
warning (0)	

15. Select user roles for application.



16. Click **Finish**. Click on Save to complete the configuration.

The following window will be displayed.

ORACLE WebLogic Server A	A STATE OF	_				
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	mai				
View changes and restarts	Home >Summary of Security Realms >myrealm >Realm Roles >Realm Policies >3MX Policy Editor >Edit JMX Policies					
Click the Lock & Edit button to modify, add or delete items in this domain.	Edit JMX Policies					
Lock & Edit	Save					
Release Configuration	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.					
Domain Structure						
OFSLLREL_domain	- Providers	-				
Domain Partitions Environment	These are the authorization providers an administrator can select from,					
Deployments E-Services	Authorization Providers: XACMLAuthorizer					
Security Realms	- Policy Conditions	_				
Diagnostics	These conditions determine the access control to your JMX resource.					
	Add Conditions Combine Uncombine Move Up Move Down Remove Negate					
	Group: OFSLL USER					
	Add Conditions Combine Uncombine Move Up Move Down Remove Negate					
How do I	Save Overridden Policy					
	Role : Admin					
Create JMX policies						
Combine conditions		_				
System Status						
Health of Running Servers as of 11:41 AM						
Failed (0)						
Critical (0)						
Overloaded (0)						
Warning (0)						
OK (1)						

Figure 2-74 Implement JMX Policy 9

3 Configure Policies

The following sections details the steps to configure password policy for SQL Authenticator and configure user lockout policy .

- Configuring Password Policy for SQL Authenticator
- Configuring User Lockout Policy

3.1 Configuring Password Policy for SQL Authenticator

- Login to the WebLogic server administration console with user login credentials. (Optional) Enter the result of the step here.
- Browse to Security Realms > myrealm > Providers > Password Validation as shown below. The following window is displayed.

Change Center	Home Log	Out Preferences 💽	Record Help		Q Wel	come, weblo	gic Connected to	· OFSLLREL_doma
View changes and restarts	Home >Summar	y of Security Realms >m	yrealm >Providers					
Click the Lock & Edit button to modify, add or	Settings for my	realm						
delete items in this domain.	Configuration	Users and Groups	Roles and Policies	Credential Mappi	ngs Provid	ers Migratio	n	
Release Configuration	Authentication	Password Validat	ion Authorization	Adjudication	Role Mapping	Auditing	Credential Mapp	ing
<u> </u>	Certification Pa	ch						
omain Structure FSLLREL domain	1							
B-Services Security Realms B-Interoperability	Customize t	in auble						
9 Diagnostics	Password Va Click the <i>Lock</i>	idation Providers	Change Center to act	ivate all the button	s on this page		*********	1 Demonstra Next
(f) - Diagnostics	Password Va Click the <i>Lock</i> New Dele	idation Providers	Change Center to act	1	s on this page			1 Previous Next
	Password Va Click the <i>Lock</i>	idation Providers	Change Center to act	ivate all the button	s on this page			1 Previous Next
iow do I 🛙	Password Va Click the Lock New Dele	idation Providers	Change Center to act	1				ersion
iow do I 🛙	Password Va Click the Lock New Dele	idation Providers & Edit button in the C te Rearder asswordValidator	Change Center to act	Description		5	V 1.	ersion
Iow do I Configure the Password Validation provider	Password Va Click the Lock New Dele Name SystemP	idation Providers & Edit button in the C te Reorder asswordValidator	Change Center to act	Description		5	V 1.	ersion 0
tow do I Configure the Password Validation provider system Status	Password Va Click the Lock New Dele Name SystemP	idation Providers & Edit button in the C te Reorder asswordValidator	Change Center to act	Description		5	V 1.	ersion 0
tow do I Configure the Password Validation provider system Status	Password Va Click the Lock New Dele Name SystemP	idation Providers & Edit button in the C te Reorder asswordValidator	Change Center to act	Description		5	V 1.	ersion 0
How do I Image: Configure the Password Validation provider System Status Image: Configure the Password Validation provider Health of Running Servers as of 11:42 AM Image: Configure the Password Validation provider Pailed (0) Critical (0)	Password Va Click the Lock New Dele Name SystemP	idation Providers & Edit button in the C te Reorder asswordValidator	Change Center to act	Description		5	V 1.	ersion 0
How do I Configure the Password Validation provider System Status Health of Running Servers as of 11:42 AM Failed (0)	Password Va Click the Lock New Dele Name SystemP	idation Providers & Edit button in the C te Reorder asswordValidator	Change Center to act	Description		5	V 1.	ersion 0

Figure 3-1 Configuring Password Policy 1

3. Click SystemPasswordValidator link.

The following window is displayed.

ORACLE WebLogic Serve	er Administration Console 12c		Q
Change Center	Home Log Out P	references 🔄 Record Help	Welcome, weblogic Connected to: OFSLLREL_domain
View changes and restarts	Home >Summary of Se	curity Realms >myrealm >Providers >SystemPasswordV	falidator
Click the Lock & Edit button to modify, add	or Settings for SystemP	PasswordValidator	
delete items in this domain. Lock & Edit	Configuration		
Release Configuration	Common Provide	r Specific	
Domain Structure OFSLLREL_domain	This page displays b	asic information about this System Password Validatio	n provider.
Domain Partitions Environment Deployments	🕂 Name:	SystemPasswordValidator	The name of this System Password Validation provider. More Info
Services Security Realms Interoperability	description:	Password composition checks	A short description of the System Password Validator provider. More Info
Diagnostics	6 Version:	1.0	The version number of the System Password Validator provider. More Info
How do I			
Configure the Password Validation provid Manage security providers	ler		
System Status			
Health of Running Servers as of 11:43 AM			
Failed (0)			
Critical (0) Overloaded (0)			
Warning (0)			
OK (1)			

Figure 3-2 Configuring Password Policy 2

- 4. Click Provider Specific Tab.
- 5. Configure the password policy as per the requirement.

An example is provided in the following window.

Figure 3-3 Configuring Password Policy 3

	Reject if Password Contains the User Name Re	versed	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.
How do I 🖂	- Password Length Policies		
Configure the Password Validation provider Manage security providers System Status	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
Health of Running Servers as of 11:44 AM Failed (0) Critical (0) Overloaded (0)	Maximum Password Length:	D	Specifies the maximum number of characters that the password may contain. To be accepted, the password me not contain a greater number of characters than the value specified. Specifying 0 results in no restriction on passwor length. More Info
Warning (0)	- Character Policies		
OK (1)	Maximum Instances of Any Character:	2	Specifies the maximum number of times any one characte may appear in the password. More Info
	Maximum Consecutive Characters:	2	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 must 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 the a password must contain. More Info
	Minimum Number of Upper Case Characters:	1	Specifies the minimum number of uppercase characters that a password must contain. More Info
	Minimum Number of Non-Alphanumeric Characters:	0	Specifies the minimum number of non-alphanumeric characters (also known as special characters, such as %, #, 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 $\%, \#, \#, \text{ or }$) that a password must contain. More Info
	Save		Ν



6. Click Save.

3.2 Configuring User Lockout Policy

 To Change User lockout policy, browse to Security Realms > myrealm > Configuration Tab > User Lockout Tab.

The following window is displayed.

Figure 3-4 Configuring User Lockout Policy

hange Center	Home Log Out Preferences	Record Help	Q		
View changes and restarts			Welcome	weblogic Conne	ected to: OFSLLREL_don
Click the Lock & Edit button to modify, add or	Home >Summary of Security Realms	>myrealm			
delete items in this domain.	Settings for myrealm				
Lock & Edit Release Configuration	Configuration Users and Grou	ps Roles and Policies	s Credential Mapping	s Providers M	ligration
Therease outings and the	General RDBMS Security Store	User Lockout P	erformance		
Domain Structure					
DFSLLREL_domain	Click the Lock & Edit button in th	he Change Center to m	odify the settings on this	s page.	
Domain Partitions Environment	Save				
27 a 2	And the second second second				
	🗹 👸 Lockout Enabled		whe		erver locks users out login attempts on their
	✓ d Lockout Enabled d Lockout Threshold:	5	whe acco The logir	n there are invalid unt. More Info maximum number attempts that car	login attempts on their of consecutive invalid occur before a user's
How do I 🖂		5	whe acco The logir	n there are invalid unt. More Info maximum number	login attempts on their of consecutive invalid occur before a user's
Set user lockout attributes		5	whe acco login acco The	n there are invalid unt. More Info maximum number a attempts that car unt is locked out.	login attempts on their of consecutive invalid occur before a user's More Info s that a user's account is
	n Lockout Threshold:	30	whe acco	n there are invalid unt. More Info maximum number attempts that car unt is locked out. number of minuter ad out. More Info number of minuter	login attempts on their of consecutive invalid occur before a user's More Info that a user's account is s within which consecutive
Set user lockout attributes Unlock user accounts	n Lockout Threshold:		whe acco loginacco loginacco The Ince	n there are invalid unt. More Info maximum number attempts that car unt is locked out. number of minuter ad out. More Info number of minuter	login attempts on their of consecutive invalid occur before a user's More Info s that a user's account is s within which consecutive ause a user's account to
Set user lockout attributes Unlock user accounts	n Lockout Threshold:	30	whe acco loginacco loginacco The Ince	n there are invalid unt. More Info maximum number attempts that car unt is locked out. number of minute: ad out. More Info number of minute: id login attempts of	login attempts on their of consecutive invalid occur before a user's More Info s that a user's account is s within which consecutive ause a user's account to
Set user lockout attributes Unlock user accounts System Status Health of Running Servers as of 11:50 AM	n Lockout Threshold:	30	when acco	n there are invalid unt. More Info maximum number attempts that can number of minuter ad out. More Info number of minuter dout. More Info login attempts o cycked out. More I maximum number	login attempts on their of consecutive invalid occur before a user's More Info s that a user's account is s within which consecutive ause a user's account to nfo of invalid login records
Set user lockout attributes Unlock user accounts System Status	د لockout Threshold: د لockout Duration: د لockout Reset Duration:	30	when acco	n there are invalid unt. More Info maximum number a ttempts that car uunt is locked out. number of minuter ad out. More Info number of minuter id login attempts of koked out. More I maximum number the server can pla	login attempts on their of consecutive invalid occur before a user's More Info that a user's account is s within which consecutive ause a user's account to nfo
Set user lockout attributes Unlock user accounts System Status Health of Running Servers as of 11:50 AM Failed (0)	C Lockout Threshold:	30	when acco	n there are invalid unt. More Info maximum number a tatempts that can unt is locked out. unt is locked out. More Info number of minuter do dout. More Info number of minuter id login attempts o cocked out. More I maximum number the server can pla 	login attempts on their of consecutive invalid occur before a user's More Info s that a user's account is s within which consecutive ause a user's account to nfo of invalid login records

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

4 Deploy Application

The following section details the steps to deploy Application.

Deploying Application

4.1 Deploying Application

1. Login to the Oracle Enterprise Manager 12c console . (i.e. http://hostname:port/em)

igure 4-1-	Deploying Application	1	
	OF	N IN TO ACLE ENTERPRISE MANA SION MIDDLEWARE CONT	
		omain Domain_OFSLLREL_domain Name weblogic	
	* pa	Sword Login to Partition	
			ORACLE

2. Click on Lock and Edit as shown below.



WebLogic Domain +						🋅 🔻 🖂 👻 Auto R	efresh Off	
						Edit Sessions		
1 Information						Lock & Edit	N (
Certain functionality on this pa	ge is a	vailable only when you own the edit sessi	ion lock. T	To obtain the lo	ck, click "Lock and Edit" in t	View Change List	13	
Servers						View & Resolve Conf	licts	
		Administration Server				Release Configuration	n	
3 Up	•	Name AdminServe	er			Activate Changes		
U Up		Host ofsll.in.orac	e.com			Undo All Changes		
		Listen Port 9001				View Restart Checklis	st	
Clusters						Preferences		
	Þ		Servers				Help	_
0		View • 📲 Create 🗙 Delete	Contro	l ▼ E¥				
Clusters		Name	Status	Cluster	Machine	State	Health	
		AdminServer(admin)	+			Running	OK	
Deployments		OFSLL_ManagedServer	t			Running	OK	
		WS_ManagedServer	+			Running	OK	
Domain Partitions Domain Partitions	•							

Figure 4-2 Deploying Application 2

3. The following window is displayed.

7:37 IST
Health
ок
OK
ок

Figure 4-3 Deploying Application 3

4. Click on **Deployments** in the left panel. To deploy go to Deployments option in the menu as shown below.



OFSLLREL_domain ()							🔒 👻 💌 🔺 Auto	1
🔚 WebLogic Domain 👻							Sep 16, 2017	12:15:46 PM IST
Confirmation The edit session lock has been ac	quired. No per	nding changes e	xist.					(
Servers	Deploym	ents						
	View +	Show All	Deployment + Override +	Contro	v le			
3 up		Name	1 Deploy	Status	State	Health	Туре	Domain Pa
	+	opss-rest	🖹 Redeploy	+	Active	OK	Web Application	
0 ►								
Clusters								
Clusters				1				

Figure 4-4 Deploying Application 4

5. Click Choose File button and select OFSLL application archive file i.e. ofsll_1411.ear. Choose the Deployment Plan (if any).

Figure 4-5 Deploying Application 5

FSLLREL_domain 🚯	
Select Archive Select Target Application Attributes Deployment Settings	
Deploy Ja	Back Step 1 of 4 Next Can
Scope Select a scope that you want to deploy this application to Global Archive or Exploded Directory Java EE archives, Web Modules (WAR flies), EJB Modules (EJB JAR flies), Resource Adapter Modules (RAR flies), Coherence Archives (GAR flies), JDBC Modules, JMS Modules, and ibitary flies (Jar flies) can be deployed. You can also deploy an exploded archive that is present on the server where Enterprise Manager is running. Archive or exploded directory is on the server where Enterprise Manager is running. Browse	▲ Information 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). If your application is a 50A composite, use the SOA Composite deployment ward. If your application is and a SOA composite or Idees not require an MDS repository or ADF connections, then you can deploy your application using the watard Administration Console
Deployment Plan The deployment plan is a flie that contains the deployment settings for an application. You can use a previously saved deployment plan for this application. Later in the deployment process, you can optionally edit the deployment plan and save it for a Nutre deployment of this application. If you do not have a deployment plan, one will be created automatically during the deployment plan sort sets when deployment configurations is done. Cheose Flie No flie chosen Deployment plan is on the server where Enterprise Manager is running.	
Browse	
Diowsen	



Note:

A deployment plan can be used to easily change an application's WebLogic Server configuration for a specific environment without modifying existing deployment descriptors.

Sample plan.xml

Figure 4-6 Deploying Application 6

<app< th=""><th><pre>blication-name>ofsllrel</pre></th></app<>	<pre>blication-name>ofsllrel</pre>
<var< th=""><th>tiable-definition></th></var<>	tiable-definition>
<7	variable>
	<name>Web ofsllrel contextRoot</name>
	<value>ofsllrel</value>
<1	(variable>
<td>ariable-definition></td>	ariable-definition>
<mod< td=""><td>dule-override></td></mod<>	dule-override>
<1	module-name>ofsllrel.ear
<1	nodule-type>ear
	module-descriptor external="false">
	<root-element>weblogic-application</root-element>
	<pre><uri>META-INF/weblogic-application.xml</uri></pre>
</td <td>(module-descriptor></td>	(module-descriptor>
	module-descriptor external="false">
	<root-element>application</root-element>
	<pre>vuri>META-INF/application.xml</pre>
	<variable-assignment></variable-assignment>
	<name>Web ofsllrel contextRoot</name>
	<pre><xpath>/application/module/web/[context-root="ofsllrel"]/context-root</xpath></pre>
	<pre><operation>replace</operation></pre>
	(module-descriptor>
	module-descriptor external="true">
	<root-element>wldf-resource</root-element>
	<ur><uri>META-INF/weblogic-diagnostics.xml</uri></ur>
<1	/module-descriptor>
	dule-override>
	ule-override>
<1	nodule-name>ofsllrel.war
	nodule-type>war
	module-descriptor external="false">
	<root-element>weblogic-web-app</root-element>
	<uri>WEB-INF/weblogic.xml</uri>
	(module-descriptor>
	module-descriptor external="false">
	<root-element>web-app</root-element>
	<ur><uri>WEB-INF/web.xml</uri></ur>
	(module-descriptor>
	dule-override>
<mod< td=""><td>jule-override></td></mod<>	jule-override>
<1	nodule-name>empty.jar
	module-type>car
	module-descriptor external="true">
	<pre><root-element>weblogic-application-client</root-element></pre>
	<pre><uri>META-INF/weblogic-application-client.xml</uri></pre>
	module-descriptor>
	nodule-descriptor external="false">
	<pre>croot=lement>application-client</pre>
	<pre>vuri>META-INF/application-client.xml</pre>

6. Click Next.

The following window is displayed.

LLREL_	domain 🕦					
0		— 0 — 0				
Select Arc	hive Select Target	Application Attributes Deployment Settings				
ploy J	ava EE Application: Se	lect Target	Bac	sk Step 2 of 4	Next	Cano
Select the	WebLogic server or cluster that y	ou want this application to be deployed to.			Next	Cance
	WebLogic server or cluster that y		Bac Deployed Application		Next	Cance
Select the Select 1	WebLogic server or cluster that y	ou want this application to be deployed to. Type	Deployed Application		Next	Canc

Figure 4-7 Deploying Application 7

7. Check target server as per the requirement **OFSLL_ManagedServer** and click **Next**.

Figure 4-8 Deploying Application 8

FSLLREL_domain	0 0	
Select Archive	Select Target Application Deployment Settin Attributes	
Deploy Ja		Back Step 3 of 4 Next Deploy Car
Hide Deployment Su	mmary	
Arct	ive Type Java EE Application (EAR file)	
Deployn	ent Plan Create a new plan	
Deployme	nt Target OFSLL_ManagedServer	
	Scope Global	
Deploym	ent Type Application	
*	Application Name ofsil1411	
	Archive Version V14.11.0.0.0-b75	
Deploy	nent Plan Version	
Context Root of Web I		
Web Module	Context Root	
	ofsII1411	

8. Click / button to select Repository Name.

The following window is displayed.

OFSLLREL_domain 🚺				
0	0	•		
Select Archive	Select Target Ap	plication Deployment Settings tributes		
	Metadata Repositories		×	
Deploy Ja	Select the metadata repository th	at the application will be deployed to.	xt	Deploy Cance
A Hide Deployment S	Repository	mds-adf 🗸		
Arc	Repository Details			
Deploy	Name	mds-adf		
Deploym	Туре	Database		
	Scope	Global		
Deployr	Data Source	mds-adf		
	JNDI Location	jdbc/mds/adf		
* Applica	Database Type	Oracle		
Archi	Database Name	OLLMDR		
Deployment Pla	Database User	OLL_MDS		
	JDBC URL	jdbc:oracle:thin:@whf00ake.in.oracle.com:1521/OLLMDR		
Context Root of Web				
Web Module				
ofsll1410.war				
Target Metadata Repo			OK Cancel	
	ory and specify the partition in the	repository that the application will be deployed to.		
* Repository Name				
Repository Type				
* Partition	1			

Figure 4-9 Deploying Application 9

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

Figure 4-10 Deploying Application 10

DFSLLREL_domain 🚯		
Select Archive Select Target	Application Deployment Settings	
Deploy Ja…		Back Step 3 of 4 Next Deploy Car
Show Deployment Summary		
* Application Nan	ne ofsil1411	
Archive Versio	on V14.11.0.0.0-b75	
Deployment Plan Versio	n	
Context Root of Web Modules		
Web Module Conte	xt Root	
ofsil1411.war ofsil14	411	
Target Metadata Repository Select the metadata repository and specify the Repository Name mds-adt Repository Type Databa Partition ofsi114	See	
Select the metadata repository and specify the metadata repository Name mds-adf Repository Type Databa	lee	

10. Enter Partition name as per the requirement and click **Next**.



FSLLREL_domain () Select Archive Select Ta	rget Applicat	On Attributes Deployment Settings					
eploy Ja			Back	Step 4 of 4	Next	Deploy	Ca
Hide Deployment Summary							
Archive Type	Java EE Application (EAR file)					
Deployment Plan	Create a new plan						
Deployment Target	OFSLL_ManagedSer	ver					
Scope	Global						
Deployment Type	Application						
Application Name	ofsll1411						
Version	/14.11.0.0.0-b75						
Context Root	ofsil1411						
Deployment Mode	nstall and start applic	ation (servicing all requests)					
Deployment Tasks The table below lists common tasks th	at you may wish to d	b before deploying the application					
Name	Go To Task	Description					
Configure Web Modules	/	Configure the Web modules in your application.					
Configure Application Security	/	Configure application policy migration, credential migration and other security behavior.					
A Deployment Plan							

Figure 4-11 Deploying Application 11

11. Click Deploy.

The following window is displayed.

0				
Select Archive S	Deployment Suc	ceeded	and the second second	
Deploy Ja	Deployment of Applicati activate or undo the cha Summary	tion "ofsif1411" is completed. The deployment changes are pending activation. Exit the wizard and use the Change Center to anges.	Next Deploy	Car
Hide Deployment Summ		Global	1000	
Archive		V14.11.0.0.0-b75		
Deployment	Deployed Archive	/u01/Middleware/Weblogic12cHome/user_projects/domains/OFSLLREL_domain/sysman/upload/deploy/ofsil1411_V14.11.0.0.0-b75/ archive/ofsil 1411.ear		
Deployment Te	Archive Type	Java EE Application (EAR file)	1000	
s	Deployment Mode	Install and start application (servicing all requests)		
Deployment	Deployment Target	OFSLL_ManagedServer		
Application N	Application States	Unavailable (OFSLL_ManagedServer)		
Vei	Context Root	ofs 1411		
Context	Hide Progress Me	ssages 423 PM ISTI Initiating deploy operation		
Deployment I	[May 6, 2021 2:34			
Deployment Tasks	[May 6, 2021 2:34 [May 6, 2021 2:34 ofsil1411_V14.11. [May 6, 2021 2:34	42 3PM IST Saving he oracle configuration changes to archive. 42 3PM IST Archive: wolf Middlemare/Weblogict2CHome/user_projects/domains/OFSLLREL_domains/sysman/upload/deploy/ 0.0.0-075/archive/otsl_1411 aar 42 3PM IST Targeting MDS repository. com bea Type=JDBCSystemResource,Name=mds-adf to target OFSLL_ManagedServer.		
Deployment Tasks	[May 6, 2021 2:34 [May 6, 2021 2:34 ofsl11411_V14.11. [May 6, 2021 2:34 [May 6, 2021 2:34 [Completed]	42 3PM IST Saving the gracie configuration changes to archive. 42 3PM IST Archive: wolf Middlemare/Weblogict2CHomeuseg_projects/domains/OFSLLREL_domains/ssmanlupload/deploy/ 0.0.0+75/archive/otsl_1411 aar 42 3PM ISTT_prefing MDS repository: com bea Type=JDBCSystemResource, Name=mds=adf to target OFSLL_ManagedServer, 42 3PM ISTT_provident MDS repository: com bea Type=JDBCSystemResource, Name=mds=adf to target OFSLL_ManagedServer		
Deployment Tasks The table below lists common	[May 6, 2021 2:34 [May 6, 2021 2:34 ofsl11411_V14.11. [May 6, 2021 2:34 [May 6, 2021 2:34 [Completed]	42 3PM IST Saving he oracle configuration changes to archive. 42 3PM IST Archive: wolf Middlemare/Weblogict2CHome/user_projects/domains/OFSLLREL_domains/sysman/upload/deploy/ 0.0.0-075/archive/otsl_1411 aar 42 3PM IST Targeting MDS repository. com bea Type=JDBCSystemResource,Name=mds-adf to target OFSLL_ManagedServer.		
Deployment Tasks The table below lists common Name	[May 6, 2021 2:34 [May 6, 2021 2:34 ofsl11411_V14.11. [May 6, 2021 2:34 [May 6, 2021 2:34 [Completed]	42 3PM IST Saving the gracie configuration changes to archive. 42 3PM IST Archive: wolf Middlemare/Weblogict2CHomeuseg_projects/domains/OFSLLREL_domains/ssmanlupload/deploy/ 0.0.0+75/archive/otsl_1411 aar 42 3PM ISTT_prefing MDS repository: com bea Type=JDBCSystemResource, Name=mds=adf to target OFSLL_ManagedServer, 42 3PM ISTT_provident MDS repository: com bea Type=JDBCSystemResource, Name=mds=adf to target OFSLL_ManagedServer		
Deployment Tasks The table below lists common Name Configure Web Modules	[May 6, 2021 2:34 [May 6, 2021 2:34 ofsl11411_V14.11. [May 6, 2021 2:34 [May 6, 2021 2:34 [Completed]	42 3PM IST Saving the gracie configuration changes to archive. 42 3PM IST Archive: wolf Middlemare/Weblogict2CHomeuseg_projects/domains/OFSLLREL_domains/ssmanlupload/deploy/ 0.0.0+75/archive/otsl_1411 aar 42 3PM ISTT_prefing MDS repository: com bea Type=JDBCSystemResource, Name=mds=adf to target OFSLL_ManagedServer, 42 3PM ISTT_provident MDS repository: com bea Type=JDBCSystemResource, Name=mds=adf to target OFSLL_ManagedServer		
Deployment Tasks The table below lists common Name Configure Web Modules	[May 6, 2021 2:34 [May 6, 2021 2:34 ofsl11411_V14.11. [May 6, 2021 2:34 [May 6, 2021 2:34 [Completed]	42 3PM IST Saving the gracie configuration changes to archive. 42 3PM IST Archive: wolf Middlemare/Weblogict2CHomeuseg_projects/domains/OFSLLREL_domains/ssmanlupload/deploy/ 0.0.0+75/archive/otsl_1411 aar 42 3PM ISTT_prefing MDS repository: com bea Type=JDBCSystemResource, Name=mds=adf to target OFSLL_ManagedServer, 42 3PM ISTT_provident MDS repository: com bea Type=JDBCSystemResource, Name=mds=adf to target OFSLL_ManagedServer	8	

Figure 4-12 Deploying Application 12

12. Click **Close** once the message **Deploy operation completed** is displayed.



5 Enable SSL

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

• Enabling SSL

5.1 Enabling SSL

To enable SSL

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

Lock & Edit	Configuration	Protocol	s Logging	Debug	Monitoring	Control	Deploy	ments	Services	Security	Notes	
Release Configuration	General C	uster Sen	vices Keys	tores 55	iL Federatio	n Service:	Deplo	yment	Migration	Tuning	Overload	
Domain Structure	Concurrency	Health Mo	nitoring S	erver Start	Web Service	es Coh	erence					
DFSLLREL_domain B-Domain Partitions B-Environment	Save											
 Environment Deployments Services Security Realms Interoperability 	Use this page View JNDI Tr		a general fea	tures of thi	s server such a	s default	network o	ommuni	cations.			
Diagnostics	Name:		OFS	.L_Manage	dServer			In alpha	numeric nar	ne for this :	server instance	More
	Template:		(No	value speci	fied) Change			The terry nfo	plate used to	o configure	this server. N	lore
How do I	Hachine:		(Nor	e)			Ţ	The Web vhich thi	Logic Server is server is n	r host comp neant to ru	outer (machine n. More Info.) on
Configure default network connections Create and configure machines	🛃 Cluster:		(Sta	nd-Alone)			Ţ	The clust vhich thi	ter, or group is server bel	of WebLog ongs, Mor	gic Server insta re Info	nces, to
Configure clusters Start and stop servers Configure WLDF diagnostic volume	🕂 Listen Ad	dress:					6	or incom	ning connect	ions. For e	is server uses t xample, enter ctively, More	
Apply a server template	Listen Po	t Enabled					t	ipecifies he defau nfo	whether thi ult plain-text	s server ca : (non-SSL)	n be reached ti listen port. M	hrough Iore
System Status Health of Running Servers as of 1:22 PM Failed (0)	Listen Port:		90	03			1	'he defa	ult TCP port non-SSL) inc	that this s coming con	erver uses to li nections, Mor	sten for e
Critical (0) Overloaded (0) Warning (0)	SSL Lister	n Port Enab	led				I	ndicates he defai	s whether th ult SSL listen	e server ca port, Mo	n be reached ti re Info	hrough
OK (3)	SSL Listen Po	ort:	95	03					/IP port at w on requests,		erver listens for D	SSL
	🗌 🚛 Client	Cert Proxy	Enabled				9	pecifies	whether the	HttpClust	erServlet proxie der, More Inf	s the

Figure 5-1 Enable SSL

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





It is recommended to disable http protocol.



