Application Installation Guide Oracle Financial Services Lending and Leasing

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1. 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) 5.5.0.

Application installation consists of following steps.

- Installing Software
- <u>Creating Domains, Repositories, Data Sources</u>
- <u>Configuring Policies</u>
- Deploying Application
- Enabling SSL
- Mapping Enterprise Group with Application Role
- Configuring JNDI name for HTTP Listener
- Configure JMS Queue
- Configure Oracle JET
- Configuring Oracle Analytics Publisher for Application
- Launching Application

1.1 <u>Prerequisites</u>

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)
- 1. JDK Version jdk1.8.0_261 or above (<u>https://www.oracle.com/technetwork/java/javase/</u> <u>downloads/jdk8-downloads-2133151.html</u>)
- Oracle WebLogic Server 12c Version 12.2.1.4.0 (http://www.oracle.com/technetwork/ middleware/weblogic/downloads/index.html) Navigate to Fusion Middleware Infrastructure Installer.
- 3. JVM/JDK are to be downloaded and installed prior to installing the Weblogic Server.
- 4. The patches for Fusion Middleware 12.2.1.4.0 with the following patch numbers are to be applied 31960985 and 32097167.

Note

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



1.2 <u>Audience</u>

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

1.3 <u>Conventions Used</u>

Term	Refers to
Application	Oracle Financial Services Lending and Leasing



2. Installing Software

2.1 Installing 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 × ORACLE Welcome FUSION MIDDLEWARE Welcome Welcome to the Oracle Fusion Middleware 12c (12.2.1.4.0) Infrastructure Installer Auto Updates Use this installer to create a new Oracle home that contains the Oracle Fusion Middleware Installation Location 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 Server domain for the deployment of Java and Oracle ADF applications. Installation Type 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. <<u>Back</u> <u>Next</u>> <u>F</u>inish Cancel Help



3. The following window is displayed.

Oracle Fusion Middleware 12c Ir	nfrastructure Installation - Step 2 of 8	- 🗆 X
Auto Updates		
	1	
Auto Updates	Skip <u>A</u> uto Updates	
Installation Location	 Select patches from <u>d</u>irectory 	
Installation Type	Location:	Browse
Prerequisite Checks	O Search My Oracle Support for Updates	
Installation Summary	Username:	
Installation Progress	Password:	
Installation Complete	Proxy Settings	Test Connection
		Test connection
	Search	
	**	
Help	· · · · · · · · · · · · · · · · · · ·	< <u>Back</u> Next > Einish Cancel

4. Select 'Skip Auto Updates' and Click 'Next'.

0	Oracle Fusion Middleware 12c II	frastructure Installation - Step 3 of 8			\times
In	stallation Location				
Ψ	Welcome	Oracle Home:			
-9	Auto Updates	/u01/Middleware/Weblogic12cHome	-	Brow	se
	Installation Location	Feature Sets Installed At Selected Oracle Home: View			
é	Installation Type				
÷	Prerequisite Checks				
Ý	Installation Summary				
Ý	Installation Progress				
0	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> Next > Ein	ish	Can	cel

5. Specify the path for Middleware Home Directory.



Welcome Auto Updates Installation Location Installation Type Prerequisite Checks Installation Summary Installation Complete Oracle Fusion Middleware 12c Infrastructure 12.2.1.4.0 © Core Server Core Application Server 12.2.1.4.0 Installation Complete WebLogic SCA 12.2.1.4.0 WebLogic Client Jars 12.2.1.4.0 WebLogic Client Jars 12.2.1.4.0 Enterprise manager 12.2.1.4.0 Enterprise manager 12.2.1.4.0 WebLogic Evaluation Database Support Third party JDBC Drivers 12.2.1.4.0 © Open Source Components Fusion Middleware Maven Support 12.2.1.4.0 Installation Database Support Third party JDBC Drivers 12.2.1.4.0 Source Components Fusion Middleware Maven Support 12.2.1.4.0	stallation Type		
Installation Type Prerequisite Checks Installation Summary Installation Complete WebLogic SCA 12.2.1.4.0 WebLogic Client Jars 12.2.1.4.0 Installation Console Additional Language Help Files 12.2.1.4.0 Installation Complete Installation Console Additional Language Help Files 12.2.1.4.0 Installation Complete Installation Console Additional Language Help Files 12.2.1.4.0 Installation Complete Installation Console Additional Language Help Files 12.2.1.4.0 <	Auto Updates	○ Fusion <u>M</u> iddleware Infrastructure With Examples	
Installation Summary □ Core Server Installation Progress Core Application Server 12.2.1.4.0 Installation Complete Web 2.0 HTTP Pub-Sub Server 12.2.1.4.0 Web 2.0 HTTP Pub-Sub Server 12.2.1.4.0 WebLogic CCa 12.2.1.4.0 WebLogic Client Jars 12.2.1.4.0 WebLogic Client Jars 12.2.1.4.0 Memory Core Server Core Application Server 12.2.1.4.0 WebLogic Client Jars 12.2.1.4.0 WebLogic Client Jars 12.2.1.4.0 Memory WebLogic Client Jars 12.2.1.4.0 Database Support Third party JDBC Drivers 12.2.1.4.0 Doen Source Components Fusion Middleware Maven Support 12.2.1.4.0 Poren Source Components Fusion Middleware Maven Support 12.2.1.4.0 WebLogic Free Manager WLS for FMW 12.2.1.4.0 WebLogic Free Manager		Eusion Middleware Infrastructure	
	Installation Summary Installation Progress	 Core Server 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 Administrative Tools Administration Console Additional Language Help Files 12.2.1.4.0 Clie WLS Config 12.2.1.4.0 Database Support Third party JDBC Drivers 12.2.1.4.0 Open Source Components Fusion Middleware Mayeor 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 	

7. Select the option 'Fusion Middleware Infrastructure'. Click 'Next'.

Oracle Fusion Middleware 12c Infrastructure Installation - Step 5 of 8

Prerequisite Checks	
9 Welcome	
4 Auto Updates	100%
Installation Location	Checking operating system certification
Prerequisite Checks	Checking Java version used to launch the installer
Installation Summary Installation Progress Installation Complete	Image: Constraint of the second of the se
	Stop Rerun Skip ✓ View Successful Tasks View Log ✓ Checking operating system certification ✓ Checking Java version used to launch the installer
Help	< <u>Back</u> Next > Einish Cancel



_

 \times

stallation Summary	
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
Prerequisite Checks	Disk Space
	Required: 2127 MB
Installation Summary	Available: 16019 MB
Installation Progress	Feature Sets to Install
Installation Complete	WLS for FMW 12.2.1.4.0
	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.

9. Click 'Next'. The following window is displayed.

Oracle Fusion Middleware 12c Inf	rastructure Installation - Step 7 of 8	- 🗆 ×
Installation Progress		
Y Welcome		
Auto Updates	100%	
Installation Location	✓ Prepare	
Installation Type	V Copy	
Prerequisite Checks	Generating Libraries	
Unstallation Summary	Performing String Substitutions	
Installation Progress	✓ Linking	
Installation Complete	Setup	
	Saving the inventory	
	✓ Post install scripts	
	View Messages	View Log
Help		nd Software Work Together



10. Click 'Install'. The weblogic installation starts. Once done, the following window is displayed.

n	stallation Complete					
	Welcome	Install Oracle Fusion Middleware 12c Infrastructure				
Auto Updates Installation Location Installation Location: /u01/Middleware/Weblogic12cHome						
						Log File Location: /tmp/OraInstall2020-04-30_08-58-54AM/install2020-04-30_08-58-54AM
Installation Type .log Prerequisite Checks WLS for FMW 12.2.1.4.0						
		Coherence Product Files 12.2.1.4.0				
1	Installation Progress	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				

11. Click 'Finish' to close the window.



3. Creating Domains, Repositories, Data Sources

3.1 Creating Schemas using Repository Creation Utility

1. Open command prompt on Unix and browse to <WL_HOME>/oracle_common/bin and run ./rcu. The following window is displayed.







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

Repository Creation Utility - Step 3	of 8		-	- 🗆 ×
Repository Creation Uti	ility			5
Welcome Create Repository Database Connection Def Select Components Schema Passwords Map Tablespaces Summary Completion Summary	Database Type: Connection String Format: Connect String Host Name: Port: Service Name: Username: Password: Role:	Oracle Database Connection Parameters ofsil.oracle.com 1521 OLLMDR sys SYSDBA	Connection String	
Help		< <u>B</u> ack	<u>N</u> ext > <u>Finis</u>	sh Cancel

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



Note

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

5. Click 'Next'. The following window is displayed.

Repository Creation Utility - Step 3	of 8					
Repository Creation Uti	lity		F)</td
Velcome Create Repository Database Connection Det Select Components	<u>D</u> atabase Type: Connection String Format:	Oracle Database	ameters () Connection	ı S <u>t</u> ring	•
Schema Passwords Map Tablespaces Summary	Conne <u>c</u> t String Host Na <u>m</u> e:	whf00ake.in.oracle	e.com			
Completion Summ Checking G Initial Check Obtain Check	y Creation Utility - Checking Prer slobal Prerequisites zing repository configuration n properties of the specified c requirement for specified of completed. Click OK to continu	n metadata I database database	00:04	0.825(sec) 073(sec) 0.805(ms)	×	
	•		< <u>B</u> ack	Next >	Finish	Cancel

6. Click 'OK' in the confirmation dialog.



			FUSION MIDDLEWARE
Welcome	Specify a unique prefix for all a and manage the schemas late		sion, so you can easily locate, referen
Create Repository	and manage the schemas late		
Database Connection Details	Select existing prefix:		
Select Components	Oreate new prefix:	OLL	
Schema Passwords	Create new prenx.		
		Alpha numeric only. Cann	ot start with a number. No special
Map Tablespaces	Component		Schema Owner
Summary	□□Oracle AS Repositor	v Components	Schema Owner
Completion Summary	Ball AS Common Schemas		
		structure Services *	OLL STB
	☑ Oracle Platform	n Security Services	OLL OPSS
	User Messagir		UMS
	Audit Services		OLL_IAU
	Audit Services		OLL_IAU_APPEND
	Audit Services		OLL_IAU_VIEWER
	Metadata Sen		OLL_MDS
	Weblogic Serv	ices *	OLL_WLS
	* Mandatory component. M	landatory components canno	ot be deselected.

- 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'. The following window is displayed.

pository Creation Utility						
Velcome ·	Specify a unique prefix for all s and manage the schemas later		session, so you can easily lo	ocate, referen		
<u>Create Repository</u> Database Connection Details	Select existing prefix:					
Select Components	Oreate new prefix:	OLL				
Schema Passwords	Create new prent.		annot start with a number. N			
Map Tablespaces		Alpha numeric only. c	annot start with a number. It	io special		
	Repository Creation Utility - Ch	eckina Prereauisites		×		
Summary						
Completion Summary	Checking Component Prerequisi	ites				
	Common Infrastructure S	00:09.540(sec)				
	✓ Oracle Platform Security	Services	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 t	o continue to next nage.				
		ie eentimee te nene pager				
			0	ĸ		
	* Mandatory component. M	andatory components ca	annot be deselected.			



epository Creation U	tility		_ (7	
Welcome Create Repository Database Connection Details Select Components Schema Passwords	Use same passwork Password:	main and auxiliary schema users. ds for all schemas Alpha numeric only Cannot start with No special characters except: \$, # ,			
Map Tablespaces Summary Completion Summary		•••••• vasswords for auxiliary schemas sswords for all schemas			

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.



			FUSION MI	
<u>Welcome</u> Create Repository			lected components appear tablespaces, use the Mana	
Database Connection Details				Manage <u>T</u> ables
<u>Select Components</u> Schema Passwords	Component	Schema Owner	Default Tablespace	Temp Tablespace
	Common Infrastruct	OLL STB	*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
	Audit Services App	OLL IAU APPEND	*OLL IAU	*OLL IAS TEMP
Completion Summary	Audit Services Viewer		*OLL IAU	*OLL IAS TEMP
	Metadata Services	OLL MDS	*OLL MDS	*OLL IAS TEMP
	Weblogic Services	OLL WLS	*OLL WLS	*OLL IAS TEMP

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

Repository Creation Utility - Step	6 of 8			- 🗆 ×	
Repository Creation U	tility				
Velcome Create Repository Database Connection Details Select Components			lected components appear tablespaces, use the Manaç		
Schema Passwords	Component	Schema Owner	Default Tablespace	Temp Tablespace	
	Common Infrastruct		*OLL_STB	*OLL_IAS_TEMP	
Map Tablespaces	Oracle Platform Sec		*OLL_IAS_OPSS	*OLL_IAS_TEMP	
🦕 <u>Summary</u>	Audit Services	OLL IAU	*OLL IAU	*OLL_IAS_TEMP	
Completion Summary	Aud C Repository Creat	ion Utility - Confirmatio	on X	*OLL_IAS_TEMP	
	Aud			*OLL_IAS_TEMP *OLL IAS_TEMP	
	Wet Any tablespaces that do not already exist in the selected schemas will be created. Click OK to create tablespaces. Click Cancel to return to the wizard.				
	* Default tablespaces (s	pecified in the configu	iration files) are to be creat	ed upon confirmation.	
Help			< <u>B</u> ack <u>N</u> ext >	Einish Cancel	

14. Click 'OK' in the confirmation dialog.



	H				FUSION MID		
Welcome Create Repository		Default and temporary t To create new tablespac				ge Tab	lespaces Button
Database Connec Select Componen							Manage <u>T</u> ablespace
Schema Passwor		Component	Schema Owner	Defaul	t Tablespace	Tem	p Tablespace
		Common Infrastruct	. OLL STB	*OLL S			IAS TEMP
Map Tablespace	Reposit	ory Creation Utility - Creatin	a Tablespaces			×	[IAS_TEMP
Summary	- Reposit	ory creation ounty creatin	g labiespaces			~	IAS_TEMP
Completion Summ	Validating	and Creating Tablespace	86				_IAS_TEMP
Completion Sum		k tablespace requirements for selected compon 00:00.100(ms)					_IAS_TEMP
		te tablespaces in the n			00:15.831(sec)		IAS_TEMP
	Operation	n completed. Click OK to c	ontinue to next page.		2	K	

16. Click 'OK' in the confirmation dialog. The following window is displayed.

ase details:			
Name	ofsil.oracie.com		
	1521		
e Name	OLLMDR		
ected As	sys		
tion	System and Data	Load concurrently	
for (prefixable) Schema Owne	are OLL		
for (prenxable) schema owne	13 022		
Component	Schema Owner	Tablespace Type	Tablespace Name
non Infrastructure Services	OLL_STB	Default Temp Additional	OLL_STB OLL_IAS_TEMP [None]
e Platform Security Services	OLL_OPSS	Default Temp Additional	OLL_IAS_OPSS OLL_IAS_TEMP [None]
Services	OLL_IAU	Default Temp Additional	OLL_IAU OLL_IAS_TEMP [None]
Services Append	OLL_IAU_APPEND	Default Temp Additional	OLL_IAU OLL_IAS_TEMP [None]
Services Viewer	OLL_IAU_VIEWER	Default Temp	OLL_IAU OLL_IAS_TEMP
ve <u>R</u> esponse File			
	icted As tion for (prefixable) Schema Owne Component non Infrastructure Services e Platform Security Services Services Services Append Services Viewer	e Name OLLMDR outed As Sys tion System and Data for (prefixable) Schema Owners OLL Component Schema Owner non Infrastructure Services OLL_STB e Platform Security Services OLL_OPSS Services Append OLL_IAU Services Viewer OLL_IAU_VIEWER ve Response File	e Name OLLMDR interview of the services of the services Append e Name OLLMDR out of the services of the ser



17. Click 'Create'. The following windows are displayed.

pository Creation U	Jtility				
Welcome	Database details:				
	Database details.				
Create Repository	Host Name		ofsII.oracie.co	m	
Database Connection Details			1521		
Select Components	Service Name		OLLMDR		
Schema Passwords	ository Creation Utility - S	System Load			×
Map Tablespaces	sitory creation ounty - 3	system Load			
	ory System Load in pro	ogress.			
Sector Exc	ecuting pre create o	perations		00:16.429(sec))
	mmon Infrastructure	Services		00:09.528(sec)) ablespace Nam
	dit Services Append dit Services Viewer			0	L_STB
	tadata Services			0	L_IAS_TEMP
	eblogic Services			0	ine]
	dit Services			0	L_IAS_OPSS
	acle Platform Security			0	L_IAS_TEMP one]
	ecuting post create o	operations		U	mej
					L_IAU
					L_IAS_TEMP one]
				St	
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	Audit Services Viewo	er	OLL_IAU_VIEWER	R Default Temp	OLL_IAU OLL_IAS_TEMP
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Help	8 of 8			< <u>B</u> ack <u>N</u> ext >	<u>C</u> reate Car
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pository Creation Utility - Step					
pository Creation Utility - Step				ORAC	
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epository Creation Utility - Step cository Creation U Velcome Create Repository Database Connection Details Select Components Schema Passwords Aap Tablespaces Summary	tility Database details: Host Name Port Service Name Connected As Operation Execution Time RCU Logfile Component Log Directory View Log Prefix for (prefixable) Schema Owners	1521 OLLMDR sys System and D 3 minutes 11 /tmp/RCU202 /tmp/RCU202 rcu.log OLL	m Pata Load concurr seconds 0-04-30_10-43_54 0-04-30_10-43_54	FUSION MIDE FUSION MIDE 2165227/logs/rcu.lo 2165227/logs	g
epository Creation Utility - Step cository Creation U Velcome Create Repository Database Connection Details Select Components Schema Passwords Aap Tablespaces Summary	tility Database details: Host Name Port Service Name Connected As Operation Execution Time RCU Logfile Component Log Directory View Log Prefix for (prefixable) Schema Owners	1521 OLLMDR sys System and E 3 minutes 11 /tmp/RCU202 /tmp/RCU202 rcu.log OLL	m Pata Load concurr seconds 0-04-30_10-43_54 0-04-30_10-43_54	FUSION MIDD FUSION MIDD 2165227/logs/rcu.lo 2165227/logs	g Logfile(Click to vi
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epository Creation Utility - Step cository Creation U Velcome Create Repository Database Connection Details Select Components Schema Passwords Aap Tablespaces Summary	tility Database details: Host Name Port Service Name Connected As Operation Execution Time RCU Logfile Component Log Directory View Log Prefix for (prefixable) Schema Owners Compo Common Infrastructu Oracle Platform Secu Audit Services Appen Audit Services Viewel Metadata Services	1521 OLLMDR sys System and E 3 minutes 11 /tmp/RCU202 /tmp/RCU202 rcu.log OLL OLL	m Pata Load concurr seconds 0-04-30_10-43_54 0-04-30_10-43_54 0-04-30_10-43_54 0-04-30_10-43_54 0-04-30_10-43_54	Time 00:12.083(sec) 01:04.542(min) 00:10.196(sec) 00:023.939(sec)	g Logfile(Click to vi stb.log opss.log iau_append.log iau_append.log mds.log

18. Click 'Close' to close the window.



3.2 Creating Domain and Servers

- 1. 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'

Fusion Middleware Configuration	on Wizard - Page 1 of 8						\times
Configuration Type			i			0)
🙊 Create Domain	1						
Templates							
Administrator Account							
Domain Mode and JDK							
Advanced Configuration							
Configuration Summary							
Configuration Progress	What do you want	to do?					
O End Of Configuration	Oreate a new of the second	lomain					
	◯ <u>U</u> pdate an exis	ting domain					
	Domain Location:		er_projects/do	mains/OFSLL	REL_domai	n Brow	se
<u>H</u> elp			< <u>B</u> ack	<u>N</u> ext >	Finish	Can	cel

- 3. Select 'Create a new domain' and specify the Domain Location.
- 4. Click 'Next'. The following window is displayed.

Femplates	
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	Oracle Deracito Using Product Templates: Filter Templates: Type here include all gelected templates include all previously applied template Available Templates Available Templates Oracle Enterprise Manager [em] Oracle Enterprise Manager [em] Oracle User Messaging Service Basic [oracle_common] Oracle User Messaging Services [oracle_common] Oracle ISS Session Service [oracle_common] Oracle WSM Policy Manager [oracle_common] Oracle BAS Session Services for JAX-WS Extension [oracle_common] Oracle RAS Services for JAX-WS Extension [oracle_common] Oracle Dependenced Web Services for JAX-WS Extension [oracle_common] Greate Domain Using Custom Template: Template location: /u01/Middleware/Weblogic12cHome



- 5. 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'. The following window is displayed.

Fusion Middleware Configuration	Wizard - Page 3 of 12			- 1	X I
Application Location					
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	Domain name: Domain location: Application location:	OFSLLREL_domain /u01/Middleware/Weblogic12cHo /Weblogic12cHome/user_project			Browse
Help		<	Back Next > Ei	nish	Cancel



7. Specify the Domain Name in the 'Application location' field. You can click browse to directly select the path (if required). Click 'Next'. The following window is displayed.

Fusion Middleware Configuration	Wizard - Page 4 of 12				<u></u>		\times
Administrator Account			FL				
Create Domain	1						
Templates							
Application Location							
Administrator Account							
Domain Mode and JDK							
Database Configuration Type							
Component Datasources							
JDBC Test	Name	weblogic					
Advanced Configuration	Password	•••••					
Configuration Summary	Confirm Password	•••••					
Configuration Progress							
End Of Configuration							
		s the password. Password n r or special character.	nust contain a	t least 8 alph	nanumeric	character	's with
		or special character.					
						1	
Help			< <u>B</u> ack	<u>N</u> ext >	Einish	Ca	ncel

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

9. Click 'Next'. The following window is displayed.

Eusion Middleware Configuration	Wizard - Page 5 of 12 - 🗆 🗙
Domain Mode and JDK	
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	Domain Mode Development Utilize boot properties for username and password, and poll for applications to deploy. Production Require the entry of a username and password, and do not poll for applications to deploy. <i>JDK</i> @ Oracle HotSpot 1.8.0_241 /scratch/jdk/jdk1.8.0_241 Other JDK Location:
Help	< Back Next > Finish Cancel



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'. The following window is displayed.

Database Configuration Type Image: Create Domain Templates Application Location Administrator Account Manual Configuration Domain Mode and JDK BCU Data Database Configuration Type Manual Configure the datasources required for components in this domain. Patabase Configuration Component Datasources Connection Parameters Dotation Progress Configuration Ind Of Configuration Configuration Demonin Of Configuration Configuration Configuration Progress Connection Parameters End Of Configuration Center Connection Result Log Connection Result Log Successfully Done. Successfully Done.
Templates Specify AutoConfiguration Options Using: Application Location Administrator Account Domain Mode and JDK Enter the database connection details using the schema credentials corresponding to Common Infrastructure Services component in the Repository Creation Utility. The Wizard uses this conn to automatically configure the datasources required for components in this domain. Database Configuration T) Oracle Driver: *Oracle's Driver (Thin) for Service connections; O Component Datasources Oconnection Parameters Connection URL String Host Name: ofsil.oracle.com DBMS/Service: OLLMDR Port: BMS/Service: OLLMDR Port: Schema Owner; OLL_STB Schema Password: Get RCU Configuration Cancel Connection Result Log Connection Result Log
Click "Get RCU Configuration" button to test the connection and activate the "Next" button.

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

Eusion Middleware Configuration	Wizard - Page 7 of 12				<u> </u>	
JDBC Component Schema						
Create Domain	Vendor:	D D	river:			-
Templates						
Application Location	Connection Parameters	s O Connect	tion <u>U</u> RL String			
Administrator Account	Host Name:					
Domain Mode and JDK	DBMS/Service:	P	ort:			
Database Configuration Type	Schema Owner:		chema Password:	[
Component Datasources	Schema Owner.	3	chenna nassworu.			
JDBC Test	Oracle RAC configuration f	for component	schemas:			
Advanced Configuration	O Convert to Gri	dLink 🔿 Cor	overt to RAC multi	data sour	ce 🔿 Don't	convert
Configuration Summary	edu a di dia di s					
Configuration Progress	Edits to the data above wi					
	Component Schema			Port	Schema Ow	Schema Passw.
End Of Configuration	LocalSvcTbl Schema	OLLMDR	ofsll.oracle.com	1521		
	WLS Schema	OLLMDR	ofsll.oracle.com	1521	OLL_WLS_RUN	
	OPSS Audit Schema	OLLMDR	ofsll.oracle.com	1521	OLL_IAU_APPE	
	OPSS Audit Viewer Sc		ofsll.oracle.com	1521		
	OPSS Schema	OLLMDR	ofsll.oracle.com	1521	OLL_OPSS	
Help			< <u>B</u> ack	<u>N</u> ext :	> <u>F</u> inish	Cancel
				-		



JDBC Component Scher	na Tes	st		
Create Domain		Status	Component Schema	JDBC Connection L
Templates		1	LocalSvcTbl Schema	jdbc:oracle:thin:@
Application Location		1	WLS Schema	jdbc:oracle:thin:@
Administrator Account		1	OPSS Audit Schema	jdbc:oracle:thin:@
	v	1	OPSS Audit Viewer Schema	jdbc:oracle:thin:@
Domain Mode and JDK		1	OPSS Schema	jdbc:oracle:thin:@
Configuration Progress End Of Configuration	Pass SQL	word= Test=:		ct user from dual) and mr_typ
	CFGI CFGI	=OLL_ sword= Test=: FWK-64 FWK-64	orss ***** select 1 from schema_version_registry where owner=(sele	ct user from dual) and mr_typ

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

Fusion Middleware Configuration	Wizard - Page 9 of 20	- 🗆 ×
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 Progress End Of Configuration	 Administration Server Modify Settings Node Manager Configure Node Manager Topology Add, Delete or Modify Settings for Managed St Domain Frontend Host Capture Configure Domain Frontend Host Deployments and Services Target to Servers or Clusters 	ervers, Clusters, Virtual Targets and Coherence
Help		< Back Next > Finish Cancel



14. Select 'Administration Server' and 'Topology' and click 'Next'. The following window is displayed.

Fusion Middleware Configuration	Wizard - Page 10 c	f 20							×
Administration Server									
Create Domain Templates									
Application Location									
Administrator Account	Server Name	AdminSe	erver						
<u>Database Configuration Type</u> <u>Component Datasources</u>	Listen Address Listen Port	All Local	l Addresse	s					-
<u>JDBC Test</u> <u>Advanced Configuration</u>	Enable SSL								
Administration Server	SSL Listen Port								
Clusters	Server Groups	Unspecif	fied						•
Server Templates Coherence Clusters									
Machines Virtual Targets									
Partitions	Port number mus	t he hetu	veen 1 and	1.65535 ar	od different f	rom SSL lister	port and i	oberence n	ort
Configuration Summary Configuration Progress				, ossas, a			, port and i	ionerence p	
End Of Configuration									
Help					< <u>B</u> ack	Next >	Finish	Can	ncel

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

3	Fusion Middleware Configuration	Wizard - Page 11 of 20					\Box ×
N	1anaged Servers						
Ť	Create Domain Templates	👍 Add 🖹 Clo	ne 🔀 <u>D</u> elete			🔊 Dis <u>c</u> ar	rd Changes
	Application Location	Server Name	Listen Address	Listen Port	Enable SSL	SSL Listen Port	Server Groups
Ţ	Administrator Account Domain Mode and JDK	OFSLL_ManagedServer	All Local Address 🕶	9003	V	95 0 3	JRF-MAN-S
Ţ	Database Configuration Type	WS_ManagedServer	All Local Address 🔻	9004		Disabled	JRF-MAN-S▼
Ţ	Component Datasources						
ų.	JDBC Test						
	Advanced Configuration						
ų	Administration Server						
0	Managed Servers						
ψ	Clusters						
Ý	Server Templates						
Ý	Coherence Clusters						
Ý	Machines						
Ý	Virtual Targets						
Ý	Partitions	* *					
Ý	Configuration Summary						
Y	Configuration Progress						
0	End Of Configuration						
	Help			< <u>B</u> ack	<u>N</u> ext >	Einish	Cancel

- 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.