6

Map Enterprise Group with Application Role

The following section details the steps to be followed to map enterprise group with application role.

Mapping Enterprise Group with Application Role

6.1 Mapping Enterprise Group with Application Role

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

- 1. Login to Oracle Enterprise Manager 12c console (http://hostname:port/em).
- 2. Click WebLogic Domain > Security > Application Roles on the right panel.

	ACLE' Enterprise Manager Fus					
	OFSLLREL_domain 0				🎦 🔻 🖂 👻 🗛 Aut	o Refresh Off
	🖕 WebLogic Domain 🔻				02-May-2	2018 08:44:25 EDT
Info	Home					
Cert	Monitoring	en you own the edit session lock. To o	btain the lock	, click "Lock and Edit	" in the Change Center men	u.
Serve	Diagnostics	^b on Server				
	Control	Name AdminServer				
	Environment	Security Realms]			
lust	Deployments	Security Administration Web Service Security				
	Messaging	Application Policies	* E¥			
	Cross Component Wiring	Application Roles	Sluster	Machine	State	Health
	Web Services	▶ System Policies	5.0.5001	in a crime	otate	
	Other Services	Security Provider Configuration			Running	OK
epic	Administration	Audit Registration and Policy			Running	OK
1	Refresh WebLogic Domain	Credentials			Running	UK
	Security	Keystore				
_	JNDI Browser					
oma	System MBean Browser WebLogic Server Administration Console					
R	Target Sitemap Target Information					
1						

Figure 6-1 Mapping Enterprise Group 1

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



Figure 6-2	Mapping	Enterprise	Group 2
------------	---------	------------	---------

	se Manager Fusion Middleware Contr	l 12c	🖺 WebLogic Domain 💌 🛛 weblogic 💌 🚥
OFSLLREL_domain	•		May 6, 2021 2:53:27 PM IST 🔦
Domain_OFSLLREL_domain/OFSLL	REL_domain > Application Roles		
Application Roles			
pplication roles are the roles used by nat are created in the context of end		ific to the application. These roles are seeded by applications in sing	gle global policy store when the applications are registered. These are also application roles
Policy Store Provider			
▲ Search			
elect an application stripe and enter	a search keyword for the role name to se	rch for roles defined by this application.	
Application Stripe	ofsII1411#V14.11.0.0.0-b75 🗸		
Role Name	Starts With 🗸	•	
	Create Like / Edit X Dele	te	🖙 [] Detach
1			
Role Name	Display Name	Description	
No application roles found.			

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

Figure 6-3	Mapping	Enterprise	Group 3	3
------------	---------	------------	---------	---

Oreade_OFSUREL_domain>SPELREL_domain>Application Roles 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 registered. These are also 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 registered. These are also application roles are the application roles are the application stripe and enter a search keyword for the role name to search for roles defined by this application. Application Stripe of Still Stript of still Stript of still Stript of starts With View * @ Create. @ Create Like * Delete View * @ Create. @ Create Like * Delete Stript of Still USER OFSILLUSER Pincipal Display Name Description	ORA		iterpri	se Manager i	usion Middlev	vare Control 12c		🏭 WebLogic Domain 💌 🛛 weblogic 💌 🚥
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 registered. These are also application roles are the context of end users accessing the application. These roles are seeded by applications in single global policy store when the applications are registered. These are also application roles are the context of end users accessing the application. These roles are seeded by applications in single global policy store when the applications are registered. These are also application roles are asserted for roles defined by this application. Image: Store Provider Image: Store Provider Select an application Stripe oblif141114V14.110.0.0-D75 Image: Store Provider Image: Store Provider Image: Store Provider Vew r Image: Create Like Image: Store Provider Image: Store Provider Image: Store Provider				•				May 5, 2021 2:55:27 PM 15T 👈
Application steps are the used by security users applications that are specific to the application. These roles are seeded by applications in single global policy store when the applications are registered. These are also application roles are seeded by applications in single global policy store when the applications are registered. These are also application roles are seeded by applications in single global policy store when the applications are registered. These are also application roles are seeded by applications in single global policy store when the applications are registered. These are also application roles are seeded by applications in single global policy store when the applications are registered. These are also application roles are seeded by applications in single global policy store when the applications are registered. These are also application roles are seeded by applications in single global policy store when the applications are registered. These are also application roles are seeded by applications in single global policy store when the applications are registered. These are also application roles are seeded by applications in single global policy store when the applications are registered. These are also application roles are seeded by applications in single global policy store when the applications are registered. These are also application roles are seeded by applications in single global policy store when the applications are registered. These are also application roles are seeded by applications are registered. These are also application roles are seeded by applications in single global policy store when the applications are registered. These are also application roles are seeded by applications are registered. These are also	/Domain_OF	SLLREL_domain	VOFSLI	LREL_domain > /	opplication Rol	es		
that are created in the context of end users accessing the application. Policy Store Provider Select an application stripe ofsil1411#V14.11.0.0-b75 Role Name Starts With Create Like Cleate Like Cleate Cleate Like Cleate Clea	Applicat	tion Roles						
Search Select an application stripe and enter a search keyword for the role name to search for roles defined by this application. Application stripe Role Name Display Name Description OFSLL_USER Principal Type							the app	lication. These roles are seeded by applications in single global policy store when the applications are registered. These are also application roles
Select an application stripe and enter a search keyword for the role name to search for roles defined by this application. Application Stripe ofsill 1118/11411.0.0.0-b7 Role Name Starts With Image: Create Like Image: Create Like	Policy S	Store Provider						
Application Stripe ofslif14111471411.00.0-075 Role Name Starts With Vew < Toreate	▲ Search							
Role Name Starts With V View V Create View V Create Create Create Create Create Create Create Create Create <td>Select an app</td> <td>plication stripe ar</td> <td>nd enter</td> <td>r a search keywor</td> <td>d for the role r</td> <td>ame to search fi</td> <td>or roles</td> <td>defined by this application.</td>	Select an app	plication stripe ar	nd enter	r a search keywor	d for the role r	ame to search fi	or roles	defined by this application.
View v Image: Create Like Image: Edit Image: Create Like Image: Edit Image: Create Like		Application	Stripe	ofsII1411#V14.1	1.0.0.0-b75	~		
View v Image: Create Like Image: Edit Image: Create Like Image: Edit Image: Create Like		Role	Namo	Starte With M				
Role Name Display Name Description OFSLL_USER OFSLL USER	View -				/ Edit	X Delete		📴 📓 Detach
OFSLL_USER OFSLL USER Image: Membership for OFSLL_USER Image: Membership for OFSLL_USER Principal Display Name Type Description	1							
OFSLL_USER OPSLL USER Image: Membership for OFSLL_USER Image: Membership for OFSLL_USER Principal Display Name Type Description	Role N	ame		Disp	lav Name			Description
Principal Display Name Type Description	OFSLL_	_USER						
Principal Display Name Type Description								
	.⊿ Memb	ership for C	FSLL	_USER				
DEMOSURP User	Principal		Disp	lay Name	Туре		Desc	iption
	DEMOSUPI	R			User			

6. Click Edit.

The following window is displayed.

Figure 6-4 Ma	apping E	Enterprise	Group 4	ŀ
---------------	----------	------------	---------	---

Edit Application Role : OFSLL_USER OK Cancel Lole (or Enterprise Role) is the group of users designed at the enterprise level and typically used to assign a privilege or permission. A role can also contain other roles as members. Image: Cancel of	General Application Stripe ofsII1411#V14.11.0.0.0-b75 Role Name OFSLL_USER	o contain other roles as members.	OK Cancel
tole (of Enterprise Role) is the group of users designed at the enterprise level and typically used to assign a privilege or permission. A role can also contain other roles as members. Here a splication Stripe ofslit 411#V14.11.0.0.0-D75 Role Name OFSLL_USER Description Termeres t	Kole (or Enterprise Role) is the group of users designed at the enterprise level and typically used to assign a privilege or permission. A role can als seneral Application Stripe obli1411#V14.11.0.0.0-b75 Role Name OFSLL_USER	o contain other roles as members.	OK Cancel
tole (or Enterprise Role) is the group of users designed at the enterprise level and typically used to assign a privilege or permission. A role can also contain other roles as members. enterprise Role) is the group of users designed at the enterprise level and typically used to assign a privilege or permission. A role can also contain other roles as members. enterprise Role) is the group of users designed at the enterprise level and typically used to assign a privilege or permission. A role can also contain other roles as members. enterprise Role) is the group of users designed at the enterprise level and typically used to assign a privilege or permission. A role can also contain other roles as members. Bisplay Name OFSLL USER Description OFSLL USER an application role may need to be mapped to users or groups defined in enterprise LDAP server, or the role can be mapped to other application roles. View ★ find	(ole (or Enterprise Role) is the group of users designed at the enterprise level and typically used to assign a privilege or permission. A role can als energinal Application Stripe Role Name OFSLL_USER	o contain other roles as members.	
Application Stripe ofsH11HV1411.0.0.0-575 Role Name OFSLL_USER Display Name OFSLL USER Display Name OFSLL USER	Application Stripe ofsl11411#V14.11.0.0.0-b75 Role Name OFSLL_USER		
Role Name OFSLL_USER Display Name OFSLL USER Description Personal of the mapped to users or groups defined in enterprise LDAP server, or the role can be mapped to other application roles. View * Image: Mathematication for the mapped to users or groups defined in enterprise LDAP server, or the role can be mapped to other application roles. Name Display Name Type	Role Name OFSLL_USER		
Display Name OFSLL USER Description Descri			
Description embers anaptication role may need to be mapped to users or groups defined in enterprise LDAP server, or the role can be mapped to other application roles. view v Image: Add to be the mapped to users or groups defined in enterprise LDAP server, or the role can be mapped to other application roles. View v Image: Detach Name Display Name	Display Name OFSLL USER		
Description embers napplication role may need to be mapped to users or groups defined in enterprise LDAP server, or the role can be mapped to other application roles. View v Image: Comparison of the role can be mapped to other application roles. View v Image: Comparison of the role can be mapped to other application roles. Name Display Name Type	of del open		
embers an application role may need to be mapped to users or groups defined in enterprise LDAP server, or the role can be mapped to other application roles. View v 1 4 Add V Delete 12 Detach Name Display Name Type			
application role may need to be mapped to users or groups defined in enterprise LDAP server, or the role can be mapped to other application roles. View v Add Delete and Delete and Delete Type	Description		
napplexation role may need to be mapped to users or groups defined in enterprise LDAP server, or the role can be mapped to other application role. View * Add * Delete * Delete * Delete * Type			
View v Add Delete Delete Display Name Type	lembers		
Name Display Name Type	in application role may need to be mapped to users or groups defined in enterprise LDAP server, or the role can be mapped to other application r	oles.	
	View 💌 🕂 Add 💢 Delete 🗑 Detach		
DEMOSUPR	Name	Display Name	Туре
	DEMOSUPR		User

- 7. Click Add. Select type as Group. Click on the arrow head button.
- 8. Follow the given steps to select the Principal OFSLL_USER to add and click OK. The following window is displayed.

17 S.C.	nd select the application role	s that you want to grant permissions to	D.		
Search					
	Type G	roup 🗸			
	Principal Name St	arts With			
	Thirdpar Name St				
	Display Name St	arts With 🖌	•		
earched Principals					
View + 🔛 Detacl					
Principal	Display Name	Description			
No search conducted					
Check to enter princ	pal name here instead of sea	rching from above. This option can be	used for advanced scenarios rel	ated to custom authenticators.	

Figure 6-5 Mapping Enterprise Group 5



9. Check the check box in Advanced options. Enter the name of Group manually.

	dd Principal				
		ect the application roles th	at you want to grant permissions to.	~	
1	Search				
		Type Group			
		Principal Name Starts	With		
		Display Name Starts	Wath V		
		Staplay Hume Starts			
Se	earched Principals				
1	View * 🔝 Detach				
	Principal	Display Name	Description		
AdminChannelUsers			AdminChannelUsers can access the admin channel.		
	Administrators		Administrators can view and modify all resource attributes and start and stop servers.		
	AppTesters		AppTesters group.		
	CrossDomainConnectors		CrossDomainConnectors can make inter-domain calls from foreign domains.		
	Deployers		Deployers can view all resource attributes and deploy applications.		
	Monitors		Monitors can view and modify all resource attributes and perform operations not restricted by roles.		
	Operators		Operators can view and modify all resource attributes and perform server lifecycle operations.		
Oracle SystemGroup Oracle application software system group.		Oracle application software system group.			
-	Advanced Option				
			and the second		
- 31	Check to enter principal ha	me nere instead of searchi	ing from abc Enter 256 or fewer characters. Inced scenarios related to custom authenticators.	-	
T	Type Group 🗡 * Principal	Name OFSLL_USER	x	~	

Figure 6-6 Mapping Enterprise Group 6

10. Click **OK**.

Figure 6-7 Mapping Enterprise Group 7

Openain_OFSLLREL_domain/OFSLLREL_domain > Application Roles > Edit Application Role Edit Application Role : OFSLL_USER Role (or Enterprise Role) is the group of users designed at the enterprise level and typically used to assign a privilege or permission. A role can also contain other roles as members. Serveral Application Strip Maximum OFSLLUSER Display Name OFSLLUSER Description Image: Control of Con	OK Canc
tole (or Enterprise Role) is the group of users designed at the enterprise level and typically used to assign a privilege or permission. A role can also contain other roles as members. enterprise Role) is the group of users designed at the enterprise level and typically used to assign a privilege or permission. A role can also contain other roles as members. Applications Strip oSELUTER OFSUL_USER OFSUL_USER OFSUL_USER Level Description Level Strip Str	OK Canc
eneral Application Strip ofsil1411#V14.11.0.0.0-b75 Role Name OFSIL_USER Display Name OFSIL_USER Description Image: Comparison of Compariso	
Role Name OFSLL_USER Display Name OFSLL USER Description	
Display Name OFSLL USER Description IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	
Description //	
embers	
embers	
rappinkation fold may need to be mapped to basis of globps demined in emerginise LDAr server, or me role can be mapped to basis appinkation roles. View ▼ + Add X Delete 🔐 Detach	
Name Display Name Type	
DEMOSUPR User	
OFSLL_USER Group)



11. The following window is displayed with the confirmation message as **The Application role** of 'group_name' has been updated.

	CLE [®] Enterpri	se Manager Fus	sion Middleware Control 12		WebLogic Domain 💌 weblogic 💌 🔸
	SLLREL_domain (WebLogic Domain 👻	•			May 6, 2021 3:16:26 PM IST 🔦
() Inform An appl	ation lication role OFSLL_U	SER has been upd	ated.		l
Jomain_OFS	SLLREL_domain/OFSL	LREL_domain > App	olication Roles		
pplicat	ion Roles				
a Search	Application Stripe Role Name	ofsil1411#V14.11.		or roles defined by this application.	🛐 🔝 Detach
1					
	3000	Display	Name	Description	
Role Na		Display		Description	
Role Na	USER	OFSLL		Description	
Role Na OFSLL_	USER ership for OFSLL	OFSLU	USER		
Role Na	USER ership for OF SLL Disp	OFSLL		Description	

Figure 6-8 Mapping Enterprise Group 8

7 Configure JNDI name for HTTP Listener

The following section details the steps to be followed to configure JNDI name for HTTP listener.

Configuring JNDI name for HTTP Listener

7.1 Configuring JNDI name for HTTP Listener

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

	CLE' Enterprise Manager Fusi	ion Mic	Idleware Control 120			WebLogic Domain 👻	weblogic *
t e o	FSLLREL_domain ()					🎦 🔻 🖂 👻 🗛	to Refresh Off
1	🖕 WebLogic Domain 👻					Sep 16, 2	2017 1:36:47 PM IST
Infc Cerl	Home Monitoring	, er	n you own the edit session lock. To	obtain the lo	ck, click "Lock and Ed	it" in the Change Center me	nu.
Serve	Diagnostics Control Logs	► DI	Name AdminServer				
Clust	Environment Deployments JDBC Data Sources	•	Security Realms Security Administration Web Service Security				
	Messaging Cross Component Wiring	*	Application Policies Application Roles	Ey			
	Web Services		System Policies	uster	Machine	State	Health
Deplo	Other Services		Security Provider Configuration			Running	OK
Depic	Administration	÷۲	Audit Registration and Policy			Running	OK
	Refresh WebLogic Domain		Credentials			Running	OK
	Security		Keystore				
Doma	JNDI Browser System MBean Browser & WebLogic Server Administration Console			7 7.			
	Target Sitemap Target Information						
Res	ourse oroup remplates	-					>

Figure 7-1 JNDI for HTTP Listener 1

2. Click Credentials.



Domain OFSI		• FSLLREL domain >	Credentials				3ep 10,	2017 1:38:22 PM 1
Credentia	conne n terrere							
A credential sto	ore is the reposito	ry of security data tha store and manage the	t certifies the aut	nority of entities us	ed by Java SE, Java EE, and ADF a	pplications. Application	ns can use the Crede	ntial Store, a sin
	I Store Provider	store and manage th	en credentials sec	ureiy.				
View *	+ Create Map		/ Edit	X Delete	Credential Key Name	•	🕍 Detach	
Credenti	ial l	8			Туре	Descriptio	n))	
No credentials	s found.							

Figure 7-2 JNDI for HTTP Listener 2

3. Click Create Map.

ORACL	E'Enter	rprise Manager	Fusion Middleware Control 12c		WebLogic Domain 👻 weblogic	* <u>1</u>
Domain_OFSLLREI		* FSLLREL_domain > 1		and by Java SE, Java EE, and ADE a	Sep 16, 2017 1:38:22 P applications. Applications can use the Credential Store, a 1	
Credential Stor	provider to s	store and manage the	eir credentials securely.		Shumanara (Shumana ani ang ng n	and a set
View + C	reate Map	+ Create Key	🖌 Edit 🗙 Delete	Credential Key Name	Detach	
Credential		_		Type	Description	
No credentials foun	d.	Create Map)			
					OK Cancel	

Figure 7-3 JNDI for HTTP Listener 3

- 4. Enter Map name as ofsll.http.listener.jndi.
- 5. Click OK.



WebLogic Domain 👻				Sep 16, 2017 2:28:28 PM IST
Information				
The credential map, ofsll.http.listener.jndi, has	s been created.			
main_OFSLLREL_domain/OFSLLREL_domain > 0	Credentials			
redentials				
redential store is the repository of security data that	certifies the authority of entities us	sed by Java SE, Java E	E, and ADF ap	plications. Applications can use the Credential Store, a single,
solidated service provider to store and manage the	ir credentials securely.			
Credential Store Provider				
iew 🔻 🕂 Create Map 🕂 Create Key	🖉 Edit 🗙 Delete	Credential Key Name		▶ 🔤 Detach
Credential			Гуре	Description
Credential				
ofsll.http.listener.jndi				

Figure 7-4 JNDI for HTTP Listener 4

6. Click Create Key Button.

OFSLLREL_domain WebLogic Domain OFSLLREL_domain/OFSLL				
omain OFSLEREL domain/OFSLE	and the second second second second		Sep 15, 20	017 2.28:28 PM IST 📌
redentials				
nsolidated service provider to s	security data that certifies th reate Key	e authority of entities used by Java SE, Java EE,	and ADF applications. Applications can use the Credent	ial Store, a single,
View - + Create Map	Select Map	ofsil. http. listener. jndi 💌	ph	
Credential	* Key			
ofsll.http.listener.jr	Туре	Password		
	* User Name			
	* Password			
	* Confirm Password			
	Description			
	Description			
1000				
1000			OK Cancel	
and the second second				
	_		OK Cancel	

Figure 7-5 JNDI for HTTP Listener 5

- 7. Enter the followng details as per your requirement.
 - Key: jndiname
 - Credential: java:comp/env/jdbc/ofsllDBConnDS
 - Type:Generic

 Information The credential map, ofsli. 	http.listener.jndi, has been cre	ated.			
Domain_OFSLLREL_domain/O	Create Key			×	
A credential store is the reposito monoidated service provider to Credential Store Provider View + Create Map Credential	s * Key	ofsil http.listener.jndi			ne Credential Store, a single
ofsil http.listener,		Enter as text. O Enter map of property name and a java.comp/envidbg/ofsIIDBConnDSJ	value pairs		
			ОК	Cancel	

Figure 7-6 JNDI for HTTP Listener 6

8. Click OK.

	LLREL_domain () VebLogic Domain 👻					Sep 16	, 2017 2:28:28 PM	IST
1) Informat	tion							
The crede	ential key, jndiname, has been creat	ed.						
	LREL_domain/OFSLLREL_domain > IS pre is the repository of security data that arvice provider to store and manage the	it certifies the authority of entities us	ed by Java SE, Java I	EE, and ADF ap	plications. Application	ons can use the Cred	ential Store, a si	ngi
credential sto nsolidated se	IIS ore is the repository of security data that	it certifies the authority of entities us			oplications. Applicatio	ons can use the Cred	ential Store, a si	ngi
credential sto nsolidated se Credential	IIS are is the repository of security data tha ervice provider to store and manage the	it certifies the authority of entities us	ed by Java SE, Java I Credential Key Name		plications. Applicatio	ons can use the Cred	ential Store, a si	19
credential sto nsolidated se Credential	IS re is the repository of security data tha ervice provider to store and manage the I Store Provider + Create Map + Create Key	t certifies the authority of entities us ir credentials securely.	Credential Key Name		pplications. Applications	🔝 Detach	ential Store, a si	ng

Figure 7-7 JNDI for HTTP Listener 7

8 Configure JMS Queue

The following steps are to be performed to configure the JMS Queue through the Weblogic Console:

- Create Data Sources for JMS Queue
- AQ-JMS Queue Configuration
- Outbound Queue Configuration
- Configure External Client Certificates
- Create Credentials and System Policies
- Deploy MDB EJB

8.1 Create Data Sources for JMS Queue

Follow the below steps to create data sources for JMS queue.

Create Data Sources for JMS Queue

8.1.1 Create Data Sources for JMS Queue

1. Login to Oracle Weblogic 12c console (http://hostname:port/console).





Figure 8-1 Data Sources for JMS Queue 1

2. On successful login, the following window is displayed.



Change Center	🔒 Home Log Out Preferences 🔤	Record Help	2	
View changes and restarts		Welcor	me, weblogic Connected to: OFSLLREL_domai	
Click the Lock & Edit button to modify, add or delete items in this domain.	Home			
Lock & Edit	Home Page			
Release Configuration	- Information and Resources			
	Helpful Tools	General Information		
Domain Structure	Configure applications	Common Administration Task De	scriptions	
OFSLLREL_domain Domain Partitions Environment Deployments Deformers	Configure GridLink for RAC Data Source Configure a Dynamic Cluster Recent Task Status	Read the documentation Ask a question on My Oracle Support		
9-Services Security Realms 9-Interoperability 9-Diagnostics	Set your console preferences Oracle Enterprise Manager			
	- Domain Configurations			
	Domain	Resource Group Templates	Interoperability	
	Domain	Resource Group Templates	WTC Servers Jolt Connection Pools	
	Domain Partitions	Resource Groups		
low do I 🗉	Domain Partitions	Resource Groups	Diagnostics	
 Search the configuration 	Partition Work Managers		Log Files	
 Use the Change Center 		Deployed Resources	Diagnostic Modules	
 Record WLST scripts 	Environment	 Deployments 	Built-in Diagnostic Modules	
Change Console preferences	Servers		Diagnostic Images	
 Manage Console extensions 	Clusters	Services	Request Performance	
Monitor servers	Server Templates Migratable Targets	Messaging	Archives Context	
System Status 🖂		 JMS Servers Store-and-Forward 	SNMP	
-	Conerence Clusters Machines	 Agents 	Interceptors	
Health of Running Servers as of 11:23 AM	Machines Virtual Hosts	 JMS Modules 		
Failed (0)	Virtual Targets	Path Services	Charts and Graphs	
Critical (0)	Wed. Message	 Bridges 	· Menitorian Darbboard	

Figure 8-2 Data Sources for JMS Queue 2

3. Click Domain Name > Services > Data Sources.

Change Center		Home Log O	ut Preferences	Record Help	Q						
View changes and restarts				1	Welcome, weblogic Connected to: OFSLLREL_domain						
lick the <i>Lock & Edit</i> button to modify, add o		Home >Summary of JDBC Data Sources									
elete items in this domain.	S	Summary of JDB	C Data Sources								
Lock & Edit	6	Configuration	Monitoring								
Release Configuration		_									
omain Structure					database connectivity through a pool of JDBC						
SLLREL_domain		connections. Applications can look up a data source on the JNDI tree and then borrow a database connection from a data									
Domain Partitions	^	source.									
- Environment - Deployments		This page sum	narizes the JDBC (data source objects that have been c	reated in this domain.						
Services											
+-Messaging		Customize th	is table								
-Data Sources			(m), 1	61 F. 13							
Persistent Stores			(Filtered - More	and a second second second							
Foreign JIND1 Providers	Foreign JNDI Providers Click the Lock & Edit button in the Change Center to activate all the buttons on this page.										
-Work Contexts		Click the LOCK	e Eale button in tr	he Change Center to activate all the t	buttons on this page.						
Work Contexts XML Registries		-		e Change Center to activate all the t							
XML Registries XML Entity Caches		New - Del		e Change Center to activate all the t	buttons on this page. Showing 1 to 9 of 9 Previous Next						
-XML Registries	~	-	ete	vpe JNDI Name							
XML Registries XML Entity Caches jCOM Mail Sessions	~	New - Del	ete Tı		Showing 1 to 9 of 9 Previous Next						
XML Registries XML Entity Caches JCOM Mail Sessions ow do I	-	New - Del	ete Tj B Ge	ype JNDI Name	Showing 1 to 9 of 9 Previous Next Targets						
-XML Registries -XML Entity Caches -COM -Mail Sessions ow do I Create JDBC generic data sources	~	New Del Aq-JMS-D Jdbc/dbk1	ete T1 B Ge 05nlEJBDS Ge	ype JNDI Name eneric jdbc/aqimsdb	Showing 1 to 9 of 9 Previous Next Targets OFSLL_ManagedServer						
-XML Registries -XML Entity Caches - JCOM - Mail Sessions ow do I Create JDBC generic data sources Create JDBC GridLink data sources		New Del Aq-JMS-D Jdbc/dbk1	B Ge 05nlEJBDS Ge blDataSource Ge	ype JNDI Name inaric jdbc/aqimsdb inaric jdbc/dbk105nlEJBD5	Showing 1 to 9 of 9 Previous Next Targets OFSLL_ManagedServer WS_ManagedServer						
XML Registries XML Entity Caches 	•	New Del Name & AQ-JMS-D jdbc/dbk1 LocalSvcT	B Ge 05nlEJBDS Ge blDataSource Ge Ge	ype JNDI Name ineric jdbc/aqimsdb eneric jdbc/dbk105nlEJBD5 eneric jdbc/LocalSvcTblDataSource	Showing 1 to 9 of 9 Previous Next Targets OFSLL_ManagedServer WS_ManagedServer AdminServer						
	>	New V Dell Name A AQ-JMS-D jdbc/dbk1 LocalSvcT mds-adf	B Ge DSnIEJBDS Ge blDataSource Ge Ge	ype JNDI Name ineric jdbc/aqimsdb ineric jdbc/dbk105nlEJBD5 eneric jdbc/LocalSvcTblDataSource eneric jdbc/mds/adf	Showing 1 to 9 of 9 Previous Next Targets OFSLL_ManagedServer WS_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer						
-XML Registries -XML Entity Caches -XML Entity Caches -XML Entity Caches -Mail Sessions -Mail Sessions -Mail Sessions -Mail Sessions -Mail Sessions -XML Cache Sources Create JDBC GridLink data sources Create JDBC multi data sources Create UCP data sources Create Proxy data sources		New > Del Name @ AQ-JMS-D jdbc/dbk1 LocalSvcT mds-adf OFSLL	ete Tr B Ge OSnEJBDOS Ge bIDataSource Ge Ge COBDS Ge	ype JNDI Name Ineric jdbc/aqimsdb Ineric jdbc/dbk105nIEJBD5 Ineric jdbc/LocalSvcTbIDataSource Ineric jdbc/mds/adf Ineric jdbc/ofsIIDBConnD5	Showing 1 to 9 of 9 Previous Next Targets OFSLL_ManagedServer WS_ManagedServer AdminServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer,						
- XML Registries - XML Entity Caches - JCOM - Mail Sessions - Mail Sessions - Mail Sessions - Mail Sessions - Mail Sessions - Sess		New Del Name AQ-JMS-D Jdbc/dbk1 LocalSvcT Mds-adf OFSLL opss-audi	ete T B G4 05nlEJBDS G4 blDataSource G4 G4 -DBDS G4 -viewDS G4	ype JNDI Name eneric jdbc/aqimsdb eneric jdbc/dbk105nlEJBDS eneric jdbc/LocalSvcTblDetaSource eneric jdbc/Nds/adf eneric jdbc/ofsllDBConnDS eneric jdbc/AuditAppendDataSource	Showing 1 to 9 of 9 Previous Next Targets OFSLL_ManagedServer WS_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer, MS_ManagedServer,						

Figure 8-3 Data Sources for JMS Queue 3

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

Change Center		🔒 Home Log Ou	t Prefe	rences	🗠 Red	cord Help	Q			
View changes and restarts						1	Welcome, weblogic Connected to: OFSLLREL_dom			
No pending changes exist. Click the Release		Home >Summary of JDBC Data Sources								
Configuration button to allow others to edit domain.	the	Summary of JDBC	C Data S	Sources						
Lock & Edit		Configuration	Monito	ring						
Release Configuration										
Domain Structure							database connectivity through a pool of JDBC and then borrow a database connection from a data			
OFSLLREL domain		source.			-0.00000					
Domain Partitions Environment	^	This page summ	arizes t	he JDBC	data so	ource objects that have been c	reated in this domain.			
DeploymentsServices Messaging		Customize this	a table							
-Data Sources		Data Sources (I	Filtered	- More	Colun	nns Exist)				
Persistent Stores Foreign JNDI Providers		New > Delete Showing 1 to 9 of 9 Previous Next								
Work Contexts XML Registries		Generic Data S GridLink Data S	Jhr	т	ype	JNDI Name	Targets			
XML Entity Caches iCOM	~	Multi Data Sou		G	eneric	jdbc/aqjmsdb	OFSLL_ManagedServer			
-Mail Sessions		Proxy Data Sou	Ince	IS G	eneric	jdbc/dbk105nlEJBDS	WS_ManagedServer			
How do I	8	UCP Data Sour	105767	urce G	eneric	jdbc/LocalSvcTblDataSource	AdminServer			
Create JDBC generic data sources			_	G	eneric	jdbc/mds/adf	AdminServer, OFSLL_ManagedServer			
Create JDBC GridLink data sources		OFSLL		G	eneric	jdbc/ofsllDBConnDS	AdminServer, OFSLL_ManagedServer			
Create JDBC multi data sources Create UCP data sources		opss-audit-	DBDS	G	eneric	jdbc/AuditAppendDataSource	AdminServer, OFSLL_ManagedServer, WS_ManagedServer			
Create Proxy data sources		opss-audit-	viewDS	G	eneric	jdbc/AuditViewDataSource	AdminServer, OFSLL_ManagedServer, WS_ManagedServer			
System Status	8	opss-data-	source	G	eneric	jdbc/OpssDataSource	AdminServer, OFSLL_ManagedServer, WS_ManagedServer			
Health of Running Servers as of 7:58 PM		WLSSchem	aDataSc	ource G	eneric	jdbc/WLSSchemaDataSource				
Failed (0) Critical (0)		New - Dele	te				Showing 1 to 9 of 9 Previous Next			

Figure 8-4 Data Sources for JMS Queue 4

5. The following window is displayed.

Figure 8-5 Data Sources for JMS Queue 5

ORACLE WebLogic Server Ad	ninistration Console 12c	Q
Change Center	🔒 Home Log Out Preferences 🖾 Record Help	Welcome, weblogic Connected to: OFSLLREL_domain
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	JDBC Data Source Properties The following properties will be used to identify your new JDBC data source. * Indicates required fields	
Domain Structure OFSLLREL domain	Indicaces required netas	
-Domain Partitions -Environment	What would you like to name your new JDBC data source?	
Deployments Services Security Realms	* Name: QueueAppDS	
Interoperability Diagnostics	What scope do you want to create your data source in ? Scope: Global	
	What JNDI name would you like to assign to your new JDBC Data Source?	
How do I • Create JDBC generic data sources	<u>idbc/QueueAppDS</u>	
Create LLR-enabled JDBC data sources	1	
System Status	What database type would you like to select?	
Health of Running Servers as of 6:10 PM	Database Type: Oracle 🗸	
Failed (0) Critical (0) Overloaded (0)	Back Next Finish Cancel	
Warning (0) OK (3)		



- 6. Specify the following details:
 - Enter Data source Name: QueueAppDS
 - Enter the JNDI Name as jdbc/QueueAppDS.

Note:

If required, you may specify any other JNDI name, but ensure to use the same JNDI name during other configuration steps.

- Select Oracle as Database Type.
- 7. Click Next.

The following window is displayed.

Change Center	🔒 Home Log Out Preferences 🔤 Record Help	
View changes and restarts	Welcome, weblogic Connected to: OFSLLREL_domain	
No pending changes exist. Click the Release	Home >Summary of Services >Summary of JDBC Data Sources	
Configuration button to allow others to edit t domain.	Create a New JDBC Data Source	
Lock & Edit	Back Next Finish Cancel	
Release Configuration	JDBC Data Source Properties	
Domain Structure	The following properties will be used to identify your new JDBC data source.	
OFSLIREL_domain Domain Partitions Deployments Deployments Security Realms	Database Oracle Type: What database driver would you like to use to create database connections? Note: * indicates that the driver is explicitly	
Interoperability Diagnostics	supported by Oracle WebLogic Server.	
	Database *Oracle's Driver (Thin XA) for Service connections; Versions:Any	
How do I		
Create JDBC generic data sources		
Oreate LLR-enabled JDBC data sources		
System Status		
Health of Running Servers as of 4:04 PM		
Failed (0)		
Critical (0) Overloaded (0)		
Warning (0)		
OK (2)		1200

Figure 8-6 Data Sources for JMS Queue 6

- 8. Select the Database Driver Oracle's Driver(Thin XA) for Services connections;Versions:Any.
- 9. Click Next.

Figure 8-7 Data Sources for JMS Queue 7

Create a New JDBC Data Source
Back Next Finish Cancel
Transaction Options
You have selected an XA JDBC driver to use to create database connection in your new data source. The data source will support global transactions and use the 'Two-Phase Commit' global transaction protocol. No other transaction configuration options are available.
Back Next Finish Cancel

10. Click Next.

The following window is displayed.

Change Center		🙆 Home Log Out Preferences 🔤 R	ecord Help
View changes and restarts			Welcome, weblogic Connected to: OFSLLREL_doma
No pending changes exist. Click the Releas	e	Home >Summary of JDBC Data Source	5
Configuration button to allow others to edi domain.	t the	Create a New JDBC Data Source	
Lock & Edit		Back Next Finish Cancel	
Release Configuration		Dack INEXL FINISH Cancel	
		Connection Properties	
omain Structure		Define Connection Properties.	
DFSLLREL_domain	~	What is the name of the database you v	would like to connect to?
Environment		Database Name:	
Deployments		Database Name:	OLLDB
-Services		What is the name or IP address of the r	Hatahaca canvar?
Data Sources			
Persistent Stores		Host Name:	ofsll.oralce.com
Work Contexts			
-XML Registries -XML Entity Caches		What is the port on the database server	r used to connect to the database?
JCOM	~	Port:	1521
	_		konstructurt
low do I	E	What database account user name do y	you want to use to create database connections?
Create JDBC generic data sources		Database User Name:	OFSLLREL
Create LLR-enabled JDBC data sources			
	=	What is the database account password	to use to create database connections?
System Status		Password:	Instance metabolic de la companya de
Health of Running Servers as of 8:07 PM			•••••
Failed (0)		Confirm Password:	*******
Critical (0)			
Overloaded (0) Warning (0)		Additional Connection Properties:	
OK (3)			
		oracle.jdbc.DRCPConnectionClass:	

Figure 8-8 Data Sources for JMS Queue 8

- **11.** Enter the Database details.
- 12. Click Next.

Change Center		Home Log Out Pre	eferences 🔯 Record Help		Q	
View changes and restarts				Welc	ome, weblogic	Connected to: OFSLLREL_domain
No pending changes exist. Click the Release		Home >Summary of JE	OBC Data Sources			
Configuration button to allow others to edit domain.	the	Create a New JDBC Da	ata Source			
Lock & Edit Release Configuration		Test Configuration	Back Next Finish	Cancel		
Release Conliguration		Test Database Conr	nection			
Domain Structure		Test the database ava	ailability and the connection p	properties you provided.		
OFSLLREL_domain	^		e name of JDBC driver class (e connection pool?
Environment Deployments Services		(Note that this driver d	lass must be in the classpath	of any server to which it	is deployed.)	
Messaging — Data Sources		Driver Class Name:	oracle.jdbc.OracleDriv	er		
Persistent Stores Foreign JNDI Providers Work Contexts		What is the URL of the	database to connect to? The	format of the URL varie	s by JDBC driver.	
-XML Registries XML Entity Caches		URL:	jdbc:oracle:thin:@//ofs	II.oralce.com:1521/C	LLDB	
-jCOM	~	What database account	t user name do you want to u	use to create database co	onnections?	
How do I	E	Database Use r Name:	OFSLLREL			
Create JDBC generic data sources Create LLR-enabled JDBC data sources		What is the database a	ccount password to use to cr	reate database connectio	ns?	
		(Note: for secure passy	word management, enter the	password in the Passwo	rd field instead of	f the Properties field below)
System Status						
Health of Running Servers as of 8:07 PM		Password:	•••••	• •		
Failed (0) Critical (0)		Confirm Password:	•••••	•1		
Overloaded (0) Warning (0) OK (3)		What are the properties	s to pass to the JDBC driver v	when creating database (connections?	
		Properties:				

Figure 8-9 Data Sources for JMS Queue 9

- **13.** Click **Test Configuration**. On completion, displays a confirmation message as **Connection test succeeded**.
- 14. Click Next.

ORACLE WebLogic Server A	Iministration Console 12c	Q
Change Center	🏦 Home Log Out Preferences 🔄 Record Help	doma
View changes and restarts	Home >Summary of Services >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 Domain Structure	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. You will need to deploy the data source at a later time.	A.
OFSLLREL_domain	Servers	
Domain Partitions Environment Deployments	AdminServer	
E Services Security Realms	☑ OFSLL_ManagedServer	
B- Interoperability Diagnostics	UWS_ManagedServer	
How do I	Back Next Finish Cancel	
Create JDBC generic data sources Create LLR-enabled JDBC data sources		
System Status		
Health of Running Servers as of 3:00 PM		
Failed (0) Critical (0)		
Overloaded (0)		
Warning (0) OK (3)		

Figure 8-10 Data Sources for JMS Queue 10

- **15.** Select target Server as **OFSLL_ManagedServer**.
- 16. Click Finish to activate the changes.

Update the following parameters in JDBC data source connection pool:

- 1. Select Services > Data Sources > select the QueueAppDS data source > Connection Pool.
- 2. Initial capacity and Maximum capacity is defaulted to 30, if the number of concurrent users are more this needs to be increased.
- 3. To Enable GRI (Generic Recovery Interface) CLOB logging from MDB to DB, click Advanced button and deselect the Wrap Data Types check box.
- 4. Click Advanced button and update the Inactive Connection Timeout to 300 seconds.
- 5. Click **Save** and restart the Data source.

8.2 AQ-JMS Queue Configuration

AQ-JMS queue is used to hold webservice invocation exception messages. It provides a mechanism for third parties to handle communication related failures.

Perform the following steps to configure AQ-JMS queue in application server.

- Create JMS Server
- Create JMS Module
- Subdeployment
- Create JMS Connection Factory
- Create JMS Queue



8.2.1 Create JMS Server

Follow the below steps to create JMS server.

 Login to WebLogic Server 12c console (http://hostname:port/console). The following screen is displayed.

Figure 8-11 Create JMS Server 1

ORACLE WebLogic Server Administration Console	12c	
120	Log in to work with Username: Password:	Welcome the WebLogic Server domain weblogic

 Specify the Weblogic administrator user name and password and click Log In. The Oracle Weblogic home page is displayed.



Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: OFSLLREL_doma
View changes and restarts	Home		
Click the Lock & Edit button to modify, add or delete items in this domain.	Home Page		
Lock & Edit	- Information and Resources		
Release Configuration	Helpful Tools	General Information	
Troibace comparation	Configure applications	Common Administration Task Descriptions	
Domain Structure	Configure GridLink for RAC Data Source	Read the documentation	
DFSLLREL_domain	Configure a Dynamic Cluster	 Ask a question on My Oracle Support 	
Domain Partitions	Recent Task Status		
Environment Deployments	Set your console preferences		
Bervices	Oracle Enterprise Manager		
Security Realms	- Domain Configurations		
Diagnostics			
	Domain	Resource Group Templates	Interoperability
	• Domain	Resource Group Templates	WTC Servers
			Jolt Connection Pools
	Domain Partitions	Resource Groups	
	Domain Partitions	Resource Groups	Diagnostics
How do I 🖂	Partition Work Managers		Log Files Diagnostic Modules
Search the configuration	Environment	Deployed Resources	Built-in Diagnostic Modules
Use the Change Center	Servers	Deployments	Diagnostic Images
Record WLST Scripts	Servers Clusters	Services	Request Performance
Change Console preferences	Server Templates	Messaging	Archives
Manage Console extensions	Migratable Targets	Messaging JMS Servers	Context
Monitor servers	Coherence Clusters	 Store-and-Forward Agents 	SNMP
	Machines	 JMS Modules 	Interceptors
System Status	Virtual Hosts	Path Services	
Health of Running Servers	Virtual Targets	 Bridges 	Charts and Graphs
Failed (0)	Work Managers	Data Sources	Monitoring Dashboard
Critical (0)	Concurrent Templates	Persistent Stores	
Overloaded (0)	Resource Management	XML Registries	
Warning (0)	Startup And Shutdown Classes	XML Entity Caches	
OK (3)		Foreign JNDI Providers	
	Application's Security Settings	Work Contexts	
	Security Realms	• 1COM	

Figure 8-12 Create JMS Server 2

- 3. Click Domain Name > Services > Messaging > JMS Server.
- 4. In the main window, click Lock & Edit.

The following window is displayed.

Figure 8-13 Create JMS Server 3

Change Center	Home L	og Out Pref	erences 🛃 Record Help		Q		Welcome, wel	logic Connected to: OFSLLREL_doma
View changes and restarts	Home >Sun	mary of JM	5 Servers					
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Summary of	JMS Serve	rs					
Lock & Edit	JMS serve	s act as mar	nagement containers for the qu	eues and topics in	JMS modules that are targete	d to them.		
Release Configuration	This page	summarizes	the JMS servers that have been	created in the cu	rrent WebLogic Server domain	L.		
Domain Structure	Customiz	e this table	í.					
DFSLLREL_domain Domain Partitions	JMS Serve	rs (Filtered	- More Columns Exist)					
E-Environment Deployments	New	New Delete Showing 0 to 0 of 0 Previous N						
∋-Services ⊨-Messaging	🗆 Nam	e 🊕	Persistent Store	Target	Current Target	Health	Scope	Domain Partitions
	There are no items to display							
JMS ModulesPath Services BP-BridgesData SourcesPersistent StoresForeion INDI ProvidersForeion INDI Providers	New	lelete						Showing 0 to 0 of 0 Previous Next
low do I 🖂	1							
Configure JMS servers								
Configure JMS system modules								
System Status								
Health of Running Servers								

5. Click New.



Change Center	😥 Home Log Out Preferences 🙆 Record Help							
View changes and restarts	Home >Summary of Services >Summary of Services: JMS >Summary of JMS Services							
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration	Create a New JMS Server Back Next Finish Cancel JMS Server Properties The following properties will be used to identify your new JMS Server.							
Domain Structure OFSLLREL domain	* Indicates required fields							
⊕ Domain Partitions ⊕ Environment ⊕ Deployments ⊕ Services ⊕ Services E Interoperability ⊕ Diagnostics	What would you like to name your new JMS server? Image: OfsilJMSServer Would you like this new JMS server to be restricted to a specific resource group template or resource group ? Scope: Global Image: Gl							
How do I 🖂								
Configure JMS system modules Configure custom persistent stores								
System Status								
Health of Running Servers as of 4:46 PM								
Failed (0) Critical (0) Overloaded (0) Warning (0) Ok (3)								

Figure 8-14 Create JMS Server 4

6. Specify the JMS Server Name as **OfsIIJMSServer**. Click Next.

The following window is displayed.

Figure 8-15 Create JMS Server 4

Create a New JMS Server		
Back Next Finish Cancel		
Select Persistent Store		
Specify Persistent Store for the new JM	S Server.	
Persistent Store:	(none) Create a New Store	
Back Next Finish Cancel		

7. Select **None** as the Persistent Store type. Click **Next**.

Figure 8	8-16	Create	JMS	Server	5
----------	------	--------	-----	--------	---

ORACLE WebLogic Server Ad	ministration Console 12c
Change Center	🟦 Home Log Out Preferences 🔤 Record Help
View changes and restarts	Home >Summary of Services >Summary of Services: JMS >Summary of JMS Servers >OfsIUMSServer >Summary of JMS Servers
Pending changes exist. They must be activated to take effect.	Create a New JMS Server
Activate Changes	Back Next Finish Cancel
Undo All Changes	Select targets
Domain Structure	Select the server instance or migratable target on which you would like to deploy this JMS server,
OFSLLREL_domain Domain Partitions Environment Deployments	Target: OFSLL_ManagedServer Back Next Finish Cancel
Services Security Realms Interoperability	



- 8. Select the target managed server and click **Finish**.
- Click Activate Changes under Change Center. Once done, the following window is displayed:

in nome Log Out Preferen	nces 💽 Record Help	Q	Welcome, weblogic	Connected to: OFS	SLLREL_doma
Messages JMS server created succ Summary of JMS Servers	cessfully	20 (10) Mage (20)			
Customize this table		i created in the current WebLo	igic Server domain.		
New Delete		(A.	Show	ing 1 to 1 of 1 Pre	avious Next
🔲 Name 🚕	Persistent Store	Target	Current Targe	t	Health
OfslUMSServer		OFSLL_ManagedServer		and the second se	evious Next
	Messages Market Server created success Market Servers of JMS servers Market Servers act as manage This page summarizes the Customize this table JMS Servers (Filtered - 1 New Delete New Delete OfslUMSServer	Messages ✓ JMS server created successfully Summary of JMS Servers JMS servers act as management containers for the que This page summarizes the JMS servers that have been Customize this table JMS Servers (Filtered - More Columns Exist) New Delete Name ↔ Persistent Store OrisIJMSServer	Messages ✓ JMS server created successfully Summary of JMS Servers JMS servers act as management containers for the queues and topics in JMS module This page summarizes the JMS servers that have been created in the current WebLo Customize this table JMS Servers (Filtered - More Columns Exist) New Delete OrfslJMSServer OFSLL_ManagedServer	Messages ✓ JMS server created successfully Summary of JMS Servers JMS servers act as management containers for the queues and topics in JMS modules that are targeted to the This page summarizes the JMS servers that have been created in the current WebLogic Server domain. Customize this table JMS Servers (Filtered - More Columns Exist) New Delete Show OrigIJMSServer OFSLL_ManagedServer OFSLL_ManagedServer OFSLL_ManagedServer	MS server created successfully Summary of JMS Servers JMS servers act as management containers for the queues and topics in JMS modules that are targeted to them. This page summarizes the JMS servers that have been created in the current WebLogic Server domain. Customize this table JMS Servers (Filtered - More Columns Exist) New Delete Showing 1 to 1 of 1 Pro Name & Persistent Store Target Current Target OfSUL_ManagedServer OFSUL_ManagedServer

Figure 8-17 Create JMS Server 6

8.2.2 Create JMS Module

Follow the below steps to create JMS module.

- Login to WebLogic Server 12c console (http://hostname:port/console) by specifying the Weblogic administrator user name and password.
- 2. Click Domain Name > Services > Messaging > JMS Modules.

ORACLE WebLogic Server Ad	Iministration Console 12c		Q
Change Center	🔒 Home Log Out Preferences 💽 Record Help	Q	Welcome, weblogic Connected to: OFSLLREL_domain
View changes and restarts	Home >Summary of JMS Modules		
Click the Lock & Edit button to modify, add or delete items in this domain.	Summary of JMS Modules		
Lock & Edit Release Configuration	JMS system resources are configured and stored as destination keys, quota, distributed queues, distribut JMS system modules as global system resources.	modules similar to standard Java EE modules. Such r ted topics, foreign servers, and JMS store-and-forwar	esources include queues, topics, connection factories, templates, d (SAF) parameters. You can administratively configure and manage
Domain Structure	This page summarizes the JMS system modules that	have been created for this domain.	
OFSLLREL_domain -Domain Partitions -Environment -Deployments	Customize this table		
Services Security Realms	Click the Lock & Edit button in the Change Center t	o activate all the buttons on this page.	
Interoperability Diagnostics	New Delete		Showing 0 to 0 of 0 Previous Next
	Name 🏟		Туре
		There are no items to display	
	New Delete		Showing 0 to 0 of 0 Previous Next
How do I	<u></u>		
Configure JMS system modules			
Configure resources for JMS system modules			
System Status			
Health of Running Servers as of 9:30 AM			
Falled (0) Critical (0) Overloaded (0) Warning (0)			

Figure 8-18 Create JMS Module 1



3. Click New.

The following screen is displayed.

Change Center	Home I	.og Out Prefer	ences 💽 Record Help	Q	Welcome, weblogic Connected to: OFSLLREL_do
View changes and restarts	Home >Sun	mary of Service	s >Summary of Services: JMS >	Summary of JMS Modules	
No pending changes exist. Click the Release Configuration button to allow others to edit domain. Lock & Edit Release Configuration DFSLREL_domain DFSLREL_domain DFSLREL_domain Deployments Services GM Messaging	he Back N The follo JMS syste connectio (SAF) par. * Indicates	m resources an factories, terr ameters. You c required fields	Cancel ies will be used to identify e configured and stored as m plates, destination keys, quo	odules similar to standard : ta, distributed queues, dist	Java EE modules. Such resources include queues, topics, ributed topics, foreign servers, and JMS store-and-forward nodules as global system resources.
"Plassigning "Data Sources "Persistent Stores "Foreign JNDI Providers "Work Contexts "XNL Registries "XNL Entity Caches "COM "Mail Specions	Scope:		Global		group template or resource group ?
How do I	What would	you like to na	me the descriptor file name?	If you do not provide a nar	me, a default will be assigned.
Configure JMS system modules	Descripto	File Name:	OfsIIJMSModule		
Configure JMS servers	Where wou	ld like to place	the descriptor for this System	n Module, relative to the jm	ns configuration sub-directory of your domain?
System Status	E Location I	n Domain:			
Health of Running Servers as of 5:59 PM Failed (0) Critical (0) Overloaded (0) Warning (0) OK (1)	Back	ext Finish	Cancel		

Figure 8-19 Create JMS Module 2

- 4. Specify the following details:
 - Enter the System Module Name as OfsllJMSModule
 - Enter the Description File Name as OfslIJMSModule
- 5. Click Next.

The following screen is displayed.

	Home Log Out Preferences 🔤 Record Help		Q	Wolcomo woblasis	Connected to: OFSLLREL_domain
Change Center				welcome, weblogic	Connected to: OFSELKEL_domain
View changes and restarts	Home >Summary of Services >Summary of Services: JMS	>Summary of JMS Mod	lules		
No pending changes exist. Click the Releas Configuration button to allow others to edit domain. Lock & Edit Release Configuration	Create JMS System Module Back Next Finish Cancel The following properties will be used to target	your new JMS system	m mo	dule.	
Domain Structure	Use this page to select the server or cluster on which you wish.	n you would like to depl	oy this	JMS system module. Yo	ou can reconfigure targets later if
OFSLLREL_domain Domain Partitions Denvironment Deployments Desvices	Targets : Servers				
Interoperability					
Diagnostics	AdminServer				
	✓ OFSLL_ManagedServer				
	US_ManagedServer				
How do I	 Back Next Finish Cancel				
Configure JMS system modules					
Configure JMS servers					
System Status					
Health of Running Servers as of 7:27 AM					
Failed (0)					
Critical (0)					
Overloaded (0)					
Warning (0)					
OK (3)					

Figure 8-20 Create JMS Module 3

6. Select the target server and click **Next**.

The following window is displayed.

Figure 8-21 Create JMS Module 4

Create JMS System Module
Back Next Finish Cancel
Add resources to this JMS system module
Use this page to indicate whether you want to immediately add resources to this JMS system module after it is created. JMS resources include queues, topics, connection factories, and such.
□ Would you like to add resources to this JMS system module?
Back Next Finish Cancel

7. Click **Finish** to save and activate the changes. Once done, the following window is displayed.

Figure 8	3-22	Create	JMS	Module	5
----------	------	--------	-----	--------	---

ORACLE WebLogic Server Ad	ministration Console 12c		Q
Change Center	🙆 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: OFSLLREL_domain
View changes and restarts Click the <i>Lock & Edit</i> button to modify, add or delete items in this domain.	Home >Summary of JMS Modules Messages # All changes have been activated. No restarts are necessa	ıry.	
Lock & Edit Release Configuration	Summary of JMS Modules		
Domain Structure OFSLERE_domain ⊕ -Domain Partitions ⊕ -Environment → Deployments ⊕ -Services → Security Realms ⊕ -Interoperability ⊕ -Diagnostics	JMS system resources are configured and stored as module destination keys, quota, distributed queues, distributed topy JMS system modules as global system resources. This page summarizes the JMS system modules that have be contained to the system modules that have be contained to the system modules. Customize this table JMS Modules (Filtered - More Columns Exist) Citck the Lock & Edit button in the Change Center to activate the system of the syste	ics, foreign servers, and JMS store-and-	Such resources include queues, topics, connection factories, templates, forward (SAF) parameters. You can administratively configure and manage Showing 1 to 1 of 1 Previous Next
How do I	New Delete		Showing 1 to 1 of 1 Previous Next
Configure JMS system modules Configure resources for JMS system modules			
System Status			
Health of Running Servers as of 9:32 AM Falled (0) Critical (0) Overloaded (0) Warning (0)			

8.2.3 Subdeployment

Follow the below steps to do subdeployment.

- Login to WebLogic Server 12c console (http://hostname:port/console) by specifying the Weblogic administrator user name and password.
- Click Domain Name > Services > Messaging > JMS Modules. The main window displays the list of JMS modules available.
- 3. Select the created JMS module OfsilJMSModule and click Subdeployments tab.

The following window is displayed.

	sliJMSModule				
onfiguration	Subdeployments	Targets	Security	Notes	
ubdeployn	ents				
ubdeployn	ents				Showing 0 to 0 of 0 Previous Nex
ubdeployn	ents			Resources	Showing 0 to 0 of 0 Previous Nex Targets
	ents			and the second se	

Figure 8-23 Subdeployment 1

4. Click New.

The following screen is displayed.



Figure 8-24 Subdeployment 2

Change Center	🔞 Home Log Out Preferences 🔄 Record Help 🛛 🔍 Welcome, weblogic Connected to: OFSLLREL_domain
View changes and restarts	Home >Summary of Services >Summary of Services: 3MS >Summary of 3MS Modules >OfsIIJMSModule
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration	Create a New Subdeployment Back Next Finish Cancel Subdeployment Properties The following properties will be used to identify your new subdeployment.
Domain Structure	* Indicates required fields
OFSLEREL_domain B:- Domain Partitions C:- Environment - Deployments - Services C:- Missaging - Data Sources - Beniciser Concer	* Subdeployment Name: OfsliJMSSD Back Next Finish Cancel

5. Specify the Subdeployment Name as OfsIIJMSSD. Click Next.

The following window is displayed.

Figure 8-25 Subdeployment 3

ORACLE WebLogic Server Ad	ministration Console 12c
Change Center	🟦 Home Log Out Preferences 🐼 Record Help
View changes and restarts	Home >Summary of Services >Summary of Services: JMS >Summary of JMS Modules >OfsIIJMSModule
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New Subdeployment Back Next Finish Cancel
Lock & Edit Release Configuration	Targets Please select targets for the Subdeployment
Domain Structure	Servers
OFSLLREL_domain Domain Partitions Environment Domain sector	OFSLL_ManagedServer
E Services	JMS Servers
Messaging Data Sources Persistent Stores Foreign JNDL Providers	☑ OfsIDMSServer
Work Contexts XML Registries XML Entity Caches 	Back Next Finish Cancel

6. Select the check box against the newly created JMS Server and click **Finish**. Once done, the following window is displayed.