Note

It is recommended to create two managed servers, one each for UI and Web Services.

18. Click 'Next'. The following window is displayed.

Fusion Middleware Configuration \	Wizard - Page 12 of 2	0			- 🗆 ×
Clusters					
Templates	🛉 Add 🗙	Delete		9	Dis <u>c</u> ard Changes
Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server	Cluster Name	Cluster Address	Frontend Host	Frontend HTTP Port	Frontend HTTPS Port
Configuration Summary Configuration Progress End Of Configuration	•				
Help			< <u>B</u> ack	<u>N</u> ext > <u>Fini</u>	sh Cancel



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

Add X Delete Name ache-server-temp	Listen Port 7100	SSL Listen Port 8100	Discard Changes
			Enable SSL
ache-server-temp	7100	8100	
			inish Cancel
			< Back Next >

20. Configure as required and click 'Next'. The following window is displayed.

	Fusion Middleware Configuration	Wizard - Page 14 of 20		-	- [) ×
c	oherence Clusters				R	
Ť	Create Domain			in (in 1970)	is <u>c</u> ard C	hanges
Ť	Templates					
Ý	Application Location	Cluster Name		Cluster Listen	Port	
Ý	Administrator Account	defaultCoherenceCluster	7574			
ý.	Domain Mode and JDK					
ų	Database Configuration Type					
ų	Component Datasources					
ų.	JDBC Test					
	Advanced Configuration					
ų	Administration Server					
ų	Managed Servers					
ų	Clusters					
ų.	Server Templates					
0	Coherence Clusters					
ų	<u>Machines</u>					
ų	Virtual Targets					
ų	Partitions					
ų	Configuration Summary					
Ŷ	Configuration Progress					
9	End Of Configuration					
-						0
	Help		< <u>B</u> ack	<u>N</u> ext > <u>Finis</u>	h	Cancel



21. Configure as required and click 'Next'. The following window is displayed.

Fusion Middleware Configuration Wizard - 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 Progress End Of Configuration	elete Discard Changes Node Manager Listen Address Node Manager Listen Port
Help	< Back Next > Finish Cancel

22. Click 'Create'. The following window is displayed.

Fusion Middleware Configuration	Wizard - Page 16 of 20				— C	
Virtual Targets						
T Create Domain	. 👍 Add 🛛 💥 🛛	elete			🗐 Dis <u>c</u> ard C	hanges
Templates						
<u>Application Location</u>	Name	Target	Host Names	URI Prefix	Explicit Port	Port Offset
Administrator Account			ligineo			0.1002
Domain Mode and JDK						
Database Configuration Type						
Component Datasources						
UDBC Test						
Advanced Configuration						
<u>Administration Server</u>						
Managed Servers						
Clusters						
Server Templates						
Coherence Clusters						
🖕 <u>Machines</u>						
Virtual Targets						
Partitions	· •					
Configuration Summary						
Configuration Progress						
ပ် End Of Configuration						
Help			< <u>B</u> ack	<u>N</u> ext >	Einish	Cancel



Fusion Middleware Configuration	Wizard - Page 17 of 20		-	
Partitions				
Templates	👍 Add 🗮 Delete		🔊 Di	s <u>c</u> ard Changes
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				
w <u>Machines</u>				
Virtual Targets				
Partitions	· ·			
Configuration Summary				
Configuration Progress				
o End Of Configuration				
Help		< <u>B</u> ack	<u>N</u> ext > <u>Finish</u>	Cancel

24. Click 'Next'. The following window is displayed.

Fusion Middleware Configuration Wizard - Page 18 of 20



 \times

Fusion Middleware Configuration Wiz	ard - Page 19 of 20 -	
Configuration Progress		
A Create Domain		
A Templates	100%	
Application Location	Copy Unprocessed Artifacts	
Administrator Account	OPSS Processing Security Processing	
Domain Mode and JDK	Artifacts Generation	
Database Configuration Type	String Substitution Post Processing	
Component Datasources	rostriotessing	
JDBC Test		
Advanced Configuration		
Administration Server		
Managed Servers		
Clusters		
Server Templates		
Coherence Clusters		
4 Machines		
Virtual Targets		
Partitions		
Configuration Summary		
Configuration Progress		
End Of Configuration		
Help	< Back Next > Finist	Cancel

26. Click 'Next'. The following window is displayed.

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	
Server Templates	
Machines Virtual Targets Partitions Configuration Summary Configuration Progress End Of Configuration	

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



Note

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

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

- 28. 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.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:PrintCMSStatistics=1 -XX:+PrintClassHistogram -XX:-UseParalleIGC -
XX:ParallelGCThreads=10 -XX:-TraceClassUnloading -XX:-UseParallelOldGC -
XX:+UseCompressedOops -XX:+UseBiasedLocking -XX:+AlwaysPreTouch -XX:-
UseAdaptiveSizePolicy -Djbo.load.components.lazily=true -
Djbo.ampool.initpoolsize=100 -Djbo.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.MDBDestinationPollIntervalMillis=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.specidsl=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:-UseParallelOldGC -XX:+UseCompressedOops -XX:+UseBiasedLocking -XX:+AlwaysPreTouch -XX:-UseAdaptiveSizePolicy -Doracle.multitenant.enabled=false -XX:StringTableSize=100003 -XX:ReservedCodeCacheSize=1g -XX:+UseStringCache -XX:+OptimizeStringConcat -XX:+UnlockCommercialFeatures -XX:+FlightRecorder

3.3 Creating Metadata Repository

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

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

	se M	anager Fusion Middlewar	re Control 12c	🔁 WebLogic Domain 👻 🛛 weblogic 👻	
OFSLLREL_domain 0				Home Monitoring	
🔚 WebLogic Domain 👻				Diagnostics	1
1) Information				Control	
Certain functionality on this pa Change Center menu.	ge is	available only when you o	own the edit session lock. To obta	Logs	
Servers		Administration Serv		Environment	
		Administration Serv	ver	Deployments	
3 Up	۲	Name	AdminServer	JDBC Data Sources	
C OP		Host	ofsll.in.oracle.com	Messaging	
		Listen Port	9001	Cross Component Wiring	
Clusters		Servers		Web Services	
		-	Persistent Stores	Other Services	
Clusters	►	View Create	XML Entity Caches	Administration	
Chaldra		Name	OSGi Frameworks	Refresh WebLogic Domain	
		AdminServer(admin)	Mail Sessions	Security	
Deployments		OFSLL ManagedSe	Foreign JNDI Providers	JNDI Browser	
		WS_ManagedServer		System MBean Browser	
1 Up	P		Metadata Repositories	WebLogic Server Administration Consc	ble
		<	3	Target Sitemap	
			Columns Hidden 34	Target Information	

- 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	0					🎦 🔻 🛛	•
	WebLogic Domain	·				Sep 15, 20	017 6:22:12 PM IS	ST 숙
eta	data Repositorie	s						
ated plica		oository Creation Utility (ory.		using the Repository Creation ased repositories. You must re				
Re	Deregister							
1								
	Repository Name	Database Type	Database Name	Schema Name	JNDI Locatio	n	Partition	
No F	Repository							
<							>	
_	Based Repositories							
1								
	Repository Name	Directory				Partition		
No F	Repository							

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

OFFLIPE	L domain	•								- 6-4
		•							_	
WebLog	ic Domain 👻						Sep 15, 2	2017 6:31	1:32 PM IS	ST 📌
Information										×
The changes ma undo the change			ate in the edit sessi	on. The changes will	be activ	vated and a	pplied immediat	tely. You	ı cannot	Ê.
undo the chang	co nom me e	inange conten.								
minter Data	hana Bar	and Motodate	Repository	0						
gister Data	pase-bas	sed metadata	Repository	9						
nository stores inf	ormation used	hy Application Serv	er components and	other applications. A m	etadata	repository r	nust be registerer	d to be o	neration	al
				To register, input data						
atabase-based rep										
atabase-based rep of the Metadata R								OK	Cance	
								ок	Cance	
of the Metadata R	tepository and	click OK button.						ок	Cance	
	tepository and	click OK button.						ок	Cance	
tabase Connec	tepository and	click OK button.	3M DB2 () MySQL			and I		ок	Cance	
tabase Connec Database Type	tepository and tion Inform	ation	BM DB2 () MySQL		r Name	sys]		ок	Cance	
tabase Connec	tepository and tion Inform	ation	3M DB2 () MySQL	* Use		sys]		ок	Cance	
e of the Metadata R tabase Connec Database Type * Host Name	tion Inform • Oracle (ofsll.oralce.c	ation	3M DB2 () MySQL	* Use	sword				Cance	
tabase Connec Database Type	tion Inform • Oracle (ofsll.oralce.c	ation	3M DB2 () MySQL	* Use	sword	sys] Sysdba			Cance	
e of the Metadata R tabase Connec Database Type * Host Name	tion Inform Oracle (ofsil.oraice.c 1521	ation	3M DB2 () MySQL	* Use	sword				Cance	
e of the Metadata R tabase Connec Database Type * Host Name * Port	tion Inform Oracle (ofsil.oralce.c 1521 OLLDB	ation	IM DB2 () MySQL	* Use	sword		~		Cance	
e of the Metadata R tabase Connec Database Type * Host Name * Port * Service Name	tion Inform Oracle (ofsil.oralce.c 1521 OLLDB Query	click OK button." ation) SQL Server () IE :om		* Use	sword			•	Cance	
e of the Metadata R tabase Connec Database Type * Host Name * Port	tion Inform Oracle (ofsil.oralce.c 1521 OLLDB Query	ation	Schema Name	* Use	sword	SYSDBA	Modified Tim	•	Cance	
e of the Metadata R tabase Connec Database Type * Host Name * Port * Service Name	tion Inform Oracle (ofsil.oralce.c 1521 OLLDB Query	click OK button." ation) SQL Server () IE :om		* Use * Pat	Role	SYSDBA		•	Cance	
of the Metadata R tabase Connec Database Type * Host Name * Port * Service Name Metadata Rep	tion Inform Oracle (ofsil.oralce.c 1521 OLLDB Query	click OK button." ation) SQL Server () IE :om		* Use * Pat	Role	SYSDBA		•	Cance	

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



OFSLLREL doma	in 0							2 -	-
-									
WebLogic Domain	Ŧ						25-Apr-2018 3	23:29:37	EDT -
Information									×
The changes made on this Change Center.	s page do not participa	te in the edit sessio	n. The changes	will be activated and appli	ied im	mediately. You cannot undo the	changes fro	m the	
			_						
egister Database-B	Based Metadata	Repository	0						
epository stores information u sated using the Repository Cri	used by Application Serve eation Utility. To register	er components and input database con	other applications	A metadata repository mus	t be re	egistered to be operational. A data of the Metadata Repository and cl	base-based r lick OK buttor	epositor	y is
							ок	Cano	el
tabase Connection Info	ormation								
Database Type	Oracle O SQL Ser	ver 🔘 IBM DB2 🔘	MySQL	* User M	Jame	sys			
* Host Name	ofsll.oracle.com			* Pass	hord				
* Port	1521			1 455		SYSDBA V			
* Service Name									
Service Name	OLLOB								
	Query								
Metadata Repository	Is Registered?	Schema Name	Version	Status I	Modifi	ied Time			
MDS	false	OLL_MDS	12.2.1.3.0	VALID 2	25-Apr	-2018 07:38:50 EDT			
lected Repository - Sch	ema: OLL_MDS								
e selected schema can be rep	gistered only if it has not	already been registe	red.						
* Repository Name	adf								
	[1						
* Sohoma Parrword			J						
* Schema Password									

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

	Enterprise Manager Fus	sion Middleware Control 120	5 N	/ebLogic Domain 👻	weblogic 🐨
OFSLLREL_	domain 🚯				🎦 👻 🖂
WebLogic [Domain 🔻			Dec 5, 2	2019 3:08:33 PM IST 4
etadata Repos	itories				
be created in a datab	Addleware component schema ase with the Repository Creation etadata to the repository. epositories	repositories in a database u n Utility or created on disk a	sing the Repository Creation is file-based repositories. You	Utility. Metadata Servi must register an MDS	ces (MDS) repositorie S repository before yo
Register Dereg	gister				
_					
Repository Na	me Database Type	Database Name	Schema Name	JNDI Locatio	on Par
mds-adf	Oracle	OLL122	OLL_MDS	jdbc/mds/adf	Glot
					÷
4					
∢ ile-Based Reposit	ories				
	to ries gister				
Register Dereg					
A Based Reposit Register Dereg Repository Na	gister				Partition
Register Dereg	gister				Partition

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



3.4 Creating Data Source

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

Welcome Log in to work with the WebLogic Server domain Username: Password: Login	Log in to work with the WebLogic Server domain Username: Password:		
		120	Log in to work with the WebLogic Server domain Username: Password:

2. The following window is displayed.

Change Center	Home Log Out Preferences	Record Help	Q		
View changes and restarts		Welcome, w	veblogic Connected to: OFSLLREL_doma		
Click the Lock & Edit button to modify, add or delete items in this domain.	Home				
Lock & Edit	Home Page				
Release Comguration	Helpful Tools	General Information			
Domain Structure	Configure applications	Common Administration Task D	Descriptions		
OFSLLREL_domain Domain Partitions Environment Deployments	 Configure GridLink for RAC Data Source Configure a Dynamic Cluster 	apport			
Services Services Interoperability Diagnostics	Recent Task Status 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			
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	Environment	Deployments	Built-in Diagnostic Modules		
Change Console preferences	Servers		Diagnostic Images		
Manage Console extensions	Clusters	Services	Request Performance		
Monitor servers	Server TemplatesMigratable Targets	Messaging JMS Servers	Archives Context		
System Status	Coherence Clusters Machines	 Store-and-Forward Agents 	SNMP Interceptors		

3. Click Domain Name > Services > Data Sources.



4. The following window is displayed.

Change Center	Ho Ho	ome Log Out Pref	erences 🔤 Re	cord Help	Q
View changes and restarts				Welcome,	weblogic Connected to: OFSLLREL_doma
Click the Lock & Edit button to modify, add or	Home	>Summary of JDI	BC Data Sources		
delete items in this domain.	Summa	ary of JDBC Data	Sources		
Lock & Edit Release Configuration	Confi	guration Monit	toring		
Domain Structure					database connectivity through a pool of (tree and then borrow a database
OFSLLREL_domain		ection from a data		ik up a data source on the JNDI	tree and then borrow a database
Environment Deployments	This	page summarizes	the JDBC data s	ource objects that have been c	reated in this domain.
E Services	0.0	tomize this table			
Messaging Data Sources		And			
Persistent Stochy		Sources (Filtere		mns Exist)	
-Data Sources	Data	Sources (Filtere	ed - More Colu	mns Exist) ange Center to activate all the b	outtons on this page.
Data Sources Persistent Sto Foreign JNDI Providers Work Contexts XML Registries	Data Click	Sources (Filtere	ed - More Colu	-	buttons on this page. Showing 1 to 6 of 6 Previous Next
- Data Sources Persistent Stor Foreign JND1 Providers Work Contexts	Data Click	Sources (Filtere	ed - More Colu	-	
Data Sources Deristen Stof Foreign JNDI Providers Work Contexts XNL Registries XNL Registries XNL Entity Caches OOM	Data Click	Sources (Filtere the Lock & Edit t	ed - More Colu button in the Cha Type	ange Center to activate all the b	Showing 1 to 6 of 6 Previous Next
Data Sources Deristent Stoff Foreign JNDI Providers Work Contexts	Data Click	Sources (Filtere the Lock & Edit t we Delete Name 🖘	d - More Colum outton in the Cha Type iource Generic	ange Center to activate all the b	Showing 1 to 6 of 6 Previous Next Targets
Data Sources Persistant Sto Providers Work Contexts Create JDBC generic data sources Create JDBC GridLink data sources	Data Click	b Sources (Filtere the Lock & Edit to we Delete Name & LocalSycTblDataS	ad - More Colum putton in the Cha Type iource Generic Generic	ange Center to activate all the b JNDI Name Jdbc/LocalSvcTblDataSource	Showing 1 to 6 of 6 Previous Next Targets AdminServer
Data: Sources Deristion Stoff Foreign JNDI Providers Work Contexts Work Contexts Stoff Knill Registries Stoff Moli Sessions How do I Create JDBC generic data sources Create JDBC multi data sources	Data Click	Sources (Filtere the Lock & Edit to very Delete Name & LocalSvcTblDataS mds-adf	And - More Colur button in the Chi Type iource 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 Deristent Stoff Foreign JNDI Providers Work Contexts XML Registries XML Entity Caches ML Entity Caches ML entity Caches Mail Sessions	Data Click	Sources (Filtere the Lock & Edit to we Delete Name & LocalSvcTblDataS mds-adf opss-audit-DBDS	A More Colui poutton in the Cha iource Generic Generic 5 Generic	JNDI Name Jdbc/LocalSvcTblDataSource Jdbc/AuditAppendDataSource	Showing 1 to 6 of 6 Previous Next Targets AdminServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer, AdminServer, OFSLL_ManagedServer,
Data Sources Parsistent Stol Parsistent Stol Parsistent Stol Parsistent Stol Parsistent Stol Parsistent Stol Work Contexts Work Contexts Work Contexts Work Contexts Work Contexts Work Contexts Parsistent Stol Parsistent Stol	Data Click	Sources (Filtere the Lock & Edit to we Delete Name & LocalSvcTblData5 mds-adf opss-audit-DBD5 opss-audit-viewD	Ad - More Colum poutton in the Char iource Generic Generic S Generic Generic	JNDI Name Jdbc/LocalSvcTblDataSource jdbc/Mds/adf jdbc/AuditAppendDataSource jdbc/AuditViewDataSource	Showing 1 to 6 of 6 Previous Next Targets AdminServer AdminServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer, WS_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.

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
	JDBC Data Source Properties
Jomain Structure	The following properties will be used to identify your new JDBC data source.
PSLLREL_domain D-Domain Partitions	* Indicates required fields
- Deployments Services	What would you like to name your new JDBC data source?
Hessaging 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 V
	What JNDI name would you like to assign to your new JDBC Data Source?
low 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/ofsllDBConnDS' and 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_domai
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.
PSELLEL_domain Domain Partitions Denvironment Deployments Services B-Messaging Data Sources Persistent Stores - Foreign JNDI Providers Work Contexts Will Registries XML Registries 	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 *Oracle's Driver (Thin) for Instance connections; Versions:Any Back Next Finish
Mail Sessions	
low do I	
Create JDBC generic data sources Create LLR-enabled JDBC data sources	
System Status	
tealth of Running Servers as of 7:02 PM	
Failed (0)	
Critical (0) Overloaded (0)	

- 8. Select the Database Driver 'Oracle's Driver(Thin) for Instance connections; Versions:Any' as shown above.
- 9. 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 Configuration button to allow others to edit t domain.	Home >Summary of JDBC Data Sources Create a New JDBC Data Source
Lock & Edit Release Configuration	Back Next Finish Cancel
Domain Structure	Transaction Options You have selected non-XA JDBC driver to create database connection in your new data source.
PSLLREL domain	Four have selected non-XA JUBC driver to create database connection in your new data source.
- Domain Partitions - Environment	Does this data source support global transactions? If yes, please choose the transaction protocol for this data source.
Deployments Services	Supports Global Transactions
Messaging Data Sources Persistent Stores Foreign JNDI Providers	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.
····Work Contexts ····XML Registries	O Logging Last Resource
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.
low do I	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 IDBC 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.
ystem Status	One-Phase Commit
lealth of Running Servers as of 7:06 PM	Back Next Finish Cancel
Failed (0) Critical (0)	
Overloaded (0)	
Warning (0)	



10. 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 Configuration button to allow others to edit the domain.	Home >Summary of JDBC Data Create a New JDBC Data Sour	
Lock & Edit Release Configuration	Back Next Finish Ca	ancel
Release Configuration	Connection Properties	
Domain Structure	Define Connection Properties.	
DFSLLREL_domain Domain Partitions Environment	What is the name of the databas	se you would like to connect to?
Deployments Services	Database Name:	OLLDB
Messaging Data Sources Persistent Stores	What is the name or IP address	
Foreign JNDI Providers Work Contexts	Host Name:	ofsil.oracle.com
XML Registries XML Entity Caches	What is the port on the database	e server used to connect to the database?
		1521
low do I	What database account user name	me do you want to use to create database connections?
Create JDBC generic data sources Create LLR-enabled JDBC data sources	Database User Name:	OFSLLREL
ivstem Status	What is the database account pa	assword to use to create database connections?
lealth of Running Servers as of 7:06 PM	Password:	•••••
Failed (0) Critical (0)	Confirm Password:	•••••
Overloaded (0) Warning (0)	Additional Connection Properties	5

Change Center		Home Log Out Pre	eferences 🔤 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 domain.	the	Home >Summary of JU	
Look & Edit Release Configuration		Test Configuration	Back Next Finish Cancel
Domain Structure			ilability and the connection properties you provided.
OFSLLREL_domain	^	111 CALCE & CONSTRUCTION OF THE CALCE	e name of JDBC driver class used to create database connections in the connection pool? ass must be in the classpath of any server to which it is deployed.)
Services Messaging Data Sources Persistent Stores		Driver Class Name:	Oracle.jdbc.OracleDriver
- Foreign JNDI Providers - Work Contexts - XML Registries - XML Entity Caches		What is the URL of the	database to connect to? The format of the URL varies by JDBC driver. jdbc:oracle:thin:@ofsil.oracle.com:1521:OLLDB
	~	What database accoun	t user name do you want to use to create database connections?
How do I		Database User Name:	OFSLLREL ×
Create JDBC generic data sources Create LLR-enabled JDBC data sources			ccount password to use to create database connections? word management, enter the password in the Password field instead of the Properties field below)
System Status	-		
Health of Running Servers as of 7:17 PM		Password:	••••••
Failed (0) Critical (0) Overloaded (0)		Confirm Password:	
Warning (0) OK (3)			s to pass to the JDBC driver when creating database connections?
0(5)		Properties:	

ORACLE

12. Click 'Test Configuration'. The following window is displayed.

Change Center	B Home Log Out Pr	eferences 🔤 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 JI Messages Connection test su	
Release Configuration	Create a New JDBC D	ata Source
Domain Structure	Test Configuration	Back Next Finish Cancel
OFSLLREL_domain Domain Partitions Comparison Partitions	Test Database Con Test the database av	nection
Deployments Services Messaging Data Sources Derisitent Stores	The second	e name of JDBC driver class used to create database connections in the connection pool?
Foreign JNDI Providers Work Contexts Xult Registries	Driver Class Name:	oracle.jdbc.OracleDriver
XML Registries 	What is the URL of the	database to connect to? The format of the URL varies by JDBC driver. jdbc:oracle:thin:@ofsil.oracle.com:1521:OLLDB
How do I	What database account	t user name do you want to use to create database connections?
Create JDBC generic data sources Create LLR-enabled JDBC data sources	Database User Name:	OFSLLREL ×
System Status	What is the database a	ccount password to use to create database connections?
Health of Running Servers as of 7:13 PM	(Note: for secure pass	word 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:	••••••

13. Displays confirmation message as 'Connection test succeeded'. Click 'Next'. The following window is displayed.

Change Center	Home Log Out Preferences Record Help
View changes and restarts	Welcome, weblogic Connected to: OFSLLREL_domai
No pending changes exist. Click the Release	Home >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	
	Select Targets
Domain Structure DFSLLREL domain	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.
Domain Partitions	
Environment Deployments	Servers
🕀 Services	☑ AdminServer
Messaging Data Sources	
Persistent Stores	✓ OFSLL_ManagedServer
Foreign JNDI Providers	WS_ManagedServer
Work Contexts XML Registries	
-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)	
Overloaded (0) Warning (0)	
OK (3)	