Figure 8-26 Subdeployment 4

	slIJMSModule				
Configuration	Subdeployments	Targets	Security	Notes	
	targeted to a server re			rvers, server instances, or cl	is a mechanism by which JMS module resources (such as queues, topics, and connection factories) are ister).
Subdeploym	ents				
		Change Cen	ter to activ	ate all the buttons on this pa	je.
	k & Edit button in the	Change Cen	ter to activ	ate all the buttons on this pa	je. Showing 1 to 1 of 1 Previous Nex
	<i>k & Edit</i> button in the e	Change Cen	iter to activ	ate all the buttons on this pa	
Click the <i>Loc</i>	k & Edit button in the ste	Change Cen	iter to activ		Showing 1 to 1 of 1 Previous Nex



8.2.4 Create JMS Connection Factory

Follow the below steps to create JMS connection factory.

- Login to WebLogic Server 12c console (http://hostname:port/console) by specifying the Weblogic administrator user name and password.
- 2. Click Domain Name > Services > Messaging > JMS Modules. The main window displays the list of JMS modules available.
- 3. Select the newly created JMS module OfslIJMSModule.

The following window is displayed.

ORACLE WebLogic Server Ad	ministration Console 12c		Q
Change Center	🔞 Home Log Out Preferences 🛃 Record Help	Q	Welcome, weblogic Connected to: OFSLLREL_domain
View changes and restarts	Home >Summary of JMS Modules		
Click the Lock & Edit button to modify, add or delete items in this domain. Lock & Edit Release Configuration			Such resources include queues, topics, connection factories, templates, orward (SAF) parameters. You can administratively configure and manage
Domain Structure	This page summarizes the JMS system modules that	have been created for this domain.	
OFSLLREL_domain Θ -Domain Partitions Θ -Environment \rightarrow Deployments Θ -Services \rightarrow Services	Customize this table JMS Modules (Filtered - More Columns Exist) Click the Lock & Edit button in the Change Center t	o activate all the buttons on this page.	
Interoperability Diagnostics	New Delete		Showing 1 to 1 of 1 Previous Next
	Name OfsIDMSModule New Delete	Type JMSSystemResource	e Showing 1 to 1 of 1 Previous Next
How do I			
Configure JMS system modules Configure resources for JMS system modules System Status Health of Running Servers as of 9:32 AM Falled (0)			
Critical (0) Overloaded (0) Warning (0)			

Figure 8-27 JMS Connection Factory 1

4. Click New.



Figure 8-28 JMS Connection Factory 2

Settings for OfslIJMSModule

uration Subdeployments Targets Security Not	onfiguration Subdeployments Targets Security Notes
---	--

This page displays general information about a JMS system module and its resources. It also allows you to configure new resources and access existing resources.

Name: OfslIJMSModule		The name of this JMS system module. More Info
Scope: Global		Specifies if the JMS system module is accessible within the domain, a partition, or a resource group template. More Info
Descriptor File Name:	jms/OfsllJMSModule-jms.xml	The name of the JMS module descriptor file. More Info

This page summarizes the JMS resources that have been created for this JMS system module, including queue and topic destinations, connection factories, JMS templates, destination sort keys, destination quota, distributed destinations, foreign servers, and store-and-forward parameters.

Customize this table

Summary of Resources

Ne	w Delete			Sh	nowing 0 to 0 of 0 Previous Next
	Name 🙈	Туре	JNDI Name	Subdeployment	Targets
_	-	100	There are no	o items to display	

5. Click Next.



Figure 8-29 JMS Connection Factory 3

Create a New JMS System Module Resource

Back	Next	Finish	Cancel
	202 - EAN	1.0	1

Choose the type of resource you want to create.

Use these pages to create resources in a JMS system module, such as queues, topics, templates, and connection factories.

Depending on the type of resource you select, you are prompted to enter basic information for creating the resource. For targetable resources, like stand-alone queues and topics, connection factories, distributed queues and topics, foreign servers, and JMS SAF destinations, you can also proceed to targeting pages for selecting appropriate server targets. You can also associate targetable resources with subdeployments, which is an advanced mechanism for grouping JMS module resources and the members to server resources.

Connection Factory	Defines a set of connection configuration parameters that are used to create connections for JMS clients. More Info
O Queue	Defines a point-to-point destination type, which are used for asynchronous peer communications. A message delivered to a queue is distributed to only one consumer. More Info
🔘 Торіс	Defines a publish/subscribe destination type, which are used for asynchronous peer communications. A message delivered to a topic is distributed to all topic consumers. More Info
Distributed Queue	Defines a set of queues that are distributed on multiple JMS servers, but which are accessible as a single, logical queue to JMS clients. More Info
O Distributed Topic	Defines a set of topics that are distributed on multiple JMS servers, but which are accessible as a single, logical topic to JMS clients. More Info
C Foreign Server	Defines foreign messaging providers or remote WebLogic

6. Select Connection Factory option and click Next.

Activate Changes	Carden and the second	JMS System Module Resource
Undo All Changes	Back Nex	t Finish Cancel
Domain Structure	Connectio	Factory Properties
OFSLLREL domain	The followin	g properties will be used to identify your new connection factory. The current module is OfsIIJMSModule.
Domain Partitions Environment	* Indicates re	quired fields
Deployments	What would	ou like to name your new connection factory?
Security Realms Interoperability	* Name:	OfsilJMSCF
ur blaghosocs	What JNDI N	ame would you like to use to look up your new connection factory?
	JNDI Name	jms/OfsIIJMSCF
		on Factory Subscription Sharing Policy Subscribers can be used to control which subscribers can access new Should subscriptions created using this factory be sharable?
How do I	8	
 Configure quotas for destinations 	Subscriptio Sharing Pol	
 Configure JMS templates 	The Clines ID	
 Configure destination keys 	the Client ID	Policy indicates whether more than one JMS connection can use the same Client ID. Oracle recommends setting policy to Unrestricted if sharing durable subscribers. Subscriptions created with different Client ID policies are
Configure topics	always treate	d as independent subscriptions. What Client ID Policy would you like to use?
Configure queues	Client ID P	licy: Restricted
Configure connection factories	Chent ID P	Restricted V
 Configure uniform distributed topics 	A connection	factory can limit the number of messages that can queued for an asynchronous session. Should this connection
Configure uniform distributed queues	factory impo	
Configure foreign servers		
Configure JMS SAF	Maximum Messages p Session:	er 10
System Status	Should this c	nnection factory create sessions that are JTA aware, and create XA queues and XA topics?
Health of Running Servers as of 6:22 PM		antice Francis Franklad
Failed (0)	XA Conr	ection Factory Enabled
Critical (0)	Should the a	thenticated user name be attached to sent messages if the JMS destination is configured to support this
Overloaded (0)	behavior ?	
Warning (0)		

Figure 8-30 JMS Connection Factory 4

- 7. Specify the following details:
 - Enter the Name of the Connection Factory as OfsIIJMSCF
 - Enter the JNDI Name as jms/OfsIIJMSCF
 - Select the check box XA Connection Factory Enabled
- 8. Click Next.

Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic	Connected to: OFSLLREL_domain				
View changes and restarts	Home >Summary of Services >Summary of Services: JMS of Services >Summary of Services: JMS >Summary of JM	S >Summary of JMS Modules >C S Modules >OfsllModule	ofsllModule >Summary of JM	5 Modules >OfsllModule >Summary				
No pending changes exist. Click the Release Configuration button to allow others to edit th domain.	Create a New JMS System Module Resource							
Lock & Edit	Back Next Finish Advanced Targeting	Cancel						
Release Configuration	The following properties will be used to target your new JMS system module resource							
Domain Structure OFSLLREL_domain - Domain Partitions	Use this page to view and accept the default target: JMS system module targets. If you do not want to a mechanism for targeting this resource.							
⊕-Environment →-Deployments ⊕-Services ⊕-Interoperability ⊕-Diagnostics	The following JMS module targets will be used as the changed, this resource will also be retargeted approp Targets :		JMS system module reso	urce. If the module's targets are				
	Servers Server							
How do I	Back Next Finish Advanced Targeting	Cancel						
Configure quotas for destinations								
Configure JMS templates Configure destination keys								
Configure deschation keys Configure topics								
Configure queues								
Configure connection factories								
Configure uniform distributed topics								
Configure uniform distributed queues								
Configure foreign servers								
Configure JMS SAF								

Figure 8-31 JMS Connection Factory 5

9. Click Advanced Targeting.



Change Center	🟦 Home Log Out Preferences 🔤 Record Help
View changes and restarts	Welcome, weblogic Connected to: OFSLLREL_domain
Pending changes exist. They must be activated	Home >Summary of Services >Summary of Services: JMS >Summary of JMS Modules >OfsIlJMSModule
a Activate Changes	Create a New JMS System Module Resource
Undo All Changes	Back Next Finish Cancel
Domain Structure	The following properties will be used to target your new JMS system module resource
DFSLLREL_domain Domain Partitions Deployment Deployments Describes	Use this page to select a subdeployment to assign this system module resource. A subdeployment is a mechanism by which JMS resources are grouped and targeted to a server instance, cluster, or SAF agent. If necessary, you can create a new subdeployment by clicking the Create a New Subdeployment button. You can also reconfigure subdeployment targets later by using the parent module's subdeployment management page.
Security Realms T-Interoperability Diagnostics	Select the subdeployment you want to use. If you select (none), no targeting will occur. Subdeployments: OfsIIJMSSD V Create a New Subdeployment
	What targets do you want to assign to this subdeployment? Targets :
How do I 🖂	Servers
Configure quotas for destinations Configure JMS templates	OFSLL_ManagedServer
Configure destination keys	JMS Servers
Configure topics Configure queues	✓ OfsIIJMSServer
Configure connection factories	
Configure uniform distributed topics Configure uniform distributed queues	Back Next Finish Cancel
Configure foreign servers	
Configure JMS SAF	

Figure 8-32 JMS Connection Factory 6

- 10. Select the Subdeployments as OfsIIJMSSD from the drop down list.
- **11**. Under JMS Servers, select the check box against **ofsllJMSServer**.
- 12. Click **Finish** to save and activate the changes. Once done, the following window is displayed.

Figure 8-33 JMS Connection Factory 7

	IJMSModule						
Configuration	Subdeployments	Targets	Security N	Notes			
This page disp existing resou		ion about a	JMS system m	nodule and its res	ources. It also allows you to con	figure new resources and acces	
Name:		OfslijM	SModule		The name of this JMS s	system module. More Info	
Scope:		Global			Specifies if the JMS system module is accessible within the domain, a partition, or a resource group template. More Info		
Descriptor File Name:		jms/OfsIIJMSModule-jms.xml		The name of the JMS module descriptor file. More Info			
	marizes the IMS reso				ystem module, including queue	and topic destinations,	
	itories, JMS templates	s, destination	n sort keys, de	estination quota, d		ervers, and store-and-forward wing 1 to 1 of 1 Previous Ne	

8.2.5 Create JMS Queue

Follow the below steps to create JMS queue.

- Login to WebLogic Server 12c console (http://hostname:port/console) by specifying the Weblogic administrator user name and password.
- Click Domain Name > Services > Messaging > JMS Modules. The main window displays the list of JMS modules available.
- 3. Select the newly created JMS module OfslIJMSModule.



Figure 8-34 JMS Queue 1

Change Center	Home Log O	ut Preferences 🔤	Record He	P		Q Welco	ome, weblogic	Connected to: OFSLLREL_do
View changes and restarts	Home >Summary	of Services >Summar	y of Services:	JMS >Sumi	mary of JMS Module	s >OfsliJMSModule		
Click the Lock & Edit button to modify, add or delete items in this domain.	Settings for OfsIIJMSModule							
	Configuration	Subdeployments	Targets	Security	Notes			
Lock & Edit				14				
Release Configuration	This nage displa	avs general informat	tion about a	MS system	n module and its r	resources. It also allo	ws you to confid	ure new resources and access
Domain Structure	existing resource		.on about a	ino oyotai			ino you to comig	
DFSLLREL_domain Dromain Partitions	Name:		OfsIIIM	Module		The nan	ne of this 1MS sv	stem module. More Info
B-Environment								
Deployments	Scope:		Global				Specifies if the JMS system module is accessible within the domain, a partition, or a resource group	
E-Services							template. More Info	
-Interoperability	Descriptor File	Descriptor File Name: jms/OfsllJMSModule-jms.xml				The end	The name of the JMS module descriptor file. More	
⊞-Diagnostics	Descriptor rite	Descriptor File Name: jms/OrsiLIMSModule-jms.xmi				Info		
tow do T 🛛	factories, JMS t	emplates, destinatio	ources that h in sort keys,	ave been o destination	reated for this JM quota, distribute	S system module, in d destinations, foreig	cluding queue ar in servers, and s	nd topic destinations, connectio tore-and-forward parameters.
How do I 🗆	factories, JMS t	emplates, destinatio s table	ources that h n sort keys,	ave been o destination	reated for this JM quota, distribute	S system module, in d destinations, foreig	cluding queue ar In servers, and s	d topic destinations, connectio tore-and-forward parameters.
Configure quotas for destinations	factories, JMS t	emplates, destinatio s table	n sort keys,	destinatior	quota, distribute	d destinations, foreig	cluding queue ar in servers, and s	d topic destinations, connectio tore-and-forward parameters.
Configure quotas for destinations Configure JMS templates	factories, JMS t Customize thi Summary of R Click the Lock t	emplates, destinations table sources & Edit button in the	n sort keys,	destinatior	quota, distribute	d destinations, foreig	in servers, and s	tore-and-forward parameters.
Configure quotas for destinations Configure JMS templates Configure destination keys	factories, JMS t	emplates, destinations table sources & Edit button in the	n sort keys,	destinatior	quota, distribute	d destinations, foreig	in servers, and s	tore-and-forward parameters.
Configure quotas for destinations Configure JMS templates Configure destination keys Configure topics	factories, JMS t Customize thi Summary of R Click the Lock t	emplates, destinations s table esources & <i>Edit</i> button in the	n sort keys,	destinatior	quota, distribute	d destinations, foreig	in servers, and s	tore-and-forward parameters.
Configure quotas for destinations Configure JMS templates Configure destination keys Configure topics Configure queues	factories, JMS t Customize thi Summary of R Click the Lock I New Delete	emplates, destinations stable esources e Edit button in the stable stable esources e Edit button in the stable esources e Edit button in the stable esources e Edit button in the stable esources e Edit button e Ed	n sort keys, . Change Cen	destinatior	a quota, distribute ate all the button	d destinations, foreig s on this page.	in servers, and s Shov oyment	tore-and-forward parameters.
Configure quotas for destinations Configure JMS templates Configure destination keys Configure topics	Factories, JMS t Customize thi Summary of R Click the Lock to New Delete	s table esources & <i>Edit</i> button in the Type Connection	n sort keys,	destinatior	quota, distribute	d destinations, foreig s on this page.	show Show D	tore-and-forward parameters.

4. Click New.

The following window is displayed.

Figure 8-35 JMS Queue 2

Change Center	😭 Home Log Out Preferences 🐼 Record Help	Welcome, weblogic Connected to: OFSLLREL_domain					
/iew changes and restarts	Home >Summary of Services >Summary of Services: JMS >Summary of JMS Mo	dules >OfsilJMSModule					
lo pending changes exist. Click the Release onfiguration button to allow others to edit the	Create a New JMS System Module Resource						
Lock & Edit	Back Next Finish Cancel						
Release Configuration	Choose the type of resource you want to create.						
main Structure	Use these pages to create resources in a JMS system module, such as q	ueues, topics, templetes, and connection factories.					
"SLREL_domain }- Domain Partitions }- Environment Deployments >- Services	stand-alone queues and topics, connection factories, distributed queues to targeting pages for selecting appropriate server targets. You can also	Depending on the type of resource you select, you are prompted to enter basic information for creating the resource. For targetable resources, like stand-slone queues and topics, connection factories, distributed queues and topics, foreign servers, and JMS SAP destinations, you can also proceed to targeting pages for selecting appropriate server targets. Two can sho associate targetable resources with subdeployments, which is an advanced mechanism for grouping JMS module resources and the members to server resources.					
-services -Security Realms -Interoperability -Diagnostics	Connection Factory	Defines a set of connection configuration parameters that are used to create connections for JMS clients. More Info					
22	💽 Queue	Defines a point-to-point destination type, which are used for asynchronous peer communications. A message delivered to a queue is distributed to only one consumer. More Info					
iw do I E	© Topic	Defines a publisi/subscribe destination type, which are used for asynchronous peer communications. A message delivered to a topic is distributed to all topic consumers. More Info					
Configure JMS templates Configure destination keys Configure topics	O Distributed Queue	Defines a set of queues that are distributed on multiple JNS servers, but which are accessible as a single, logical queue to JNS clients. More Info					
Configure queues Configure connection factories Configure uniform distributed topics	O Distributed Topic	Defines a set of topics that are distributed on multiple JMS servers, but which are accessible as a single, logical topic to JMS clients. More Info					
Configure uniform distributed queues Configure foreign servers Configure JMS SAF	O Foreign Server	Defines foreign messaging providers or remote WebLogic Server instances that are not part of the current domain. More Info					
rstem Status E	Quota	Controls the elicitment of system resources available to destinations. More Info					
alth of Running Servers as of 08:16 Failed (0)	O Destination Sort Key	Defines a unique sort order that destinations can apply to arriving messages. More Info					
Critical (0) Overloaded (0)	O JMS Template	Defines a set of default configuration settings for multiple					



5. Select the **Queue** option and click **Next**.

The following window is displayed.

Change Center	😰 Home Log Out Preferences 🔝 Record Help
View changes and restarts	Welcome, weblogic Connected to: OFSLLREL_domain
Pending changes exist. They must be activated to take effect.	
Activate Changes	Create a New JMS System Module Resource
Undo All Changes	Back Next Finish Cancel
Domain Structure	JMS Destination Properties
OFSLLREL_domain	The following properties will be used to identify your new Queue. The current module is OfsIUMSModule.
Environment Deployments Services	* Indicates required fields
-Messaging Data Sources -Persistent Stores	*Name: OfsIIJMSQueue
Foreign JNDI Providers Work Contexts	JNDI Name: jms/OfsilJMSQueue
XML Registries XML Entity Caches jCOM	Template: None
Mail Sessions	Back Next Finish Cancel
How do I	
Configure quotas for destinations	
Configure JMS templates	
Configure destination keys	
Configure topics	
Configure queues Configure connection factories	
Configure uniform distributed topics	
Configure uniform distributed topics Configure uniform distributed aueues	
Configure foreign servers	
Configure JMS SAF	
System Status	
Health of Running Servers as of 6:15 PM	

Figure 8-36 JMS Queue 3

- 6. Specify the following details while creating new JMS System Module Resources:
 - Enter the Name of the Queue as OfsIIJMSQueue
 - Enter the JNDI Name as jms/OfsllJMSQueue
 - Select the Template as None
- 7. Click Next.



Figure 8-37 JMS Queue 4

Change Center	🔒 Home Log Out Preferences 🔄 Record Help	
View changes and restarts	Welcome, weblogic Connected to: OFSLLREL_doma	in
Pending changes exist. They must be activated	Home >Summary of Services >Summary of Services: JMS >Summary of JMS Modules >OfsilJMSModule	
to take effect.	Create a New JMS System Module Resource	
Activate Changes	Back Next Finish Cancel	
Undo All Changes		
Domain Structure	The following properties will be used to target your new JMS system module resource	
OFSLLREL_domain Domain Partitions Deprovement Deployments Services	Use this page to select a subdeployment to assign this system module resource. A subdeployment is a mechanism by which JMS resources are grouped and targeted to a server instance, cluster, or SAF agent. If necessary, you can create a new subdeployment by clicking the Create a New Subdeployment button. You can also reconfigure subdeployment targets later by using the parent module's subdeployment management page.	
Messaging Data Sources	Select the subdeployment you want to use. If you select (none), no targeting will occur.	
Persistent Stores Foreign JNDI Providers	Subdeployments: OfsIIJMSSD	
Work Contexts	What targets do you want to assign to this subdeployment?	
-XML Entity Caches		
-jCOM	Targets :	
How do I	JMS Servers	
Configure quotas for destinations Configure JMS templates	OfsilJMSServer	
Configure destination keys		
Configure topics	Back Next Finish Cancel	
Configure queues Configure connection factories		
Configure uniform distributed topics		
Configure uniform distributed topics Configure uniform distributed queues		
Configure dimonit distributed queues Configure foreign servers		
Configure JMS SAF		
System Status 🖂		

- 8. Select the Subdeployments as **OfsIIJMSSD** from the drop-down list.
- 9. Click **Finish** to save and activate the changes. Once done, the following window is displayed.

Figure 8-38 JMS Queue 5

Change Center	Home Log O	😰 Home Log Out Preferences 🔤 Record Help					
View changes and restarts					Welcome, weblogic Con	nected to: OFSLLREL_dom	
Pending changes exist. They must be activated o take effect.	Messages	of Services >Summar		Summary of JMS Module	s >OfsIIJMSModule		
Undo All Changes	Settings for Ofsl	Settings for OfsIIJMSModule					
Jomain Structure	Configuration	Subdeployments	Targets Secu	rity Notes			
FSLLREL_domain P-Domain Partitions P-Environment 	This page displays general information about a JMS system module and its resources. It also allows you to configure new resources and access existing resources.						
Security Realms Interoperability	Name:		OfslUMSModule		The name of this JMS sys	The name of this JMS system module. More Info	
⊕-Diagnostics	Scope:		Global			Specifies if the JMS system module is accessible within the domain, a partition, or a resource group template. More Info	
	Descriptor File	Name:	jms/OfsIIJMSModule-jms.xml		The name of the JMS more Info	The name of the JMS module descriptor file. More Info	
tow do I E Configure quotas for destinations Configure JMS templates Configure destination keys Configure topics	connection fact forward parame	ories, JMS template sters. s table			S system module, including que , distributed destinations, foreig		
Configure queues	Summary of Resources New: Delete Showing 1 to 2 of 2 Previous Next						
Configure connection factories Configure uniform distributed topics	Name 🔿			JNDI Name	Subdeployment	Targets	
Configure uniform distributed queues Configure foreign servers	OfsliJMSC	Conne	ction Factory	ims/OfsIIJMSCF	OfsIJMSSD	OfsII1MSServer	

8.3 Outbound Queue Configuration

Outbound Queue provides a mechanism to consume AQ messages from the database and send those messages to MDBs.

Perform the following steps to configure Outbound queue in application server.

- Create Persistent Stores
- Create JMS Server for Outbound Queue
- Create JMS Module for Outbound Queue
- SubDeployment for Outbound Queue
- Create JMS Connection Factory for Outbound Queue
- Create JMS Queue for Outbound Queue

8.3.1 Create Persistent Stores

Follow the below steps to create persistent stores.

1. Login to Oracle Weblogic 12c console (http://hostname:port/console).



ORACLE WebLogic Server Administration Cor	nsole 12 <i>c</i>
120	Welcome Log in to work with the WebLogic Server domain Username: Password: Login

Figure 8-39 Create Persistent Stores 1

2. On successful login, the following window is displayed.

Change Center	🟦 Home Log Out Preferences 🔤 🛙	Record Help	<u>R</u>					
View changes and restarts		Welcor	ne, weblogic Connected to: OFSLLREL_domai					
Click the <i>Lock & Edit</i> button to modify, add or delete items in this domain.	Home							
Lock & Edit	Home Page							
Release Configuration	— Information and Resources —							
	Helpful Tools	General Information						
Domain Structure	Configure applications	Common Administration Task De	scriptions					
DFSLLREL_domain D-Domain Partitions D-Environment Deployments D-Services	Configure GridLink for RAC Data Source Configure a Dynamic Cluster Recent Task Status	Read the documentation Ask a question on My Oracle Support						
Security Realms	Set your console preferences							
 Interoperability Diagnostics 	Oracle Enterprise Manager	Oracle Enterprise Manager						
	- Domain Configurations							
	Domain	Resource Group Templates	Interoperability					
	Domain	Resource Group Templates	WTC Servers Jolt Connection Pools					
•	Domain Partitions	Resource Groups						
łow do I 🗉	Domain Partitions	Resource Groups	Diagnostics					
Search the configuration	Partition Work Managers		Log Files					
Use the Change Center		Deployed Resources	Diagnostic Modules					
Record WLST scripts	Environment	 Deployments 	Built-in Diagnostic Modules					
Change Console preferences	Servers		Diagnostic Images					
Manage Console extensions	Clusters	Services	Request Performance					
Monitor servers	Server Templates	Messaging	Archives					
	 Migratable Targets 	JMS Servers	Context					
System Status 🖂	Coherence Clusters	 Store-and-Forward Agents 	SNMP Interceptors					
Health of Running Servers as of 11:23 AM	Machines	 JMS Modules 	 Interceptors 					
Failed (0)	Virtual Hosts	Path Services	Charts and Graphs					
Critical (0)	Virtual Targets	Bridges	Masterias Dathbard I					

Figure 8-40 Create Persistent Stores 2

3. Click Domain Name > Services > Persistent Stores.

Change Center	😧 Home Log Out Preferences 🔤 Record Help							
View changes and restarts	Home >Sum	Home >Summary of Services						
Click the Lock & Edit button to modify, add or delete items in this domain.	Summary of S	Services						
Lock & Edit	Use these sec	tions of the Administration Console to configure WebLogic Server services.						
Release Configuration	Section	Description						
Domain Structure ofslireL.domain Domain Partitions Domain Partitions Deployments	Messaging	WebLogic JMS is an enterprise-class messaging system that fully supports the JMS specification, and which also provides numerous extensions that go above and beyond the standard JMS APIs. It is tightly integrated into the WebLogic Server platform, allowing you to build highly secure. Java EE applications that can be easily monitored and administered through the WebLogic Server console. In addition to fully supporting XA transactions, WebLogic JMS also features high availability through its clustering and service migration features while also providing searliess interoperability with other versions of WebLogic Server and third-party messaging vendors.						
Services Security Realms Interoperability	Data Sources	Data sources enable you to configure database connectivity in your WebLogic domain. Data sources provide database connection pooling and connection management. Multi data sources provide load balancing and failover between data sources, which can be connected to different backand resources.						
B − Diagnostics	Persisten	A persistent store is a physical repository for storing subsystem data, such as persistent JMS messages. It can be either a JDBC-accessible database or a disk-based file.						
	Foreign JNDI Providers	A foreign JNDI provider represents a JNDI tree that resides outside of a WebLogic Server environment. This could be a JNDI tree in a different server environment or within an external Java program. By setting up a foreign JNDI provider you can lookup and use a remote object with the same ease as using an object bound in your WebLogic server instance.						
	Work Contexts	Work Contexts allow developers to define properties which implicitly flow across remote requests and allow downstream components to work in the context of the invoking client.						
How do I 🗉	XML Registries	The XML Registry is a facility for configuring and administering the XML resources of an instance of WebLogic Server. XML resources in WebLogic Server include the parser used by an application to parse XML data, the transformmer used by an application to transform XML data, external entity resolution, and caching of external entities.						
Configure database connectivity Configure the default persistent store for transaction recovery service migration	XML Entity Caches	XML Entity Caches store external entities that are referenced with a URL or a pathname relative to the main directory of the EAR archive. Caching external entities saves remote access time and provides a local backup in the event that the Administration Server cannot be accessed while an XML document is being parsed.						
Create a foreign JNDI provider Create Work Context resources	jCOM	WebLogic JCOM is a software bridge that allows bidirectional access between Java/Java EE objects deployed in WebLogic Server, and Microsoft ActiveX components available within Microsoft Office family of products. Visual Basic and C++ objects, and other Component Object Model/ Distributed Component Object Model (COM/COM) environments.						
Configure XML Resources Enable jCOM Configure access to JavaMail	Mail Sessions	WebLogic Server includes the JavaMail API version 1.1.3 reference implementation from Sun Microsystems. Using the JavaMail API, you can add e-mail capabilities to your WebLogic Server applications. JavaMail provides access from Java applications to IMAP- and SMTM-capable mail servers on your network or the Internet.						
Configure concurrent managed object templates	File T3	The WebLogic file (T3) service (deprecated) allows you to provide high-speed, client-side access to native operating system files on the server. Use the client API to extend the capabilities of java.io.InputStream and java.io.OutputStream.						
Create file systems Configure JTA	ATL	One of the most fundamental features of WebLogic Server is transaction management. Transactions are a means to guarantee that database changes are completed accurately and that they take on all the ACID properties of a high- performance transaction.						

Figure 8-41 Create Persistent Stores 3

4. Click Lock & Edit button on the left panel. Click New on right panel and select Create JDBCStore.

Figure 8-42 Create Persistent Stores 4

Change Center	😭 Home Log Out Preferences 🔛 Record He	lp	9	Welcome, weblogic Connected	to: ofslirel_doma			
View changes and restarts	Home >Summary of Services >Summary of Persister Services >Summary of Persistent Stores	t Stores >Summary of Servi	ices >Summa	ry of JDBC Data Sources >Summary o	f -			
No pending changes exist. Click the Release Configuration button to allow others to edit th domain.	e Summary of Persistent Stores A persistent store is a physical repository for st	oring subsystem data, suo	ch as persista	ant JMS messages. It can be a JDB	C-accessible			
Release Configuration	database, disk-based file, or replicated memory domain.	database, disk-based file, or replicated memory storage. This page summarizes the persistent stores that have been created for this						
Domain Structure	Customize this table							
ofsilrel_domain Domain Partitions Environment	Persistent Stores (Filtered - More Columns	Exist)						
Deployments Services	Create FileStore			Showing 0 to 0 of 0	Previous Next			
Security Realms	Create JDBCStore	Туре		Target				
 Interoperability Diagnostics 		There are no items	to display					
	New - Delete			Showing 0 to 0 of 0	Previous Next			
How do I	3							
Create file stores								
Create JDBC stores								
 Monitor persistent stores 								
System Status	3							
Health of Running Servers as of 2:22 PM								
Failed (0)								
Critical (0)								
Overloaded (0)								
Warning (0)								



- 5. Specify the following details:
 - Name: OfsllStore
 - Prefix Name: Ofsll

Figure 8-43 Create Persistent Stores 5

Change Center	Home Log Out Preferences	Record Help	Q	Welcome, weblogic	Connected to: ofsllrel_domain			
View changes and restarts	Home >Summary of Services >Summary of Persistent Stores >Summary of Services >Summary of JDBC Data Sources >Summary of Services >Summary of Persistent Stores							
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Look & Edit Release Configuration	Create a New JDBC Store Back Next Finish Ca Create a new IDBC Store	ncel						
Domain Structure	The following properties will be * Indicates required fields	used to identify your new	JDBC store.					
Domain Partitions Environment Deployments Service Service	What would you like to name you * Name:	ur new JDBC store? OfsIIStore						
 Interoperability Diagnostics 	What scope do you want to creat	e your JDBC store in ? Global ❤						
	The prefix name that is prepende Prefix Name:	ed to the JDBC store table	names in this JDBC store	B				
How do I 🛛 🖂 • Create JDBC stores • Monitor persistent stores	Back Next Finish Ca	ncel						
System Status								
Health of Running Servers as of 2:23 PM Failed (0) Critical (0) Overloaded (0) Warning (0)								

6. Click Next.

Change Center	🏠 Home Log Out Preferences 🖂 Record Help
View changes and restarts	Home >Summary of Services >Summary of Services: JMS >Summary of Services >Summary of Persistent Stores
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration Domain Structure ofsilre_domain Delyments Delyments Services Services Security Realms Dense Delyments Services Security Realms Security Realms Security Realms	Create a New JDBC Store Back Next Finish Cancel Select data source Select or create a non-XA data source for this JDBC store. Data Source: OFSLLREL Back Next Finish Cancel
How do I E Create JDBC stores Monitor persistent stores	
System Status 🖂	
Health of Running Servers as of 4:19 PM	
Failed (0) Critical (0) Overloaded (0) Warning (0)	

Figure 8-44 Create Persistent Stores 6

7. Select OFSLLREL Data source from the drop-down list. Click Next.

The following window is displayed.

Figure 8-45 Create Persistent Stores 7

Change Center	🏠 Home Log Out Preferences 🖂 Record Help
View changes and restarts	Home >Summary of Persistent Stores
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration Domain Structure	Create a New JDBC Store Back Next Finish Cancel JDBC Store Targets
OFSLLRE_domain ⊕ Domain Partitions ⊕ Environment → Deployments ⊕ Services ⊕ Services ⊕ Interoperability ⊕ Diagnostics	When you target all or part of a cluster, the Administration Console initiates a two-phase deployment. In general, such a deployment ensures that if the deployment fails for one active server, it fails for all active servers. Select the server instance for this JDBC store. Target: OFSLL_ManagedServer <
How do I	
Create JDBC stores	
Monitor persistent stores	
System Status	

 Select the Target as OFSLL_ManagedServer from the drop-down list. Click Next. The following window is displayed.



ORACLE WebLogic Server A	Administration Console 12c			Q
Change Center	Home Log Out Preference	s 🔤 Record Help	Q	Welcome, weblogic Connected to: OFSLLREL_domain
View changes and restarts	Home >Summary of Services >Se Messages	ummary of Persistent Stores		
Click the Lock & Edit button to modify, add or delete items in this domain.		vated. No restarts are necessary		
Lock & Edit	Summary of Persistent Store	5		
Release Configuration OPSLIER_domain OFSLIER_domain D-Poployments -Services -Services Services -Services D-Selvices D-Sel	memory storage. This page so Customize this table Persistent Stores (Filtered	ummarizes the persistent stores	that have been created for this domain	Showing 1 to 1 of 1 Previous Next
How do I	1			
Create file stores Create JDBC stores Monitor persistent stores				
System Status	3			
Health of Running Servers as of 11:32 AM				
Failed (0) Critical (0) Overloaded (0)				

Figure 8-46 Create Persistent Stores 8

9. Click **Finish** to activate the changes.

In case you are creating a cluster setup, continue the below steps:

10. Click Domain Name > Environment > Clusters.

The following window is displayed.

Figure 8-47 Create Persistent Stores 9

hange Center	Hom	ne Log Out	Preferences 🔤 Re	ecord Help	Q			Welcome, web	logic Connected to: ofslirel dom			
/iew changes and restarts		Summary o							- 1			
Lick the Lock & Edit button to modify, add or lelete items in this domain.	Summar	y of Cluste	rs									
Lock & Edit Release Configuration				t have been configured in the ierver servers that work toget								
omain Structure												
islirel_domain 3-Domain Partitions 3-Environment Deployments	Cluste		d - More Columns I	E xist) ange Center to activate all the	buttons on this pag	e.						
E-Services Security Realms	New	New Clone Delete Showing 1 to 2 of 2 Previous Next										
B-Interoperability B-Diagnostics	D	Name 🚕	Cluster Address	Cluster Messaging Mode	Migration Basis	Default Load Algorithm	Replication Type	Cluster Broadcast Channel	Servers			
	a	app_cluster		Unicast	Database	Round Robin	(None)		app_mgdsvr1, app_mgdsvr2, app_mgdsvr3, app_mgdsvr4			
	New	 ✓ Clone 	Delete					Sh	owing 1 to 2 of 2 Previous Next			
ow do I 🗉	í —											
Configure clusters												
Assign server instances to clusters												
Configure server migration in a cluster												
Configure cross-cluster replication												
Create dynamic clusters												
	1											
Configure elasticity for a dynamic cluster	1											

11. Click app_cluster.

	Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: ofslirel_dom							
Cisk & E. dr & Zef buttors to modify, edd of Lock & E. dr Configuration Release Configuration Obmain Structure forle Jonnia Obmain Structure Configuration Domain Structure Do	View changes and restarts	Home >Summary of Clusters >app_cluster									
Lock & Edit Configuration Montoring Configuration Montoring Configuration Domain Structure File access Configuration Miscass Singleton Services Scheduling Overload Health Montoring HTTP Coherence Domain Structure Configuration Notes Singleton Services Scheduling Overload Health Montoring HTTP Coherence Configuration Domain Structure Configuration Interpretable Configuration Montoring Configuration Health Montoring HTTP Coherence Configuration Performants Singleton Services Scheduling Overload Health Montoring HTTP Coherence Security Realings Services Accessed Scheduling Overload Health Montoring HTTP Coherence Security Realings Services Security Performants Perfo	Click the Lock & Edit button to modify, add or	Settings for app_cluster									
Researce Configuration Intersearce Configuration Intersearce Replication Migration Singleton Services Solution Intersearce Inter		Configuration Monitoring Control Deployments Se									
Configure ductors Configure Configure ductors Configure ductors Configure Configure		General JTA Messaging Servers Replication Mig	ration Singleton Services Scheduling Overlo	ad Health Monitoring HTTP Coherence							
Even consistence Even	Domain Structure	Click the Lock & Edit button in the Change Center to modify	Click the Lock & Edit button in the Change Center to modify the settings on this page.								
		Save									
	B-Environment Deployments	This page allows you to define the general settings for this cluster.									
Configure cross-duter regication in a duter configure cross-duter configure con		Name:	app_cluster	The name of this configuration. WebLogic Server uses an MBean to implement and persist the configuration. More Info							
Configure Cuters Configure Cuters Configure Cuters Configure Cuters Configure Cuters Configure Cuters Configure Conse-Cuter replication Configure Conf		👸 Default Load Algorithm:	round-robin 🗸	Defines the algorithm to be used for load-balancing between replicated service of none is expected for a particular service. The volution download high particular of cells through a list of VielLogic Server instances in order. Vieight-based load balancing improves on the round-robul aporthm by tablagin that accurat a pre-assigned wight for each server. Inrandom load balancing, requests are routed to servers at random. Note Info							
Configure cross-duster replication Configure cross-duster replication Given De listed from this duster when generating a dust automatically. This setting has no effect if Cluster Address:	Configure clusters Assign server instances to clusters	Eluster Address:		The address that forms a portion of the URL a client uses to connect to this cluster, and that is used for generating IDB handles and entity IDB fallover addresses. (This address may be either a URS bott name that maps to mulpipe IP addresses or a comma-separated list of single address host names or IP addresses). More Info							
The number of the server's transaction Affinity If enabled, a server's transaction requests go to servers in the cluster the		A Number Of Servers In Cluster Address:	3	Number of servers to be listed from this cluster when generating a cluster address automatically. This setting has no effect if Cluster Address is explicitly set. More Info							
	,			If enabled, a server's transaction requests go to servers in the cluster that are already participating in the global transaction. More Info							
Failed (0) Critical (0) Critica	Critical (0)	Concurrent Single Activation		Specifies whether to allow the concurrent activation, deactivation, or restart of two or more singleton services. More Info							

Figure 8-48 Create Persistent Stores 10

12. Click **Lock & Edit** button on the left panel.

The following window is displayed.

Change Center	Home Home	Log O	ut Preference	s 🚵 Reci	ord Help		Q					Welcon	ne, weblogic Connected to: ofsllrel_doma
View changes and restarts Pending changes exist. They must be activated to take effect.	Messages		of Clusters >ap										
Activate Changes	Settings f	or ann	cluster										
Undo All Changes	Configur		Monitoring	Control	Deployments	Services	Notes						
omain Structure	General	JTA	Messaging	Servers	Replication	Migration	Singleton Services	Scheduling	Overload	Health Monitoring	нттр	Coherence	
fsllrel_domain B-Domain Partitions B-Environment	Save												
Deployments Services Security Realms					can automatic sed during serv		e server and its service	s on another i	machine. This	a page allows you to s	pecify the	e machines whe	ere Node Manager can restart migratable
⊕-Interoperability ⊕-Diagnostics	街 Candidate Machines For Migratable Servers: Available: Chosen:								The set of machines (and order of preference) on which Node Mana failed servers. (Requires you to enable each server for automatic				
		im00ch	z	8	» »		A	migration.) More Info					
łow do I 🖂				4			X						
Configure clusters Configure server migration in a cluster													
Create JDBC generic data sources Configure cross-cluster replication	a Migr	ation B	asis:			C	ionsensus 🗸			Controls the m	nechanism	used for serve	er and service migration. More Info
System Status	6월 Data Source For Automatic Migration:			()	None)	~	New	The data sour configure each source.) Mor			e cluster during migration. (You must n the cluster to use this data		
Health of Running Servers as of 5:08 PM Failed (0)	de Auto	o Migral	tion Table Na	ime:		A	CTIVE			Return the na	me of the	table to be use	ed for server migration. More Info
Critical (0) Overloaded (0) Warning (0) OK (8)		1ember	Death Dete	tor Enabl	ed					Enables faster Basis. More I		ic Service Migra	ation times with Database Leasing
UN (8)	a Mem	i <mark>ber</mark> Di	scovery Time	out:		31	0			server waits d	uring or a	fter startup to	lue. This value defines the amount of time a discover members that belong to the same 1 or form a new cluster. More Info

Figure 8-49 Create Persistent Stores 11

- **13.** Click **Migration** tab and choose Migration Basis as **Consensus** from the drop-down list.
- **14.** Click **Save** to activate the changes.

8.3.2 Create JMS Server for Outbound Queue

Follow the below steps to create JMS server for outbound queue.

 Login to WebLogic Server 12c console (http://hostname:port/console). The following screen is displayed.



ORACLE WebLogic Server Administration Console	le 12c	
120	Log in to work with t Username: Password:	Welcome he WebLogic Server domain weblogic

Figure 8-50 JMS Server for Outbound Queue 1

 Specify the Weblogic administrator user name and password and click Log In. The Oracle Weblogic home page is displayed.

hange Center	🔒 Home Log Out Preferences 🔤 Record Hel	p Q	Welcome, weblogic Connected to: OFSLLREL_dom:		
fiew changes and restarts	Home				
lick the Lock & Edit button to modify, add or elete items in this domain.	Home Page				
Lock & Edit	- Information and Resources				
Release Configuration	Helpful Tools	General Information			
omain Structure FSLLREL domain	Configure applications Configure GridLink for RAC Data Source Configure a Dynamic Cluster	Common Administration Task Descriptions Read the documentation Ask a question on My Oracle Support			
- Domain Partitions Environment Deployments Services Security Realms	Recent Task Status Set your console preferences Oracle Enterprise Manager				
Interoperability	- Domain Configurations				
Diagnostics	Domain	Resource Group Templates	Interoperability		
	• Domain	Resource Group Templates	WTC Servers Jolt Connection Pools		
	Domain Partitions	Resource Groups			
w do I	Domain Partitions Partition Work Managers	Resource Groups	Diagnostics Log Files 		
ow do I		Deployed Resources	Diagnostic Modules		
Search the configuration	Environment	Deployments	Built-in Diagnostic Modules		
Use the Change Center	Servers		Diagnostic Images		
Record WLST Scripts	Clusters	Services	Request Performance		
Change Console preferences	 Server Templates 	Messaging	Archives		
Manage Console extensions Monitor servers	 Migratable Targets 	 JMS Servers 	Context		
Monitor servers	Coherence Clusters	 Store-and-Forward Agents 	• SNMP		
stem Status 🖂	Machines Virtual Hosts	JMS Modules Path Services	Interceptors		
alth of Running Servers	Virtual Targets	Bridges	Charts and Graphs		
Failed (0) Critical (0)	Work Managers Concurrent Templates	Data Sources Persistent Stores	Monitoring Dashboard		
Overloaded (0) Warning (0)	Resource Management Startup And Shutdown Classes	XML Registries XML Entity Caches			
OK (3)		 Foreign JNDI Providers 			
	Application's Security Settings	 Work Contexts 			

Figure 8-51 JMS Server for Outbound Queue 2

- 3. Click Domain Name > Services > Messaging > JMS Server.
- 4. In the main window, click **Lock & Edit**.



ORACLE WebLogic Serve	er Administr	ration Console 12c						Q
Change Center		Home Log Out Pr	eferences 🔛 Record Help		Q		Welcome, webl	ogic Connected to: OFSLLREL_doma
View changes and restarts	H	lome >Summary of JI	MS Servers					
No pending changes exist. Click the Release Configuration button to allow others to edit domain. Lock & Edit Release Configuration	the		vers anagement containers for the o is the JMS servers that have be		-			
Domain Structure OFSLLREL domain	Þ	Customize this tab	le					
Domain Partitions	<u>^</u>	JMS Servers (Filter	ed - More Columns Exist)					
E-Environment		New Delete						Showing 0 to 0 of 0 Previous Next
E-Services E-Messaging		🔲 Name 🏟	Persistent Store	Target	Current Target	Health	Scope	Domain Partitions
	~	New Delete		1	here are no items to display			Showing 0 to 0 of 0 Previous Next
How do I	-							
Configure JMS servers Configure JMS system modules								
System Status								
Health of Running Servers								
Failed (0) Critical (0) Overloaded (0) Warning (0) OK (3)								

Figure 8-52 JMS Server for Outbound Queue 3

5. Click New.

The following window is displayed.

ORACLE WebLogic Server	Administration Console 12c	Q
Change Center	🔒 Home Log Out Preferences 🖾 Record Help	domain
View changes and restarts	Home >Summary of Services >Summary of Services: JMS >Summary of JMS Servers	
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration Domain Structure OFSLLREL_domain ⊕ Domain Partitions ⊕ Environment →Deployments ⊕ -Services → Structure Realms ⊕ Interoperability ⊕ Diagnostics	Create a New JMS Server Back Next Finish Cancel JMS Server Properties JMS Server Properties The following properties will be used to identify your new JMS Server. * Indicates required fields * What would you like to name your new JMS server? Image: What would you like this new JMS server to be restricted to a specific resource group template or resource group ? Scope: Global > Eack Next Finish Cancel Eack Next Finish	
How do I		
Configure JMS system modules		
Configure custom persistent stores		
System Status		
Health of Running Servers as of 11:42 AM		
Failed (0) Critical (0) Overloaded (0) Warning (0)		

Figure 8-53 JMS Server for Outbound Queue 4

 Specify the JMS Server Name as OfsllOutboundServer. Click Next. The following window is displayed.



ORACLE WebLogic Server	Administration Console 12c	Ģ		
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: OFSLLREL_domain		
View changes and restarts	Home >Summary of Services >Summary of Services: JMS >Summary of JMS Servers			
No pending changes exist. Click the Release Configuration button to allow others to edit th domain. Lock & Edit Release Configuration	Create a New JMS Server Back Next Finish Cancel Select Persistent Store Specify a persistent store for the new JMS server.			
Domain Structure				
OFSLLREL_domain ⊕"-Domain Partitions ⊕"-Environment ⊕"-Deployments ⊕"-Security Realms ⊕"-Interoperability ⊕"-Diagnostics	Persistent Store: OfsilStore Create a New Store Back Next Finish Cancel			
How do I				
Configure JMS system modules Configure custom persistent stores				
System Status				
Health of Running Servers as of 11:42 AM				
Failed (0) Critical (0) Overloaded (0) Warning (0)				

Figure 8-54 JMS Server for Outbound Queue 5

7. Select **OfslIStore** as the Persistent Store type. Click **Next**.

The following window is displayed.

Figure 8-55 JMS Server for Outbound Queue 6

ORACLE WebLogic Server Ad	ministration Console 12c	Q
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: OFSLLREL_domain
View changes and restarts	Home >Summary of Services >Summary of Services: JMS >Summary of JMS Servers	
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration	Create a New JMS Server Back Next Finish Cancel Select targets Finish Finish </td <td></td>	
Domain Structure OFSLIKEL_domain D=Domain Partitions D=Domain Partitions D=Domain Partitions D=Services Services T=Security Realms D=Interoperability D=Diagnostics	Select the server instance or migratable target on which you would like to deploy this Target: OFSLL_ManagedServer Back Next Finish Cancel	JMS server.
How do I		
Configure JMS system modules Configure custom persistent stores		
System Status		
Health of Running Servers as of 11:44 AM		
Failed (0) Critical (0) Overloaded (0) Warning (0)		

8. Select the target managed server and click **Finish**.



9. Click Activate Changes under Change Center section in LHS menu. Once done, the following window is displayed.

Change Center		🔒 Home Log Out Preferences 🛽	Record Help	Q Welco	ome, weblogic Connected to: OI	SLLREL_domai
View changes and restarts	M	Home >Summary of Services >Summ lessages	ary of Services: JMS >Summar	y of JMS Servers		
Pending changes exist. They must be active to take effect.	ited	JMS server created successfully	y			
Activate Changes Undo All Changes	SI	ummary of JMS Servers				
Domain Structure		JMS servers act as management o	1.21		<i>ā</i> .	
DFSLLREL_domain Domain Partitions Domain Partitions Deprovement Deprovements Defrequees Security Realms		This page summarizes the JMS se Customize this table JMS Servers (Filtered - More C		in the current WebLogic Server d	omain.	
Interoperability		New Delete			Showing 1 to 1 of 1 F	revious Next
Diagnostics		🔲 Name 🗞	Persistent Store	Target	Current Target	Health
		OfsllOutboundServer	OfsllStore	OFSLL_ManagedServer	OFSLL_ManagedServer	
		New Delete			Showing 1 to 1 of 1 F	revious Next
How do I						
Configure JMS servers Configure JMS system modules						
Configure and system modules						
System Status	=					
Health of Running Servers as of 11:45 AM						
Failed (0)						
Health of Running Servers as of 11:45 AM Failed (0) Critical (0) Overloaded (0)						

Figure 8-56 JMS Server for Outbound Queue 7

10. Once done the following window is displayed.

Figure 8-57 JMS Server for Outbound Queue 8

Change Center	🔒 Home Log Out Preference	es 🚵 Record Help	Q	Welcome, weblogic Connected to	: OFSLLREL_dom	
View changes and restarts	Home >Summary of Services >S Messages	ummary of Services: JMS > Sum	nary of JMS Servers			
Click the Lock & Edit button to modify, add or delete items in this domain.		ivated. No restarts are necess	iry.			
Lock & Edit Release Configuration	Summary of JMS Servers					
Domain Structure DFSLLREL_domain		eent containers for the queues /IS servers that have been crea		2		
Environment Deployments	Customize this table					
Services Security Realms	JMS Servers (Filtered - Me	and the second				
 Interoperability Diagnostics 	Click the Lock & Edit button in the Change Center to activate all the buttons on this page. New Delete Showing 1 to 1 of 1 Previous Next					
	🔲 Name 🏟	Persistent Store	Target	Current Target	Health	
	OfsllOutboundServer	OfsllStore	OFSLL_ManagedServe		🖋 ок	
How do I	New Delete			Showing 1 to 1 of :	1 Previous Next	
Configure JMS servers Configure JMS system modules						
System Status						
Health of Running Servers as of 11:45 AM Failed (0)						
Critical (0)						
Overloaded (0)						



8.3.3 Create JMS Module for Outbound Queue

Follow the below steps to create JMS module for outbound queue.

 Login to WebLogic Server 12c console (http://hostname:port/console) by specifying the Weblogic administrator user name and password.

(Optional) Enter the result of the step here.

2. Click Domain Name > Services > Messaging > JMS Modules.

The following window is displayed.

	ministration Console 12c		Q
Change Center	🔒 Home Log Out Preferences 💽 Record Help	Q	Welcome, weblogic Connected to: OFSLLREL_domain
View changes and restarts	Home >Summary of JMS Modules		
Click the Lock & Edit button to modify, add or delete items in this domain.	Summary of JMS Modules		
Lock & Edit Release Configuration	JMS system resources are configured and stored as destination keys, quota, distributed queues, distribu JMS system modules as global system resources.	modules similar to standard Java EE modules. Such r ted topics, foreign servers, and JMS store-and-forwar	esources include queues, topics, connection factories, templates, d (SAF) parameters. You can administratively configure and manage
Domain Structure	This page summarizes the JMS system modules that	t have been created for this domain.	
OFSLLREL_domain Domain Partitions B-Environment 	Customize this table		
-Services	JMS Modules (Filtered - More Columns Exist)		
Security Realms	Click the Lock & Edit button in the Change Center t	o activate all the buttons on this page.	
E Diagnostics	New Delete		Showing 0 to 0 of 0 Previous Next
	🔲 Name 🗞		Туре
		There are no items to display	
	New Delete		Showing 0 to 0 of 0 Previous Next
How do I			
Configure JMS system modules			
Configure resources for JMS system modules			
System Status			
Health of Running Servers as of 9:30 AM			
Failed (0)			
Critical (0) Overloaded (0)			
Warning (0)			

Figure 8-58 JMS Module for Outbound Queue 1

3. Click New.

The following screen is displayed.



Change Center	📄 🏦 Home Log Out Prefer	ences 🔤 Record Help	G	Welcome, weblogic	Connected to: OFSLLREL_domai
View changes and restarts	Home >Summary of Service: Modules	s >Summary of Services: JMS	>Summary of JMS Servers >S	ummary of Services >Summary of S	Services: JMS >Summary of JMS
No pending changes exist. Click the Release Configuration button to allow others to edit domain.	Create 100 Creaters Made	ile			
Lock & Edit	Back Next Finish	Cancel			
Release Configuration	The following properti	es will be used to ident	ify your new module.		
Domain Structure OFSLLREL_domain DrSLLREL_domain DrDomain Partitions DrEnvironment Deployments Deployments	connection factories, tem	plates, destination keys, q	uota, distributed queues, dis	Java EE modules. Such resource tributed topics, foreign servers, a s as global system resources.	is include queues, topics, and JMS store-and-forward (SAF)
Services Security Realms Interoperability	What would you like to na	me your System Module?			
	* Name:	OfsIIOutboundMo	dule		
	Would you like this new JM	IS System Module to be re	stricted to a specific resourc	e group template or resource gro	up ?
	Scope:	Global 🗸			
How do I	What would you like to na	me the descriptor file nam	e? If you do not provide a n	me, a default will be assigned.	
Configure JMS system modules	Descriptor File Name:	OfsIIOutboundMo	dule		
Configure JMS servers	Where would like to place	the descriptor for this Syst	em Module, relative to the j	ns configuration sub-directory of	your domain?
System Status	E Location In Domain:				
Health of Running Servers as of 12:00 PM					
Failed (0)	Back Next Finish	Cancel			
Critical (0)					
Overloaded (0) Warning (0)					

Figure 8-59 JMS Module for Outbound Queue 2

- 4. Specify the following details:
 - Enter the System Module Name as **OfsliOutboundModule**.
 - Enter the Description File Name as **OfsliOutboundModule**.
- 5. Click Next.

The following screen is displayed.



ORACLE WebLogic Server Ad	inistration Console 12c 📿						
Change Center	🏦 Home Log Out Preferences 🔤 Record Help						
View changes and restarts	Home >Summary of Services >Summary of Services: JMS >Summary of JMS Servers >Summary of Services >Summary of Services: JMS >Summary of JMS Modules						
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration	Create JMS System Module Back Next Finish Cancel The following properties will be used to target your new JMS system module. Cancel Cancel						
Domain Structure OFSLLREL_domain Destina Partitions Destructure Deployment Deployments Services	Use this page to select the server or cluster on which you would like to deploy this JMS system module. You can reconfigure targets later if you wish. Targets :						
Security Realms -Interoperability Diagnostics	Servers AdminServer						
	OFSLL_ManagedServer WS_ManagedServer						
How do I Configure JMS system modules Configure JMS servers	Back Next Finish Cancel						
System Status							
Health of Running Servers as of 12:00 PM Failed (0)							
Critical (0) Overloaded (0) Warning (0)							

Figure 8-60 JMS Module for Outbound Queue 3

6. Select the target server and click **Next**.

The following window is displayed.

Figure 8-61 JMS Module for Outbound Queue 4

	ninistration Console 12c Q
Change Center	🏠 Home Log Out Preferences 🔤 Record Help
View changes and restarts	Home >Summary of Services >Summary of Services: JMS >Summary of JMS Servers >Summary of Services >Summary of Services: JMS >Summary of JMS Modules
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration	Create JMS System Module Back, Next Finish Cancel Add resources to this JMS system module Cancel
Release Computation	
Domain Structure OFSLLREL_domain	Use this page to indicate whether you want to immediately add resources to this JMS system module after it is created. JMS resources include queues, topics, connection factories, and such.
	Would you like to add resources to this JMS system module?
Security RealmsInteroperabilityDiagnostics	Back Next Finish Cancel
How do I	
Configure JMS system modules Configure JMS servers	
System Status	
Health of Running Servers as of 12:02 PM	
Failed (0)	
Critical (0) Overloaded (0)	
Warning (0)	

7. Click **Finish** to save and activate the changes. Once done, the following window is displayed.



ORACLE WebLogic Server Ad	Iministration Console 12c			õ
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	٩	Welcome, weblogic	Connected to: OFSLLREL_domain
View changes and restarts	Home >Summary of Services >Summary of Services: JMS Modules	>Summary of JMS Servers >Sur	nmary of Services >Summary of Se	ervices: JMS >Summary of JMS
Click the <i>Lock & Edit</i> button to modify, add or delete items in this domain.	Messages All changes have been activated. No restarts are	necessary.		
Release Configuration	Summary of JMS Modules			
Omain Structure OFSLLREL_domain ⊕ -Domain Partitions ⊕ -Environment ↓ -Deployments ⊕ -Services ↓ -Services ↓ -Services ⊕ -Interoperability ⊕ -Interoperability	JMS system resources are configured and stored as connection factories, templates, destination keys, q parameters. You can administratively configure and This page summarizes the JMS system modules tha Customize this table JMS Modules (Filtered - More Columns Exist) Click the Lock & Edit button in the Change Center	uota, distributed queues, distr manage JMS system modules t have been created for this d	lbuted topics, foreign servers, a as global system resources. omain.	
	New Delete		Show	ing 1 to 1 of 1 Previous Next
	Name 🏟	Тур	e	
How do I	OfsllOutboundModule	JMS	SystemResource	
Configure JMS system modules Configure resources for JMS system modules	New Delete		Show	ing 1 to 1 of 1 Previous Next
System Status	i i i i i i i i i i i i i i i i i i i			
Health of Running Servers as of 12:04 PM				
Failed (0) Critical (0) Overloaded (0) Warning (0)				

Figure 8-62 JMS Module for Outbound Queue 5

8.3.4 SubDeployment for Outbound Queue

Follow the below steps to do subdeployment for outbound queue.