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

Change Center		Home Log Ou	at Preferences	Red Red	cord Help	
View changes and restarts						Welcome, weblogic Connected to: OFSLLREL_dom
lick the Lock & Edit button to modify, add o		Home >Summary	of JDBC Data	Sources		
elete items in this domain.		Messages				
Look & Edit		 All changes h 	ave been activ	ated. No	restarts are necessary.	
Release Configuration		Summary of JDB	C Data Sourc	-		
Iomain Structure		Configuration	Monitoring			
Domain Partitions Environment Deployments Services Orassaging Data Sources Persistent Stores		connections. Ap source.	plications can l	look up a	to the JNDI tree that provides data source on the JNDI tree a ource objects that have been cr	database connectivity through a pool of JDBC and then borrow a database connection from a data reated in this domain.
- Foreign JNDI Providers - Work Contexts - XML Registries - XML Entity Caches - JCOM - Mail Sessions	~	Customize thi Data Sources (Click the Lock d New Date	Filtered - Mo Edit button in		nns Exist) inge Center to activate all the b	uttons on this page Showing 1 to 7 of 7 Previous Next
Work Contexts 	>	Data Sources (Click the <i>Lock</i> d	Filtered - Mo Edit button in			
- Work Contexts - XML Registries - XML Entity Caches - JCOM - Mail Sessions low do I	> I	Data Sources (Click the Lock & New > Data	Filtered - Mo E <i>Edit</i> button in	Type	inge Center to activate all the b	Showing 1 to 7 of 7 Previous Next
Work Contexts Create JDBC generic data sources	-	Data Sources (Click the Lock & New - Date Name & LocalSvette	Filtered - Mo Edit button in	Type Generic	JNDI Name Jdbc/LocalSvcTblDataSource	Showing 1 to 7 of 7 Previous Next Targets AdminServer
- Work Contexts - XML Registries - XML Registries - Mail Sestions - Mail Sestions - Mail Sestions - Create JDBC generic data sources - Create JDBC GridLink data sources	>	Data Sources (Click the Lock & New Data Name & LocalSvcTt mds-adf	Filtered - Mo E <i>Edit</i> button in	Type Generic Generic	INDI Name Jdbc/LocalSvcTblDataSource Jdbc/mds/adf	Showing 1 to 7 of 7 Previous Next Targets AdminServer AdminServer
- Work Contexts - XML Registries - XML Registries - Cont - Mail Sessions - Mail Sessions - Mail Sessions - Create JDBC GridUnk data sources - Create JDBC GridUnk data sources - Create JDBC multi data sources	>	Data Sources (Click the Lock & New - Date Name & LocalSvette	Filtered - Mo E <i>Edit</i> button in	Type Generic Generic	JNDI Name Jdbc/LocalSvcTblDataSource	Showing 1 to 7 of 7. Previous Next Targets AdminServer AdminServer AdminServer
- Work Contexts - XML Registries - XML Entity Caches - JCOM	>	Data Sources (Click the Lock & New Data Name & LocalSvcTt mds-adf	Filtered - Mo Edir button in Ite DataSource	Type Generic Generic	INDI Name Jdbc/LocalSvcTblDataSource Jdbc/mds/adf	Showing 1 to 7 of 7 Previous Next Targets AdminServer AdminServer
Work Contense Work Contense Work Contense Work Contense Work Contense Conset DBC Contention data sources Creates DBC Content Contense Creates DBC Contolk data sources Creates DBC Contolk data sources Creates DBC MorkInk data sources		Data Sources (Click the Lock & New ··· Data Name & LocalSveTt mds-adf	Filtered - Mo Edif button in DDataSource	Type Generic Generic Generic Generic	INDE Name jdbc/LocalSvcTblDataSource jdbc/dal/adf jdbc/ofslIDBConnDS	Showing 1 to 7 of 7 Previous Next Targets AdminiServer AdminiServer AdminiServer.OFSLL_ManagedServer AdminiServer.OFSLL
Work Contexts Wat Registers Wat Registers Wat Registers Mail Sensions Wat Resistors Wat Resistors Create JDBC GridLink data sources Create JDBC GridLink data sources Create JDBC GridLink data sources Create DBC GridLink data sources Create State Sources		Data Sources (Click the Lock & New Clais Name & LocalSvett mds-adf OFSLL opss-audit	Filtered - Mo E Edic button is allotasSource -DBDS -viewDS	Type Generic Generic Generic Generic Generic	nge Center to activate all the b INDI Name jdbc/LocalSvcTblDataSource jdbc/dsldaf jdbc/dslDBConnDS jdbc/AuditAppendDataSource	Showing 1 to 7 of 7 Previous Next Targets AdminServer AdminServer AdminServer OFSLL_ManagedServer AdminServer, OFSL_ManagedServer, AdminServer, OFSL_ManagedServer, AdminServer, OFSL_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

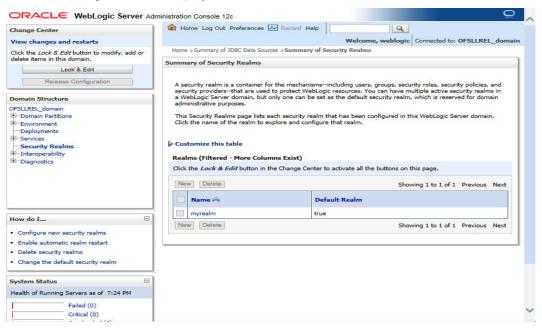
User Authentication and Management is outside of Oracle Financial Services Lending and Leasing application. Organizations can use an LDAP implementation for authentication. For Development and Testing purpose, the following sections can be configured for authentication:

- 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



3.5 Creating SQL Authentication Provider

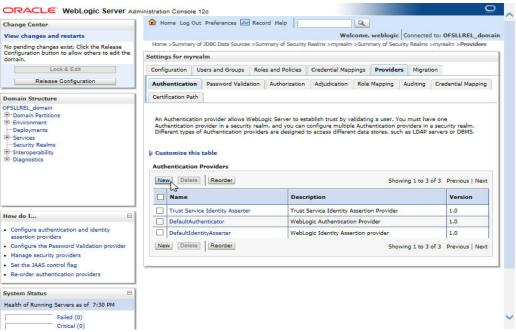
1. Login to WebLogic server administration console and click 'Security Realms' in left panel. The following window is displayed.



2. Click 'myrealm' on right panel. The following window is displayed.

Change Center	Home	Log Out Prefere	ences 📥	Record Help			Q			
View changes and restarts						Welcom	e, weblogic	Connected to	• OFSLLRE	L_doma
Click the Lock & Edit button to modify, add or	Home >Summary of JDBC Data Sources >Summary of Security Realms >myrealm									
delete items in this domain.	Settings for myrealm									
Lock & Edit Release Configuration	Configuration Users		Isers and Groups Roles and Pol		olicies Credential Ma		ial Mappings	Providers	Migration	
	General	RDBMS Securi	ty Store	User Lockout	Perfo	ormance				
omain Structure	-									
FSLLREL_domain D-Domain Partitions D-Environment	Save	Lock & Edit but	ton in the	Change Center	to mod	ity the set	tings on this p	age.		
Deployments Services Security Realms Interoperability Diagnostics	Note:	page to configure	3			88				
Diagnostics	3	ISR 115), you mu and the security f	ust use the	DD Only securi	ty mod	el. Other		ver models ar	e not availab	ble
o Diagnostics	3	ISR 115), you mu	ust use the	DD Only securi or Web applicat	ty mod	el. Other	WebLogic Serv	er models ar ition Console	e not availal are disabled	ble J.
iow do I	J	ISR 115), you mu and the security f	ust use the functions f	e DD Only securi or Web applicat	ty mod	el. Other	WebLogic Serv the Administra The name of	this security default security or EJBs that : 	realm. Mo realm. Mo rity model fo are secured verride this o	ne by this
	Name: Mame: Mefault:	ISR 115), you mu and the security f	ust use the functions f myrea	a DD Only securi for Web applicat	ty mod	el. Other ' d EJBs in	WebLogic Serv the Administra The name of Info Specifies the applications of security realr	ver models ar this security default secu- or EJBs that : n. You can o yment. Mor now the role oplication, Wi	e not availal are disabled realm. Mo rity model for are secured verride this of e Info mappings in eb applicatio	re or Web by this default the n, and
fow do I Configure new security realms Enable automatic realm restart Manage security for Web applications and	Name: Mame: Mefault:	ISR 115), you mu and the security f	ust use the functions f myrea	a DD Only securi for Web applicat	ty mod	el. Other ' d EJBs in	WebLogic Servithe Administra The name of Info Specifies the applications of security realr during deploy Determines h Enterprise Ap	ver models ar tition Console this security default secu or EIBs that : n. You can o yment. Mor now the role oplication, W rs interact. T applications d security mo s from deploy	e not availal are disabled realm. Mo rity model fo are secured verride this o e Info mappings in eb applicatio his setting is and EJBs th del and that	re re by this default the n, and s valid at use

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



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

Change Center	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	Home >Summary of JDBC Data Sources >Summary of Security Realms >myrealm >Summary of Security Realms >myrealm >Providers
domain.	Create a New Authentication Provider
Lock & Edit Release Configuration	OK Cancel
	Create a new Authentication Provider
Domain Structure	The following properties will be used to identify your new Authentication Provider.
OFSLLREL_domain	* Indicates required fields
Deployments	The name of the authentication provider.
Services Security Realms Interoperability	* Name: OFSLLDBAuthenticator
Diagnostics	This is the type of authentication provider you wish to create.
	Type: SQLAuthenticator
How do I	
Manage security providers	
 Configure authentication and identity assertion providers 	
System Status	
Health of Running Servers as of 7:33 PM	
Failed (0)	
Critical (0)	
Overloaded (0)	
Warning (0)	
ОК (3)	

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



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

Change Center	💼 He	ome Log O	ut Preferences 📐	Record Help		Q		
View changes and restarts					We	come, weblogic	Connected	to: OFSLLREL_dom
Pending changes exist. They must be activated	Home	s >Summary	of JDBC Data Source	s >Summary of Sec.	rity Realms >myrealn	n >Summary of Secu	rity Realms >	>myrealm > Providers
to take effect.	Setting	gs for myre	ealm					
Activate Changes	Confi	ouration	Users and Groups	Roles and Policie	s Credential Mac	pings Provider	s Migrati	00
Undo All Changes		entication	-	10		Role Mapping	Auditing	Credential Mapping
Domain Structure		fication Path		Addionzac	on Aujudication	Kole Mapping	Additing	Credential Mapping
(B) -Environment I - Deployments (B) -Services I - Security Realms (B) -Interoperability (B) -Diagnostics	Auth Diffe	tomize thi	provider in a securit of Authentication p s table Providers	ty realm, and you o	establish trust by v an configure multip ed to access differe	e Authentication p nt data stores, such	roviders in a h as LDAP s	a security realm.
		Name		Des	ription	5100000	<u> </u>	Version
How do I 🖂			ice Identity Asserte		c ription : Service Identity As	sertion Provider		
		Trust Serv	ice Identity Asserte henticator	er Trus	(C)			Version
Configure authentication and identity assertion providers		Trust Serv DefaultAut		er Trus Web	Service Identity As	Provider		Version 1.0
Configure authentication and identity assertion providers Configure the Password Validation provider		Trust Serv DefaultAut DefaultIde	henticator	er Trus Web	Service Identity As Logic Authentication	Provider tion provider	1	Version 1.0 1.0
Configure authentication and identity assertion providers Configure the Password Validation provider Manage security providers Set the JAAS control flag		Trust Serv DefaultAut DefaultIde OFSLLDBA	henticator ntityAsserter uthenticator	er Trus Web	Service Identity As Logic Authentication Logic Identity Assen	Provider tion provider BMS authentication		Version 1.0 1.0 1.0
Configure authentication and identity assertion providers Configure the Password Validation provider Manage security providers		Trust Serv DefaultAut DefaultIde OFSLLDBA	henticator ntityAsserter uthenticator	er Trus Web	Service Identity As Logic Authentication Logic Identity Assen	Provider tion provider BMS authentication		Version 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		Trust Serv DefaultAut DefaultIde OFSLLDBA	henticator ntityAsserter uthenticator	er Trus Web	Service Identity As Logic Authentication Logic Identity Assen	Provider tion provider BMS authentication		Version 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		Trust Serv DefaultAut DefaultIde OFSLLDBA	henticator ntityAsserter uthenticator	er Trus Web	Service Identity As Logic Authentication Logic Identity Assen	Provider tion provider BMS authentication		Version 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		Trust Serv DefaultAut DefaultIde OFSLLDBA	henticator ntityAsserter uthenticator	er Trus Web	Service Identity As Logic Authentication Logic Identity Assen	Provider tion provider BMS authentication		Version 1.0 1.0 1.0 1.0 1.0

7. Click on 'Activate Changes'. The following window is displayed.

Change Center	1 H	ome Log Ou	at Preferences 🔤	Record Help		Q		
iew changes and restarts					Welco	ome, weblogic	Connected	to: OFSLLREL_don
ending changes exist. They must be activated	Home	a >Summary	of JDBC Data Sources	>Summary of Security	Realms >myrealm >	Summary of Secu	rity Realms >	myrealm >Providers
o take effect.	Settin	Settings for myrealm						
Activate Changes	Confi	guration	Users and Groups	Roles and Policies	Credential Mappi	ngs Provider	s Migratio	0
Undo All Changes		entication	52	tion Authorization		Role Mapping	Auditing	Credential Mapping
omain Structure				Authorization	Adjudication	Kole Mapping	Auditing	Credential Mapping
SLLREL domain	Certi	fication Path	1					
⊕-Interoperability ⊕-Diagnostics		hentication	Providers			Show	ring 1 to 4 o	f 4 Previous Next
	_	Ĩ						
		Name		Descrip	otion			Version
ow do I			uthenticator		tion that performs DBI	MS authentication	1	Version
-				Provider			1	
Configure authentication and identity assertion providers		OFSLLDBA DefaultAut		Provider WebLog	that performs DBI	rovider	8	1.0
Configure authentication and identity assertion providers Configure the Password Validation provider		OFSLLDBA DefaultAut DefaultIde	henticator	Provider WebLog WebLog	that performs DBI ic Authentication P	rovider n provider	<u>.</u>	1.0
Configure authentication and identity assertion providers Configure the Password Validation provider Manage security providers		OFSLLDBA DefaultAut DefaultIde Trust Servi	henticator ntityAsserter ice Identity Asserter	Provider WebLog WebLog	that performs DBI ic Authentication P ic Identity Assertio	rovider n provider rtion Provider		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		OFSLLDBA DefaultAut DefaultIde Trust Servi	henticator ntityAsserter ice Identity Asserter	Provider WebLog WebLog	that performs DBI ic Authentication P ic Identity Assertio	rovider n provider rtion Provider		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		OFSLLDBA DefaultAut DefaultIde Trust Servi	henticator ntityAsserter ice Identity Asserter	Provider WebLog WebLog	that performs DBI ic Authentication P ic Identity Assertio	rovider n provider rtion Provider		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		OFSLLDBA DefaultAut DefaultIde Trust Servi	henticator ntityAsserter ice Identity Asserter	Provider WebLog WebLog	that performs DBI ic Authentication P ic Identity Assertio	rovider n provider rtion Provider		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 ystem Status		OFSLLDBA DefaultAut DefaultIde Trust Servi	henticator ntityAsserter ice Identity Asserter	Provider WebLog WebLog	that performs DBI ic Authentication P ic Identity Assertio	rovider n provider rtion Provider		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 ystem Status Elevent Security Configure lealth of Running Servers as of 7:37 PM		OFSLLDBA DefaultAut DefaultIde Trust Servi	henticator ntityAsserter ice Identity Asserter	Provider WebLog WebLog	that performs DBI ic Authentication P ic Identity Assertio	rovider n provider rtion Provider		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 Rag Re-order authentication providers		OFSLLDBA DefaultAut DefaultIde Trust Servi	henticator ntityAsserter ice Identity Asserter	Provider WebLog WebLog	that performs DBI ic Authentication P ic Identity Assertio	rovider n provider rtion Provider		1.0 1.0 1.0 1.0 1.0

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



8. Click on 'OFSLLDBAuthenticator'. The following window is displayed.

Change Center	Home Log Out F	Preferences 🔄 Record Help	Q					
View changes and restarts		w	Velcome, weblogic Connected to: OFSLLREL_domain					
No pending changes exist. Click the Release	Home >Providers >Su	Home >Providers >Summary of Services >Summary of Security Realms >myrealm >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						
Jomain Structure	Save							
FSLLREL_domain - Domain Partitions - Environment - Deployments - Services	This page displays I Control Flag to cont	basic information about this SQL Authentication pro- rol how this provider is used in the login sequence.	vider. You can also use this page to set the JAAS					
Security Realms T-Interoperability	🚓 Name:	OFSLLDBAuthenticator	The name of this SQL Authentication provider. More Info					
Diagnostics	ighter the secret of the secre	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					
low do I 🖂	👸 Control Flag:	SUFFICIENT	Specifies how this SQL Authentication provider fits into the login sequence, More Info					
Configure authentication and identity assertion providers Set the JAAS control flag	Save							
Configure the Password Validation provider								
Manage security providers								
iystem Status 🛛								
lealth of Running Servers as of 8:01 PM								
Failed (0) Critical (0)								

- 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 🔤 F	Record Help						
view changes and restarts			Welcome, weblogic Connected to: OFSLLREL_dom:					
ending changes exist. They must be activated	Home >Providers >Summary of Services :	>Summary of Security Realms >	myrealm >Providers >OFSLLDBAuthenticator					
o take effect.	Settings for OFSLLDBAuthenticator	Settings for OFSLLDBAuthenticator						
Activate Changes Undo All Changes	Configuration Performance							
	Common Provider Specific							
Domain Structure PFSLLREL_domain	Save							
Domain Partitions Deployments	Use this page to define the provider s	specific configuration of this S	QL Authentication provider.					
⊕-Services Security Realms ⊕-Interoperability ⊕-Diagnostics	Identity Domain:		The name of the identity domain. More Info					
	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 are 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 only if Group Membership Searching is set to limited. Valid values are 0 and positive integers.					
System Status			For example, 0 indicates only direct group					
, lealth of Running Servers as of 8:03 PM			memberships will be found, a positive number 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					

- 11. Specify the following values in corresponding fields:
 - Data Source Name: OFSLL
 - Password Style Retained: Uncheck
 - Password Algorithm: SHA-512
 - Password Style: SALTEDHASHED



Operation	Default SQL Query from Weblogic	Corresponding SQL Queries as per our Tables
SQL Get Users Password:	SELECT U_PASS- WORD FROM USERS WHERE U_NAME = ?	SELECT UAU_USR_PASSWORD FROM USER_AUTHORISATIONS WHERE UAU_USR_CODE = ?
SQL Set User Password:	UPDATE USERS SET U_PASSWORD = ? WHERE U_NAME = ?	UPDATE USER_AUTHORISATIONS SET UAU_USR_PASSWORD = ? WHERE UAU_USR_CODE = ?
SQL User Exists:	SELECT U_NAME FROM USERS WHERE U_NAME = ?	SELECT UAU_USR_CODE FROM USER_AUTHORISATIONS WHERE UAU_USR_CODE = ?
SQL List Users:	SELECT U_NAME FROM USERS WHERE U_NAME LIKE ?	SELECT UAU_USR_CODE FROM USER_AUTHORISATIONS WHERE UAU_USR_CODE LIKE ?
SQL Create User:	INSERT INTO USERS VALUES (? , ? , ?)	INSERT INTO USER_AUTHORISA- TIONS(UAU_USR_CODE, UAU_USR PASSWORD,UAU_DESC) VALUES(?,?,?)
SQL Remove User:	DELETE FROM USERS WHERE U_NAME = ?	DELETE FROM USER_AUTHORISA- TIONS WHERE UAU_USR_CODE= ?
SQL List Groups:	SELECT G_NAME FROM GROUPS WHERE G_NAME LIKE ?	SELECT UGR_GROUP_CODE FROM USER_GROUPS WHERE UGR_GROUP_CODE LIKE ?
SQL Group Exists:	SELECT G_NAME FROM GROUPS WHERE G_NAME = ?	SELECT UGR_GROUP_CODE FROM USER_GROUPS WHERE UGR_GROUP_CODE = ?
SQL Create Group:	INSERT INTO GROUPS VALUES (? , ?)	INSERT INTO USER_GROUPS(UGR_GROUP_CODE,U GR_GROUP_DESC) VALUES(?,?)
SQL Remove Group:	DELETE FROM GROUPS WHERE G_NAME = ?	DELETE FROM USER_GROUPS WHERE UGR_GROUP_CODE = ?
SQL Is Mem- ber:	SELECT G_MEMBER FROM GROUPMEM- BERS WHERE G_NAME = ? AND G_MEMBER = ?	SELECT UGM_MEMBER_USR_CODE FROM USER_GROUP_MEMBERS WHERE UGM_MEM- BER_GROUP_CODE= ? AND UGM_MEMBER_USR_CODE = ?
SQL List Mem- ber Groups:	SELECT G_NAME FROM GROUPMEM- BERS WHERE G_MEMBER = ?	SELECT UGM_MEM- BER_GROUP_CODE FROM USER_GROUP_MEMBERS WHERE UGM_MEMBER_USR_CODE= ?

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



Operation	Default SQL Query from Weblogic	Corresponding SQL Queries as per our Tables
SQL List Group Mem- bers:	SELECT G_MEMBER FROM GROUPMEM- BERS WHERE G_NAME = ? AND G_MEMBER LIKE ?	SELECT UGM_MEMBER_USR_CODE FROM USER_GROUP_MEMBERS WHERE UGM_MEM- BER_GROUP_CODE= ? AND UGM_MEMBER_USR_CODE_LIKE ?
SQL Remove Group Mem- berships:	DELETE FROM GROUPMEMBERS WHERE G_MEMBER = ? OR G_NAME = ?	DELETE FROM USER_GROUP_MEM- BERS WHERE UGM_MEMBER_US- R_CODE= ? OR UGM_MEMBER_GROUP_CODE= ?
SQL Add Member To Group:	INSERT INTO GROUPMEMBERS VALUES(?, ?)	INSERT INTO USER_GROUP_MEM- BERS (UGM_MEM- BER_GROUP_CODE,UGM_MEMBER_US R_CODE) VALUES(?,?)
SQL Remove Member From Group:	DELETE FROM GROUPMEMBERS WHERE G_NAME = ? AND G_MEMBER = ?	DELETE FROM USER_GROUP_MEM- BERS WHERE UGM_MEM- BER_GROUP_CODE= ? AND UGM_MEMBER_USR_CODE= ?
SQL Remove Group Mem- ber:	DELETE FROM GROUPMEMBERS WHERE G_NAME = ?	DELETE FROM USER_GROUP_MEM- BERS WHERE UGM_MEM- BER_GROUP_CODE= ?
SQL Get User Description:	SELECT U_DESCRIP- TION FROM USERS WHERE U_NAME = ?	SELECT UAU_DESC FROM USER_AU- THORISATIONS WHERE UAU_US- R_CODE = ?
SQLSet User Description:	UPDATE USERS SET U_DESCRIPTION = ? WHERE U_NAME = ?	UPDATE USER_AUTHORISATIONS SET UAU_DESC= ? WHERE UAU_US- R_CODE= ?
SQL Get Group Descrip- tion:	SELECT G_DE- SCRIPTION FROM GROUPS WHERE G_NAME = ?	SELECT UGR_GROUP_DESC FROM USER_GROUPS WHERE UGR_GROUP_CODE= ?
SQL Set Group Description:	UPDATE GROUPS SET G_DESCRIP- TION = ? WHERE G_NAME = ?	UPDATE USER_GROUPS SET UGR_GROUP_DESC= ? WHERE UGR_GROUP_CODE= ?
Provider Name	OFSLLDBAuthentica- tor	



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
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
	Indicates whether user and group descriptions are supported by the database used by the authentication provider. More Info
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 username and must return a resultSet containing at most a single record containing the user description. More Info
te UAU_USR_CODE= ?	
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
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
	DELETE FROM USER_(E UAU_USR_CODE = ? RE UAU_USR_CODE = ? JGR_GROUP_CODE = ?