- Login to WebLogic Server 12c console (http://hostname:port/console) by specifying the Weblogic administrator user name and password.
- Click Domain Name > Services > Messaging > JMS Modules. The main window displays the list of JMS modules available.
- Select the created JMS module OfsllOutboundModule and click Subdeployments tab. The following window is displayed.



ORACLE WebLogic Server A	dministration Conso	le 12c							Q
Change Center	Home Log	Out Preferences 🔤	Record He	Ip		Q	Welcome, w	veblogic Connecte	ed to: OFSLLREL_doma
View changes and restarts	Home >Summa	ry of JMS Modules >Ofs	llOutbound	lodule					
Click the Lock & Edit button to modify, add or	Settings for OfsllOutboundModule								
delete items in this domain.	Configuration	Subdeployments	Targets	Security	Notes				
Release Configuration Domain Structure		plays subdeployments pics, and connection f							
OF5LLREL_domain Domain Partitions Deployments Deployments	Customize t								
Services Security Realms	Click the Lock	r & Edit button in the	Change Cen	ter to activ	ate all the b	buttons on this p	page.		
Interoperability Jiagnostics	New Dele	New Delete					Showing 0 to 0 of 0 Previous Next		
	Name 🤇	ŵ		Resource	ces			Targets	
				Т	here are n	o items to displa	ау		
	New Dele	ete						Showing 0 to (0 of 0 Previous Next
How do I 🗆									
 Configure subdeployments in JMS system modules 									
Configure JMS system modules									
System Status	1								
Health of Running Servers as of 12:06 PM									
Failed (0) Critical (0) Overloaded (0)									
Warning (0)									

Figure 8-63 SubDeployment for Outbound Queue 1

4. Click New.

The following screen is displayed.

Figure 8-64 SubDeployment for Outbound Queue 2

ORACLE WebLogic Server Ad	ministration Console 12c			Ŏ
Change Center	👔 Home Log Out Preferences 🛃 Record Help	9	Welcome, weblogic	Connected to: OFSLLREL_domain
View changes and restarts	Home >Summary of Services >Summary of Services: JM	4S >Summary of JMS Modules >	OfsllOutboundModule	
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration OFSLLREL_domain Domain Structure OFSLLREL_domain Deployments Environment Deployments Deprovemts Deprovemts Deprovemts Deprovemts Deprovemts Deployments Deploym	Create a New Subdeployment Back Next Finish Cancel Subdeployment Properties The following properties will be used to identify your a following required fields * Subdeployment Name: Back Next Finish Cancel	our new subdeployment. OfsliOutboundSD		
How do I				
 Configure subdeployments in JMS system modules 				
System Status				
Health of Running Servers as of 12:44 PM				
Failed (0) Critical (0) Overloaded (0) Warning (0)				

5. Specify the Subdeployment Name as **OfsllOutboundSD**. Click **Next**.



ORACLE WebLogic Server	r Administration Console 12c
Change Center	🔒 Home Log Out Preferences 🖾 Record Help
View changes and restarts	Home >Summary of Services >Summary of Services: JMS >Summary of JMS Modules >OfsllOutboundModule
No pending changes exist. Click the Release Configuration button to allow others to edit t domain. Lock & Edit Release Configuration	Create a New Subdeployment Back Next Finish Cancel Targets Please select targets for the Subdeployment
Domain Structure	
OFSLLREL_domain Domain Partitions	Servers OFSLL_ManagedServer
Environment Deployments	
-Services	JMS Servers
Security Realms	☑ OfsllOutboundServer
Diagnostics	
	Back Next Finish Cancel
How do I	
Configure subdeployments in JMS system modules	
System Status	
Health of Running Servers as of 12:44 PM	
Failed (0)	
Critical (0)	
Overloaded (0) Warning (0)	
rearining (0)	1

Figure 8-65 SubDeployment for Outbound Queue 3

- 6. Select the check box against the newly created OfsllOutboundServer and click **Finish**.
- 7. Once done, the following window is displayed.

Figure 8-66 SubDeployment for Outbound Queue 4

Change Center	Home Log	🟦 Home Log Out Preferences 🔤 Record Help					Welcome, weblogic	Connected to: OFSLLREL_doma
View changes and restarts Pending changes exist. They must be activated to take effect.	Messages	ary of Services >Summary		JMS >Sumr	ary of JMS M	odules > OfsilO	utboundModule	
Activate Changes	Settings for O	fsllOutboundModule						
Undo All Changes	Configuration	Subdeployments	Targets	Security	Notes			
Domain Structure DFSLIREL_domain DFSLIREL_domain Demain Partitions Demvironment Deployments Descriv(ces Services Services		opics, and connection f						h JMS module resources (such , server instances, or cluster).
⊕ - Interoperability ⊕ - Diagnostics	New Del	ete		Reso	urces		Show Targets OfsllOutboundServer	wing 1 to 1 of 1 Previous Next
	New Del	ete					Show	wing 1 to 1 of 1 Previous Next
low do I 🖂								
Configure subdeployments in JMS system modules Configure JMS system modules								
System Status								
realth of Running Servers as of 12:46 PM Failed (0) Critical (0) Overloaded (0)								

You can further click **New** to create more Queues and repeat the steps explained above.



8.3.5 Create JMS Connection Factory for Outbound Queue

Follow the below steps to create JMS connection factory for outbound queue.

- Login to WebLogic Server 12c console (http://hostname:port/console) by specifying the Weblogic administrator user name and password.
- 2. Click Domain Name > Services > Messaging > JMS Modules. The main window displays the list of JMS modules available.

Change Center	🔞 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: OFSLLREL_domai
View changes and restarts	Home >Summary of JMS Modules	
Click the Lock & Edit button to modify, add or delete items in this domain.	Summary of JMS Modules	
Lock & Edit Release Configuration		lar to standard Java EE modules. Such resources include queues, topics, ed queues, distributed topics, foreign servers, and JMS store-and-forward (SAF) system modules as global system resources.
Domain Structure	This page summarizes the JMS system modules that have been co	reated for this domain.
DFSLLREL_domain Denmain Partitions Denvironment Deployments Deservices	Customize this table JMS Modules (Filtered - More Columns Exist)	
Security Realms	Click the Lock & Edit button in the Change Center to activate all	the buttons on this page.
Diagnostics	New Delete	Showing 1 to 1 of 1 Previous Next
	🗌 Name 🏟	Туре
	OfsliOutboundModule	JMSSystemResource
	New Delete	Showing 1 to 1 of 1 Previous Next
How do I	· · · · · · · · · · · · · · · · · · ·	
 Configure JMS system modules Configure resources for JMS system modules 		
System Status		
Health of Running Servers as of 3:31 PM		
Failed (0)		
Critical (0)		

Figure 8-67 JMS Connection Factory for Outbound Queue 1

3. Select the newly created JMS module **OfsliModule**.



Change Center	Home Log O	ut Preferences [Record H	lelp		Q	Welcome, w	veblogic Conr	nected to: OFSLLREL_dom		
View changes and restarts	Home >Summary	of JMS Modules >O	sllOutboun	Module							
Click the Lock & Edit button to modify, add or	Settings for Ofsl	lOutboundModu	e								
delete items in this domain.	Configuration	Configuration Subdeployments Targets Security Notes									
Lock & Edit			,	,							
Release Configuration	-										
	existing resource		ation about	a JMS syster	n module an	d its resour	es. It also allows you	to configure n	ew resources and access		
Domain Structure											
DFSLLREL_domain Domain Partitions	Name:		OfsllOutb	oundModule			The name of th	nis JMS system	module. More Info		
Environment Deployments Services Security Realms	Scope:	Scope: Global						if the JMS system module is accessible within iin, a partition, or a resource group . More Info			
Interoperability Diagnostics	Descriptor File	Descriptor File Name: jms/OfsllOutboundModule-jms.xml					The name of the JMS module descriptor file. More Info				
									ic destinations, connection and-forward parameters.		
tow do t	factories, JMS t	emplates, destinat									
	factories, JMS t	emplates, destinat is table									
Configure quotas for destinations	factories, JMS t Customize thi Summary of R	emplates, destinat is table	on sort keys	, destination	ı quota, dist	ributed dest	nations, foreign serve				
Configure quotas for destinations Configure JMS templates	Gactories, JMS t Customize th Summary of R Click the Lock to	emplates, destinat is table esources & <i>Edit</i> button in th	on sort keys	, destination	ı quota, dist	ributed dest	nations, foreign serve	ers, and store-a	and-forward parameters.		
Configure quotas for destinations Configure JMS templates Configure destination keys	factories, JMS t Customize thi Summary of R	emplates, destinat is table esources & <i>Edit</i> button in th	on sort keys	, destination	ı quota, dist	ributed dest	nations, foreign serve	ers, and store-a	and-forward parameters.		
Configure quotas for destinations Configure JMS templates Configure destination keys Configure topics	Gactories, JMS t Customize th Summary of R Click the Lock to	emplates, destinat is table esources & <i>Edit</i> button in th	on sort keys e Change Ce	, destination	n quota, dist	uttons on th	nations, foreign serve	ers, and store-a			
Configure quotas for destinations Configure JMS templates Configure destination keys Configure topics Configure queues	Factories, JMS t Customize thi Summary of R Click the Lock it New Delete	emplates, destinat is table esources & <i>Edit</i> button in th	on sort keys e Change Ce	nter to activ	n quota, dist vate all the b ne	uttons on th	nations, foreign serve is page. Jbdeployment	ers, and store-a	nd-forward parameters.		
Configure quotas for destinations Configure JMS templates Configure destination keys Configure topics Configure queues Configure connection factories	factorieš, JMS t Customize th Summary of R Click the Lock o New Delete	emplates, destinat is table esources & <i>Edit</i> button in th a Tyl	on sort keys e Change Ce	nter to activ	n quota, dist	uttons on th	nations, foreign serve is page. Jbdeployment	showing C	1 to 0 of 0 Previous Next Targets		
How do I E Configure quotas for destinations Configure JMS templates Configure destination keys Configure destination keys Configure queues Configure connection factories Configure uniform distributed topics	Factories, JMS t Customize thi Summary of R Click the Lock it New Delete	emplates, destinat is table esources & <i>Edit</i> button in th a Tyl	on sort keys e Change Ce	nter to activ	n quota, dist vate all the b ne	uttons on th	nations, foreign serve is page. Jbdeployment	showing C	nd-forward parameters.		

Figure 8-68 JMS Connection Factory for Outbound Queue 2

4. Click New.

The following window is displayed.

Figure 8-69 JMS Connection Factory for Outbound Queue 3

Change Center	🔂 Home Log Out Preferences 🛃 Record Help	Welcome, weblogic Connected to: OFSLLREL_domai
View changes and restarts	Home >Summary of JMS Modules >OfsllOutboundModule	
No pending changes exist. Click the Release Configuration button to allow others to edit the	Create a New JMS System Module Resource	
domain.	Back Next Finish Cancel	
Lock & Edit	Choose the type of resource you want to create.	
Release Configuration	choose the type of resource you want to create.	
omain Structure	Use these pages to create resources in a JMS system module, such as	queues, topics, templates, and connection factories.
DFSLLREL_domain D-Domain Partitions D-Environment Deployments	like stand-alone queues and topics, connection factories, distributed q	ter basic information for creating the resource. For targetable resources, ueues and topics, foreign servers, and JMS SAF destinations, you can also ou can also associate targetable resources with subdeployments, which is members to server resources.
B-Services Security Realms B-Interoperability B-Diagnostics	Connection Factory	Defines a set of connection configuration parameters that are used to create connections for JMS clients. More Info
	O Queue	Defines a point-to-point destination type, which are used for asynchronous peer communications. A message delivered to a queue is distributed to only one consumer. More Info
low do I 🖂	() Торіс	Defines a publish/subscribe destination type, which are used for asynchronous peer communications. A message delivered to a topic is distributed to all topic consumers. More Info
Configure JMS templates Configure destination keys Configure topics	O Distributed Queue	Defines a set of queues that are distributed on multiple JMS servers, but which are accessible as a single, logical queue to JMS clients. More Info
Configure queues Configure connection factories Configure uniform distributed topics	O Distributed Topic	Defines a set of topics that are distributed on multiple JMS servers, but which are accessible as a single, logical topic to JMS clients. More Info
Configure uniform distributed queues Configure foreign servers	○ Foreign Server	Defines foreign messaging providers or remote WebLogic Server instances that are not part of the current domain More Info

5. Select Connection Factory option and click Next.

Change Center	🙆 Home Log Out Preferences 🛃 P	Record Help Welcome, weblogic Connected to: OFSLLREL_doma					
View changes and restarts	Home >Summary of JMS Modules >Ofsile	DutboundModule					
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New JMS System Module F	tesource					
Lock & Edit Release Configuration Domain Structure DFSLREL domain	Connection Factory Properties	to identify your new connection factory. The current module is OfsllOutboundModule.					
Domain Partitions Environment Deployments Services	What would you like to name your new * Name:	v connection factory? OfsIIOutboundCF					
Security Realms -Interoperability -Diagnostics	What JNDI Name would you like to use	e to look up your new connection factory? jms/OfsIIOutboundCF					
	The Connection Factory Subscription S subscriptions created using this factory Subscription Sharing Policy:	haring Policy Subscribers can be used to control which subscribers can access new subscriptions. Should y be sharable?					
How do I 🖂	-						
Configure quotas for destinations Configure JMS templates		more than one JMS connection can use the same Client ID. Oracle recommends setting the Client ID policy cribers. Subscriptions created with different Client ID policies are always treated as independent uild you like to use?					
Configure destination keys Configure topics	Client ID Policy:	Restricted V					
Configure queues Configure connection factories	A connection factory can limit the num limit?	ber of messages that can queued for an asynchronous session. Should this connection factory impose a					
Configure uniform distributed topics	Maximum Messages per Session: 10						

Figure 8-70 JMS Connection Factory for Outbound Queue 4

- 6. Specify the following details:
 - Enter the Name of the Connection Factory as **OfsIIOutboundCF**.
 - Enter the JNDI Name as jms/OfsIIOutboundCF.
 - Select the check box XA Connection Factory Enabled
- 7. Click Next.

ORACLE WebLogic Server A	
Change Center	🟦 Home Log Out Preferences 🔤 Record Help
View changes and restarts	Home >Summary of JMS Modules >OfsllOutboundModule
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration Domain Structure OFSLREL_domain @-Domain Partitions @-Security Realms @-Security Realms @-Interoperability @-Diagnostics	Create a New JMS System Module Resource Back Next Finish Advanced Targeting Cancel The following properties will be used to target your new JMS system module resource Use this page to view and accept the default targets where this JMS resource will be targeted. The default targets are based on the parent JMS system module targets. If you do not want to accept the default targets, then click Advanced Targeting to use the subdeployment mechanism for targeting this resource. The following JMS module targets will be used as the default targets for your new JMS system module resource. If the module's targets are changed, this resource will also be retargeted appropriately. Targets : Servers OfSLL_ManagedServer
How do I 📼	Back Next Finish Advanced Targeting Cancel
Configure quotas for destinations	
Configure JMS templates	
Configure destination keys	
Configure topics	
Configure queues	
Configure connection factories	
Configure uniform distributed topics	
Configure uniform distributed queues	

Figure 8-71 JMS Connection Factory for Outbound Queue 5

8. Click Advanced Targeting button.

The following window is displayed.

Figure 8-72 JMS Connection Factory for Outbound Queue 6

Change Center	🟦 Home Log Out Preferences 🔤 Record Help
View changes and restarts	Home >Summary of JMS Modules >OfsllOutboundModule
Vew changes and restarts No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration Domain Structure OFSLLREL_domain	Create a New JMS System Module Resource Back Next Finish Cancel The following properties will be used to target your new JMS system module resource Use this page to select a subdeployment to assign this system module resource. A subdeployment is a mechanism by which JMS resources are grouped and targeted to a server instance, duster, or SAF agent. If necessary, you can create a new subdeployment by clicking the Create a New Subdeployment button. You can also reconfigure subdeployment targets later by using the parent module's subdeployment management page. Select the subdeployment you want to use. If you select (none), no targeting will occur. Subdeployments: OfsilOutboundSD Create a New Subdeployment What targets do you want to assign to this subdeployment? Targets : Servers Servers
How do I	OFSLL_ManagedServer
Configure quotas for destinations Configure JMS templates	JMS Servers

- 9. Do the following:
 - Select the Subdeployments as **OfsIIOutboundSD** from the drop down list.

- Under JMS Servers, select the check box against OfsllOutboundServer.
- Click Finish to save and activate the changes. Once done, the following window is displayed.

Change Center	Home Log O	ut Preferences 📐	Record He	elp		Q	Welcome, weblogic	Connected to: OFSLLREL_doma	
view changes and restarts		of JMS Modules >Ofs	llOutbound	Module					
lick the Lock & Edit button to modify, add or	Messages	nave been activated	No restarts	310 00000	20/				
delete items in this domain.	V An changes i	lave been activated	. NO restarts	are neces	ary.				
Lock & Edit	Settings for Ofsl	Settings for OfsllOutboundModule							
Release Configuration	Configuration	Subdeployments	Targets	Security	Notes				
omain Structure									
FSLLREL_domain Domain Partitions Denvironment	This page displa existing resource		tion about a	JMS syster	n module and	its resources.	. It also allows you to config	ure new resources and access	
Deployments 3Services	Name:	Name:					The name of this JMS sy	stem module. More Info	
Security Realms Security Re	Scope:	Scope:					Specifies if the JMS system module is accessible within the domain, a partition, or a resource group template. More Info		
	Descriptor File	Name:	jms/OfsllOutboundModule-jms.xml				The name of the JMS module descriptor file. More Info		
								d topic destinations, connection	
low do I	factories, JMS t	emplates, destinatio	on sort keys,	destination	quota, distrib	outed destinat	tions, foreign servers, and st	ore-and-forward parameters.	
Configure quotas for destinations	Customize thi	s table							
Configure JMS templates	C								
Configure destination keys	Summary of R								
Configure topics	Click the Lock a	& Edit button in the	Change Cer	nter to activ	ate all the but	ttons on this	page.		
Configure queues	New Delete	8					Show	ving 1 to 1 of 1 Previous Next	
Configure connection factories		-							
	Name 🔗	Тур	9		JNDI Name		Subdeployment	Targets	
Configure uniform distributed topics Configure uniform distributed queues		OfsllOutboundCF Conne							

Figure 8-73 JMS Connection Factory for Outbound Queue 7

8.3.6 Create JMS Queue for Outbound Queue

Follow the below steps to create JMS Queue for outbound queue.

- Login to WebLogic Server 12c console (http://hostname:port/console) by specifying the Weblogic administrator user name and password.
- Click Domain Name > Services > Messaging > JMS Modules. The main window displays the list of JMS modules available.
- 3. Select the newly created JMS module OfsllOutboundModule.



Change Center	Home Log O	ut Preferences 🔼	Record He	lp		Q	Welcome, weble	gic Connected to: OF	SLLREL_doma		
View changes and restarts	Home >Summary	of JMS Modules >Of:	llOutbound	lodule							
Click the Lock & Edit button to modify, add or	Settings for Ofsl	Settings for OfsIlOutboundModule									
delete items in this domain. Lock & Edit	Configuration	Subdeployments	Targets	Security	Notes						
Release Configuration	This page displa existing resource		tion about a	JMS syster	n module	and its resourc	es. It also allows you to c	onfigure new resources	and access		
DFSLLREL_domain	Name:		OfsllOutbo	IndModule			The name of this JN	S system module. Mo	ore Info		
B ⁺ Environment H ⁻ Deployments B ⁺ Services H ⁻ Security Realms B ⁺ Interoperability B ⁺ Diagnostics	Scope:	Scope: Global					Specifies if the JMS system module is accessible within the domain, a partition, or a resource group template. More Info				
	Descriptor File	Descriptor File Name: jms/OfsllOutboundModule-jms.xml					The name of the JMS module descriptor file. More Info				
	This page sumr factories, JMS t	narizes the JMS res emplates, destinatio	ources that h on sort keys,	ave been o destination	created fo quota, d	this JMS syste stributed desti	em module, including que nations, foreign servers, a	e and topic destinatior nd store-and-forward p	ns, connection parameters.		
How do I	Customize thi	s table									
Configure guotas for destinations	Summary of R	esources									
Configure JMS templates	Click the Lock a	& Edit button in the	Change Cer	ter to activ	vate all the	buttons on th	is page.				
Configure destination keys	New Delete	1						Showing 1 to 1 of 1 P	revious Next		
Configure topics											
Configure queues	Name 🗠	Тур	e		JNDI Na	me	Subdeployment	Targets			
Configure connection factories	OfsllOutbo	undCF Conr	ection Facto	ry	jms/Ofsll0	utboundCF	OfsllOutboundSD	OfsllOutbound	Server		
Configure uniform distributed topics Configure uniform distributed queues	New Delete							Showing 1 to 1 of 1 P	revious Next		
Configure foreign servers											

Figure 8-74 JMS Queue for Outbound Queue 1

4. Click New.

The following window is displayed.

Figure 8-75 JMS Queue for Outbound Queue 2

Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: OFSLLREL_domai
View changes and restarts	Home >Summary of JMS Modules >OfsllOutboundModule	
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration	Back Next Finish Cancel Choose the type of resource you want to create.	
Domain Structure DFSLLREL_domain D-Domain Partitions D-Environment Deployments	like stand-alone queues and topics, connection factories, distributed	enter basic information for creating the resource. For targetable resources, queues and topics, foreign servers, and JMS SAF destinations, you can also fou can also associate targetable resources with subdeployments, which is
P-Services Security Realms I-Interoperability -Diagnostics	O Connection Factory	Defines a set of connection configuration parameters that are used to create connections for JMS clients. More Info
	O Queue	Defines a point-to-point destination type, which are used for asynchronous peer communications. A message delivered to a queue is distributed to only one consumer. More Info
low do I E	() Торіс В	Defines a publish/subscribe destination type, which are used for asynchronous peer communications. A message delivered to a topic is distributed to all topic consumers. More Info
Configure JMS templates Configure JMS templates Configure destination keys Configure topics	Distributed Queue	Defines a set of queues that are distributed on multiple JMS servers, but which are accessible as a single, logical queue to JMS clients. More Info
Configure queues Configure connection factories Configure uniform distributed topics	O Distributed Topic	Defines a set of topics that are distributed on multiple JMS servers, but which are accessible as a single, logical topic to JMS clients. More Info
Configure uniform distributed queues Configure foreign servers	O Foreign Server	Defines foreign messaging providers or remote WebLogic Server instances that are not part of the current

5. Select the **Distributed Queue** option and click **Next**.



Change Center	Home Log Out Preferences 🔤 Record Help
View changes and restarts	Home >Summary of JMS Modules >OfsllOutboundModule
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New JMS System Module Resource
Lock & Edit Release Configuration Domain Structure	JMS Distributed Destination Properties The following properties will be used to identify your new Distributed Queue. The current module is OfsilOutboundModule Indicates required fields
OFSLLREL_domain Domain Partitions Environment	What would you like to name your new destination?
Deployments Services Security Realms	* Name: OfsIIOutboundQueue
Interoperability Diagnostics	What JNDI Name would you like to use to look up your new destination? JNDI Name: jms/OfsllOutboundQueue
	Queue members may be either created uniformly from a common configuration, or created and weighted individually to fine tune performance. How would you like to create queue members?
	Destination Type: Uniform 🗸
How do I	
 Configure guotas for destinations 	Templates provide an efficient means of defining multiple destinations with similar configuration values. Would you like to use a template for this destination?
Configure JMS templates Configure destination keys	Template: None 🗸
Configure topics	
Configure queues	Back Next Finish Cancel
 Configure connection factories 	
Configure uniform distributed topics	
 Configure uniform distributed queues 	
 Configure foreign servers 	

Figure 8-76 JMS Queue for Outbound Queue 3

- 6. Specify the following details while creating new JMS System Module Resources:
 - Enter the Name of the Queue as OfsllOutboundQueue
 - Enter the JNDI Name as jms/OfsIIOutboundQueue
 - Select the Template as None
- 7. Click Next.

ORACLE WebLogic Server A	dministration Console 12c
Change Center	🔒 Home Log Out Preferences 🖾 Record Help
View changes and restarts	Home >Summary of JMS Modules >OfsllOutboundModule
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration Domain Structure OFSLIREL_domain &-Domain Partitions &-Doeployments &-Services &-Services &-Services &-Interoperability &-Diagnostics	Create a New JMS System Module Resource Back Next Finish Advanced Targeting Cancel The following properties will be used to target your new JMS system module resource Use this page to view and accept the default targets where this JMS resource will be targeted. The default targets are based on the parent JMS system module targets. If you do not want to accept the default targets, then click Advanced Targeting to use the subdeployment mechanism for targeting this resource. The following JMS module targets will be used as the default targets for your new JMS system module resource. If the module's targets are changed, this resource will also be retargeted appropriately. Targets : Servers OFSLL_ManagedServer
How do I	Back Next Finish Advanced Targeting Cancel
Configure quotas for destinations Configure JMS templates Configure destination keys Configure topics Configure queues Configure connection factories Configure uniform distributed topics Configure uniform distributed topics Configure uniform distributed topics Configure foreign servers	

Figure 8-77 JMS Queue for Outbound Queue 4

8. Click Advanced Targeting button.

The following window is displayed.

Figure 8-78 JMS Queue for Outbound Queue 5

Change Center	Home Log Out Preferences 🗁 Record Help
View changes and restarts	Home >Summary of JMS Modules >OfsllOutboundModule
No pending changes exist. Click the Release Configuration button to allow others to edit the	Create a New JMS System Module Resource
domain.	Back Next Finish Cancel
Lock & Edit Release Configuration	The following properties will be used to target your new JMS system module resource
Domain Structure	Use this page to select a subdeployment to assign this system module resource. A subdeployment is a mechanism by which JMS resources are grouped and targeted to a server instance, cluster, or SAF agent. If necessary, you can create a new subdeployment by clicking the Create a New Subdeployment button. You can also reconfigure subdeployment targets later by using the parent module's subdeployment management
OFSLLREL_domain -Domain Partitions -environment	page.
Deployments Services	Select the subdeployment you want to use. If you select (none), no targeting will occur.
Security Realms	Subdeployments: OfsIIOutboundSD Create a New Subdeployment
E→Diagnostics	What targets do you want to assign to this subdeployment?
	Targets :
	Servers
How do I	OFSLL_ManagedServer
Configure quotas for destinations	JMS Servers
Configure JMS templates	✓ OfsilOutboundServer
Configure destination keys Configure topics	orsitoutboundserver
Configure queues	Back Next Finish Cancel
Configure connection factories	Back Next Finish Cancel
Configure uniform distributed topics	
Configure uniform distributed queues	
Configure foreign servers	

- 9. Select the Subdeployments as OfsIIOutboundSD from the drop-down list.
- 10. Click **Finish** to save and activate the changes. Once done, the following window is displayed.