12. Click 'Save'.

Note

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

3.6 Creating User Groups and Users

3.6.1 <u>Creating Users</u>

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.

```
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:
Sat 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> @ort_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 First Name for this user: 9997778886
Enter the Fax Number for this user: 9997778886
Enter the Fax Number for this user: 6655544422
1 row created.
1 row created.
5QL> commit;
Commit complete.
5QL>
```

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

Change Center	🔒 Home Log Out Preferences 🚈	Record Help	Q			
iew changes and restarts		Wel	come, weblogic Connected to: OFSLLREL_o	dom		
ick the Lock & Edit button to modify, add or	Home >Summary of Security Realm	5				
elete items in this domain.	Summary of Security Realms					
Lock & Edit Release Configuration	providersthat are used to protect	WebLogic resources. You can have mu	s, security roles, security policies, and security Itiple active security realms in a WebLogic Serve	er		
omain Structure	domain, but only one can be set as	the default security realm, which is re-	erved for domain administrative purposes.			
FSLLREL_domain Domain Partitions Environment Deployments	This Security Realms page lists eac name of the realm to explore and o	h security realm that has been configur configure that realm.	ed in this WebLogic Server domain. Click the			
Services	Customize this table					
Security Realms	Realms (Filtered - More Column	E Frict)				
I - Interoperability I - 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 N			
			Showing 1 to 1 or 1 Previous 1	EAL		
	Name 🗠	Default Realm				
	myrealm	true				
ow do I 🗉	New Delete		Showing 1 to 1 of 1 Previous N	lext		
Configure new security realms						
Enable automatic realm restart						
Delete security realms						
Change the default security realm						
ystem Status 🖂	1					
Health of Running Servers as of 10:49 AM	1					
Failed (0)	1					
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	Home L	og Out Preferen	nces 🔛 Record Help	Q			
View changes and restarts						ted to: OFSLLREL_doma	
Click the Lock & Edit button to modify, add or	Home >Sum	mary of Security R	Realms >myrealm >Summary of Se	curity Realms >myrealm >l	Users and Group	5	
delete items in this domain.	Settings for	Settings for myrealm					
Lock & Edit	Configuratio	n Users and	Groups Roles and Policies	Credential Mappings	Providers Mig	gration	
Release Configuration	Users G	roups					
Domain Structure		loops					
OFSLERE_domain B - Domain Partitions B - Brivironment - Deployments - Services - Services - Security Realms B - Interoperability	🕞 Customiz	displays informat e this table cered - More Co	tion about each user that has b olumns Exist)	een configured in this sec	urity realm.		
Diagnostics	New D	New Delete Showing 1 to 4 of 4 Previous Next					
	Nam	e 🊕 🛛 D	Description			Provider	
		DEMOSUPR DEMO SUPR			OFSLLDBAuthenticat		
			his is the default service accoun onfiguration updates.	t for WebLogic Server Lif	ecycle Manager	DefaultAuthenticator	
How do I	Oraci	eSystemUser O	racle application software syste	m user.		DefaultAuthenticator	
 Manage users and groups 	webk	ogic T	his user is the default administr	ator,		DefaultAuthenticator	
Create users Modify users Delete users	New	lelete			Showing 1 to	4 of 4 Previous Next	
System Status	i						
Health of Running Servers as of 10:51 AM							
Failed (0) Critical (0) Overloaded (0)							
Warning (0)							

3.6.2 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.

Change Center	🏦 Home Log Out Preferences 🔤 Record Help						
View changes and restarts				Welcome, v	veblogic Conne	ected to: OFSLLREL_do	
Click the Lock & Edit button to modify, add or	Home	>Summary of Security Real	ms >myrealm >Summary of Se	curity Realms >mynealm :	Users and Grou	ips	
delete items in this domain.	Setting	s for myrealm					
	Config	uration Users and Gr	oups Roles and Policies	Credential Mappings	Providers M	ligration	
Release Configuration	Users	Groups					
omain Structure							
P Environment — Deployments D Services — Security Realms — Intercoerability	Cust Grou	tomize this table ps					
Diagnostics	New Delete Showing 1 to 9 of					to 9 of 9 Previous Next	
		Name & Description AdminChannelUsers AdminChannelUsers can access the admin channel.		Provider			
				DefaultAuthenticator			
		Administrators	Administrators can view and modify all resource attributes and start and stop servers.			t DefaultAuthenticator	
iow do I 🖂		AppTesters	AppTesters group.			DefaultAuthenticator	
Manage users and groups		CrossDomainConnectors	CrossDomainConnectors ca domains.	in make inter-domain ca	lls from foreign	DefaultAuthenticator	
Create groups Modify groups		Deployers	Deployers can view all reso	ource attributes and dep	loy applications.	DefaultAuthenticator	
Delete groups		Monitors	Monitors can view and modify all resource attributes and perform operations not restricted by roles.			DefaultAuthenticator	
System Status 🖂		OFSLL_USER	OFSLL USER GROUP			OFSLLDBAuthenticator	
System Status E Health of Running Servers as of 10:52 AM		Operators	Operators can view and me server lifecycle operations.		tes and perform	DefaultAuthenticator	
Failed (0)		OracleSystemGroup	Oracle application software	system group.		DefaultAuthenticator	
Critical (0)	Nev	v Delete			Showing 1	to 9 of 9 Previous Nex	



3.6.3 Assigning Users to Groups

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

Change Center	😰 Home Log Out, Preferences 🖾 Robert Help		Welcome, weblogic Connected in: OFSL_dumate
View changes and restarts	more charactery of Security Regime a system Lifest	oles >040004/thereater >5/merety of Second A	wina coryoneth closes and Brouge s00m05URE scenes and Drouge s060m08UMR
Cick the Lock & Edit button to modify, add in	Settings for DEMOSCIPAL		
delete fams in this domain. Lack & Eat	General Patenords Groups		
Remana Climitgication	(Sect)		
Domain Structure	Use this page to configure group membership for	this user,	
OFSU, portan Bi Envancent Ofsishinemt Service Service Istratopation Richaropation Richaropation Richaropation		ofSL_USR	This same can be a member of one of these parent groups. Here before
How do L. 🛛	Seve		
Deate users			
System Status R			
reacts of Running Servers			
Failed (3) One (4) One (4) One (4) One (4) One (4) One (4) One (5) One (5)			

3.6.4 <u>Resetting password via weblogic console</u>

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

Change Center	🔒 Home Log Out Preference	Record Help						
View changes and restarts			Welcome, weblogic Connected to: OFSLLREL_do	omain				
Click the Lock & Edit button to modify, add or	Home >Summary of Security Realms >myrealm >Users and Groups >DEMOSUPR							
delete items in this domain.	Settings for DEMOSUPR							
Lock & Edit Release Configuration	General Passwords Grou	ps						
Domain Structure	Save							
OFSLIREL_domain Ornain Partitions Denvironment Deployments Orservices	Use this page to change the p	assword for the selected user.						
Security Realms	* New Password:	•••••	The new password of this user. More Info					
Diagnostics	* Confirm New Password:	•••••]					
	Save							
How do I 🗉]							
Create users								
Modify users								
Delete users								
System Status	ĵ.							
Health of Running Servers as of 11:04 AM	1							
Failed (0)	1							
Critical (0)								
Overloaded (0) Warning (0)								
warning (0)								

2. Click 'Save'. The following window displayed.

Change Center	🔒 Home	Log Out Prefe	erences 🛃	Record Help			2			
View changes and restarts						Welco	me, weblogic	Connected to:	OFSLLREL_domain	
Click the <i>Lock & Edit</i> button to modify, add or delete items in this domain.	Messages	Home >Summary of Security Realms >myrealm >Users and Groups >DI tessages								
Release Configuration	Settings f	or DEMOSUPR	t							
Domain Structure	General	Passwords	Groups							
OFSLLREL_domain	Save									
Deployments Services Security Realms Interoperability		a page to chang is required fields		ord for the sel	ected user.					
Diagnostics	* New P	* New Password:					'he new passw	ord of this user.	More Info	
	* Confir	m New Passw	ord:			Ŭ.				
How do I 🗉	Save									
Create users Modify users Delete users										
System Status	1									
Health of Running Servers as of 11:07 AM										
Failed (0)										
Critical (0) Overloaded (0)										
Warning (0) OK (1)										~

3.7 Implementing JMX Policy for Change Password

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

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

hange Center	Home Log Out Preferences	Record Help		Q			
iew changes and restarts				Welcome, v	veblogic Connected to: OFSLLREL_dom		
lick the Lock & Edit button to modify, add or	Home >Summary of Security Realm	s >myréálm					
elete items in this domain.	Settings for myrealm						
Look & Edit Release Configuration	Configuration Users and Gro	ups Roles and Policie	s Credential Map	oings Providers	Migration		
	General RDBMS Security Stor	e User Lockout P	rformance				
main Structure			122020 1000				
SLLREL_domain	Click the Lock & Edit button in	the Change Center to n	odify the settings or	this page.			
Environment	Save						
Services Security Realms Interoperability Diagnostics	Use this page to configure the general behavior of this security realm. Note: If you are implementing security using JACC (Java Authorization Contract for Containers as defined in JSR 115), you must use the DD Only security model. Other WebLogic Server models are not available and the security, functions for Web applications and EDBs in the Administration Console are disabled.						
	Name:	myrealm		The name of	of this security realm. More Info		
ow do I 🖂	👸 Security Model Default:	DD Only	~	applications realm, You	e default security model for Web s or EJBs that are secured by this security can override this default during t. More Info		
Configure new security realms Enable automatic realm restart	Combined Role Mannie	o Enabled		Determines	how the role mappings in the Enterprise		
Enable automatic nearin restart Manage security for Web applications and EBs Set the default security model Delegate MBean authorization to the realm	📝 🥷 Combined Role Mapping Enabled			Application, interact, Th and EJBs th that initializ	Web application, and EIB containers is setting is valid only for Web applications tat use the Advanced security model and the roles from deployment More Info		
	Use Authorization Prov	riders to Protect JMX	Access	the security	the WebLogic Server MBean servers to use realm's Authorization providers to		
ealth of Running Servers as of 11:09 AM				determine access an M	whether a JMX client has permission to IBean attribute or invoke an MBean More Info		
Failed (0) Critical (0) Overloaded (0) Warning (0)	Automatically Restart Afte	r Non-Dynamic Char	ges	non-dynam	hether the Realm will be auto-restarted if ic changes are made to the realm or rithin the realm. More Info		
OK (1)	Retire Timeout:	(cn		Construction of	e retire timeout for a realm that is		



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		
/iew changes and restarts				Welcome, weblogic Connected to	OFSLLREL_doma
o pending changes exist. Click the Release	Home >Summary of Security Realms	>myrealm			
onfiguration button to allow others to edit the omain.	Settings for myrealm				
Lock & Edit	Configuration Users and Grou	ps Roles and Policies	Credential Mappings	Providers Migration	
Release Configuration	General RDBMS Security Store	User Lockout Perfo	rmance		
omain Structure	Save				
SLLRE_domain Domain Partitions Environment Deployments Services Security Realms Interoperability Dispositics	the DD Only security mo	security using JACC (Java	Authorization Contract	t for Containers as defined in JSR 115 able and the security functions for W	i), you must use eb applications
	Name:	myrealm		The name of this security realm.	More Info
	a Security Model Default:	DD Only	~	Specifies the default security model applications or EJBs that are secure realm. You can override this default deployment. More Info	ed by this security
w do I Configure new security realms Enable automatic realm restart Manage security for Web applications and FIRe	🗹 👘 Combined Role Mappin	g Enabled		Determines how the role mappings Application, Web application, and E interact. This setting is valid only for and EBs that use the Advanced se that initialize roles from deploymen descriptors. More Info	JB containers or Web applications curity model and
Set the default security model Delegate MBean authorization to the realm	☑ 🛃 Use Authorization Providers to Protect JMX Access			Configures the WebLogic Server ME the security realm's Authorization p determine whether a JMX client has access an MBean attribute or invok	roviders to s permission to
stem Status 🖂				operation. More Info	
Failed (0)	Automatically Restart Afte	• Non-Dynamic Change	5	Specifies whether the Realm will be non-dynamic changes are made to providers within the realm. More 1	the realm or
Critical (0) Overloaded (0) Warning (0)	Retire Timeout:	60		Specifies the retire timeout for a re- restarted. The old realm will be shu specified timeout period has elapse	tdown after the

- 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 Preferences	Record Help	Q		
View changes and restarts				v	lelcome, weblogic	Connected to: OFSLLREL_don
lick the Lock & Edit button to modify, add or	Home >Summary of Security Realms >myrealm >Realm Roles >Realm Policies					
elete items in this domain.	Settings for m	yrealm				
Lock & Edit Release Configuration	Configuration	Users and Groups	Roles and Policies	Credential Mappings	Providers Migrat	tion
10	Realm Roles	Realm Policies				
omain Structure FSLLREL domain						
- Services - Security Realms - Interoperability - Diagnostics	Notes:	policies, view theIf you imported p	Security tab for each JN policies for Web application	DI node or Work Contex ons or EJBs from deploy	t object instance.	Context resources. To see these
iow do I, 🛙	Customize	 To view or modified realm's Authorization 			must first delegate N	MBean authorization to the
Manage security policies		To view or modify realm's Authoriza this table	y JMX policies in the Adm			NBean authorization to the
Manage security policies Access policies for JNDI resources Access policies for Work Context resources	Policies	To view or modifinealm's Authoriza this table	y JMX policies in the Adm			
Manage security policies Access policies for JNDI resources Access policies for Work Context resources	Policies	To view or modifinealm's Authoriza this table	y JMX policies in the Adm	inistration Console, you		ving 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	Policies Create Polic Name & Cohere	To view or modify realm's Authoriza this table	y JMX policies in the Adm	inistration Console, you		ving 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 rstem Status	Policies Create Polic Name & Cohere	To view or modify realm's Authoriza this table	y JMX policies in the Adm	inistration Console, you		ving 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 rstem Status Eathor Status eath of Running Servers as of 11:24 AM	Policies Create Polic Name & Cohere Deploy	To view or modify realm's Authoriza this table	y JMX policies in the Adm	inistration Console, you		ving 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 stem Status plant of Running Servers as of 11:24 AM Failed (0) Critical (0)	Policies Create Polic Create Polic Create Polic Coherce Deploy Coherce Deploy	To view or modify realm's Authoriza this table	y JMX policies in the Adm	inistration Console, you		ving 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 pathor Running Servers as of 11:24 AM Failed (0) Critical (0) Overloaded (0)	Policies Create Polic @ Cohere @ Deploy @ Domai	To view or modify realm's Authoriza this table	y JMX policies in the Adm	inistration Console, you		ving 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 System Status Faleh of Running Servers as of 11:24 AM Critical (0)	Policies Create Polic @ Cohere @ Deploy @ Domai @ JOOM @ JDBC	To view or modifine and the stable	y JMX policies in the Adm	inistration Console, you		ving 1 to 9 of 9 Previous Next



7. Click on JMX Policy Editor to configure

hange Center	🟦 Home Log Out. Preferences 🔄 Record Help					
/iew 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.	JMX Policy Editor					
Lock & Edit	Back Next Create Policy Cancel					
Release Configuration	Select the Policy Scope					
omain Structure IFSLIREL_domain Domain Partitions Environment	 To apply this policy to all instances of an MBean, select GLOBAL SCOPE. To apply this policy only to an MBean instance that is used to manage a specific deployment or resource, select the deployment or resource. Scopes					
Deployments E Services Security Realms	Scope GLOBAL SCOPE					
Interoperability						
Diagnostics	E Deployments					
	H JDBC System Resources					
	H JMS System Resources					
	H WLDF System Resources					
low do I 🖂	Baok Next Create Policy Cancel					
Create JMX policies						
iystem Status 🖂						
Health of Running Servers as of 11:26 AM						
Failed (0) Critical (0) Overloaded (0)						

8. Select 'GLOBAL SCOPE' and click 'Next'.

	III weblogic.security.providers.audit	
	I 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	
	III weblogic.security.providers.authorization	
1	I weblogic.security.providers.credentials	
	⊞ weblogic.security.providers.pk	
	weblogic.security.providers.saml	
	III weblogic.security.providers.xacml.authorization	

9. Select weblogic.security.providers.authentication.



10. Select 'SQLAuthenticatorMBean'. Click 'Next'.

Change Center	Home Log Out Preferences 🐼 Record Help	Q
View changes and restarts		Welcome, weblogic Connected to: OFSLLREL_dom
Click the Lock & Edit button to modify, add or	Home >Summary of Security Realms >myrealm >Realm Roles	>Realm Policies >3MX Policy Editor
delete items in this domain.	JMX Policy Editor	
Release Configuration	Back Next Create Policy Cancel	
Domain Structure	Select Read, Write, or Invoke Privileges	
DFSLLREL_domain Domain Partitions Environment		ites, or specify privileges for invoking an MBean operation.
Environment Deployments Services Services Interoperability	 If you chose a specific MBean type on the previ policy to all attributes or operations. 	s page, you must apply the policy to all attributes or all operations. ous page, you can select a specific attribute or operation or you can apply the
Diagnostics	Selected Scope:	GLOBAL SCOPE
	Selected MBean Type:	SQLAuthenticatorMBean
	Attributes and Operations	
	Attribute or Operation	Existing Policy
How do I	○	
Create JMX policies	○ 🖽 Attributes: Permission to Write	
- or the star points	O 🗉 Encrypted Attributes: Permission to Read	
System Status 🖂	O Encrypted Attributes: Permission to Write	
Health of Running Servers as of 11:30 AM	E Lookup Operations: Permission to Invoke	
Failed (0)	O 🖂 Operations: Permission to Invoke	
Critical (0) Overloaded (0)	addMemberToGroup	
Warning (0)	 advance 	
OK (1)	changeUserPassword	
	O close	
	O close	
	CreateGroup	

- 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.

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 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. Lock & Edit Release Configuration	Edit JMX Policies Save
Domain Structure	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.
OFSLIRE_domain (P: Domain Partitions (P: Environment -> Deployments (P: Service F: Service (P: Interoperability (P: Diagnostics	Providers These are the authorization providers an administrator can select from. Authorization Providers: XACMLAuthorizer Policy Conditions These conditions determine the access control to your JMX resource. Add Conditions Combine Uncombine Move Up Move Down Remove Negate No Policy Specified Add Conditions Combine Uncombine Move Up Move Down Remove Negate Save
How do I • Create JMX policies • Combine conditions	Policy Used By Default Role : Admin
Sustem Status	
System Status Image: Control of Running Servers as of 11:31 AM Pailed (0) Critical (0) Overloaded (0) Warning (0) OK(1) OK(1)	



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

ORACLE WebLogic Server Ad	iministration Console 12c				Q
Change Center	Home Log Out Prefere	ences 💽 Record Help	Q	Welcome, weblogic	Connected to: OFSLLREL_domain
View changes and restarts	Home >Summary of Security	Realms >myrealm >Realm i	Roles >Realm Policies >3MX Polic	cy Editor >Edit JMX Policies	
Click the <i>Lock & Edi</i> t button to modify, add or delete items in this domain. Lock & Edit Release Configuration	Edit JMX Policies Back Next Finish Edit Arguments	Cancel			
Domain Structure	On this page you will fill in	the arguments that pertain	ain to the predicate you have	chosen.	
OFSLIREL_domain (P: Domain Partitions (P: Environment -> Deployments (P: Service (P: Service (P: Interoperability (P: Diagnostics	Add one or more groups to groups. Group Argument Name: Back Next Finish		Add		er is a member of ANY of the
How do I					
Create JMX policies Combine conditions					
System Status	l.				
Health of Running Servers as of 11:33 AM					
Failed (0) Ottocal (0) Overloaded (0) Warning (0) OK (1)					

- 15. Select user roles for application.
- 16. Click 'Finish'. Click 'Save' to complete the configuration. The following window will be displayed.

ORACLE WebLogic Server	Administration Console 12c
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 o 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	enorces the conditions.
OFSLLREL_domain	- Providers
Domain Partitions Environment	These are the authorization providers an administrator can select from.
Deployments El-Services Security Realms	Authorization Providers: XACMLAuthorizer
E Interoperability	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
	Save
How do I	Overridden Policy
Create JMX policies	Role : Admin
Combine conditions	
System Status	
Health of Running Servers as of 11:41 AM	
1.	
Failed (0)	
Critical (0) Overloaded (0)	
Warning (0)	
OK (1)	



4. Configuring Policies

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

- 1. Login to the WebLogic server administration console with user login credentials.
- 2. Browse to Security Realms > myrealm > Providers > Password Validation as shown below. The following window is displayed

		Out Preferences	lacord Hala	Q	Walcome	wablogic	Connected to: OFSLLREL dom		
Change Center		v of Security Realms >m			Welcome,	weblogic	Connected to: Of DEEREE_DOIN		
View changes and restarts			Callin >Providers						
Click the Lock & Edit button to modify, add or delete items in this domain.	Settings for my	Settings for myrealm							
Lock & Edit	Configuration	Users and Groups	Roles and Policies	Credential Mappings	Providers	Migration			
Release Configuration	Authentication	Password Validati	on Authorization	Adjudication Rol	e Mapping Au	diting Cr	redential Mapping		
Domain Structure	Certification Pa	ath							
Pepigyments (f) Services Services Services Security Realms (f) - Interoperability (f) - Diagnostics	criteria establ Customize t Password Va	ished by the compositio	n rules, and the pas	sword is accepted or re	ejected as approp	oriate.	ther the password meets the		
	New Dele	Reorder							
How do T	New Dek	Reorder		Description			Version		
	Name System	PasswordValidator		Description Password compositio	n checks	Cha	Version 1.0		
Configure the Password Validation provider	Name	PasswordValidator		and the second second	n checks	Sho	Version		
Configure the Password Validation provider	Name System	PasswordValidator		and the second second	n checks	Sho	Version 1.0		

3. Click 'SystemPasswordValidator' link. The following window is displayed.

ORACLE WebLogic Serve	er Adminis	stration Console 12c			⊆⊆
Change Center	1 1	Home Log Out Prefe	ences 🐼 Record Help	Q	Welcome, weblogic Connected to: OFSLLREL_doma
View changes and restarts		Home >Summary of Securit	y Realms >myrealm >Providers >SystemPas	swordValidator	
Click the Look & Edit button to modify, add delete items in this domain.	or S	ettings for SystemPass	wordValidator		
Lock & Edit	Configuration				
Release Configuration		Common Provider Sp			
Domain Structure	1	This page displays basic	information about this System Password V	alidation provide	
OFSLIREL_domain (P-Domain Partitions P-Environment Deployments Service Service Service Service 		a Name:	SystemPasswordValidator		The name of this System Password Validation provider. More Info
		Description: Password composition checks P			A short description of the System Password Validator provider. More Info
Diagnostics		and 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	der				
System Status					
Health of Running Servers as of 11:43 AM					
Failed (0) Critical (0) Overloaded (0) Warning (0) OK (1)					

4. Click Provider Specific Tab.



5. Configure the password policy as per the requirement. An example is provided in the following window.

	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 "bue", the password must not contain or be equal to the reverse username. More Info
low do I 🗉	- Password Length Policies		
Configure the Password Validation provider Manage security providers	Minimum Password Length:	8	Specifies the minimum number of characters that the password may contain. Note: If the Default Authentication provider is configured in the realm, make sure that this number is consistent, with the one configured for that
ystem Status			provider, More Info
fealth of Running Servers as of 11:44 AM Failed (0) Critical (0) Overloaded (0)	Maximum Password Length:	0	Specifies the maximum number of characters that the password may contain. To be accepted, the password may not contain a greater number of characters than the value specified. Specifying 0 results in no restriction on password length. None Info
Warning (0)	- Character Policies		
OK (1)	Maximum Instances of Any Character:	2	Specifies the maximum number of times any one character may appear in 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. Hore Info
	Minimum Number of Numeric Characters:	0	Specifies the minimum number of numeric characters that must appear in the pessword. More Info
	Minimum Number of Lower Case Characters:	0	Specifies the minimum number of lowercase characters that a password must contain. More Infa
	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 %, *, #, or }) that a password must contain. More Info
	Save		N

6. Click 'Save'.

4.2 Configuring User Lockout Policy

1. To Change User lockout policy, browse to **Security Realms > myrealm > Configuration** Tab **> User Lockout** Tab. The following window is displayed

Change Center		Home I	log Out Preferences 🛛	Record Help		Q		
View changes and restarts						Welcome,	weblogic C	onnected to: OFSLLREL_don
Click the Lock & Edit button to modify, add o	•	Home >Sun	nmary of Security Realms	>myrealm				
delete items in this domain.		Settings for	myrealm					
Lock & Edit		Configura	tion Users and Group	Roles and Pol	licies Credent	ial Mappings	Providers	Migration
Release Configuration		General	RDBMS Security Store	User Lockout	Performance	i		
Domain Structure		General	Rooms Secondy Store	OBET LOCKOUL	Performance			
OFSLLREL_domain Domain Partitions Domain Partitions		Click the Z	ock & Edit button in th	e Change Center t	o modify the set	tings on this	page.	
Deployments Services Security Realms Interoperability Diagnostics		using vari	guessing is a common t ous combinations of use from intruders. This pag	rnames and passw	vords. Weblogic	Server provid	es a set of at	ots to log in to a computer tributes to protect user s security realm.
		🗹 🛃 Loo	kout Enabled			when		the server locks users out alid login attempts on their fo
		de Locko	ut Threshold:	5		login	attempts that	nber of consecutive invalid t can occur before a user's
How do I	E					accou	nt is locked o	out. More Info
Set user lockout attributes Unlock user accounts		街 Locko	ut Duration:	30			umber of mir d out. More	nutes that a user's account is Info
- enecit and eccentra		a Locko	ut Reset Duration:	5				nutes within which consecutive
System Status	E						ked out. M	pts cause a user's account to pre Info
Health of Running Servers as of 11:50 AM		A Locko	ut Cache Size:	5		The n	naximum nun	nber of invalid login records
Failed (0) Critical (0)				3		that t Info	he server car	place in a cache. More
Overloaded (0)		de Locko	ut GC Threshold:	400				nber of invalid login records
Warning (0) OK (1)								

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



5. Deploying Application

5.1 **Deploying Application**

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

	TO LE ENTERPRISE MANAGER N MIDDLEWARE CONTROL 12c
* User Name * Password	
	ORACLE

2. Click on 'Lock and Edit' as shown below.

OFSLLREL_domain 0					1 -	Auto Refresh	Off		
👫 WebLogic Domain 👻					Edit Session:	5	M IST		
Information Certain functionality on this page is Servers	available only when you own the edit sess Administration Server	ion lock. T	o obtain the lo	ck, click "Lock and Edit" in t	Lock & Edit View Change View & Reso Release Con	lve Conflicts	63		
3 up	Activate Changes Undo All Changes								
	Listen Port 9001				View Restart Checklist				
Clusters	Servers				Preferences				
0 Þ	View 👻 🔡 Create 🔀 Delete	Help							
Clusters	Name	Status	Cluster	Machine	State		Health		
	AdminServer(admin)	+			Running		ок		
Deployments	OFSLL_ManagedServer	1			Running		OK		
1 Up	WS_ManagedServer	1			Running		ок		
Domain Partitions									



3. The following window is displayed.

Administration Server Host ofsilin oracle.com Listen Port 9001 Servers Vew * Create X Delete Control * Er Vew * Create X Delete Control * Er Name AdminServer Host ofsilin oracle.com Listen Port 9001 Servers Vew * Create X Delete Control * Er Vew * Create X Delete X Delet	OFSLLREL_domain 0					🔂 👻 🔛 👻 Aut	to Refresh Off
ee edit session lock has been acquired. No pending changes exist.	WebLogic Domain +					16-Sep-	2017 12:27:37 157
Administration Server 3 up Name Administration Server Host ofsill noracle.com Listen Port 9001 Servers Vew * * Create * Delete Control * ** Vew * ** Create * Delete Control * ** Name Status Cluster Administration Server Administration Server Vew * ** Create ** Delete Vew ** Control * ** Name Status Cluster Administration * Running Administration * Running VS_ManagedServer * Running VS_ManagedServer * Running	Confirmation The edit session lock has been acc	quired. No pending changes exist.					
iters Clusters Listen Port 9001 Servers Vew v 1 Create Notelete Control v IV Name Status Cluster Machine State Health AdminServer(admin) ↑ Running OK OFSLL_ManagedServer ↑ Running OK WS_ManagedServer ↑ Running OK	Servers	Administration Server					
Servers View ▼ 1 Create X Delete Control ▼ E▼ Name Status Cluster Machine State Health AdminServer(admin) ↑ Running OK OFSLL_ManagedServer ↑ Running OK WS_ManagedServer ↑ Running OK	3 up	Host ofsll.in.ora					
Name Status Cluster Machine State Health AdminServer(admin) OFSLL_ManagedServer WS_ManagedServer WS_ManagedServer Name Na	Clusters	Servers					
Name Status Cluster Machine State Health AdminServer(admin) AdminServer(admin) CSL_ManagedServer CSL_ManagedServe	1000 100	View + Create X Delete	Control	* E¥			
1 up OFSLL_ManagedServer ↑ Running OK 1 up WS_ManagedServer ↑ Running OK	Clusters	Name	Status	Cluster	Machine	State	Health
1 up WS_ManagedServer Running OK		AdminServer(admin)	+			Running	ок
1 up nain Partitions	Deployments	OFSLL_ManagedServer	+			Running	ок
ain Partitions		WS_ManagedServer	+			Running	OK
	Deployments	OFSLL_ManagedServer	1			Running	OK
	Domain Partitions						
	Domain Partitions						

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

DRACLE' Enterpris	e Ma	anager Fus	sion Middleware (Control 12c				1 A	VebLogic Domain 👻	weblogic *
OFSLLREL_domain ()										Refresh Off
Confirmation The edit session lock has been	acqu	iired. No per	nding changes e	exist.						
Servers		Deploym	ents							
	ь	View +	Show All	Deployment + Override		Contro	w.			
3 Up	1		Name	1 Deploy	N	Status	State	Health	Туре	Domain Pa
			opss-rest	🖹 Redeploy	23	+	Active	OK	Web Application	
Clusters O Clusters	÷			土, Fetch Deployment Plan]				
Deployments										
Domain Partitions										
Domain Partitions	Þ									
Resource Group Templates		<								>



5. Click 'Choose File' button and select OFSLL application archive file i.e. ofsll_1410.ear. Choose the 'Deployment Plan' (if any).

FSLLREL_domain	0								
Select Archive	Select Target	0	O Dealerment Cation						
Select Archive	Select larget	Application Attributes	Deployment Setting	1					
Deploy Ja						Back	Step 1 of 4	Next	Cance
Scope Select a scope that you	want to deploy this app	lication to Global 🗸				U	Informations that page to polications that	deploy J	
JDBC Modules, JMS M	Modules (WAR files), E odules, and library files			lules (RAR files), Coherence A exploded archive that is preser		M ta	letadata Servio ske advantage o pplication Deve ramework (Ora	es (MDS) of the Ora lopment) or that acle
where Enterprise Mana	ger is running. nachin <mark>e</mark> where this Web	Archive				d	your applicatio omposite, use t eployment wiza your applicatio	he SOA (ird.	Compos
Choose File] o		rver where Enterprise Mana	ager is running.			CI N CI Y	omposite or it d IDS repository o onnections, the our application r the Oracle We	oes not r or ADF n you car using this	equire n deplo s wizaro
					Browse		dministration C		
application. Later in the to not have a deploym leploymet plan is not a O Create a new dep	deployment process, yent plan, one will be cre pplicable when you dep loyment plan when depl	ou can optionally edit the d ated automatically during th	eployment plan and save te deployment process w te.	a previously saved deployment it for a future deployment of thi nen deployment configuration i	s application. If yo	JU .			
Choose File N	o file chosen								
	s on the server where E	nterprise Manager is runni	ng,						
O Deployment plan i									

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

	<pre>nlns="http://xmlns.oracle.com/weblogic/deployment-plan" xmlns:xsi="http://www.w3.org/2001/XMLSc</pre>
	<pre>>>ofsllrel</pre>
<variable-defini< td=""><td>tion></td></variable-defini<>	tion>
<variable></variable>	
	<pre>sllrel_contextRoot</pre>
<value>ofsll</value>	rel
<td></td>	
<module-override:< td=""><td></td></module-override:<>	
	fsllrel.ear
	ar
	ptor external="false">
	t>weblogic-application
	F/weblogic-application.xml
<td></td>	
<module-descrip< td=""><td>ptor external="false"></td></module-descrip<>	ptor external="false">
	t>application
	F/application.xml
<variable-as< td=""><td></td></variable-as<>	
	ofsllrel_contextRoot
<xpath>/app</xpath>	plication/module/web/[context-root="ofsllrel"]/context-root
<operation:< td=""><td><pre>>replace</pre></td></operation:<>	<pre>>replace</pre>
<td></td>	
<td>iptor></td>	iptor>
<module-descrip< td=""><td>ptor external="true"></td></module-descrip<>	ptor external="true">
<root-elemen< td=""><td>t>wldf-resource</td></root-elemen<>	t>wldf-resource
<uri>META-IN</uri>	F/weblogic-diagnostics.xml
<td>iptor></td>	iptor>
<td>=></td>	=>
<module-override:< td=""><td>></td></module-override:<>	>
<module-name>o</module-name>	fsllrel.war
<module-type>wa</module-type>	ar
<module-descrip< td=""><td>ptor external="false"></td></module-descrip<>	ptor external="false">
<root-elemen< td=""><td>t>weblogic-web-app</td></root-elemen<>	t>weblogic-web-app
<uri>WEB-INF</uri>	/weblogic.xml
<td>iptor></td>	iptor>
<module-descrip< td=""><td>ptor external="false"></td></module-descrip<>	ptor external="false">
<root-elemen< td=""><td>t>web-app</td></root-elemen<>	t>web-app
<uri>WEB-INF</uri>	/web.xml
<td>iptor></td>	iptor>
<td></td>	
<module-override:< td=""><td>></td></module-override:<>	>
<module-name>en</module-name>	mpty.jar
<module-type>c</module-type>	ar
<module-descrip< td=""><td>ptor external="true"></td></module-descrip<>	ptor external="true">
<root-elemen< td=""><td>t>weblogic-application-client</td></root-elemen<>	t>weblogic-application-client
<uri>META-IN</uri>	<pre>F/weblogic-application-client.xml</pre>
<td>iptor></td>	iptor>
<module-descrip< td=""><td>ptor external="false"></td></module-descrip<>	ptor external="false">
<root-elemen< td=""><td>t>application-client</td></root-elemen<>	t>application-client
<uri>META-IN</uri>	F/application-client.xml
<td>iptor></td>	iptor>
<module-descrip <root-elemen <uri>META-IN</uri></root-elemen </module-descrip 	<pre>boor external="false"> t>application-client f/application-client.xml iptor></pre>

6. Click 'Next'. The following window is displayed.

Select Arch	hive Select Target Appl	ication Attributes Deployment Settings					
eploy Ja	ava EE Application: Select	Target		Back	Step 2 of 4	Next	Cance
Select the	WebLogic server or cluster that you wa	nt this application to be deployed to.	Deployed Appli	cations			
	AdminServer	Oracle WebLogic Server	00				
	OFSLL_ManagedServer	Oracle WebLogic Server					
	WS_ManagedServer	Oracle WebLogic Server	00				
	vva_wanagedaeive	orace vectors server					



7. Check target server as per the requirement 'OFSLL_ManagedServer' and click 'Next'. The following window is displayed.

FSLLREL_domain 1		
0		
Select Archive Select	Farget Application Deployment Settin Attributes	gs
Deploy Ja		Back Step 3 of 4 Next Deploy Can
Hide Deployment Summary		
Archive Type	Java EE Application (EAR file)	
Deployment Plan	Create a new plan	
Deployment Target	OFSLL_ManagedServer	
Scope	Global	
Deployment Type	Application	
* Application Name	ofsil1410	
Archive Version	V14.10.0.0-b156	
Deployment Plan Version		
Context Root of Web Modules		
Web Module	Context Root	
weblwodule		

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

FSLLREL_domain					
Select Archive	Select Target Ap	Dipation Deployment Settings			
	Metadata Repositories	TRAITES	×		
Deploy Ja	Select the metadata repository th	at the application will be deployed to.	xt	Deploy	Cano
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 PI:	Database User	OLL_MDS			
	JDBC URL	jdbc:oracle:thin:@whf00ake.in.oracle.com:1521/OLLMDR			
Context Root of Web					
Web Module					
ofsli1410.war					
Farget Metadata Repo			OK Cancel		
	tory and specify the partition in the	repository that the application will be deployed to.			
* Repository Nam	e mds-adf 🥖				
Repository Typ	e Database				



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

FSLLREL_dom	ain 🚺												
0		0											
Select Archive		Select Target	Application Attributes	D	eployment S	Settings							
Deploy Ja									Back	Step 3 of 4	Next	Deploy	Cance
Context Root of	Web Mo	dules											
Web Module		Context Ro	ot										
ofsll1410.war		ofsli1410											
Select the metadata * Repositor	repository	and specify the part	ition in the repository tha	at the a	p <mark>pl</mark> ication wi	vill be deployer	ed to.						
* Repositor Reposito	y Name in	and specify the part nds-adf Database	ition in the repository tha	at the a	p <mark>pl</mark> ication wi	vill be deployer	ed to.						
elect the metadata * Repositor Reposito * P	y Name n	and specify the part nds-adf Database	tion in the repository tha	at the a	pplication w	vill be deployer	ed to.						
Select the metadata * Repositor Reposito	y Name n	and specify the part nds-adf Database ofsil1410	tion in the repository tha				ed to.						
Select the metadata * Repositor Reposito * P	y Name n	and specify the part nds-adf // Database ofsil1410 () Install a () Install	ind start application (sen	vicing a	all requests))		tion requests)				
Select the metadata * Repositor Reposito * P	y Name n	and specify the part nds-adf // Database ofsil1410 () Install a () Install	and start application (serv	vicing a	all requests))		tion requests)				
Repositor Repositor Reposito * P	repository y Name n ny Type Partition	and specify the part nds-adf // Database ofsil1410 () Install a () Install	ind start application (sen	vicing a	all requests))		tion requests	;)				
elect the metadata * Repositor Reposito * P Distribution	repository y Name n ory Type Partition	and specify the part nds-adf // Database ofsil1410 () Install a () Install a () Install a	ind start application (sen	vicing a	all requests) ration mode) e (servicing on		tion requests	i)				
Repositor Repositor Reposito Poistribution	repository y Name n ny Type Partition 18	and specify the part nds-adf Database ofsil1410 Install a Install a Install a Install a	ind start application (sen ind start application in ac inly. Do not start.	vicing a dminist	all requests) ration mode) a (servicing on selection.	nly administra			o which the a	pplication	is targeted.	

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

SLLREL_domain 🕕													
0 0		0											
Select Archive Select	Target Applica	tion Attributes	Dep	oloyment	Settings								
eploy Ja									Back	Step 4 of 4	Next	Deploy	Cano
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	ofsll1410												
Version	V14.10.0.0.0-b158												
Context Root	ofsII1410												
Deployment Mode	Install and start applic	ation (servicing	all requ	uests)									
Deployment Tasks													
The table below lists common tasks	that you may wish to d	o before deploy	ing the	applicatio	n.								
Name	Go To Task	Description	n										
Configure Web Modules	/	Configure t											
Configure Application Security	/	Configure a	pplicati	on policy	migration, o	redential m	igration and	d other se	curity b	ehavior.			
Deployment Plan													
Information													



11. Click 'Deploy'. The following window is displayed

LREL_domain 🕕			
Deployment S		·	
Beproyment s	cceeded		
Deployment of Appli activate or undo the		nges are pending activation. Exit the wizard and use the Change Center to	
Summary			
H Sco	e Global		
Versi	V14.10.0.0-b156		
	e /u01/Middleware/Weblogic12cHome/user_projects/d b156/archive/ofsll_1410.ear	lomains/OFSLLREL_domain/sysman/upload/deploy/ofsll1410_V14.10.0.0-	
Archive Ty	 Java EE Application (EAR file) 		
Deployment Mo	Install and start application (servicing all requests)		
Deployment Targ	t OFSLL_ManagedServer		
Application Stat	s Unavailable (OFSLL_ManagedServer)		
Context Ro	t ofsll1410		
Hide Progress	essages		
December 1, ofsil1410_V14 December 1, ofsil1410_V14 December 1, completed. It December 1, task processir December 1,	0.0.0.0-b158/archive?ofsll_1410.ear 220 10:41:38 PM IST] Targeting MDS repository: com.b 220 10:41:38 PM IST] Targeting MDS repository: com.b	jic122-type=JDBCSystemResource.Name=mds-adf to traget OFSLL_ManagedServer. ea.Type=JDBCSystemResource.Name=mds-adf to target OFSLL_ManagedServer. ea.Type=JDBCSystemResource.Name=mds-adf to target OFSLL_ManagedServer of be processed further until the current edit session is activated. When this occurs,	
nt			
nt L			
c I		Cie	ose

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



6. Enabling SSL

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

To enable SSL

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

Configuration button to allow others to edit the domain.	Settings for	OFSLL_Manag	jedServer							
Lock & Edit	Configurati	on Protocols	Logging	Debug	Monitoring	Control	Deployme	nts Services	Security	Notes
Release Configuration	General	Cluster Serv	ices Keys	tores SS	L Federatio	n Services	Deployme	nt Migration	Tuning	Overload
Domain Structure	Concurrency	Health Mor	itoring Se	erver Start	Web Servic	es Cohe	rence			
DFSLLREL_domain - Domain Partitions - Environment	Save									
Deployments Services Security Realms Theroperability	Use this pa View JNDI	ge to configure Tree 🕼	general fea	tures of this	server such a	as default n	etwork comr	nunications.		
🕀 Diagnostics	Name:		OFSL	.L_Manageo	Server		An a Info		me for this	server instance. More
	Template:		(No	alue specif	ied) Change	I	The Info		to configure	this server. More
How do I 🖂	街 Machin	21	(Non	e)			The whice	WebLogic Serve h this server is	er host com meant to ru	puter (machine) on n. More Info
Configure default network connections Create and configure machines	街 Cluster		(Star	d-Alone)			The	cluster, or grou h this server be	p of WebLo longs, Mo	gic Server instances, to re Info
Configure clusters Start and stop servers Configure WLDF diagnostic volume	🚮 Listen /	ddress:					for i	coming connect	tions. For e	is server uses to listen xample, enter ctively. More Info
Apply a server template System Status	🗹 Listen P	ort Enabled						default plain-tex		n be reached through listen port. More
Health of Running Servers as of 1:22 PM Failed (0)	Listen Port		900	13			The regu Info	default TCP por lar (non-SSL) ir 	t that this s coming con	erver uses to listen for nections, More
Critical (0) Overloaded (0) Warning (0)	SSL List	en Port Enab	ed					ates whether ti lefault SSL liste		n be reached through re Info
ОК (3)	SSL Listen	Port:	950	3				TCP/IP port at ection requests		erver listens for SSL o
	🗌 륝 Clier	nt Cert Proxy	Enabled				Spec	ifies whether th t certificate in a	e HttpClust special hea	erServlet proxies the der. More Info

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

Note

It is recommended to disable http protocol.



7. 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.

	FSLLREL_domain 0					🎦 👻 🖂 👻	Auto Refresh	Off	- 03
	WebLogic Domain 👻					0	2-May-2018 08:44	25 EDT	*
Info	Home								1
Cert	Monitoring) P	n you own the edit session lock. To o	otain the lock	, click "Lock and Ed	t" in the Change Cente	r menu.		
Serve	Diagnostics	*	n Server						
	Control	P.							
	Logs		Name AdminServer						
	Environment	Þ	Security Realms						
-	Deployments		Security Administration						
Clust	JDBC Data Sources		Web Service Security						
	Messaging		Application Policies	- E7					
	Cross Component Wiring	-	Application Roles		Machine	State		Health	
	Web Services	+	System Policies	luster	Machine	State		Health	KCO.
1.12	Other Services	ъ	Security Provider Configuration			Running		OK	
Deplo	Administration		Audit Registration and Policy			Running		OK	
	Refresh WebLogic Domain		Credentials			Running		OK	
	Security	*	Keystore						
	JNDI Browser								
Doma	System MBean Browser								
- Provide -	WebLogic Server Administration Console								
	Target Sitemap								
200	Target Information								

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

	terprise mana	ager Fusion Middleware Control 12	c WebLogic Domain + weblogic +	
CFSLLREL_dom			Dec 1, 2020 10:49:27 PM	IST 숙
Domain_OFSLLREL_domain	OFSLLREL_dom	nain > Application Roles		
pplication Roles				
pplication roles are the roles registered. These are also	used by security application roles	aware applications that are specific t that are created in the context of end	o the application. These roles are seeded by applications in single global policy store when the appli d users accessing the application.	cations
Policy Store Provider				
J Search				
	d enter a search k	keyword for the role name to search	for roles defined by this application.	
Application Stripe				
Role Name	Starts With 🗙		Þ	
View 👻 🎽 Create	Create Li	ike 🧪 Edit 💥 Delete	EF init De	etach
				-
	Di	splay Name	Description	
Role Name				



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

DRACLE	nterprise Man	ager Fusion Middleware	Control 12c	🎇 WebLogic Domain 👻	weblogic *
OFSLLREL_do				Dec 1, 20	20 10:49:27 PM IST
Domain_OFSLLREL_doma	in/OFSLLREL_dom	nain > Application Roles			
Application Roles					
pplication roles are the role re registered. These are al	es used by security so application roles	aware applications that a that are created in the co	re specific to the application. These roles are sentext of end users accessing the application.	eded by applications in single global policy store	when the application
Policy Store Provider					
A Search					
	and enter a search	keyword for the role nam	e to search for roles defined by this application.		
Application Strip	e ofsll1410#V14.1	10.0.0.0-6156 🗸			
			—		
Role Nam	e Starts With 🗸				
View 👻 🎽 Create	Create L	ike 🖋 Edit 🕽	Colete		🖙 🔛 Detach
1					
Role Name		Display Name	Description		
OFSLL_USER		OFSLL USER			
Membership for	OFSLL_USER	ł			
Principal	Display Name	e Type	Description		
		User			

6. Click 'Edit'. The following window is displayed.

Edit Application Role Role (or Enterprise Role) is the g General	SLLREL_domain > Application Roles > Edit Application Role	assign a privilege or permission. A role can		ок	IST 👈 Cancel
Edit Application Role Role (or Enterprise Role) is the g General Application Stripe ofsl1410#	: OFSLL_USER oup of users designed at the enterprise level and typically used to	assign a privilege or permission. A role can			Cancel
Role (or Enterprise Role) is the g General Application Stripe ofsil1410#	oup of users designed at the enterprise level and typically used to	assign a privilege or permission. A role can			Cancel
Role (or Enterprise Role) is the g General Application Stripe ofsil1410#	oup of users designed at the enterprise level and typically used to	assign a privilege or permission. A role can	also contain other roles as men	nbers.	
Application Stripe ofsll1410#	14.10.0.0.0-b158				
Stripe	14.10.0.0.0-b158				
Role Name OFSLL_US					
	ER				
Display Name OFSLL US	R				
Description					
Description					
View + Add X I	elete 🧃 Detach	Display Name	Type		
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.

Specify criteria to search and	select the application roles	that you want to grant permise	sions to.		
A Search					
	Type Gro	up 🚩			
	Principal Name Star	ts With			
	Display Name Star	ts With	•		
Searched Principals					
View 👻 🔝 Detach					
Principal	Display Name	Description			
No search conducted					
Advanced Option Check to enter principal	I name here instead of searc	hing from above. This option (can be used for advanced sce	narios related to custom authenticato	5.

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

	dd Principal										
	pecify criteria to search and se	lect the application	roles that you	want to g	grant permissions	s to.					1
1	Search										
		Туре	Group	\sim							
		Principal Name									
		Principal Name	Starts With	~							
		Display Name	Starts With	-		•					
	earched Principals		-	_							
36	2000										
100	View 👻 🔚 Detach										
	Principal	Display Name	e -	Descrip	otion						
	AdminChannelUsers				hannelUsers can						
	Administrators			Administr	trators can view a	and modify all r	resource attribute	s and start and sto	p servers.		
	AppTesters				ers group.						
	CrossDomainConnectors							m foreign domains	5.		
	Deployers						es and deploy ap				
	Monitors							perform operation:			
	Operators					and the second second		d perform server lif	fecycle operati	ons.	
	OracleSystemGroup			Oracle ap	pplication softwa	re system grou	up.				
1	Advanced Option										
F	Check to enter principal na	me here instead of	searching fro	m abc Er	nter 256 or fewe	er characters.	inced scenarios	related to custom	authenticators	5.2	
			-	h			_				1
1	ype Group Y Principa	Name OFSLL_U	JSER	×							-
									OK	Cancel	



10. Click 'OK'.

			main v weblogic v 🚥
omain_OFSLLREL_do	Domain w		Dec 1, 2020 10:52:02 PM IST 🕎
			Dec 1, 2020 10:52:02 PM IST
dit Application	omain/OFSLLREL_domain > Application Roles > Edit Applic	ation Role	
	n Role : OFSLL_USER		OK Cancel
ole (or Enterprise Role)) is the group of users designed at the enterprise level and t	ypically used to assign a privilege or permission. A role can also contain of	ner roles as members.
eneral			
Application Stripe ofs	ill1410#√14.10.0.0.0-b156		
Role Name OF	SLL_USER		
Display Name OF	SLL USER		
Description			
Description		8	
n application role may r View 👻 🕂 Add	need to be mapped to users or groups defined in enterprise Compared to users or groups defined in enterprise Detach	LDAP server, or the role can be mapped to other application roles.	
Name		Display Name	Туре
Hame			
DEMOSUPR			User

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

DIVIALLE	Enterprise Mana	ager Fusion Middleware Co	ntrol 12c	WebLogic Domain 👻 🛛 weblogic 👻
OFSLLREL_				Dec 1, 2020 10:54:15 PM IST
Information An application rol	le OF SLL_USER has b	been updated.		
Domain OFSLLREL do	omain/OFSLLREL_dom	nain > Application Roles		
Application Rol	les			
Application roles are the are registered. These are Policy Store Provid Search	e also application roles	aware applications that are s that are created in the conte	peoific to the application. These roles are seeded t of end users accessing the application.	by applications in single global policy store when the application
	ipe and enter a search	keyword for the role name to	search for roles defined by this application.	
	tripe ofsl11410#V14.1		action for roles denined by this approach.	
Role N	lame Starts With 🗸		•	
View 👻 🍟 Creat	te 🛛 🖹 Create L	ike 🧪 Edit 🗙 🛙	elete	🖙 📰 Detach
1				
Role Name		Display Name	Description	
OFSLL_USER		OFSLL USER		
Membership f	or OFSLL_USER	ł		
Principal	Display Name	Type	Description	
		Group		
OFSLL_USER		User		



- 8. Configuring JNDI name for HTTP Listener
- 1. Click 'WebLogic Domain' on the right panel. Select Security > Credentials.