Change Center	Home Log O	it Preferences 🔼	Record He	elp		Q	Welc	ome, weblogic	Connected to: OFSLLR	EL_do
View changes and restarts Click the <i>Lock & Edit</i> button to modify, add or delete items in this domain.	Messages	of JMS Modules >Of:			ary.					
Lock & Edit	Settings for Ofsll	OutboundModule								
Release Configuration	Configuration	Subdeployments	Targets	Security	Notes					
Domain Structure	1									
DFSLLREL_domain Domain Partitions -Environment	This page displa existing resourc		tion about a	JMS system	ı module a	and its resource	s. It also all	ows you to configu	re new resources and a	access
Deployments Services	Name:		Ofs <mark>l</mark> Outbo	undModule			The na	me of this JMS syst	em module. More Inf	o
├──Security Realms	Scope:		Global				the dor	es if the JMS systen nain, a partition, or te. More Info	n module is accessible a resource group	within
	Descriptor File	Name:	jms/OfsllO	utboundMoo	lule-jms.x	ml	The na Info	me of the JMS mod	ule descriptor file. M	ore
									topic destinations, cor re-and-forward param	
 Configure quotas for destinations Configure JMS templates 	Customize thi	s table								
Configure destination keys	Summary of Re	esources								
Configure topics	Click the Lock &	<i>Edit</i> button in the	Change Cer	nter to activ	ate all the	buttons on this	page.			
Configure queues	New Delete							Showi	ng 1 to 2 of 2 Previou	ıs Ne>
Configure connection factories	Name 🔿	T				DI Name		Subdeployment	Targets	
Configure uniform distributed topics Configure uniform distributed queues		Ту					SC 1		-	
Configure foreign servers	OfsllOutbo		nection Fac			/OfsllOutbound		OfsllOutboundSD	OfsllOutboundSe	
	OfsllOutbo	undQueue Uni	form Distrib	uted Queue	ims	/OfsllOutbound	Queue	OfsIIOutboundSD	OfsllOutboundSe	nuar

Figure 8-79 JMS Queue for Outbound Queue 6

You can further click **New** to create more Queues and repeat the steps explained above.

8.4 Configure External Client Certificates

The Webhook option in OFSLL extends the support of interfacing with third-party applications by sending REST API based notifications of changes through system generated Webhook event actions.

In a Webhook setup you can notify the changes that are done in OFSLL by triggering Webhook request as an event action and propagate the information to the dependant third-party applications (client) through specific https communication channel.

For webhook HTTPS communication, client certificates are to be imported in Weblogic OPSS keystore for each channel.

Configure External Client Certificates

8.4.1 Configure External Client Certificates

Follow the below steps to import the certificates.

- 1. Login to the Oracle Enterprise Manager 12c console. (i.e. http://hostname:port/em)
- 2. Click on Weblogic Domain drop-down list and navigate to Security > Keystore.



OFSLLREL_domain 0						Monitoring	
🐮 WebLogic Domain 👻						Diagnostics	
Gervers	Administration Server					Control Logs	
3 up	Name Adm					Environment	
Clusters	Host mur Listen Port 700 Servers		icle.com			Deployments JDBC Data Sources Messaging	
0.	View 👻 🎽 Create 🗙 Deleta	Contro	u . Ey			Cross Component Wiring	
Clusters	Name	Status	Cluster	Machine	State	Web Services	
	AdminServer(admin)	+			Running	Administration	
Deployments	OFSLL_ManagedServer	+			Running	Refresh WebLogic Domain	
	WS_ManagedServer	+		Security R	Running	Security	
2 up				Security A	dministration ce Security	JNDI Browser System MBean Browser & WebLogic Server Administration Con	sole
Domain Partitions				Application System Po	n Roles	Target Silemap Target Information	
Resource Group Templates					rovider Configuration stration and Policy s		
				Keystore			
	4						

Figure 8-80 Configure Client certificates 1

3. Click on Create Stripe.

	FSLLREL_domain							Apr 30,	2019 7:55:25 AM 15T
/Domain_OF	SLLREL_domain/OFS	LLREL_domain >	Keystore						
Keystor	e								
The Keystor	e is a repository of key	s and security cer	tificates. T	hese are orga	nized into namesp	aces called "stripes". To work	with a stripe or a keystore,	select its row in the table and select a me	nu option. On this p
you can crea	ate a stripe, create a ke	ystore within a str	ipe, mana	ge certificates	In a keystore, chai	nge a keystore password, or i	delete a stripe or keystore.		
View 🐨	+ Create Stripe	+ Create Key	etore	🗙 Deleta	oo Manage	/ Change Password	Detach		
Name			Protect	ion					
1	system		n/a						
+ 0	орве		n/a						

Figure 8-81 Configure Client certificates 2

4. Enter the Stripe Name as **OFSLL_STRIPE**.



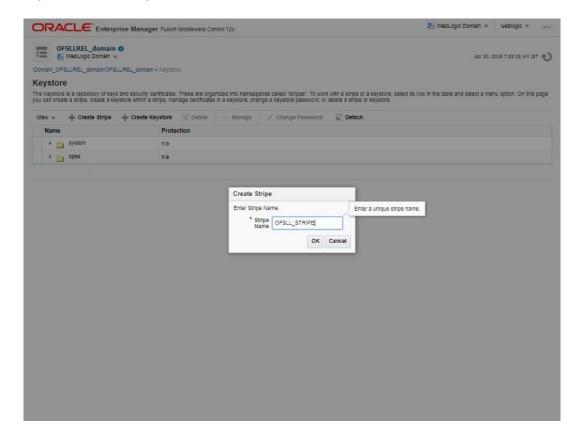


Figure 8-82 Configure Client certificates 3

5. Click OK.

The following OFSLL_STRIPE is created.

Figure 8-83 Configure Client certificates 4

DRACLE' Ent	erprise Manager Fusion Middleware Control 12c	🧱 WebLogic Domain 💌 🛛 weblogic 👻 💼
OFSLLREL_dom		Apr 30, 2019 7:55:25 AM 15T 🔧
Information The stripe OF SLL_STRIF	E has been created.	ji I
	PSLLREL_domain > Keystore	
eystore e Keystore is a repository of	keys and security certificates. These are organized into namespaces called "stripes". To wor	k with a stripe or a keystore, select its row in the table and select a menu option. On this page
exestore e Keystore is a repository of u can create a stripe, create	keys and security certificates. These are organized into namespaces called "stripes". To wor keystore within a stripe, manage certificates in a keystore, change a keystore paseword, or	delete a stripe or keystore.
eystore e Keystore is a repository of	keys and security certificates. These are organized into namespaces called "stripes". To wor keystore within a stripe, manage certificates in a keystore, change a keystore password, or	k with a stripe or a keystore, select its row in the table and select a menu option. On this page delete a stripe or keystore.
exestore e Keystore is a repository of u can create a stripe, create	keys and security certificates. These are organized into namespaces called "stripes". To wor keystore within a stripe, manage certificates in a keystore, change a keystore paseword, or	delete a stripe or keystore.
existore is a repository of u can create a stripe, create New + Create Strip	keys and security certificates. These are organized into namespaces called "stripes". To vor keystore within a stripe, manage certificates in a keystore, change a keystore paseword, or • + Create Keystore X Delete on Manage // Change Paseword	delete a stripe or keystore.
eystore e Kaystore is a repository of u can create a stripe, create /lew = + Create Strip Name	keys and security certificates. These are organized into namespaces called "stripes". To work keystore within a stripe, manage certificates in a keystore, change a keystore paseword, or • + Create Keystore X Delete on Manage Change Paseword Protection	delete a stripe or keystore.

- 6. Select the newly created **OFSLL_STRIPE** and click **Keystore**.
- 7. Enter the Keystore Name as **OFSLL_KSS** and click **OK**.



Information The stripe OF SLL_STRIPE has been the stripe of SLL_STRIPE	en created.				
Domain_OFSLLREL_domain/OFSLLREL	_domain > Keystore				
Keystore The Keystore is a recository of keys and i	equity certificates. These are pro-	inized into namespaces called "M	rines". To work with a s	stripe or a keystore is	elect its row in the table and select a menu option. On this
you can create a stripe, create a keystore	within a stripe, manage certificate	Create Keystore	and an extent of the state of t	etrino or keystore	
View + Create Stripe +	Create Keystore 🗙 Delete	Kaustara			
Name	Protection	Keystore Stripe Name	PE		
system	n/a				
opss	n/a	Name OFSLL_KSS			
OFSLL_STRIPE	n/a	Protection Policy	Password		
		Keystore			
		Password			
		Confirm Password			
		Grant 📖			
		Permission 6			
		Code Base URL			
			ОК Са	incel	
				_	

Figure 8-84 Configure Client certificates 5

8. Select OFSLL_KSS and click Manage.

Figure 8-85 Configure Client certificates 6

IRACLE Enterprise N	Aanager Fusion Middleware Control 120	🧱 WebLogic Domain 💌	weblogic *
OFSLLREL_domain O		Apr 30, 2	019 8:01:03 AM IST 📲
main_OFSLLREL_domain/OFSLLREL_	domain > Keystore		
eystore			
enceystore is a repository of keys and se	ecurity certificates. These are organized into namespaces called "stripes". To work with a stripe or a keysto	re, select its row in the table and select a mer	no option. On this pay
i cari create a stripe, create a kieystore v	exing definitiones, there are organized into hamespace valued singles. To work with a single of a keystowithin a single of a keystore change a keystore password, or delete a single or keystore create Keystore X Delete or Manage // Change Password 🛒 Detach	re, eelet, lie row in the lable and electra mer e	na opiion. On this pa
i cari create a stripe, create a kieystore v	within a stripe, manage certificates in a keystore, change a keystore password, or delete a stripe or keystor	re, seleculto rulli in pre laure and selecula men 9.	na opiion. On ene pa
i cari create a stripe, create a keystore v lew + Create Stripe + C	within a stripe, manage certificates in a keystore, change a keystore password, or delete a stripe or keystor Create Keystore X Delete 🗠 Manage Achange Password 😭 Detach	re, beleur na rum in une laure anu beleur a mer E.	no opuon. On ana pa
i cañ create a stripe, create a keystore v lew + Create Stripe + C Name	within a stripe, manage certificates in a keystore, change a keystore password, or delete a stripe or keystor Create Keystore X Delete 💿 Manage 🖉 Change Password 🛒 Detach Protection	re, berevi ila rum il ure laute and seleci a men 8.	no opuon. On ens pa
i cari create a stripe, create a keystore v lew + Create Stripe + C Name >	within a stripe, manage certificates in a keystore, change a keystore password, or delete a stripe or keystor create Keystore X Delete coor Manage // Change Password 2 Detach Protection n/a	re, berevi ila rum il ure laute and seleci a men 8.	no opuon. On ana pa

9. Click Import.



	FSLLREL_dom							1	Apr 30, 2019 8:03:02 AM
Domain OF	SLLREL domain/	OFSLLREL	<u>domain</u> > Keystore > M	lanage Certifica	tes				
To generate table and clic	a new key pair (pu ck "Generate CSR	blic and pri	LL_STRIPE/OFS vate key) and wrap the p create a CSR, send it to ame keystore from which	ublic key into a your CA who w	ill verify your id	ed by the Demo CA, lentity and return the	olick "Generate Key signed certificate. To	pair". To generate a Certificate Signing Request o Import the CA signed certificate or trusted cert.	(CSR), select a certific click import. You can c
View w	+ Generate K	eypair	🚉 Generate C SR	进 Import	🚖 Export	🗙 Delete	🖉 Change Passy	word	
Alias	s Subjec	t Name				Certificate Type	Serial Number	Certificate SHA1 Fingerprint	Expiratio
No Certifica	ates Found. Click o	n "Generat	e Keypair" to create a Ce	ertificate.					

Figure 8-86 Configure Client certificates 7

10. In the below **Import Certificate** screen, specify the following details:

- Certificate Type: Trusted Certificate
- Alias: webhook Channel Name
- Choose file: webhook channel certificate

OFSLLREL_doma				Apr 30	, 2019 8:03:02 AM 15T
/Domain_OFSLLREL_domain/O	FSLLREL_domain > Ke	retore > Manage Certificates			
Manage Certificates	OF SLL STRIP	E/OFSLL KSS			
	1.1.1.1		ned by the Demo CA, click "Generate Keypair". To generate a Identity and return the signed certificate. To import the CA sig	a Certificate Signing Request (CSR	, select a certificate i
Import the CA-signed certificate	into the same keystore fr	rom which the CSR was generated.	identity and return the signed certificate. To import the CA sig	neo ceruncate or trusteo cert, ciick i	mport. You can only
	Import Certificate				
View 👻 🕂 Generate Ke	Certificate Type	Trusted Certificate 🔻			
Alias Subject No Certificates Found. Click on	Allas	EXTERNALINTERFACE-O.			Expiration I
	Certificate Source	Paste Certificate or Certificate Cha	ain		
		Paste Certificate String here			
		-			
				100	
				11	
		Select a file that contains the Cert	ficate or Certificate Chain		
		* File Name	Choose File containing a valid certificate.		
		Choose File root.cer			
		Concentration of the concentration		OK Cancel	

Figure 8-87 Configure Client certificates 8

11. Click OK.

8.5 Create Credentials and System Policies

In order Configure MDB flow, you need to create credentials and system policies. The credentials are accessed through CSF framework which is managed by Oracle Weblogic Server. The keys are managed by Maps and Maps need to be given with Permissions.

Create Credentials and System Policies

8.5.1 Create Credentials and System Policies

Follow the below steps to create credentials and system policies.

- 1. Login to Oracle Enterprise Manager (http://hostname:port/em).
- On the left panel, right click on OFSLLREL_domain and select Security > System Policies > Credentials.



Figure	8-88	Credentials pag	je
--------	------	-----------------	----

		🅌 WebLogic Domain 👻	weblogic *	
CF5LLREL_domain		Sep 16, 3	2017 3:51:40 PM IST	Ð
Domain_OFSLLREL_domain/OFSLLREL_domain > Credentials				
Credentials				
A credential store is the repository of security data that certifies the authority of entities used by Java SE consolidated service provider to store and manage their credentials securely.	, Java EE, and ADF a	pplications. Applications can use the Crede	ntial Store, a single	L.
Credential Store Provider				
View • + Create Map + Create Key / Edit X Delete Creden	tial Key Name	► 🔐 Detach		
Credential	Туре	Description		
ofsil.http.listener.jndi				

3. Click Create Map.



Figure 8	-89 (Create	Мар
----------	-------	--------	-----

Domain_OFSLLREL_domain/OFSLLREL_domain > Credentials CredentialS credential store is the repository of security data that certifies the authority of entities used by Java SE, Java EE, and ADF applications. Applications can use the Credent single, consolidated service provider to store and manage their credentials securely. Credential Store Provider View * + Create Map + Create Key Edit Delete Credential Key Name Credential Create Map Create Map Image: Create Map Image: Create Map Image: Create Map A creater Map A creater Map Image: Create Map Image: Create Map Image: Create Map A creater Map Image: Create Map Image: Creater Map Image: Creater Map Image: Create Map A creater Map Image: Creater Map Image: Creater Map Image: Creater Map Image: Creater Map Image: Creater Map Image: Creater Map Image: Creater Map Image: Creater Map Image: Creater Map Image: Creater Map Image: Creater Map Image: Creater Map Image: Creater Map Image: Creater Map Image: Creater Map Image: Creater Map Image: Creater Map Image: Creater Map Image: Creater Map Image: Creater Map Image: Creater Map Image: Creater Map Image: Creater Map<	OFSLLREL_dom				Sep	16, 2017 3:51:40 PM I
credential store is the repository of security data that certifies the authority of entities used by Java SE, Java EE, and ADF applications. Applications can use the Credential single, consolidated service provider to store and manage their credentials securely. Credential Store Provider View ▼ + Create Map + Create Key Edit Detect Name Credential Credential Key Name Detach Credential Create Map Create Map Image: Create Map Image: Create Map Image: original is uniquely identified by a map name and a key name. Typically, the map name corresponds with the same map name define a logical group of credentials, such as the credentials used by the application. All map names in a credential store must be distinct. * Map Name * Map Name ofsli.int.buresu	omain_OFSLLREL_domain/	DFSLLREL_domain > Credentrals				
angle, consolidated service provider to store and manage their oredentials securely.						
View + + Create Map + Create Key Edit. Delete. Credential Key Name > Delach Credential Create Map A credential is uniquely identified by a map name and a key name. Typically, the map name corresponds with the name of an application and all credentials with the same map name define a logical group of credentials, such as the credential is used by the application. All map names in a credential store must be distinct. * Map Name ofsli.int.bureau				d by Java SE, Java EE, and AD	F applications. Applications ca	n use the Credential
Create Map Create Map Create Map Create Map Image: Create Map A createrial is uniquely identified by a map name and a key name. Typically, the map name corresponds with the name of an application and all credentials with the same map name define a logical group of credentials, such as the credential used by the application. All map names in a credential store must be distinct. * Map Name ofsil.int.buresu	Credential Store Provide					
A credential A credential is uniquely identified by a map name and a key name. Typically, the map name corresponds with the name of an application and all credentials with the same map name define a logical group of credentials, such as the credentials used by the application. All map names in a credential store must be distinct. * Map Name ofsil.int.bureau	View 👻 🕂 Create Map	+ Create Key Edit	Delete			Detach
the name of an application and all oredentials with the same map name define a logical group of oredentials, such as the oredentials used by the application. All map names in a credential store must be distinct. * Map Name ofsil.int.bureau	Credential	Create Map				
OK Cancel		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ames in a credential store mus	OK Cancel	

- 4. Enter Map Name as ofsll.int.bureau and click OK.
- 5. Click Create Key.



			02-May-1	2018 07:30:18 EDT
Information The credential key, sdfsf, has been seen and the seen and the second se	en created.			
Domain_OFSLLREL_domain/OFSLLR	EL domain : ate Key	> Credentials	×	
			10 10	tial Store, a single
onsolidated service provider to s Se Credential Store Provider		ofsil.int.bureau 🔻		
P Credential Store Provider	* Key	jdbc_ds_key		
View 👻 🕂 Create Map	Туре	Generic 🔻	Detach	
	scription	Queue App Datasource		
🕨 💼 ofsil.http.listener.jr			1.	
ofsil.int.bureau		Enter as text Enter map of property name and value pairs		
* c	redential	jdbo/QueueAppDS		
			11	
31	_			
A. 1			OK Cancel	
			#	

Figure 8-90 Create Key

- 6. Specify the following details:
 - Select Map as ofsll.int.bureau from the drop down list.
 - Specify Key as jdbc_ds_key
 - Select Type as Generic from the drop down list.
 - Specify the Credential as jdbc/QueueAppDS
- 7. Click OK.
- 8. Similarly you need to create the following Maps and corresponding keys as indicated in following table.

Table 8-1 Maps and corresponding keys

Maps	Keys	Description
ofsll.int.bureau		This map is used to setup keys for all credit bureau interfaces
	ProxyServer	Name of the proxyServer to be configured
	ProxyPort	Port to which ProxyServer is running.
	ExpEcalsURL	The Experian Connection URL to be configured.
	ExpDirectExperianEnabled	If you set value as true, then you would be setting ecals response URL. Else, the Ecals request URL



Maps	Keys	Description
	ExpCertPath	The location of .jks file which contains the valid certificate for Experian Credit Bureau.
	ExpBusUserNamePassword	Login Credentials to be configured for Experian Business reports.
	ExpConUserNamePassword	Login Credentials to be configured for Experian Consumer reports.
	EfxURL	The Equifax Connection URL to be configured.
	EfxCertPath	The location of .jks file which contains the valid certificate for Equifax Credit Bureau.
	EfxUserNamePassword	Login credentials to be configured for accessing Equifax Reports.
	TucCertPath	The location of .jks file which contains valid certificate for Transunion Bureau.
	TucCertPassword	The password that requires to read the valid .jkscertificate for the Transunion Bureau.
	TucUserNamePassword	Login credentials to be configured for accessing Transunion reports
	TucConnectionURL	The Transunion URL to be configured.
	jdbc_ds_key	Datasource configured to retrieve data for bureau.
	source	Configured as EXTERNAL for actual call.
ofsll.int.outbound		This map is used to setup keys for the RouteOne and Dealer track call back from OFSLL.
	roUserNamePassword	Login Credentials used at the time of call back from OFSLL to RouteOne Interface.
	dtUsernamePassword	Login Credentials used at the time of Call back from OFSLL to Dealer Track Interface.
	jdbc_ds_key	Datasource configured to retrieve data for outbound Resources.
	roPostDealerUsernamePasswd	Credentials required to upload the dealer details to Route One Portal
	roPostDealerWbsURL	Route One Post Dealer Web Service url
	roDealerUploadURL	Route One URL to upload the Dealer details

 Table 8-1
 (Cont.) Maps and corresponding keys



Maps	Keys	Description
	dtPostDealerUsernamePasswd	Credentials required to upload the dealer details to Dealer Track Portal
	dtPostDealerWbsURL	Dealer Track Post Dealer Web Service url
	dtDealerUploadURL	Dealer Track URL to upload the Dealer details
	VertexUserNamePd	Credentials required to connect to VERTEX web service
	VertexTrustedId	ID required to connect to VERTEX web service
	TorqueItsUserNamePassword	Credentials required to connect to Torquelts web service
	TorqueItsURL	Torquelts Decision service UR
	ProxyHost	Name of the proxyServer to be configured.
	ProxyPort	Port to which ProxyServer is running.
ofsll.int.bip		This Map is used to setup all the Keys required to setup interfact with BIP to generate reports.
	local_top_dir	Define the path of the local BI server where you would like place the generated BIP reports.
	email_from_addr	Define the From Email address to be used while sending email for the generated BIP reports.
	emailBodyContentPath	The path for file.propertiesfile that contains the content of the subject and body required whi sending letter, report or correspondence as mail to the applicant or producer. For example; /tmp/file.propertie
		*Refer to note below for details on file.propertiesfile creation for email configuration
	fax_server	Configure the name of Fax server to be used to fax the generated BIP reports.
	jdbc_ds_key	Datasource configured to retrieve data for BIP.
ofsll.int.filetransfer		This map is used to setup keys for all credit bureau interfaces
	sftp_key	Credentials to login to SFTP server(Username/Password)
	sftp_top_dir	Top root directory for SFFTP server
	sftp_servers	SFTP server names

 Table 8-1
 (Cont.) Maps and corresponding keys



Maps	Keys	Description
ofsll.int.security	bip_key	This is BIP login credentials
ofsll.int.gri	GriURL	GRI web service URL to be configured.
	GriAPIKey	GRI API key to be configured
	ProxySet	System Level Proxy Enabled/ Disabled. Value can be either true or false.
		True= proxy required
		False = proxy not required
	ProxyHost	Name of the proxyServer to be configured.
		Set only if ProxySet =true.
	ProxyPort	Port on which ProxyServer is running.
		Set only if ProxySet =true.
	jdbc_ds_key	Datasource configured to retrieve the request XML for GRI.
	GriCertPath	The location of .jks file whic contains the valid certificate for GRI.
		Configure only when a valid certificate is available.
ofsll.int.common		This map is used to setup key for common JMS Queue
	OfsIIJMSQueueJNDI	The JMS queue JNDI name to be configured
	OfsIIJMSQueueCF	The JMS queue connection factory to be configured
	OfslIJMSServerURL	The JMS server url to be configured.
		Ex: t3:// <jms server<br="">host>:<jms port="" server=""></jms></jms>
	outbound_jms_queue_con_fact ory	The JMS connection factory to be configured. jms/OfsllOutboundCF
	outbound_jms_queue	The JMS queue to be configured.
		jms/OfsllOutboundQueue
	weblogic_cluster_ind	This is to be configured based on the environment i.e. for weblogic cluster environment set it as Y . Else, set it to N .

Table 8-1 (Cont.) Maps and corresponding keys



Maps	Keys	Description
	outbound_jms_queue_provide url	er_ The JMS server url to be configured.
		Ex: For non clustered environment - t3:// <jms server<br="">host>:<jms port="" server=""></jms></jms>
		Ex: For clustered environment - t3:// <jms host="" server="">:<jms server port>,<jms server<br="">host>:<jms port="" server=""></jms></jms></jms </jms>
ofsll.int.webhook	jdbc_ds_key	Datasource configured to retrieve data for Webhook.

Table 8-1 (Cont.) Maps and corresponding keys

* A new file(file.properties) needs to be created and copied to the application server in the same path as mentioned in the value corresponding to the key **emailBodyContentPath** under the map **ofsll.int.bip**. The file should have the following contents:

- letter_subject='Text that is configurable and would be the subject of the mail'
- letter_body='Text that is configurable and would be the body of the mail'
- correspondence_subject='Text that is configurable and would be the subject of the mail'
- correspondence_body='Text that is configurable and would be the body of the mail'
- report_subject='Text that is configurable and would be the subject of the mail'
- report_body='Text that is configurable and would be the body of the mail'
- On the left panel, right click on OFSLLREL_domain and select Security > System Policies. The following window is displayed.



ORACL	.E 'E	nterprise Manage	Fusion Middlew	are Control 12c	將	WebLogic Domain 🔻	weblogic *	
OFSLLR						Sep 16, 20:	17 4:00:38 PM IS	т 1
/Domain_OFSLLRE	L_domai	n/OFSLLREL_domain	> System Policies					
System Polic	cies							
System policies are codebase.	the syste	em-wide policies applie	d to all application	is deployed to current manag	ement domain. You can grant spec	al permissions and privile	eges to principal	or
Policy Store Pr	rovider							
Search								
Select a grant type a	and enter	r search keyword for c	debase or princip	al to query system security g	ants.			
	Туре	Codebase	~					
	Name	Starts With	185	•				
View 🔻 🎽 C	Create,	Create Like	Edit.	X Delete		E	Deta	ch
/		à						
Name								
No security policies	s found.							

Figure 8-91 System Policies

10. Click Create.



Figure 8-92 Create Syste

	CLE Enterprise Manager Fusion Middleware Control 12c	E WebLogi	ic Domain 🔻 🛛 weblogic	*
	SLLREL_domain 🗿 WebLogic Domsin 👻		Sep 16, 2017 4:03:48 (PM IST 🜗
Domain_OFS	LLREL_domain/OFSLLREL_domain > System Policies > Create System Grant			
Create Sy	ystem Grant		ок	Cance
isers or roles. elative path.	different types of system policies supported by application server: principal policy and co Codebase policy grants permissions and privileges to a codebase, which is mostly URL Codebase			
* Codebase	file:\${domain.home}/lib/OfsIICommonCSF.jar			
ermissions				
View +	+ Add / Edit X Delete 📆 Detach			
Permiss	ion Class	Resource Name	Permission Actio	ns
Permissio		Resource Name	Permission Actio	ns
Promotion.a		Resource Name	Permission Actio	ns
Paraostrada		Resource Name	Permission Actio	ns
- Philaodicage		Resource Name	Permission Actio	ns
- Philaodicage		Resource Name	Permission Actio	ns
Paraostrada		Resource Name	Permission Actio	ns
Paraostrada		Resource Name	Permission Actio	ns
Paraostrada		Resource Name	Permission Actio	ns
Promotion.a		Resource Name	Permission Actio	ns
12/2010022		Resource Name	Permission Actio	ns
12/2010022		Resource Name	Permission Actio	ns
100000000		Resource Name	Permission Actio	ns
12/2010022		Resource Name	Permission Actio	ns

- 11. Enter the codebase as file:\${domain.home}/lib/OfsllCommonCSF.jar.
- 12. Click Add.

Create System	Add Permission						ОК	Cance
There are two different users or roles. Codeba elative path.	Select from permissions and resourt	urpes used in system pol	icies of this d	lomain. Enter search criteria t	o search for right per	missions.	rivileges to her absolut	
Grant To Codeb * Codebase file:\${c Permissions	Type Name Permission	Codebase	~					
View - Ada	Search Results							
Permission Cla	Name	Тур	e	Permission			ion Actio	ns
No permissions adde	No permissions found. Select here to enter details for a							
		enderste beseden er en er	ice.credstore	CredentialAccessPermission	E			
		context=SYSTEM,map	Name=ofsII.ii	nt.bureau,keyName=*				
	Permission Actions	read						
					OK	Cancel		

Figure 8-93 Add permission

- **13.** Select the check box **Select here to enter details for a new permission**.
- **14.** Specify the following details as the first permission class.