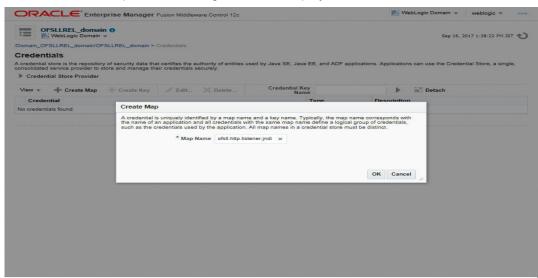
	ACLE [®] Enterprise Manager Fusi					0	to Refresh Off
	DFSLLREL_domain ()						
	🚡 WebLogic Domain 👻					Sep 16, 2	017 1:36:47 PM IST
D Infc Cert	Home Monitoring	, e	n you own the edit session lock. To o	btain the loc	k, click "Lock and Ed	it" in the Change Center me	nu.
Serve	Diagnostics Control Logs	+ D	n Server Name AdminServer				
Clust	Environment Deployments JDBC Data Sources	•	Security Realms Security Administration Web Service Security				
	Messaging	Þ	Application Policies	Ey			
	Cross Component Wiring Web Services	*	System Policies	uster	Machine	State	Health
25 12	Other Services	Þ	Security Provider Configuration			Running	ок
Deplo	Administration		Audit Registration and Policy			Running	OK
	Refresh WebLogic Domain		Credentials			Running	OK
	Security		Keystore 43				
Doma	JNDI Browser System MBean Browser & WebLogic Server Administration Console						
	Target Sitemap Target Information						,
rver	aonice oronb tembrates)

2. Click 'Credentials'. The following window is displayed.

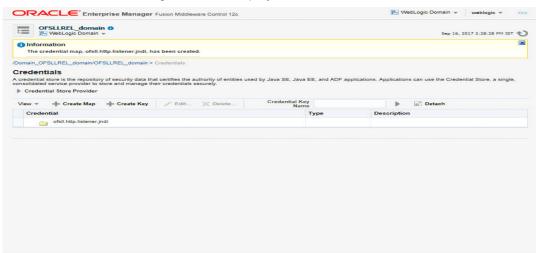
ORACLE Enterprise Manager Fusion Middleware Control 120		👫 WebLogic Domain 👻	weblogic +
CFSLLREL_domain •		Sep 16.	2017 1:38:22 PM IST
Domain_OFSLLREL_domain/OFSLLREL_domain > Credentials			
Gredentials			
A credential store is the repository of security data that certifies the authority of entities up	ed by Java SE, Java EE, and ADF a	pplications. Applications can use the Crede	ential Store, a single.
	ed by Java SE, Java EE, and ADF a	pplications. Applications can use the Crede	ential Store, a single.
A credential store is the repository of security data that certifies the authority of entities us consolidated service provider to store and manage their credentials securely.	ed by Java SE, Java EE, and ADF a Credential Key Name	pplications. Applications can use the Crede	ential Store, a single,
A condential store is the repository of security data that certifies the authority of entities us consolidated service provider to store and manage their credentials securely.	Credential Key		ential Store, a single,
A ordential store is the repository of security data that certifies the authority of entities un consolidated service provider to store and manage their credentials securely. Credential Store Provider View	Credential Key Name	► 🔤 Detach	ential Store, a single,
A creatential store is the repositiony of security data that certifies the authority of entities un consolicitated service provider to sfore and manage their ordentials securely. Fordential Store Provider View Create Man Create Key Edit Delete	Credential Key Name	► 🔤 Detach	ential Store, a single,



3. Click 'Create Map'. The following window is displayed.



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



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

	Manager Fusion Mid	dleware Control 12c	WebLogic Domain 👻 weblogic 👻	1000
CFSLLREL_domain VebLogic Domain			Sep 16, 2017 2:28:28 PM	IST Đ
/Domain_OFSLLREL_domain/OFSLLRE	L_domain > Credentials			
Credentials				
A credential store is the repository of sec consolidated service provider to s	curity data that certifies the	e authority of entities used by Java SE, Java EE,	and ADF applications. Applications can use the Credential Store, a sin	gle,
Crea	Create Key		×	
View - + Create Map	Select Map	ofsll.http.listener.jndi 🚩	sh	
Credential	* Key			
ofsli.http.listener.jr		Password		
	* User Name			
	* Password			
	* Confirm Password			
	Description			
			OK Cancel	



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

WebLogic Domain +				Sep 16, 2017 2:28:28 PM IST 4
Information The credential map, ofsll.http	listener.jndi, has been cre	ated.		
omain_OFSLLREL_domain/OF ^{orm} C	reate Key		×	
credential store is the repositon nsolidated service provider to s	Select Map	ofsll. http. listener. jndi	-	e Credential Store, a single,
Credential Store Provider	* Key	jndiname		
/iew + + Create Map	Туре	Generic 🔽		h
Credential	Description			
ofsll.http.listener.jr				
		Enter as text. Enter map of property name and value pairs		
	* Credential	java:comp/env/jdbc/ofslIDBConnDS		
			_	
			OK Cancel	

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

					264	ebLogic Domain 👻	weblogic *	3
OF5LLREL_domain ()						Sep 16, 3	2017 2:28:28 PM 1	st 1
1 Information								J
The credential key, jndiname, has been c	reated.							
omain_OFSLLREL_domain/OFSLLREL_doma	in > Credentials							
redentials redential store is the repository of security dat. noolidated service provider to store and manage C Credential Store Provider	a that certifies the authority of entities us e their credentials securely.	ed by Java SE, Java EE	, and ADF ap	plications. App	lication	s can use the Crede	ntial Store, a sing	le,
view 👻 🕂 Create Map 🕂 Create Ke	y / Edit 💥 Delete	Credential Key Name			•	E Detach		
Credential		Ту	pe	Desc	ription	•7);		
ofsll.http.listener.jndi								



9. 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

Note

Ensure that MDB EJB is not configured and deployed (i.e. OfsllQueueApp.ear deployment) on the same server on which the other WebServices are deployed.

9.1 Create Data Sources for JMS Queue

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



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

Change Center	🙆 Home Log Out Preferences 🔤	Record Help	2				
View changes and restarts		Welco	me, weblogic Connected to: OFSLLREL_dom				
Click the Lock & Edit button to modify, add or	Home						
delete items in this domain.	Home Page						
Lock & Edit	- Information and Resources						
Release Configuration		General Information					
Domain Structure	Helpful Tools Configure applications	Common Administration Task De					
OFSLLREL domain	Configure applications Configure GridLink for RAC Data	 Common Administration Task De Read the documentation 	scriptions				
Domain Partitions	 Configure GridLink for RAC Data Source 	Ask a guestion on My Oracle Sup	sport				
Environment	Configure a Dynamic Cluster	- Fox a question on my oracle sop	per s				
Deployments Services	Recent Task Status Set your console preferences						
Security Realms							
Interoperability Diagnostics	Oracle Enterprise Manager	Oracle Enterprise Manager					
al biagnosada	- Domain Configurations						
	Domain	Resource Group Templates	Interoperability				
	Domain	Resource Group Templates	WTC Servers				
			Jolt Connection Pools				
How do I	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	Environment	 Deployments 	Built-in Diagnostic Modules				
Change Console preferences	Servers		Diagnostic Images Request Performance				
Manage Console extensions Monitor servers	Clusters Server Templates	Services	Request Performance Archives				
Monitor servers	 Server Templates Migratable Targets 	Messaging 1MS Servers	Archives Context				
System Status	Coherence Clusters	 JMS Servers Store-and-Forward 	SNMP				
Health of Running Servers as of 11:23 AM	Coherence Clusters Machines	 Store-and-Forward Agents 	Interceptors				
	Machines Virtual Hosts	JMS Modules					
Failed (0)	Virtual Hosts Virtual Targets	Path Services	Charts and Graphs				
Critical (0)	Wash Massage	 Bridges 	· Manitoring Dathbaard 19				

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

Change Center	Ho Ho	me Log Où	t Preferences 🚵	Record Help	<u>Q</u>				
View changes and restarts					Nelcome, weblogic Connected to: OFSLLREL_doma				
Click the Lock & Edit button to modify, add or	Home	Home >Summary of JDBC Data Sources							
delete items in this domain.	Summa	ary of JDBC	C Data Sources						
Lock & Edit	Confie	guration	Monitoring						
Release Configuration									
omain Structure	AJD	BC data sou	irce is an object bou	nd to the JNDI tree that provides	database connectivity through a pool of JDBC				
FSLLREL_domain	conn		plications can look u	p a data source on the JNDI tree a	and then borrow a database connection from a data				
Domain Partitions									
	This	page summ	arizes the JDBC dat	a source objects that have been c	reated in this domain.				
- Services									
H-Messaging	Cust	tomize this	table						
-Data Sources	20.0	22 22							
Persistent Stores			Filtered - More Co						
Foreign JNDI Providers	Click	the Lock &	Edit button in the	Change Center to activate all the b	outtons on this page.				
XML Registries	Dates	New - Delete Showing 1 to 9 of 9 Previous Next							
-XML Entity Caches	Liver	wind Inverse	ve		Showing 1 to 9 or 9 Previous Next				
jCOM ····································		Name 🚕	Тур	3NDI Name	Targets				
	i 🗖	AQ-JMS-DE	Gene	ric jdbc/aqjmsdb	OFSLL_ManagedServer				
ow do I			and the second	A DESCRIPTION AND ADDRESS	une sa le				
		Jdbc/dbk10	SnlEJBDS Gene	ric jdbc/dbk105nlEJBDS	WS_ManagedServer				
Create JDBC generic data sources				ric jdbc/dbk105nlEJBD5 ric jdbc/LocalSvcTblDataSource	AdminServer				
Create JDBC generic data sources Create JDBC GridLink data sources			DataSource Gene						
Create JDBC generic data sources Create JDBC GridLink data sources Create JDBC multi data sources		LocalSvcTb	lDataSource Gene Gene	ric jdbc/LocalSvcTblDataSource	AdminServer				
Create JDBC generic data sources Create JDBC GridLink data sources Create JDBC multi data sources Create UCP data sources		LocalSvcTb mds-adf	IDataSource Gene Gene Gene	ric jdbc/LocalSvcTblDataSource ric jdbc/mds/adf	AdminServer AdminServer, OFSLL_ManagedServer				
Create JDBC generic data sources Create JDBC GridLink data sources Create JDBC multi data sources Create UCP data sources Create Proxy data sources System Status		LocalSvcTb mds-adf OFSLL	IDataSource Gene Gene Gene DBDS Gene	ric jdbc/LocalSvcTblDataSource ric jdbc/mds/adf ric jdbc/ofsllDBConnDS	AdminServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer,				
Create JDBC generic data sources Create JDBC GridLink data sources Create JDBC multi data sources Create UCP data sources Create Proxy data sources ystem Status		LocalSvcTb mds-adf OFSLL opss-audit-	IDataSource Gene Gene Gene DBDS Gene viewDS Gene	i jdbc/LocalSvcTblDataSource i jdbc/mds/adf i jdbc/ofsllDBConnDS i jdbc/AuditAppendDataSource	AdminServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer AdminServer, OFSLL_ManagedServer,				
Create JDBC generic data sources Create JDBC GridLink data sources Create JDBC multi data sources Create UCP data sources Create Proxy data sources		LocalSvcTb mds-adf OFSLL opss-audit- opss-audit-	IDataSource Gene Gene DBDS Gene viewDS Gene source Gene	ric jdbc/LocalSvcTblDataSource jdbc/mds/adf ric jdbc/ofsllDBConnDS ric jdbc/AuditAppendDataSource ric jdbc/AuditViewDataSource	AdminServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer, OFSLL_ManagedServer,				



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

Welcome, weblogic Connected to: OFSLLREL, Configuration No panding changes exist. Click the Release Configuration Configuration Lock & Edit Configuration Domain Structure OSSLIREL, domain Openain Partitions Partitions Partitions One Sources One Sources One Sources Openain Partitions Partitions Openain Partitio	Change Center		Home Log	Out Preference	es 🚵 Re	cord Help	Q			
No parting charges sold. Click the keese configuration Summary of JDBC Data Sources Configuration Monitoring A JDBC data source is an object bound to the JNDI tree that provides database connectivity through a pool of JDBC connections. Applications can look up a data source on the JNDI tree and then borrow a database connectivity through a pool of JDBC connections. Applications can look up a data source objects that have been created in this domain. Portices Portices Providers Portices Providers Portices Portices <td>View changes and restarts</td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>Velcome, weblogic Connected to: OFSLI</td> <td>REL_do</td>	View changes and restarts					1	Velcome, weblogic Connected to: OFSLI	REL_do		
domain. Look & Edit Release Configuration A JDBC data Sources Domain Structure Configuration Obmain Structure A JDBC data source is an object bound to the JNDI tree that provides database connectivity through a pool of JDBC connections, Applications can look up a data source on the JNDI tree and then borrow a database connection from a database connection. Applications can look up a data source objects that have been created in this domain. Openain Bartitions This page summarizes the JDBC data source objects that have been created in this domain. Deployments Openains Orreling JNDI Providers Showing 1 to 9 of 9. Previous [Work Contexts Showing 1 to 9 of 9. Previous [Mode Contexts Showing 1 to 9 of 9. Previous [Generic Jabb Condition data sources Generic jabbc/agimsdb OFSLL_ManagedServer Proxy Data Source Generic jabbc/ofsIDBConnD5 AdminServer, OFSLL_ManagedServer Oresta JDBC Guidlik data sources OFSLL Generic jabbc/ofsIDBConnD5 AdminServer, OFSLL_ManagedServer, WS_ManagedServer, WS_Man			Home >Summary of JDBC Data Sources							
Release Configuration Domain Structure Optionain Partitions B-Domain Partitions B-Densin Partitions B-Densin Partitions B-Densin Partitions B-Massaging Data Sources Partitions Work Contexts Multi Data Sources (Filtered - More Columns Exist) New O Disting Nulli Registries Showing 1 to 9 of 9 Previous [Generic Data Sources (Filtered - More Columns Exist) Nulli Data Sources (Gridlink Data Sources) (Create DBC Gridlink data sources) (Create DBC Gridlink data sources) (Create DBC Gridlink data sources) (Crea		the	Summary of JD	BC Data Sou	rces					
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Domain Structure connections. Applications can look up a data source on the JNDI tree and then borrow a database connection from a database connection. Applications can look up a data source objects that have been created in this domain. OFSLLREL_domain	Release Configuration		-							
OFSLLREL_domain P-Domain Partitions P-Domain Partitions P-Deployments Deployments P-Services P-Messaging Data Sources Pervisionment Positions P-Services P-Oreign JNDI Providers -Work Contexts -Work Contexts -Will Registries -Work Contexts -Context DBC generic data sources - Create DBC GridLink data sources - Create DBC GridLink data sources <			A JDBC data :	source is an ob	ject bound	to the JNDI tree that provides	database connectivity through a pool of JDB	C		
B-Domain Partitions B-Deployments Deployments B-Services B-Messaging Data Sources Persions Portional Partitions B-Messaging Data Sources Persions Persions Work Contexts Work Contexts Multi Data Sources Contexts Multi Data Source Generic jdbc/aginsdb OFSLL_ManagedServer Proxy Data Sources Create JDBC GridLink data sources Create JDBC multi data sources Create JDBC multi data sources Create JDBC multi data sources Create DBC multi data sources Create IDBC multi data sources Create Proxy data sources Opsi-data-source Generic jdbc/datiAppendDataSource Opsi-data-source Generic jdbc/doublataSource Opsi-data-source Generic jdbc/dbc/opsiDataSource Opsi-data-source Generic jdbc/dbc/opsiDataSource Multi Data Sources Opsi-data-source Opsi-data-source Generic jdbc/dbc/opsiDataSource ManingedSeriver OpsiL_Man				Applications ca	in look up a	data source on the short tiee i	and then borrow a database connection from			
Fervironment Deployments Deta Sources Persistant Stores Persistant Persistant Stores Persistant Stores Persistant Stores		~	1000	20 10 10						
Create JDBC GridLink data sources OFSLL Generic jdbc/dotIdSnIDBConDJS AdminServer, OFSLL_ManagedServer, Opss-audit-ViewDS Generic jdbc/AuditViewDataSource AdminServer, OFSLL_ManagedServer, WS_ManagedServer,			This page sur	nmarizes the J	DBC data s	ource objects that have been c	reated in this domain.			
Data Sources Data Source Doft Data Source										
Data Sources - Persitant Stores - Persitant Stores - Foreign JNDI Providers - Work Contexts - Oreate JDBC generic data sources - Create JDBC Gridlink data sources - Create JDBC multi data sources - Create JDBC multi data sources - Create JDBC multi data sources - Opss-audit-viewDS Generic jdbc/dstilDBConnDS - Opss-audit-viewDS Generic jdbc/dstilAppendDataSource - opss-audit-viewDS Generic jdbc/opsDataSource - opss-audit-viewDS Generic jdbc/lossDataSource - opss-audit-viewDS Generic jdbc/lossDataSource - o	E-Services		Customize t	his table						
Persistant Stores Foreign JNDI Providers Work Contexts WALL Registries Showing 1 to 9 of 9 Previous Work Contexts WALL Registries Source Generic Data Source Generic Jdbc/acjimsdb OFSLL_ManagedServer GridLink data sources Create JDBC GridLink data sources OFSLL Generic Jdbc/ofSIDBCSOurce AdminServer, OFSLL_ManagedServer opss-audit-DBDS Generic Jdbc/ofSIDBConDS AdminServer, OFSLL_ManagedServer opss-audit-viewDS Generic Jdbc/AuditViewDataSource MoninServer, OFSLL_ManagedServer, wS_ManagedServer opss-audit-viewDS Generic Jdbc/AuditViewDataSource MoninServer, OFSLL_ManagedServer, wS_ManagedServer opss-audit-viewDS Generic Jdbc/AuditViewDataSource WS_ManagedServer, WLSSchemaDataSource Generic Jdbc/WLSSchemaDataSource WS_ManagedServer, WLSSchemaDataSource WS_ManagedServer, WS	Messaging		A CARLON AND A COMPANY							
Foreign JNDI Providers Mew Delete Showing 1 to 9 of 9 Previous Showing 1 to 9 of 9 Showing 1 to 9 of 9 Show	-Data Sources		Data Sources	(Filtered - M	fore Colu	mns Exist)				
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Multi Data Source Generic jdbc/adjmsdb OFSLL_ManagedServer How do L S Generic jdbc/dbl.00shIEJBDS WS_ManagedServer Yozy Data Source rcea Generic jdbc/dbl.00shIEJBDS WS_ManagedServer Yozy Data Source rcea Generic jdbc/dbl.00shIEJBDS WJS_ManagedServer Create JDBC generic data sources OFSLL Generic jdbc/nds/adf AdminServer, OFSLL_ManagedServer Orseta JDBC multi data sources OFSLL Generic jdbc/dsliDBConnDS AdminServer, OFSLL_ManagedServer Opss-audit-DBDS Generic jdbc/dsliDBConnDS AdminServer, OFSLL_ManagedServer, WS_ManagedServer, WS_			GridLink Dat	a Sourch	Type	JNDI Name	Targets			
Move do I Proxy Data Source Generic jdbc/dbk105nlEJBDS WS_ManagedServer AdminServer, OFSLL_ManagedServer Generic jdbc/dbk105nlEJBDS WS_ManagedServer AdminServer, OFSLL_ManagedServer Generic jdbc/dbk105nlEJBDS AdminServer, OFSLL_ManagedServer Generic jdbc/dbk105nlEJBDS Generic jdbc/dbk105nlEJBDS AdminServer, OFSLL_ManagedServer Generic jdbc/dbk105nlEJBDS Generic jdbc/AuditNewDataSource MominServer, OFSLL_ManagedServer, MS_ManagedServer Opss-data-source Generic jdbc/0pssDataSource MS_ManagedServer WS_SManagedServer WS_SManagedServer WS_ManagedServer			C Strangerster Strange		Generic	jdbc/aqjmsdb	OFSLL_ManagedServer			
How do I Proxy Data Source urce Generic jdbc/LocalSvcTblDataSource AdminServer UCP Data Source Generic jdbc/LocalSvcTblDataSource AdminServer, OFSLL_ManagedServer Oreate JDBC GridLink data sources OFSLL Generic jdbc/localSvcTblDataSource AdminServer, OFSLL_ManagedServer Oreate JDBC GridLink data sources OFSLL Generic jdbc/localSvcTblDataSource AdminServer, OFSLL_ManagedServer Oreate UCP data sources opss-audit-DBDS Generic jdbc/AuditAppendDataSource AdminServer, OFSLL_ManagedServer, WS_ManagedServer System Status opss-data-source Generic jdbc/OpssDataSource AdminServer, OFSLL_ManagedServer, WS_ManagedServer, WS		~		15	Generic	idbc/dbk105olE18D5	WS_ManagedServer			
Create JDBC generic data sources Create JDBC GridLink data sources OFSLL Generic jdbc/ofsIDBConnD5 AdminServer, OFSLL_ManagedServer OFSLL Generic jdbc/ofsIDBConnD5 AdminServer, OFSLL_ManagedServer opss-audit-DBD5 Generic jdbc/AuditAppendDataSource AdminServer, OFSLL_ManagedServer, opss-audit-viewD5 Generic jdbc/AuditViewDataSource AdminServer, OFSLL_ManagedServer, opss-audit-viewD5 Generic jdbc/AuditViewDataSource AdminServer, OFSLL_ManagedServer, opss-audit-viewD5 Generic jdbc/AuditViewDataSource AdminServer, OFSLL_ManagedServer, wS_ManagedServer,		-	Constant Sector Sector	100003-01	200000000					
Create JDBC generic data sources OFSLL Generic jdbc/ofsIDBConnDS AdminServer, OFSLL_ManagedServer OFSLL Generic jdbc/ofsIDBConnDS AdminServer, OFSLL_ManagedServer, Oreate JDBC multi data sources Opss-audit-DBDS Generic jdbc/AuditAppendDataSource AdminServer, OFSLL_ManagedServer, Orss-audit-viewDS Generic jdbc/AuditViewDataSource AdminServer, OFSLL_ManagedServer, System Status opss-audit-viewDS Generic jdbc/AuditViewDataSource AdminServer, OFSLL_ManagedServer, WS_ManagedServer, WS_ManagedServer, WS_M	How do L			ource		•				
Create JDBC Grounk adta sources opss-audit-DBDS Generic jdbc/AuditAppendDataSource AdminServer, OFSLL_ManagedServer, Create UDP data sources opss-audit-DBDS Generic jdbc/AuditAppendDataSource AdminServer, OFSLL_ManagedServer, Create UDP data sources opss-audit-viewDS Generic jdbc/AuditViewDataSource AdminServer, OFSLL_ManagedServer, System Status opss-audit-viewDS Generic jdbc/OpssDataSource AdminServer, OFSLL_ManagedServer, Health of Running Servers as of 7:58 PM WLSSchemaDataSource Generic jdbc/WLSSchemaDataSource	Construction of the second									
Create UCP data sources Create Proxy data sources Create Proxy data sources Opss-audit-VieWDS Generic jdbc/AuditViewDataSource WS_ManagedServer ddminServer, OFSLL_ManagedServer, WS_ManagedServer opss-data-source Generic jdbc/OpssDataSource AdminServer, OFSLL_ManagedServer, WLSSchemaDataSource Generic jdbc/WLSSchemaDataSource			OFSLL		Generic	jdbc/otsIIDBConnDS				
Create Proxy data sources Opss-audit-viewDS Generic jdbc/AuditViewDataSource AdminServer, OFSLL_ManagedServer, WS_ManagedServer, WS_MS_MANAgedServer, WS_MS_MANAgedServer, WS_MS_MS_MS_MS_MS_MS_MS_MS_MS_MS_MS_MS_MS			opss-au	dit-DBDS	Generic	jdbc/AuditAppendDataSource				
System Status Operation Status Operation Status Operation Status Operation Status WISSchemaDataSource WS_ManagedServer Health of Running Servers as of 7158 PM WLSSchemaDataSource Jdbc/WLSSchemaDataSource WS_ManagedServer			opss-au	dit-viewDS	Generic	jdbc/AuditViewDataSource				
	System Status		opss-da	a-source	Generic	jdbc/OpssDataSource	AdminServer, OFSLL_ManagedServer, WS_ManagedServer			
Failed (0) Delete Showing 1 to 9 of 9 Previous	Health of Running Servers as of 7:58 PM		WLSSch	emaDataSourc	e Generic	jdbc/WLSSchemaDataSource				
Critical (0)			New ~	elete			Showing 1 to 9 of 9 Previ	ous Nex		

5. The following window is displayed.

Change Center	🏠 Home Log Out Preferences 🔤 Record Help
View changes and restarts	Home >Summary of JDBC Data Sources
No pending changes exist. Click the Release Configuration button to allow others to edit the	Create a New JDBC Data Source
domain.	Back Next Finish Cancel
Release Configuration	JDBC Data Source Properties
	The following properties will be used to identify your new JDBC data source.
Domain Structure	* Indicates required fields
OFSLLREL_domain Domain Partitions Center Statement	What would you like to name your new JDBC data source?
Deployments Services	€ *Name: QueueAppDS
Security Realms Interoperability	What scope do you want to create your data source in ?
Diagnostics	Scope: Global V
	What JNDI name would you like to assign to your new JDBC Data Source?
	طع JNDI Name:
	jdbc/QueueAppDS
How do I	
 Create JDBC generic data sources 	
Create LLR-enabled JDBC data sources	
System Status 🖂	What database type would you like to select?
Health of Running Servers as of 6:10 PM	Database Type: Oracle
Failed (0)	Database Type: Oracle 🗸
Critical (0)	Back Next Finish Cancel
Overloaded (0) 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 dom:	ain
No pending changes exist. Click the Release	Home >Summary of Services >Summary of JDBC Data Sources	
Configuration button to allow others to edit the domain.	Create a New JDBC Data Source	
Look & Edit Release Configuration	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 Particiona (#) Domain Particiona 	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 XA) for Service connections; Versions:Any Batabase *Oracle's Driver (Thin XA) for Service connections; Versions:Any Batabase *Oracle's Driver (Thin XA) for Service connections; Versions:Any	
How do I		
Create JDBC generic data sources	1	
Create LLR-enabled JDBC data sources		
System Status		
Health of Running Servers as of 4:04 PM	1	
Failed (0)	1	
Critical (0)		
Overloaded (0) Warning (0)		

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

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	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	Home >Summary of JDBC Data						
domain.	Create a New JDBC Data Source	le la					
Lock & Edit Release Configuration	Back Next Finish Ca	ncel					
Domain Structure	Connection Properties Define Connection Properties,						
DFSLLREL_domain	What is the name of the databas	e vou would like to connect to?					
Domain Partitions Environment							
Deployments El-Services	Database Name:	OLLDB					
Messaging Data Sources	What is the name or IP address (What is the name or IP address of the database server?					
Persistent Stores Foreign JNDI Providers	Host Name:	ofsll.oralce.com					
Work Contexts XML Registries XML Entity Caches	What is the port on the database	server used to connect to the database?					
-jCOM	Port:	1521					
How do I	What database account user nan	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					
Sustam Status		ssword to use to create database connections?					
System Status	Password:	•••••					
Failed (0) Critical (0)	Confirm Password:	••••••					
Overloaded (0) Warning (0)	Additional Connection Properties						
OK (3)	oracle.jdbc.DRCPConnection	Class					

11. Enter the Database details.



12. Click 'Next'. The following window is displayed.

Change Center		館 Home Log Out Pre	eferences 🔤 Record Help
View changes and restarts			Welcome, weblogic Connected to: OFSLLREL_domain
No pending changes exist. Click the Release		Home >Summary of JU	BC Data Sources
Configuration button to allow others to edit domain.	the	Create a New JDBC Da	ata Source
Lock & Edit		Test Configuration	Back Next Finish Cancel
Release Configuration		rest Configuration	Back Next Finish Cancel
Nelease obiniguration		Test Database Con	nection
Domain Structure		Test the database ava	ilability and the connection properties you provided.
OFSLLREL_domain		What is the full nackan	e name of JDBC driver class used to create database connections in the connection pool?
Domain Partitions Environment		In the second second second second	
Deployments		(Note that this driver c	lass must be in the classpath of any server to which it is deployed.)
C Services			
Messaging Data Sources		Driver Class Name:	oracle.jdbc.OracleDriver
Persistent Stores		and as all time for	database to connect to? The format of the URL varies by JDBC driver.
Foreign JNDI Providers Work Contexts		what is the UKL of the	database to connect to? The format of the UKL varies by JUBC driver.
-XML Registries		URL:	jdbc:oracle:thin:@//ofsll.oralce.com:1521/OLLDB
-XML Entity Caches	3		
jCOM Mail Sessions	×	What database account	t user name do you want to use to create database connections?
How do I		Database User	OFSLLREL
	-	Name:	
Create JDBC generic data sources		What is the database a	ccount password to use to create database connections?
Create LLR-enabled JDBC data sources		(Note) for service pass	word management, enter the password in the Password field instead of the Properties field below)
System Status		(noter to secure pass	ного планадопналу слова отстриватити и вла травитоти прои плакани от чло губритика теле очноту
dentro a constante de la const		Password:	
Health of Running Servers as of 8:07 PM		Passworu,	••••••
Failed (0)		Confirm Password:	
Critical (0) Overloaded (0)		Commine Password:	**************
Warning (0)		What are the propertie	s to pass to the JDBC driver when creating database connections?
OK (3)		what are the propertie	s to pass to the source when cheating database connections:
	_	Properties:	

- 13. Click 'Test Configuration'. On completion, displays a confirmation message as 'Connection test succeeded'.
- 14. Click 'Next'. The following window is displayed.