Table 8-2 Permission Class

Permission Class	Resource Name	Permission Actions
oracle.security.jps.service.credst ore.CredentialAccessPermissio n	context=SYSTEM,mapName=of sll.int.bureau,keyName=*	read
oracle.security.jps.service.credst ore.CredentialAccessPermissio n	context=SYSTEM,mapName=of sll.int.filetransfer,keyName=*	read
oracle.security.jps.service.credst ore.CredentialAccessPermissio n	context=SYSTEM,mapName=of sll.int.outbound,keyName=*	read
oracle.security.jps.service.credst ore.CredentialAccessPermissio n	context=SYSTEM,mapName=of sll.int.bip,keyName=*	read
oracle.security.jps.service.credst ore.CredentialAccessPermissio n	context=SYSTEM,mapName=of sll.int.gri,keyName=*	read
oracle.security.jps.service.credst ore.CredentialAccessPermissio n	context=SYSTEM,mapName=of sll.int.common,keyName=*	read
oracle.security.jps.service.credst ore.CredentialAccessPermissio n	context=SYSTEM,mapName=of sll.http.listener.jndi,keyName=*	read



Table 8-2	(Cont.)	Permission Class
-----------	---------	------------------

Permission Class	Resource Name	Permission Actions
oracle.security.jps.service.credst ore.CredentialAccessPermissio n	<i>i</i> 1	read, write, update
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	stripeName=OFSLL_STRIPE,k eystoreName=OFSLL_KSS,alia s=*	read

15. Click OK.

8.6 Deploy MDB EJB

The following section details the steps to be followed to deploy MDB EJB.

• Deploy MDB EJB

8.6.1 Deploy MDB EJB

 Login to Web Logic application server enterprise manager (e.g.:http:// hostname:port/em).

SIGN IN TO ORACLE ENTERPRISE MANA FUSION MIDDLEWARE CONT	
Domain Domain_OFSLLREL_domain * User Name	
	ORACLE

Figure 8-94 Deploy MDB EJB 1

Enter valid login credentials.
 The following window is displayed.

DFSLLREL_domain ()							1	•	Auto Refresh	Off	1
WebLogic Domain +								Sep	26, 2017 8:15:37	PM IST	1
Information Certain functionality on this pa	ge is a	vailable only when you own the edit sessio	on lock. T	o obtain ti	ne lock, click	"Lock and	Edit" in the Char	nge Center	r menu.		
Servers		Administration Server									
3 Up	•	Name AdminServer Host ofsil.in.oracle									
Clusters		Listen Port 9001 Servers									
Clusters	Þ	View v 📲 Create 🗙 Delete	Control	-1							
		Name	Status	Cluster	Machine	State Running	Health		Listen Port		
		AdminServer(admin) OFSLL_ManagedServer	+			Running	OK		9003		
Deployments		WS ManagedServer	+			Running	OK		9003		
3 Up	Þ					The state of					
Domain Partitions 0 Domain Partitions	×.										

Figure 8-95 Deploy MDB EJB 2

- 3. Select Lock & Edit option in the lock drop-down list available in the header.
- 4. Click **Deployment** in the left panel.



OFSLLREL_domain ()							î	•	•	Auto Refresh	Off	
🔚 WebLogic Domain 👻								Edit	Sessions	5	MI	ST 숙
1) Information								Lock	k & Edit	1	2	1
Servers 3 Up Clusters		Administration Server Name AdminServe Host ofsilin.oraci Listen Port 9001 Servers						Rele Activ Und View Pref	vate Con vate Char o All Cha v Restart erences			
0	Þ	View 👻 📔 Create 🛛 💥 Delete	Contro	v Ey				Help	,			
Clusters		Name	Status	Cluster	Machine	State	Health			Listen Port		
		AdminServer(admin)	Ť			Running	OK			9001		
		OFSLL_ManagedServer	+			Running	OK			9003	l)	
Deployments		WS_ManagedServer	1			Running	OK			9004	-	
3 up Domain Partitions Domain Partitions	4 A											
Resource Group Templates		<										>

Figure 8-96 Deploy MDB EJB 3

 Select **Deploy** from the Deployment drop-down list. The following window is displayed.



OFSLLREL_domain								🗎 🕶 🔛 💌 Auto Sep 16, 2017	Refresh Off
Confirmation The edit session lock has been	acqu	uired. No p	ending changes e	xist.					
Servers		Deployr	nents						
	Þ	View +	Show All	Deployment + Override +	Contro	ol +			
3 up			Name	1 Deploy	Status	State	Health	Туре	Domain Pa
		+	opss-rest	🖹 Redeploy	+	Active	OK	Web Application	
0 Clusters	P.								
Deployments	•								
	•	K							,

Figure 8-97 Deploy MDB EJB 4

FSLLREL_domain	0								
Select Archive	Select Target	Application Attributes	Deployment Settings						
Deploy Java EE	EApplication: §	Select Archive				Back	Step 1 of 4	Next	Cano
Scope							Informatio	on	
JDBC Modules, JMS N where Enterprise Mana Archive is on the r Choose file C	o Modules (WAR files), E fodules, and library files ager is running. nachine where this Web fsllQueueApp.ear	(Jar files) can be deployed. Yo	Resource Adapter Modules (RA) ou can also deploy an exploded r is running.			apj Me tak Ap Fra If y cor Co If y cor ME cor	e this page to plications that tadata Servic e advantage plication Dewi amework (Ora amework (Ora arour application mposite, use to mposite or it o S reposito or it o S repository, the	t require (bes (MDS of the Ori elopment acle ADF) on is a SC the SOA oyment w on is not a does not r or ADF en you ca	Dracle) or tha acle)A izard. s SOA require n deplo
					Browse	or	ur application the Oracle W ministration C	ebLogic S	
Doployment Pice									
application. Later in the do not have a deploym deploymet plan is not a Create a new dep Deployment plan i Choose file N	e deployment process, y ent plan, one will be cre applicable when you dep loyment plan when depl s on the machine where o file chosen	ou can optionally edit the deple ated automatically during the o	olication. You can use a previous oyment plan and save it for a fut deployment process when deplo	ture deployment of this appli	ication. If you	, <u> </u>			

7. Browse to the folder containing the MDB EJB.

Eg:C:/OfsllQueueApp.ear

8. Click Next.

Figure 8-99 Deploy MDB EJB 6

LLREL	_domain 🕦					
0		· · · · · · · · · · · · · · · · · · ·				
Select Ar	rchive Select Target	Application Attributes Deployment Settings				
ploy	Java EE Application: Se	lect Target	I	Back Step 2 of 4	Next	Cano
• •	e WebLogic server or cluster that	ou want this application to be deployed to.	E Deployed Applica		Next	Cano
Select th	e WebLogic server or cluster that	ou want this application to be deployed to.			Next	Cano
Select th Select	ne WebLogic server or cluster that y	ou want this application to be deployed to. Type	Deployed Applica		Next	Canc

- 9. Select the server on which the MDB EJB needs to be deployed.
- 10. Click Next.
 - The following window is displayed.



OFSLLREL_domain 🕦		
0	0 0	
Select Archive	Select Target Application Deployment Settings Attributes	
Deploy Java EE Ap	plication: Application Attributes Back Step 3 of 4 Next	Deploy Cano
A Hide Deployment Summa	ary	
Archive T	ype Java EE Application (EAR file)	
Deployment F	Plan Create a new plan	
Deployment Tar	rget OFSLL_ManagedServer	
Sc	ope Global	
Deployment T	ype Application	
	Name OfsIIQueueApp	
* Application		
* Application	Name OfsliQueueApp The application source files and deployment plan are distributed to the deployment targets. If distribution is successful, the application is then started on each of the	
* Application	Name OfsIlQueueApp The application source files and deployment plan are distributed to the deployment targets. If distribution is successful, the application is then started on each of the targets.	
* Application	Name OfsIIQueueApp The application source files and deployment plan are distributed to the deployment targets. If distribution is successful, the application is then started on each of the w Install and start application (servicing all requests)	
* Application	Name OfsIQueueApp The application source files and deployment plan are distributed to the deployment targets. If distribution is successful, the application is then started on each of the arrives. • Install and start application (servicing all requests) • Install and start application in administration mode (servicing only administration requests)	
* Application Distribution	Name OfsIQueueApp The application source files and deployment plan are distributed to the deployment targets. If distribution is successful, the application is then started on each of the arrives. • Install and start application (servicing all requests) • Install and start application in administration mode (servicing only administration requests)	
* Application Distribution	Name OfsilQueueApp The application source files and deployment plan are distributed to the deployment targets. If distribution is successful, the application is then started on each of the targets. Install and start application (servicing all requests) Install and start application in administration mode (servicing only administration requests) Install only. Do not start.	targeted.

Figure 8-100 Deploy MDB EJB 7

- **11.** Select the option **Install and start application (servicing all requests)**.
- **12.** Check the context root and click **Next**.



FSLLREL_domain 🕦					
0	0	•			
Select Archive Sele	ect Target Applica	tion Attributes Deployment Settings			
Deploy Java EE Appli	cation: Deploym	ent Settings	Back Step 4 of 4 Nex	t Deploy	Can
Hide Deployment Summary					
Archive Type	Java EE Application (E/	AR file)			
Deployment Plan	Create a new plan				
Deployment Target	t OFSLL_ManagedServe	<i>त</i>			
Scope	Global				
Deployment Type	Application				
Application Name	OfsllQueueApp				
Version	Not versioned				
Deployment Mode	Install and start applicat	ion (servicing all requests)			
Deployment Tasks					
and the second	iks that you may wish to d	o before deploying the application.			
Name	Go To Task	Description			
	/	Configure the Enterprise Java Beans in your application.			
Configure EJBs					

Figure 8-101 Deploy MDB EJB 8

13. Click **Deploy**. On successful deployment, the following window is displayed.

Deployment Su	cceeded
Deployment of Applica to activate or undo the	ation "OfsIlQueueApp" is completed. The deployment changes are pending activation. Exit the wizard and use the Change Center changes.
Summary	
Scope	e Global
Version	Not versioned
	/u01/Middleware/Weblogic12cHome/user_projects/domains/OFSLLREL_domain/sysman/upload/deploy/OfsllQueueApp/archive/ OfsllQueueApp.ear
Archive Type	Java EE Application (EAR file)
Deployment Mode	Install and start application (servicing all requests)
Deployment Targe	t OFSLL_ManagedServer
Application States	Unavailable (OFSLL_ManagedServer)
🔏 Hide Progress Me	ssages
[16 September 20 [16 September 20 Ofsl/QueueApp/ar [16 September 20 occurs, task proce	117 18.48.07 o'clock IST] Initiating deploy operation 17 16.48.07 o'clock IST] Saving the oracle configuration changes to archive. 17 18.48.09 o'clock IST] Archive: 'Jul Middleware'NVeblogin12cHome'user_projects/domains/OFSLLREL_domain'sysman/upload/deploy/ chive/CSIIQueueApp ear 17 18.48.09 o'clock IST] Deployer:149140]The task cannot be processed further until the current edit session is activated. When this essing will continue. The user can exit the deployer tool without affecting the task. 17 18.48.09 o'clock IST] Deploy operation completed.
	Ci

Figure 8-102 Deploy MDB EJB 9

14. Click Close. Post deployment, you need to activate the changes by selecting Active Changes option from Edit Session drop-down list as indicated in step 4 above.



While starting the **OFSLLREL_ManagedServer**, always start with option - **DUseSunHttpHandler=true** to enforce the weblogic server to uses SUN SSL implementation.

9

Configure Oracle Analytics Publisher for Application

The following sections details the steps to be followed to configure Oracle analytics publisher for application.

- Configuring Oracle Analytics Publisher for Application
- Configuring JNDI Name for http Listener

9.1 Configuring Oracle Analytics Publisher for Application

- Copy the OfsllCommonCSF.jar from /WEB-INF/lib available in the staging area to \$DOMAIN_HOME/lib
- 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.



0	FSLLREL domain ()						1	- ·	Auto Refresh	Off
	WebLogic Domain 👻							Se	p 21, 2017 8:36:59 /	AM IST
1 Infc	Home									
Cert	Monitoring		en you own the edit session lock. T	o obtain th	e lock, click	"Lock and	Edit" in the	Change Cent	er menu.	
Serve	Diagnostics		on Server							
	Control	+								
	Logs	+	Name AdminServer							
	Environment	٠	Security Realms							
	Deployments		Security Administration							
Clust	JDBC Data Sources		Web Service Security							
	Messaging		Application Policies	U.						
	Cross Component Wiring		Application Roles	uster		State	Health	A 7	Listen Port	
	Web Services		System Policies			Running	ок		9001	
-	Other Services	٠	Security Provider Configuration			Running	ок		9003	
Deplo	Administration		Audit Registration and Policy			Running	ок		9004	
	Refresh WebLogic Domain		Credentials	N						
	Security	Þ	Keystore	3						
	JNDI Browser	1		_						
and a second	System MBean Browser									
Doma	WebLogic Server Administration Console									
	Target Sitemap									
	Target Information									
		- 1								>

Figure 9-1 BI Publisher 1

4. Click WebLogic Domain on the right panel. Select Security > Credentials. Click Create Map.

CF5LLREL_domain 3		Sep 21, 201	17 8:58:42 AM IST 4
/Domain_OFSLLREL_domain/OFSLLREL_domain > Credentials			
Credentials			
A credential store is the repository of security data that certifies the authority of entities u	used by Java SE, Java EE, and ADF a	pplications. Applications can use the Credenti	al Store, a single,
consolidated service provider to store and manage their credentials securely.			
Credential Store Provider			
View - Create Map + Create Key / Edit X Delete	Credential Key Name	► 🕅 Detach	
Credential	Туре	Description	
🕨 👝 ofsil.http.listener.jndi			
🕨 👝 ofsil int bureau			

Figure 9-2 BI Publisher 2

5. Enter the Map Name: ofsll.int.security.

	rise Manager Fusion Middleware Control 12c		HebLogic Domain + weblogic +
OFSLLREL_domain			Sep 21, 2017 8-58-42 AM IST
Domain_OFSLLREL_domain/OFSL	LLREL_domain > Credentials		
Credentials			
A credential store is the repository o consolidated service provider to store	of security data that certifies the authority of entities u re and manage their credentials securely.	sed by Java SE, Java EE, and ADF a	applications. Applications can use the Credential Store, a single
Credential Store Provider			
View - Create Map	Create Key / Edit. X Delete.	Credential Key	Detach
Credential		Type	Description
ofsll.http.listener.jndi	Create Map		
ofsll.int.bureau	A credential is uniquely identified by a map name	e and a key name. Typically, the map	name corresponds with
ofsil.int.bureau	the name of an application and all credentials wi such as the credentials used by the application.	th the same map name define a logic All man names in a credential store n	al group of credentials, nust be distinct
	such as the oredentials used by the application.	annap names in a credential store in	
	* Map Name ofsll.int.secu	irity ×	
			OK Cancel

Figure 9-3 BI Publisher 3

6. Click OK.

Figure 9-4	BI Publisher 4
------------	----------------

GFSLLREL_domain ()				Sep 21, 3	2017 8:58:42 AM I	ST 🜗
Information						(
The credential map, ofsll.int.security, has been created.						
main_OFSLLREL_domain/OFSLLREL_domain > Credentials						
redentials						
	used by Java SE, Jav	a EE, and ADF a	pplications. Applicati	ons can use the Crede	ential Store, a sing	ie,
solidated service provider to store and manage their credentials securely.	used by Java SE, Jav	a EE, and ADF a	pplications. Applicati	ons can use the Crede	ential Store, a sing	jle,
nsolidated service provider to store and manage their credentials securely.	used by Java SE, Jav	a EE, and ADF a	pplications. Applicati	ons can use the Crede	ntial Store, a sing	gle,
solidated service provider to store and manage their credentials securely. Credential Store Provider	used by Java SE, Jav Credential I Na	iey	pplications. Applicati	ons can use the Crede	ntial Store, a sing	gle,
solidated service provider to store and manage their credentials securely. Credential Store Provider	Credential I	iey		🗑 Detach	ntial Store, a sing	gle,
solidated service provider to store and manage their oredentials securely. Credential Store Provider fiew + Create Map + Create Key Create K	Credential I	iey me	•	🗑 Detach	intial Store, a sinç	gle,
Credential	Credential I	iey me	•	🗑 Detach	ntial Store, a sinç	gie,
solidated service provider to store and manage their oredentials securely.	Credential I	iey me	•	🗑 Detach	ntial Store, a sinç	jie.

7. Click Create Key Button.

8. Enter the details as per your requirement. Specify **User Name** and **Password** of BI Publisher console.

Information					
The credential map, ofsll.int.s					
redentials	Create Key		×	:	
credential store is the repositor insolidated service provider to s	Select Map	ofsII.int.security		te Credential Store, a sir	ngie,
Credential Store Provider	* Key	bip_key			
View - Create Map	Туре	Password		sh	
Credential	* User Name	weblogic			
ofsill.http.listener.jr	* Password				
🕨 🧰 ofsll.int.bureau	* Confirm Password	•••••			
ofsil int security	Description	BIP username and password			
			OK Cancel		
			on caller	#	

Figure 9-5 BI Publisher 5

9. Click OK.

	FSLLREL_domai						Sep 21,	2017 8:58:42 AM I	IST 숙
1 Inform	mation								8
The cr	redential key, bip_k	ey, has been create	d.						
Domain OF	FSLLREL domain/O	FSLLREL_domain >	Credentials						
	19-000 000 7 00 9-19 000								
States of the second									
Credent	Contraction of the second s								
credential	store is the repositor		at certifies the authority of entities us	ed by Java SE, Java	a EE, and ADF a	pplications. Applica	ations can use the Crede	ential Store, a sinj	gle,
credential onsolidated	I store is the reposito d service provider to		at certifies the authority of entities us eir credentials securely.	ed by Java SE, Java	a EE, and ADF a	pplications. Applica	ations can use the Crede	ential Store, a sinj	gle,
credential onsolidated	store is the repositor			ed by Java SE, Java	a EE, and ADF a	pplications. Applica	ations can use the Crede	ential Store, a sinj	gle,
credential onsolidated	I store is the reposito d service provider to ntial Store Provider			ed by Java SE, Java Credential Ke Nan	ey		ations can use the Crede	ential Store, a sinj	gle,
credential onsolidated	I store is the reposito d service provider to ntial Store Provider Create Map	store and manage the	eir credentials securely.	Credential Ke	ey		Detach	ential Store, a sinj	gle,
Credential onsolidated Creden View *	I store is the reposito d service provider to ntial Store Provider Create Map	store and manage the	eir credentials securely.	Credential Ke	ey ne		Detach	ential Store, a sinj	gie.
Credential onsolidated Creden View * Crede	store is the reposito d service provider to ntial Store Provider + Create Map	store and manage the	eir credentials securely.	Credential Ke	ey ne		Detach	ential Store, a sinj	gle,
View * Creder Creder	istore is the reposito d service provider to titial Store Provider Create Map ential ofsll.http.listener.j ofsll.int.bureau	store and manage the	eir credentials securely.	Credential Ke	ey ne		Detach	sntial Store, a sinj	gle,

Figure 9-6 BI Publisher 6

 On the left panel, right click on the domain OFSLL_domain > Security > System Policies. The following window is displayed.



	ESLIREL_domain_0						Sep 21, 2	2017 8:58:42 AM IS	ST 🕇
1 Infe	Home								6
The	Monitoring								
Domain_	Diagnostics	► als							
rede	Control								
creden	Logs) a t	he authority of entities used by Java S als securely	SE, Java	EE, and ADF a	applications. Applications	ations can use the Creder	ntial Store, a sing	le,
Crec	Environment		Security Realms						
View 1	Deployments		Security Administration	ial Key Name	1		Detach		
Cre	JDBC Data Sources		Web Service Security		Туре	Descrip	tion		
	Messaging	*	Application Policies						
•	Cross Component Wiring		Application Roles						
	Web Services		System Policies						
	Other Services	э.	Security Provider Configuration	2					
	Administration	ъ.	Audit Registration and Policy						
	Refresh WebLogic Domain		Credentials						
	Security		Keystore						
	JNDI Browser								
	System MBean Browser								
3	WebLogic Server Administration Console								
	Target Sitemap								
	Target Information								

Figure 9-7 BI Publisher 7

11. Click **Create**.

ORACLE	Enterprise Manage	F Fusion Middleware	Control 12c	🕌 WebLogic Domain 🔻	weblogic w	-
OFSLLREL de				Sep 16, 20	017 4:00:38 PM IST	¢
Domain_OFSLLREL_dom	ain/OFSLLREL_domain	> System Policies				
System Policies						
System policies are the sys codebase.	stem-wide policies applie	d to all applications d	eployed to current management	domain. You can grant special permissions and privi	leges to principal o	ę
Policy Store Provider	r					
Search						
Select a grant type and ent	er search keyword for co	debase or principal t	o query system security grants.			
Туре	Codebase	~				
Name	Starts With		•			
View 🔻 🎽 Create.	Create Like	/ Edit >	Delete		🕂 🕅 Detach	h
	3					
٤						
Name						
No security policies found						

Figure 9-8 BI Publisher 8

12. The following window is displayed. Enter the codebase as file:\${ofsll.csf.path}/lib/ OfsllCommonCSF.jar and click Add.

rigule 3-3 Di rubiisilei 3	Figure	9-9	BI Publisher 9	9
----------------------------	--------	-----	----------------	---

ORAG	Enterprise Manager Fusion Middleware Control 12c	🎬 WebLogic Domain 👻	weblogic 💌 🚥
	SLLREL_domain 😗 VebLogic Domain 👻	Sep 21.	2017 9:12:24 AM IST 📌
Domain_OFSI	LLREL_domain/OFSLLREL_domain > System Policies > Create System Grant		
reate Sy	ystem Grant		OK Cancel
here are two odebase poli	different types of system policies supported by application server: principal policy and codebase poli or grants permissions and privileges to a codebase, which is mostly URL or location of jar file in file :	icy. Principal policy grants permissions and privileges system. Codebase can be either absolute path or rela	to a list of users or roles tive path.
and the second second	Codebase V		
* Cadabasa	file:\${ofsll.csf.path}/lib/OfsllCommonCSF.jar		
	me.storsii.csr.parnyilloiOrsiiCommonCSF.jar		
ermissions			
View +	+ Add / Edit X Delete 🙀 Detach		
Permiss	ion Class	Resource Name Perm	ission Actions
No permission	ns added.		

- **13.** The following window is displayed. Select the checkbox 'Select here to enter details for a new permission' and enter the following details as the first permission class.
 - Permission Class: oracle.security.jps.service.credstore.CredentialAccessPermission
 - Resource Name: context=SYSTEM,mapName=ofsll.int.security,keyName=*
 - Permission Actions: read

Create System Gra	int						OK	Cane
There are two different types Codebase policy grants perm	Add Permission						es to a list of us elative path	
Grant To Codebase	Select from permissions and resound a Search	rces used in syster	n policies of this (domain. Enter search criteria	to search for right pe	ermissions.		
Permissions	Туре	Codebase	~					
	Name							
View + Add	Permission		E F					
Permission Class	Search Results						rmission Acti	ons
No permissions added.	Name		Туре	Permission				
	No permissions found.							
	Select here to enter details for a	new nermission						
			-2	e. CredentialAccessPermissio	10			
		10,77			1			
	Resource Name	context=SYSTEM,	.mapName=ofsII.i	nt.security,keyName=*				
	Permission Actions	read						
					OK	Cancel		
					UN			

Figure 9-10 BI Publisher 10

9.2 Configuring JNDI Name for http Listener

- Similarly, click Add to add the second permission class. Select the check box 'Select here to enter details for a new permission' and enter the following details as the second permission class.
 - Permission Class: oracle.security.jps.service.credstore.CredentialAccessPermission
 - Resource Name: context=SYSTEM,mapName=ofsll.http.listener.jndi,keyName=*
 - Permission Actions: read
- 2. Click OK.

Figure 9-11 BI Publisher 10

ORA	Enterprise Manager Fusion Middleware Control 12c	n v weblogic	s w 👘
	SLLREL_domain ① VebLogic Domain Se LLREL_domain/OFSLLREL_domain > System Policies > Create System Grant	p 21, 2017 9:12:24	AM IST 📌
Create S	ystem Grant	OK	Cancel
odebase poli	different types of system policies supported by application server: principal policy and codebase policy. Principal policy grants permissions and privile cy grants permissions and privileges to a codebase, which is mostly URL or location of jar file in file system. Codebase can be either absolute path or Codebase		ers or roles
Codebase poli Grant To	cy grants permissions and privileges to a codebase, which is mostly URL or location of jar file in file system. Codebase can be either absolute path or		ers or roles
odebase poli Grant To * Codebase	cy grants permissions and privileges to a codebase, which is mostly URL or location of jar file in file system. Codebase can be either absolute path or Codebase		ers or roles
odebase poli Grant To * Codebase remissions View +	cy grants permissions and privileges to a codebase, which is mostly URL or location of jar file in file system. Codebase can be either absolute path or Codebase file:\${ofsil.csf.path}/lib/OfsilCommonCSF.jar + Add Cit Collette Codebase Can be either absolute path or Codebase Can		
odebase poli Grant To * Codebase Permissions View # Permiss	cy grants permissions and privileges to a codebase, which is mostly URL or location of jar file in file system. Codebase can be either absolute path or Codebase file:Stofsil.csf.path/lib/OfsilCommonCSF.jar + Add Edit Delete Codebase Edit Delete Resource Name P	relative path.	

3. Click OK.



Figure 9-12 BI Publisher 11

	jic Domai	1 ¥			Sep 21, 1	2017 9:18:01 AM IST
Information	orant ha	s been added succe	e e fullu			
		OFSLLREL_domain >				
System Polici	9.00000000	PSELKEL_00main >	oystem notices			
		-wide policies applied	to all application	s deployed to d	current management domain. You can grant special permissions and privileges to priv	ncipal or codebase.
Policy Store Pro	vider					
Search						
elect a grant type an	d enter se	earch keyword for cod	ebase or princip	al to query syst	iem security grants.	
	Туре	Codebase	~			
	Name	Starts With 🗸		•		
View + 🎽 Cri	eate	Create Like	/ Edit	X Delete		🖙 📄 🖬 Detac
1						
Name						
No security policies f	ound.					



10 Launch 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 is OK in the Weblogic.
- Access and log into the application.

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

Launching Application

10.1 Launching Application

To launch application

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

Change Center	ሰ Но	ome Log Ou	t Preferences 🛃 Record Help			Q		Welcom	e, weblogic Connect	ted to: OFSLLREL_doma
View changes and restarts	Home	>Summary	of Deployments							
Click the Lock & Edit button to modify, add or	Summa	ary of Depl	oyments							
delete items in this domain.	Confi	guration	Control Monitoring							
Lock & Edit Release Configuration Omain Structure PSULREL_domain Domain Partitions Environment Deployments Servived Security Realms	You contr To in	can update rols on this	application or module for deploy	lications	and modul	les from the c	lomain by selecting the ch		ext to the application na	ame and then using the
	Depl	oyments	te Delete						Showing 1 to 6	6 of 6 Previous Next
- Interoperability B-Diagnostics	Inst	-	Delete	State	Health	Туре	Targets	Scope	Showing 1 to o	6 of 6 Previous Next Deployment Order
	Inst	tall Upda	te Delete	State Active	Health	Type Resource Adapter	AdminServer,	Scope Global	-	
a-Diagnostics	Inst	Name 🗞	and Restauristic			Resource	AdminServer, OFSLL_ManagedServer,		-	Deployment Order
B-Diagnostics	Inst	Name 🗞	ice-transaction-rar	Active	🛩 ок	Resource Adapter Web	AdminServer, OFSLL_ManagedServer, WS_ManagedServer AdminServer, OFSLL_ManagedServer,	Global	-	Deployment Order
a-Diagnostics ow do I ⊡ Install an enterprise application		Name Coherer	ice-transaction-rar	Active Active	✓ ок✓ ок	Resource Adapter Web Application Enterprise Application Enterprise	AdminServer, OFSLL_ManagedServer, WS_ManagedServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer	Global Global	-	Deployment Order
- Diagnostics - Oow do I Install an enterprise application Configure an enterprise application Update (redeploy) an enterprise application		Name Coherer	ce-transaction-rar Application (12.2.1.1.0) 1411 (V14.11.0.0.0-b75)	Active Active Active	 ✓ ок ✓ ок ✓ ок 	Resource Adapter Web Application Enterprise Application	AdminServer, OFSLL_ManagedServer, WS_ManagedServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer AdminServer	Global Global Global	-	Deployment Order 100 5 400

Figure 10-1 Launching Application 1

2. The URL of the OFSLL application will be of the format - https://<hostname>:<Port>/ <ContextName>/faces/pages/OfsllSignIn.jsf

(Example: https://localhost:7003/ofsll/faces/pages/OfsllSignIn.jsf)

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

Sign In Please enter userid and password	
* User Id	
* Password	
Sign In	

Figure 10-2 Launching Application 2

4. After successful login, the following screen is displayed

Figure 10-3 Launching Application 3

DashBoard			
Dasnboard			
I DashBoard DashBoard Users Productivity System Monitor Producer Analysis Process Files	•	▲ Warning × You have previous open logins. (SYS-SYS-0000S)	
 > Origination > Servicing > Collections > WFP 			
> Tools			