ORACLE WebLogic Server Ad	ninistration Console 12c	0
Change Center	😭 Home Log Out Preferences 🔝 Record Help	L_domai
View changes and restarts	Home >Summary of Services >Summary of JDBC Data Sources	
No cending changes exist. Click the Release Configuration button to allow others to edit the domain. Look & Edit Release Configuration	Create a New JDBC Data Source Back Next Finish Cancel 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 not deployed. You will need to deploy the data source at a later time.	but
OFSLLREL domain		
Domain Partitions Deployments	Servers AdminServer	
Services Security Realms Theroperability	✓ OFSLL_ManagedServer	
1 Diagnostics	UWS_ManagedServer	
How do I	Back Next Finish Cancel	
Create JDBC generic data sources		
Create JUBC 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)		

- 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.

9.2 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

9.2.1 <u>Create JMS Server</u>

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





2. 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_domai					
liew changes and restarts	Home							
Click the Lock & Edit button to modify, add or lelete items in this domain.	Home Page							
Lock & Edit	- Information and Resources							
Release Configuration	Helpful Tools	General Information						
	Configure applications	Common Administration Task Descriptions						
main Structure	Configure GridLink for RAC Data Source	Read the documentation						
SLLREL_domain	Configure a Dynamic Cluster	 Ask a question on My Oracle Support 						
-Domain Partitions	Recent Task Status							
-Environment -Deployments	 Set your console preferences 							
"Services	Oracle Enterprise Manager							
-Security Realms								
-Interoperability	- 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					
	Partition Work Managers		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	 Migratable Targets 	 JMS Servers 	Context					
Monitor servers	Coherence Clusters	 Store-and-Forward Agents 	SNMP					
	Machines	 IMS Modules 	Interceptors					
stem Status	Virtual Hosts	Path Services						
alth of Running Servers	Virtual Targets	Bridges	Charts and Graphs					
	Work Managers	Data Sources	Monitoring Dashboard					
Failed (0)	Concurrent Templates	Data sources Persistent Stores						
Critical (0) Overloaded (0)	Resource Management	and the second						
Warning (0)	Startup And Shutdown Classes	XML Registries XML Father Carbon						
OK (3)	- Startup And Shutuown Classes	XML Entity Caches						
	Application's Compile Cottings	Foreign JNDI Providers						
	Application's Security Settings	Work Contexts						

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

ORACLE WebLogic Serve	er Admir	nistration C	Console 12c						õ
Change Center		Home Home	e Log Out Pr	references 🔤 Record Help		Q		Welcome, weblogic	Connected to: OFSLLREL_domai
View changes and restarts		Home >S	Summary of J	MS Servers					
No pending changes exist. Click the Release Configuration button to allow others to edit domain. Lock & Edit Release Configuration		JMS ser		vers nanagement containers for the que es the JMS servers that have been		-			
Domain Structure		Custor	nize this tab	ble					
OFSLLREL_domain	~	JMS Se	rvers (Filter	ed - More Columns Exist)					
Environment Deployments								Shi	wing 0 to 0 of 0 Previous Next
E-Services E-Messaging			ame 🚕	Persistent Store	Target	Current Target	Health	Scope D	omain Partitions
JMS Servers Store-and-Forward Agents		There are no items to display							
JMS Modules Path Services BBridges Data Sources Persistent Stores	~	New	Delete					Sh	wing 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)									



5. Click 'New'. The following window is displayed.



6. Specify the JMS Server Name as 'OfslIJMSServer'. Click 'Next', the following window is displayed.

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

7. Select 'None' as the Persistent Store type. Click 'Next', the following window is displayed.

Change Center	Record Help Welcome, weblogic Connected to: OFSLLREL_domain
View changes and restarts	Home >Summary of Services >Summary of Services: JMS >Summary of JMS Servers >OfsIDMSServer >Summary of JMS Servers
Pending changes exist. They must be activated to take effect.	Create a New JMS Server
Activate Changes Undo All Changes Domain Structure	Back Next Finish Cancel Select targets Select the server instance or migratable target on which you would like to deploy this JMS server.
OFSLIRE_domain ⊕-Domain Partitions ⊕-Environment ⊕-Services →-Security Realms ⊕-Interoperability	Target: OFSLL_ManagedServer

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

Change Center	🔞 Home Log Out Preferences 🔄 Record Help	Q	Welcome, weblogic	Connected to: OI	FSLLREL_doma
View changes and restarts Pending changes exist. They must be activated to take effect. Activate Changes Undo All Changes	Home >Summary of Services >Summary of Services: JNS >S Messages JMS server created successfully Summary of JMS Servers				
	JMS servers act as management containers for the que				
Domain Structure DFSLIREL_domain DFSLIREL_domain DFSLIREL_domain Demvironment Deployments Services Services Services	Jin's 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)				
DFSLIREL_domain @ Domain Partitions @ Environment Deployments @ Services - Security Realms @ Threoperability	This page summarizes the JMS servers that have been		ogic Server domain.	wing 1 to 1 of 1 P	Previous Next
VFSLIKEL domain 1 Domain Partitions 1 Environment · Deployments 5 Services · Servity Realms	This page summarizes the JMS servers that have been Customize this table JMS Servers (Filtered - More Columns Exist)		ogic Server domain.	wing 1 to 1 of 1 P	Health
IFSLIREL_domain IP Domain Partitions P Environment Deployments IP Services Security Realms Interoperability	This page summarizes the JMS servers that have been Customize this table JMS Servers (Filtered - More Columns Exist) New Delete	created in the current Webl	ogic Server domain. Sho	wing 1 to 1 of 1 P	

9.2.2 Create JMS Module

1. 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 following window is displayed.



3. Click 'New'. The following screen is displayed.

ORACLE WebLogic Server Ac		1000000 COMPANY	1			Q
Change Center	Home Log Out Prefere		J		elcome, weblogic	Connected to: OFSLLREL_domain
View changes and restarts	Home >Summary of Services	>Summary of Services: JMS	S >Summary of JMS I	Modules		
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit	Create JMS System Modul Back Next Finish The following propertie	Cancel	tify your new modu	ıle.		
Release Configuration						
Domain Structure OFSLIREL_domain PF_Domain Partitions PF_Environment -Deployments PF_Services Persignant Data Sources -Persignant Stores	JMS system resources are connection factories, temp (SAF) parameters. You can * Indicates required fields What would you like to nam * Name:	lates, destination keys, o a administratively configu	uota, distributed que	ues, distributed	topics, foreign serve	urces include queues, topics, rs, and JMS store-and-forward sources.
Foneign JNDI Providers Work Contexts XML Registries XML Entity Caches jCOM Mail Specions	Would you like this new JM Scope: What would you like to nan	Global				
How do I	what would you like to han	e the descriptor file nam	er ir you do not prov	ioe a name, a o	arault will be assigne	10.
Configure JMS system modules	Descriptor File Name:	OfsIIJMSModule				
Configure JMS servers	Where would like to place t	he descriptor for this Sys	tem Module, relative	to the jms config	guration sub-director	y of your domain?
System Status	Location In Domain:	ľ				
Health of Running Servers as of 5:59 PM						
Failed (0) Critical (0) Overloaded (0) Warning (0) OK (1)	Back Next Finish	Cancel				

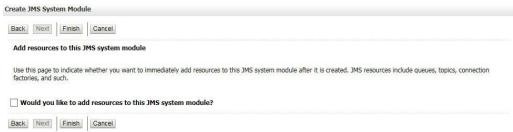
4. Specify the following details:

- Enter the System Module Name as 'OfslIJMSModule' _
- Enter the Description File Name as 'OfslIJMSModule' _
- 5. Click 'Next'. The following screen is displayed.

	dministration 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 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 model System model System model	
Domain Structure	Use this page to select the server or cluster on which you would like to deploy the you wish.	s JMS system module. You can reconfigure targets later if
OFSLERE_domain ⊕ Domain Partitions ⊕ Denvinorment → Deployments ⊕ Security Realms ⊕ Interoperability ⊕ Diagnostics	Targets : Servers AdminServer OFSLL_ManagedServer	
	WS_ManagedServer	
How do I	Back Next Finish Cancel	
Configure JMS system modules		
Configure JMS servers		
System Status	1	
Health of Running Servers as of 7:27 AM		
Failed (0) Critical (0) Overloaded (0) Warning (0) OK (3)		



6. Select the target server and click 'Next'. The following window is displayed.



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

ORACLE WebLogic Server Adr	ministration Console 12c		Q
Change Center	🏦 Home Log Out Preferences 🔤 Record Help	P 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.	Messages All changes have been activated. No restarts a	are necessary.	
Lock & Edit	Summary of JMS Modules		
Release Configuration			
Domain Structure	destination keys, quota, distributed queues, distri	ributed topics, foreign servers, and JMS store-and	Such resources include queues, topics, connection factories, templates, -forward (SAF) parameters. You can administratively configure and manage
OFSLLREL_domain ED-Domain Partitions ED-Environment -Deployments	JMS system modules as global system resources. This page summarizes the JMS system modules t		
Services Security Realms	Customize this table		
-Interoperability	JMS Modules (Filtered - More Columns Exist	t)	
Diagnostics	Click the Lock & Edit button in the Change Center	er to activate all the buttons on this page.	
	New Delete		Showing 1 to 1 of 1 Previous Next
	Name 🚳	Туре	
	OfsIIJMSModule	JMSSystemResour	ce
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			
Failed (0)			
Critical (0)			
Overloaded (0)			
Warning (0)			

9.2.3 Subdeployment

- 1. 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 created JMS module 'OfslIJMSModule' and click 'Subdeployments' tab. The following window is displayed.

ettings for Of	sIDMSModule						
Configuration	Subdeployments	Targets	Security	Notes			
grouped and	targeted to a server re	esource (suc	th as JMS se	ervers, ser	ver instances, or cluster).		
Customize							
Customize							
	ents						Showing 0 to 0 of 0 Previous Nex
Subdeploym	ents ete			Ā	lesources	Targets	Showing 0 to 0 of 0 Previous Nex
Subdeploym	ents ete			F	tesources There are no items to displ		Showing 0 to 0 of 0 Previous Nex



4. Click 'New'. The following screen is displayed.

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	es: JMS >Summary of JMS Modules >0	fsIIJMSModule	
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	Subdeployment Properties The following properties will be used to ident	tify your new subdeployment.		
Domain Structure	* Indicates required fields			
OFSLIKEL_domain E-Domain Partitions D-Environment Deployments S-Services	* Subdeployment Name:	OfsIIJMSSD		
Messaging Data Sources Parsistent Stores				

5. Specify the Subdeployment Name as 'OfslIJMSSD'. Click 'Next', the following window is displayed.

ORACLE WebLogic Server Ad	
Change Center	Rehre Log Out Preferences Record Help Q Welcome, weblogic Connected to: OFSLLREL_domain
View changes and restarts	Home >Summary of Services >Summary of Services: IMS >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
Lock & Edit Release Configuration	Back Next Finish Cancel Targets Please select targets for the Subdeployment
Domain Structure	
OFSLLREL domain	Servers
Domain Partitions Control Partitions Deployments	OFSLL_ManagedServer
Services Messaging	JMS Servers
Data Sources Persistent Stores Foreign JNDI Providers	
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.

ettings for Of	IIJMSModule				
Configuration	Subdeployments	Targets	Security	Notes	
				m module. A subdeployment is a mer rvers, server instances, or cluster).	hanism by which JMS module resources (such as queues, topics, and connection factories) are
Customize t Subdeployme Click the Lock	ents	Change Cent	ter to activa	te all the buttons on this page.	
New Dele	te				Showing 1 to 1 of 1 Previous Next
Name 🤅	\$			Resources	Targets
Ofslijms	SD				OfslIJMSServer
New Dele	te				Showing 1 to 1 of 1 Previous Next

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

9.2.4 Create JMS Connection Factory

- 1. 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 'OfsIIJMSModule'. The following window is displayed.

ORACLE WebLogic Server Ad	ministration Console 12c			0
Change Center	😰 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: O	FSLLREL_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	Summary of JMS Modules 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. ted topics, foreign servers, and JMS store-and-f	uch resources include queues, topics, connection factories, orward (SAP) parameters. You can administratively configur	templates, e and manage
Domain Structure OFSLLREL_domain B*-Domain Partitions B*-InvironmentDopployments B*-SecuricesSecurity Realms	This page summarizes the JMS system modules that Customize this table JMS Modules (Filtered - More Columns Exist) Click the Lock & Edit button in the Change Center to			
⊕-Interoperability ⊕-Diagnostics	New Delete Name OfsiluMSModule New Delete	Type JMSSystemResourc	Showing I to 1 of 1 P Showing I to 1 of 1 P Showing I to 1 of 1 P	
How do I Configure JMS system modules Configure resources for JMS system modules				
System Status 🖂				
Health of Running Servers as of 9:32 AM				
Failed (0) Critical (0) Overloaded (0)				

4. Click 'New'. The following window is displayed.

Configuration	Subdeployment	s Targets	Security	Notes				
comguration	Subdeployment	a l'argets	Security	Notes				
This page displa existing resource		nation about a	JMS system	n module	and its re	ources. It also allows you t	o configure new resou	irces and acces
Name:		OfsIIJM	SModule			The name of this .	JMS system module.	More Info
Scope:		Global					S system module is a tition, or a resource g info	
Descriptor File	Name:	jms/Of	sllJMSModu	le-jms.xm	Ľ.	The name of the I Info	MS module descriptor	file. More
						system module, including q distributed destinations, for		
Customize thi	s table							
Summary of Re	esources							
Click the Lock &	Edit button in t	he Change Ce	nter to activ	ate all the	buttons	on this page.		
New Delete	2						Showing 0 to 0 of 0	Previous Ne
Nama			INDI Nom			Subdoploymont	Tord	14

There are no items to display

5. Click 'Next'. The following window is displayed.

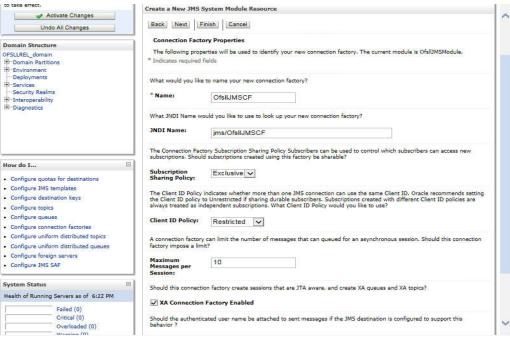
New Delete

Back Next Finish Cancel	
Choose the type of resource you want to create.	
Use these pages to create resources in a JMS system mo	odule, such as queues, topics, templates, and connection factories.
like stand-alone queues and topics, connection factories,	rempted to enter basic information for creating the resource. For targetable resources, distributed queues and topics, foreign servers, and JMS SAF destinations, you can also rer targets. You can also associate targetable resources with subdeployments, which is rese 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
Queue	Defines a point-to-point destination type, which are used for asynchronous peer communications, A measage delivered to a queue is distributed to only one consumer. More Info
С 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
	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
Eoreign Server	Defines foreign messaging providers or remote Webl ogic



Showing 0 to 0 of 0 Previous | Next

6. Select 'Connection Factory' option and click 'Next'. The following window is displayed.



- 7. Specify the following details:
 - Enter the Name of the Connection Factory as 'OfslIJMSCF'
 - Enter the JNDI Name as 'jms/OfslIJMSCF'
 - Select the check box 'XA Connection Factory Enabled'
- 8. Click 'Next'. The following window is displayed.

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 ØFSLLREL_ManagedServer

Back Next Finish Advanced Targeting Cancel



9. Click 'Advanced Targeting'. The following window is displayed.

Pending changes exist. They must be activated to take effect.	Center	🏦 Home Log Out Preferences 🔤 Record Help				
Provide effect. Intery must be activated Image Structure Pomain Structure PSULKEL_domain Pomain Partitions Depoyments Services Select the subdeployment you want to use. If you select (none), no targeting will occur. Subdeployments: OfsluMSSD Create a New Subdep	anges and restarts	Welcome, weblogic Connected to: OFSLLREL_domain				
Create a New JMS System Module Resource Create a New JMS System Module Resource Back New JMS System Module Resource Back New JMS resources are grouped and targeted to a server instance, cluster, or SAF agent. If necessary, you can create a new JMS resources are grouped and targeted to a server instance, cluster, or SAF agent. If necessary, you can create a new JMS resources are grouped and targeted to a server instance, cluster, or SAF agent. If necessary, you can create a new JMS resources are grouped and targeted to a server instance, cluster, or SAF agent. If necessary, you can create a new JMS resources are grouped and targeted to a server instance, cluster, or SAF agent. If necessary, you can create a new JMS resources are grouped and targeted to a server instance, cluster, or SAF agent. If necessary, you can create a new JMS resources are grouped and targeted to a server instance, cluster, or SAF agent. If necessary, you can create a new JMS resources are grouped and targeted to a server instance, cluster, or SAF agent. If necessary, you can create a new JMS resources are grouped and targeted to a server instance, cluster, or SAF agent. If necessary, you can create a new JMS resources are grouped and targeted to a server instance, cluster, or SAF agent. If necessary, you can create a new JMS resources are grouped and targeted to a server instance, cluster, or SAF agent. If necessary, you can create a new Subdeployment target. Select the subdeployment you want to use. If you select (none), no targeting will occur. Subdeployments: OfSILMISSD Create a New Subdeployment? Targets : Targets :		Home >Summary of Services >Summary of Services: JMS >Summary of JMS Modules >OfsllJMSModule				
Undo All Changes Back Finish Cancel Domain Structure Finish Cancel FSLIREL_domain The following properties will be used to target your new JMS system module resource. A subdeployment is a mechanism by while the provide the service of the system module resource. A subdeployment is a mechanism by while the provide the service of the system module resource. A subdeployment is a mechanism by while the provide the service of the system module resource. A subdeployment is a mechanism by while the provide the service of the system module resource. A subdeployment is a mechanism by while the provide the service of the subdeployment target. Services Services Sector the subdeployment is a mechanism by while parent module's subdeployment target. Select the subdeployment you want to use. If you select (none), no targeting will occur. Subdeployments: OfslUMSSD Create a New Subdeployment. What targets do you want to assign to this subdeployment? Targets : Targets : Servers	C	Create a New JMS System Module Resource				
Normain Structure Use this page to select a subdeployment to assign this system module resource. A subdeployment is a machanism by why subdeployment is a new subdeployment to construct. You can also reconfigure subdeployment traget. > Environment >> Services > Services >> Services > Select the subdeployment you want to use. If you select (none), no targeting will occur. > Use this page to you want to assign to this subdeployment? Targets : New do I © optique pugets for destinations		Back Next Finish Cancel				
Domain Partitions Devicement Depress Devicement Depress Devicement Depress Devicement Depress Devicement Depress Devicement Devicement Depress Devicement	Structure	The following properties will be used to target your new JMS system module resource				
GP-Interogerability Select the subdeployment you want to use. If you select (none), no targeting will occur. Subdeployments: OfsIJJMSSD ▼ [Create a New Subdeployment] What targets do you want to assign to this subdeployment? Targets : How do I Servers • Configure quotes for destinations Servers	ain Partitions comment oyments ces	subdeployment by clicking the Create a New Subdeployment button. You can also reconfigure subdeployment targets				
How do I	operability					
Configure quotas for destinations						
Configure quotas for destinations	I 🗉	Servers				
Configure JMS templates	gure JMS templates	OFSLL_ManagedServer				
Configure destination keys JMS Servers	a construction of the second	JMS Servers				
Configure queues Official Offi						
Configure queedes Confection factories		L' UTSIUMSServer				
Configure uniform distributed topics Back Next Finish Cancel		Back Nevel Einish Cancel				
Configure uniform distributed queues						
Configure foreign servers Configure JMS SAF						

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

ttings for Ofs	IJMSModule						
Configuration	Subdeployments	Targets	Security	Notes			
This page displ existing resour		ion about a	JMS system	n module and its res	ources. It also allows you to cont	figure new resour	rces and acces
lame:		OfsIIJM	SModule		The name of this JMS s	ystem 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/OfslIJMSModule-jms.xml			le-jms.xml	The name of the JMS m Info	odule descriptor	file. More	
connection fact parameters. Customize th	is table				ystem module, including queue listributed destinations, foreign s		
connection fact parameters. Customize th	tories, JMS templates is table tesources				istributed destinations, foreign s		e-and-forward
connection fact parameters. Customize th Summary of R	tories, JMS templates is table tesources				istributed destinations, foreign s	ervers, and store	Previous Ne

9.2.5 Create JMS Queue

- 1. 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.

Change Center	Home Log O	ut Preferences 🔼	Record He	lp		Q	Welcome, weblogic	Connected to: OFSLLREL_domai	
View changes and restarts	Home >Summary	of Services >Summar	y of Services:	JMS >Sumr	mary of JMS Mo	dules >OfsID	MSModule		
Click the Lock & Ed/t button to modify, add or	Settings for Ofsl	Settings for OfsIIJMSModule							
delete items in this domain.	Configuration	Subdeployments	Targets	Security	Notes				
Lock & Edit				A					
Release Configuration	-							ure new resources and access	
	existing resource		tion about a	JMS system	n module and	its resources	. It also allows you to config	ure new resources and access	
Iomain Structure									
PSLLREL_domain Domain Partitions	Name:		OfsIUM	SModule			The name of this JMS sy	stem module. More Info	
- Environment Deployments	Scope:		Global				Specifies if the 1MS syste	m module is accessible within	
- Services Security Realms	Scoper	Stope: Clobal						tition, or a resource group	
- Interoperability									
D-Diagnostics	Descriptor File	jms/OfsIUMSModule-jms.xml		The name of the JMS module descriptor file. More Info					
	factories, JMS t	emplates, destinatio						d topic destinations, connection tore-and-forward parameters.	
low do I	Summary of R	rourcar							
Configure quotas for destinations		Edit button in the	Change Car	tor to activ	ate all the but	there on this			
Configure JMS templates	CIICK UIE LOCA C	e zone bottom in the	change cen	iter to activ	ate all the put	cons on this	paye.		
Configure destination keys	New Delete						Shov	ving 1 to 1 of 1 Previous Next	
Configure topics	🗐 Name 🚕	Type			INDI Name		Subdeployment	Targets	
	la Name 🗠	Type			JNDI Name	8	Subdeployment	Targets	
							OfsII1MSSD		
Configure queues Configure connection factories Configure uniform distributed topics	OfsilJMSCi	Connectio	n Factory		jms/OfsIUMS	CF	OfSIUMSSD	OfsIIJMSServer	

4.

5.

DRACLE WebLogic Server Adr	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 Services >Summary of Services: JMS >Summary of JMS	5 Modules >OfsilJMSModule
No pending changes exist. Click the Release Configuration button to allow others to edit the	Create a New JMS System Module Resource	
Jomain.	Back Next Finish Cancel	
Release Configuration	Choose the type of resource you want to create.	
Domain Structure	Use these pages to create resources in a JMS system module, such a	is queues, topics, templates, and connection factories.
PSLLREL_domain B-Domain Partitions D-Environment Deployments D-Services	stand-alone queues and topics, connection factories, distributed que	enter basic information for creating the resource. For targetable resources, like use and topics, foreign servers, and JMS SAF destinations, you can also proceed also associate targetable resources with subdeployments, which is an advanced server resources.
	Connection Factory	Defines a set of connection configuration parameters that are used to create connections for JMS clients. More Info
~	🖲 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
iow do I 🗉	© Topic	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	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 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
ystem Status	O Quota	Controls the allotment of system resources available to destinations. More Info
fealth 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)	JMS Template	Defines a set of default configuration settings for multiple

Change Center	Record Help
View changes and restarts	Welcome, weblogic Connected to: OFSLLREL_domain
Pending changes exist. They must be activate to take effect.	
Activate Changes Undo All Changes	Create a New JMS System Module Resource Back Next Finish Cancel
Domain Structure	3MS Destination Properties
OFSLERE_domain BP_Domain Services 	The following properties will be used to identify your new Queue. The current module is OfsIDMSModule. * Indicates required feals * Ammei OfsIDMSGueue Ima/OfsIDMSGueue Ima/Of
Configure quotas for destinations Configure 3MS templates Configure destination keys Configure topics Configure conaction factories	
Configure uniform distributed topics Configure uniform distributed queues Configure foreign servers Configure JMS SAF	
System Status	
Health of Running Servers as of 6:15 PM	



- 6. Specify the following details while creating new JMS System Module Resources:
 - Enter the Name of the Queue as 'OfslIJMSQueue'
 - Enter the JNDI Name as 'jms/OfslIJMSQueue'
 - Select the Template as 'None'
- 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					
Pending changes exist. They must be activat	ted	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 		and a second sec					
Undo All Changes		Back Next Finish Cancel					
Domain Structure	-	The following properties will be used to target your new JMS system module resource					
OFSLLREL domain		Use this page to select a subdeployment to assign this system module resource. A subdeployment is a mechanism by which JMS					
Domain Partitions	~	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					
Environment Deployments		clicking the Create a New Subdeployment button. You can also reconfigure subdeployment targets later by using the parent module's subdeployment management bage.					
El-Services		noode a sobepoynent netterage and page.					
(+)-Messaging		Select the subdeployment you want to use. If you select (none), no targeting will occur.					
-Data Sources		select the suddeployment you want to use. If you select (none), no targeting will occur.					
Persistent Stores		Subdeployments: OfsiIJMSSD Create a New Subdeployment					
Work Contexts							
-XML Registries		What targets do you want to assign to this subdeployment?					
-XML Entity Caches							
-jCOM Mail Sessions	\sim	Targets :					
How do L.	E						
		JMS Servers					
 Configure quotas for destinations 		OfsIUMSServer					
 Configure JMS templates 		© Obioritzever					
 Configure destination keys 							
Configure topics		Back Next Finish Cancel					
 Configure queues 							
 Configure connection factories 		5					
 Configure uniform distributed topics 							
 Configure uniform distributed queues 							
 Configure foreign servers 							
Configure 3MS SAF							
System Status	E						

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

Change Center	Home Log O	ut Preferences 🏧	Record Help		Q		
View changes and restarts					Welcome, weblogic Conr	nected to: OFSLLREL_doma	
Pending changes exist. They must be activated to take effect.	Messages	of Services >Summar		Summary of JMS Modules	>OfsIIJMSModule		
Undo All Changes	Settings for Ofsl						
Domain Structure	Configuration	Subdeployments	Targets Secu	rity Notes			
OFSLLREL_domain (⊕-Domain Partitions (⊕-Darant Partitions (⊕-Services '—Security Realms (⊕-Interoperability (⊕-Diagnostics	This page displ and access exis		tion about a JMS s	ystem module and its re	sources. It also allows you to co	infigure new resources	
	Name:		OfsIUMSModule		The name of this JMS syst	em module. More Info	
	Scope:		within the domain, a		Specifies if the JMS system within the domain, a partit template. More Info	n module is accessible don, or a resource group	
	Descriptor File	Name:	jms/OfsIDMSMc	dule-jms.xml	The name of the JMS mod Info	ule descriptor file. More	
How do I Configure quotas for destinations Configure JMS templates Configure destination keys Configure destination keys	This page sumr connection fact forward parame	ories, JMS template sters. is table	ources that have b s, destination sort	een created for this JMS keys, destination quota,	system module, including queu distributed destinations, foreign	e and topic destinations, servers, and store-and-	
Configure queues Configure connection factories							
Configure uniform distributed topics	🔲 Name 🖚	Туре		JNDI Name	Subdeployment	Targets	
Configure uniform distributed queues Configure foreign servers	OfslDMSC	F Conne	ction Factory	1ms/OfsIIJMSCF	OfsIIJMSSD	OfsIIJMSServer	

9.3 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
- Create JMS Module
- SubDeployment
- Create JMS Connection Factory
- Create JMS Queue



9.3.1 <u>Create Persistent Stores</u>

- 1. Login to Oracle Weblogic 12c console (http://hostname:port/console).
- 2. On successful login, the following window is displayed.

Change Center	館 Home Log Out Preferences 🖂 I	Record Help	2				
View changes and restarts		Welcon	ne, weblogic Connected to: OFSLLREL_domai				
Click the Lock & Edit button to modify, add or	Home Home Page Information and Resources						
delete items in this domain.							
Lock & Edit							
Release Configuration	- Information and Resources						
	Helpful Tools						
omain Structure	Configure applications	 Common Administration Task Des 	scriptions				
FSLLREL_domain	Configure GridLink for RAC Data	 Read the documentation 					
Domain Partitions Environment	Ask a question on My Oracle Support						
Deployments	Configure a Dynamic Cluster Recent Task Status						
9 Services	Kecent Task Status Set your console preferences						
i—Security Realms ⊕-Interoperability ⊕-Diagnostics	and the second						
	Oracle Enterprise Manager						
	Domain Configurations						
	Domain	Resource Group Templates	Interoperability				
	Domain	Resource Group Templates	WTC Servers				
			 Jolt Connection Pools 				
low do I	Domain Partitions	Resource Groups					
ow do 1 🖻	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				
ystem Status	Coherence Clusters	 Store-and-Forward 	SNMP				
lealth of Running Servers as of 11:23 AM	Machines	Agents IMS Modules	Interceptors				
Failed (0)	Virtual Hosts						
Critical (0)	 Virtual Targets 	 Path Services 	Charts and Graphs				



3. Click Domain Name > Services > Persistent Stores

ORACLE WebLogic Server Administration Console 12c

Change Center	Home Lo	g Out Preferences 🐼 Record Help							
View changes and restarts	Home >Sum	nary of Services							
Click the <i>Lock & Edit</i> button to modify, add or delete items in this domain.	Summary of S	iervices							
Lock & Edit	Use these sections of the Administration Console to configure WebLogic Server services.								
Release Configuration	Section	Section Description							
Domain Structure ofsilrel_domain @-Domain Partitions @-Environment -Deployments @-Services Security Realms @-Interoperability Diagnostics	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 searnless interoperability with other versions of WebLogic Server and third-party messaging uendors.							
	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 backend resources.							
	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 transformer 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	јСОМ	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/DCOM) 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 SMTP-capable mail servers on your network or the Internet.							
Configure access to seveniar 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	JTA	One of the most fundamental features of WebLogic Server is transaction management. Transactions are a means to							

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

Change Center	🏫 Home Log Out Preferences 🖂 Record Help	9	Welcome, weblogic	Connected to: ofsllrel_domai		
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.	Summary of Persistent Stores					
Lock & Edit Release Configuration	A persistent store is a physical repository for storing database, disk-based file, or replicated memory store domain.					
Domain Structure	1					
ofslirel_domain Domain Partitions Environment	Customize this table Persistent Stores (Filtered - More Columns Exist	t)				
Deployments	Create FileStore		Showin	g 0 to 0 of 0 Previous Next		
 Services Security Realms Interoperability 	Create JDBCStore	Туре	Target			
Diagnostics	There are no items to display					
	New		2.000	g 0 to 0 of 0 Previous Next		
How do I						
Create file stores						
Create JDBC stores						
Monitor persistent stores						
System Status						
Health of Running Servers as of 2:22 PM						
Failed (0)						
Critical (0)						
Overloaded (0) Warning (0)						

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



0

• Prefix Name: Ofsll

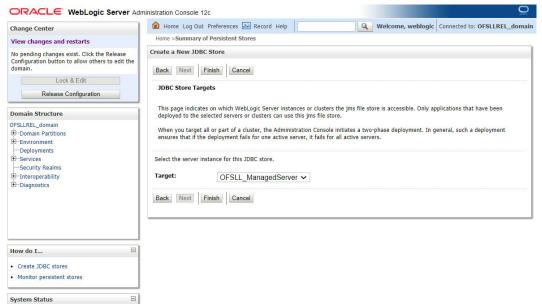
DRACLE WebLogic Server Adr		ma initia		a line the			
Change Center	😧 Home Log Out Prefer				Connected to: ofsllrel_domain		
/iew changes and restarts	Home >Summary of Services Services >Summary of Per		>Summary of Services	Summary of 3DBC Data Sources	>Summary of		
No pending changes exist. Click the Release Configuration button to allow others to edit the formain.	Create a New JDBC Store Back Next Finish	Cancel					
Release Configuration	Create a new JDBC Sto	ore					
omain Structure sllrel_domain	The following properties * Indicates required fields	vill be used to identify your r	ew JDBC store.				
Domain Partitions Environment Deployments Services	What would you like to nat	What would you like to name your new JDBC store? *Name: OfsillStore					
Security Realms P-Interoperability B-Diagnostics	What scope do you want to create your JDBC store in ?						
	Scope:	Global 🗸					
	in the second second	epende <mark>d</mark> to the JDBC store ta	ble names in this JDBC	store.			
	Prefix Name:	OfsII					
Iow do I 🖂 Create JDBC stores Monitor persistent stores	Back Next Finish	Cancel					
ystem Status							
ealth of Running Servers as of 2:23 PM							
Failed (0)							
Critical (0)							
Overloaded (0) Warning (0)							

6. Click 'Next'. The following window is displayed.

ORACLE WebLogic Server Ad	
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 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	Create a New JDBC Store Back Next Finish Cancel Select data source Select or create a non-XA data source for this JDBC store. Select or create a non-XA data source for this JDBC store.
Domain Structure	Data Source: OFSLLREL V Create a New Data Source
ofsille1.domain IP-Domain Partitions IP-Denvinents IP-Services IP-Services Interoperability Interoperability IP-Diagnostics	Back Next Finish Cancel
How do I	
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)	



7. Select 'OFSLLREL' Data source from the drop-down list. Click 'Next'. The following window is displayed.



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

lonowing	window	10	alopia	, cu.

ORACLE WebLogic Server A	dministration Console 12c			ğ
Change Center	🔒 Home Log Out Preferences 🔤 Rec	cord Help	2	Welcome, weblogic Connected to: OFSLLREL_doma
View changes and restarts	Home >Summary of Services >Summary of	f Persistent Stores		
Click the Lock & Edit button to modify, add or delete items in this domain.	Messages All changes have been activated. No	restarts are necessary.		
Lock & Edit	Summary of Persistent Stores			
Release Configuration				
Domain Structure	A persistent store is a physical repositor memory storage. This page summarizes	y for storing subsystem data, such as p the persistent stores that have been o	ersistent JMS messages. It can reated for this domain.	be a JDBC-accessible database, disk-based file, or replicated
OFSLLREL_domain		67		
Domain Partitions Environment	Customize this table			
Deployments Services	Persistent Stores (Filtered - More Co	olumns Exist)		
Security Realms	Click the Lock & Edit button in the Cha		n this page.	
Interoperability Diagnostics	New - Delete			channel and the contract barrier
Diagnostics	Delete	Second		Showing 1 to 1 of 1 Previous Next
	Name 🙈	Туре	Target	
	OfsliStore	JDBCStore	OFSLL_ManagedServe	er
	New v Delete			Showing 1 to 1 of 1 Previous Next
How do I	i			
Create file stores				
Create JDBC stores				
Monitor persistent stores				
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 11:32 AM				
Failed (0)				
Critical (0)				
Overloaded (0)				

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.

hange Center	Home Log Out	Preferences 🔤 R	ecord Help	Q			Welcome, web	logic Connected to: ofslirel_dom			
	Home >Summary										
/iew changes and restarts											
Click the Lock & Edit button to modify, add or delete items in this domain.	Summary of Clust	ers									
Lock & Edit	This page summ	arizes the clusters the	t have been configured in the	current Webl onic Se	rver domain						
Release Configuration			Server servers that work toget								
omain Structure	1										
fsllrel_domain	Customize this	table									
Domain Partitions	Clusters (Filtere	d - More Columns	Fxist)								
- Deployments				buttons on this nag							
-Services	Citer the Lock th	Click the Lock & Edit button in the Change Center to activate all the buttons on this page.									
-Security Realms	New ~ Clone	New - Clone Delete Showing 1 to 2 of 2 Previous Next									
D-Interoperability D-Diagnostics	🔲 Name 🗇	Cluster Address	Cluster Messaging Mode	Migration Basis	Default Load Algorithm	Replication Type	Cluster Broadcast Channel	Servers			
	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			
]										
low do I											
Configure clusters	1										
Assign server instances to clusters											
Configure server migration in a cluster											
Configure cross-cluster replication											
Create dynamic clusters											
Configure elasticity for a dynamic cluster											
Perform on-demand scaling for a dynamic											

11. Click 'app_cluster'. The following window is displayed.

Change Center View Changes and restarts Click the Lock & Edit button to modify, add or delete items in this domain.	Home >Sum	g Out Preference ary of Clusters >a		ord Help		Q					Welco	ne, weblogic	Connected to: ofslirel domai
Click the Lock & Edit button to modify, add or delete items in this domain.	Settings for		pp_cluster								WC/CO		connected to: oranici_donial
delete items in this domain.	6	nn cluster											
	Configurati	Settings for app_duster											
Lock & Edit Release Configuration Comain Structure	General		Control	Deployments Replication	Services Migration	Notes Singleton Services	Scheduling	Overload	Health Monitoring	HTTP	Coherence		
Domain Structure	Click the Lo	ck & Edit button	in the Chan	ge Center to mo	odify the sett	ings on this page.							
ofsilrel_domain	Save												
Demain Parcelons Deployments Services	This page allows you to define the general settings for this cluster.												
Seruhy Realms ∯ Interopenbilty ∰ Diagnostics	Name:					app_cluster The name persist the					e of this configuration. WebLogic Server uses an MBean to implement and he configuration. More Info		
	<u>4</u> 월 Default	Load Algorithm	:			e in w				Defines the algorithm to be used for load-balancing between replicated services if none is specified for a particular service. The round-bin algorithm cycles through a list of WebLogic Server instances in order. Weight-based load balancing improves on the round-tobin algorithm by taking instructional taccurat a pre-ssigned weight for each server. Inrandom load balancing, requests are routed to servers at random. Meer finde			
How do I Configure dusters Assign server instances to clusters	관 Cluster Address:								cluster, and addresses. (hat is use his addre a comma	ed for generatin ess may be eith -separated list	g EJB handles er a DNS host	t uses to connect to this and entity EJB failover name that maps to multiple IP ess host names or IP
Configure server migration in a cluster Configure cross-cluster replication	街 Numbe	Of Servers In (lress:		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						
System Status E Health of Running Servers as of 5:00 PM											ransaction requ the global trar		vers in the cluster that are e Info
Failed (0) Critical (0) Overloaded (0) Warning (0)	🔄 🕂 Enal	le Concurrent s	ingle Acti	vation							llow the concur ices. More Inf		, deactivation, or restart of two



12. Click 'Lock & Edit' button on the left panel. The following window is displayed.

ORACLE WebLogic Server Adm	ninistration Consol	le 12c													õ
Change Center	Home Log	Out Preference	es 🐼 Reco	rd Help		Q						Welco	me, weblogic	Connected	to: ofsllrel_domain
View changes and restarts Pending changes exist. They must be activated to take effect.	Home >Summar Messages & Settings up	y of Clusters >aj dated successfu													
Activate Changes	Settings for app_cluster														
Undo All Changes	Configuration	7,000	Control	Deployments	Services	vices Notes									
Domain Structure	General JTA	Messaging	Servers	Replication	Migration	Singleton Se	ervices	Scheduling	Overload	Health Monitoring	HTTP	Coherence			
ofsIIrel_domain	Save														
In Deployments In Service In	If a clustered server fulls, Node Manager can automatically restart the server and its services on another machine. This page allows you to specify the machines where Node Manager can restart migratable servers and to specify the data source used during server migration.														
	Candidate Available:	Machines Fo	r Migratabl	le Servers: Chosen:		fail					The set of machines (and order of preference) on which Node Manager will restart failed servers. (Requires you to enable each server for automatic migration.) More Info				
	mum00c														
How do I			3				Z								
Configure dusters															
Configure server migration in a cluster Create JDBC generic data sources Configure cross-cluster replication	🕂 Migration	Basis:			C	Consensus 💊	•			Controls the n	nechanisn	n used for ser	ver and service	migration.	More Info
System Status	街 Data Sour	ce For Autom	atic Migrat	ion:		None)		~ 1	lew		The data source used by servers in the cluster during migration, (You must configure each Migratable Server within the cluster to use this data source.) More Info.				
Failed (0) Critical (0)	🕂 Auto Migr	A	ACTIVE			Return the name of the table to be used for server migration. More Info			More Info						
Overloaded (0) Warning (0)	C de Membe	er Death Dete	ctor Enable	ed						Enables faster Basis. More		ic Service Mig	ration times wi	th Database	Leasing
OK (8)	🏀 Member D	iscovery Time	eout:		3	0				server waits d	uring or a	fter startup to		bers that be	amount of time a long to the same More Info

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

9.3.2 <u>Create JMS Server</u>

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





2. 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_domai
/iew changes and restarts	Home		
Click the Lock & Edit button to modify, add or lelete items in this domain.	Home Page		
Lock & Edit	- Information and Resources		
Release Configuration	Helpful Tools	General Information	
	Configure applications	Common Administration Task Descriptions	
main Structure	Configure GridLink for RAC Data Source	 Read the documentation 	
SLLREL_domain	Configure a Dynamic Cluster	 Ask a question on My Oracle Support 	
Domain Partitions	Recent Task Status		
Environment Deployments	 Set your console preferences 		
"Services	Oracle Enterprise Manager		
Security Realms	- Domain Configurations		
-Interoperability Diagnostics	Domain comgutations		
Diagnostica	Domain	Resource Group Templates	Interoperability
	Domain	Resource Group Templates	WTC Servers
			Jolt Connection Pools
	Domain Partitions	Resource Groups	
	Domain Partitions	Resource Groups	Diagnostics
w do I	Partition Work Managers		Log Files
		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	 Migratable Targets 	 JMS Servers 	Context
Monitor servers	Coherence Clusters	 Store-and-Forward Agents 	• SNMP
	Machines	 JMS Modules 	Interceptors
stem Status 🗉	Virtual Hosts	 Path Services 	
alth 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	 ICOM 	

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

ORACLE WebLogic Serve	er Admir	nistration C	Console 12c						õ
Change Center		Home Home	e Log Out Pr	references 🔤 Record Help		Q		Welcome, weblogic	Connected to: OFSLLREL_domai
View changes and restarts		Home >S	Summary of J	MS Servers					
No pending changes exist. Click the Release Configuration button to allow others to edit domain. Lock & Edit Release Configuration		JMS ser		vers nanagement containers for the que es the JMS servers that have been		-			
Domain Structure		Custor	nize this tab	ble					
OFSLLREL_domain	~	JMS Se	rvers (Filter	ed - More Columns Exist)					
Environment Deployments								Shi	wing 0 to 0 of 0 Previous Next
E-Services E-Messaging			ame 🚕	Persistent Store	Target	Current Target	Health	Scope D	omain Partitions
JMS Servers Store-and-Forward Agents									
JMS Modules Path Services BBridges Data Sources Persistent Stores	~	New	Delete					Sh	wing 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)									



5. Click 'New'. The following window is displayed.

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 >Summary	mary of JMS Servers	l di la constante di
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration Domain Structure DPSLREL_domain \oplus -Domain Partitions \oplus -Domain Partitions \oplus -Denyument \oplus -Denyument \oplus -Services \oplus -Services \oplus -Interoperability \oplus -Diagnostics	Create a New JMS Server		ite or resource group ?
How do I	l l		
Configure JMS system modules Configure custom persistent stores			
System Status	1		
Health of Running Servers as of 11:42 AM			
Failed (0) Critical (0) Overloaded (0) Warning (0)			

6. Specify the JMS Server Name as 'OfsllOutboundServer'. Click 'Next', the following window is displayed.

-	🔒 Home Log Out Preferences 🖂 Record Help	Q	Welcome webloaic	Connected to: OFSLLREL_domain
Change Center	Home >Summary of Services >Summary of Services: JMS >Summar	and the second se	welcome, weblogic	connected to: Of SEEREE_domain
View changes and restarts		y 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 Persistent Store Specify a persistent store for the new JMS server.			
Domain Structure	Persistent Store: OfsIIStore V Crea	te a New Store		
OFSLLREL_domain		te a New Store		
 ⊕ -Domain Partitions ⊕ -Environment ⊕ -Deployments ⊕ -Services ⊕ -Servick Realms ⊕ -Interoperability ⊕ -Diagnostics 	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)				



7. Select 'OfsllStore' as the Persistent Store type. Click 'Next', the following window is displayed.

ORACLE WebLogic Server Ad	ministration 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
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 Select the server instance or migratable target on which you would like to deploy this JMS server.
Domain Structure OFSLLREL_domain (B)-Domain Partitions (B)-Branic Partitions (B)-Services (B)-Services (B)-Services (B)-Services (B)-Interoperability (B)-Diagnostics	Target: OFSLL_ManagedServer ✓ Back Next Finish Cancel
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:

				1					
hange Center		Home Log Out Preferences			and the second	Welcome, weblogic	Connected to: O	FSLLREL_dom	
iew changes and restarts		Iome >Summary of Services >Sum	imary of Services: JMS >	Summary of JMS Serv	/ers				
ending changes exist. They must be activate b take effect.	ed	ssages JMS server created successfu	illy						
Activate Changes Undo All Changes	Sur	mmary of JMS Servers							
omain Structure		JMS servers act as managemen	t containers for the qu	eues and topics in JMS	5 modules that	t are targeted to them.			
FSLIREL_domain D-Domain Partitions D-Environment Deployments D-Services Security Realms		This page summarizes the JMS Customize this table IMS Servers (Filtered - More		i created in the curren	t WebLogic Se	erver domain.			
-Interoperability		New Delete Showing 1 to 1 of 1 Previous Next							
Diagnostics		🗌 Name 🏟	Persistent Store	Target		Current Targ	jet	Health	
		OfsllOutboundServer	OfsliStore	OFSLL_Mar	agedServer	OFSLL_Manag	edServer		
		New Delete	1			Shov	wing 1 to 1 of 1	Previous Next	
ow do I									
Configure JMS servers									
Configure JMS system modules									
ystem Status									
ealth of Running Servers as of 11:45 AM									
Failed (0)									
Critical (0)									
Overloaded (0)									
Warning (0)									



10. Once done the following window is displayed:

Change Center	Home Log Out Preference	es 🔤 Record Help	Q	Welcome, weblogic Connected to	OFSLLREL_doma
View changes and restarts Click the Lock & Edit button to modify, add or lelete items in this domain.	Home > Summary of Services > Su Messages 《 All changes have been acti				
Lock & Edit Release Configuration	Summary of JMS Servers				
Domain Structure DFSLLRE_domain DFSLLRE_domain Denvironment Deployments Services Services Services	This page summarizes the JM Customize this table JMS Servers (Filtered - Mo		ed in the current WebLog	ic Server domain.	
Interoperability Diagnostics	Click the Lock & Edit button	in the Change Center to activa	te all the buttons on this p	page.	
	New Delete			Showing 1 to 1 of 1	Previous Next
	🔲 Name 🗞	Persistent Store	Target	Current Target	Health
	OfsllOutboundServer	OfsIIStore	OFSLL_ManagedServ	er OFSLL_ManagedServer	🖋 ОК
	New Delete			Showing 1 to 1 of 1	Previous Next
low do I					
Configure JMS servers Configure JMS system modules					
ystem Status 🖂	Ì				
ealth of Running Servers as of 11:45 AM					
Failed (0)					
Critical (0) Overloaded (0)					
overloaded (0)					

9.3.3 Create JMS Module

- 1. 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 following window is displayed.

ORACLE WebLogic Server Ad	ministration Console 12c		Ģ
Change Center	🍘 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: OFSLLREL_dom
View changes and restarts	Home >Summary of JMS Modules		
Click the <i>Lock & Edit</i> button to modify, add or delete items in this domain. Lock & Edit Release Configuration	Summary of JMS Modules JMS system resources are configured and stored as mo destination keys, quota, distributed JMS system modules as global system resources.	idules similar to standard Java EE modules. Suc topics, foreign servers, and JMS store-and-forv	h resources include queues, topics, connection factories, templates, vard (SAF) parameters. You can administratively configure and manage
Domain Structure	This page summarizes the JMS system modules that ha	ave been created for this domain.	
DFSLLREL_domain B ⁺ Domain Partitions B ⁺ Environment D-Deployments D-Services + Security Realms	Customize this table JMS Modules (Filtered - More Columns Exist) Click the Lock & Edit button in the Change Center to a	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
łow do I			
Configure JMS system modules Configure resources for JMS system modules			
System Status			
ealth of Running Servers as of 9:30 AM			
Failed (0) Critical (0) Overloaded (0) Warning (0)			



3. Click 'New'. The following screen is displayed.

ORACLE WebLogic Server					õ
Change Center	Home Log Out Prefere		Q	And the second second second second	Connected to: OFSLLREL_domain
View changes and restarts	Home >Summary of Services Modules	>Summary of Services: JMS >Summ	ary of JMS Servers >Summar	y of Services >Summary of S	ervices: JMS >Summary of JMS
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create JMS System Modu	le			
Lock & Edit	Back Next Finish	Cancel			
Release Configuration	The following propertie	es will be used to identify you	r new module.		
Domain Structure OFSLLREL_domain B-Domain Partitions B-Environment - Deployments B-Services	connection factories, temp	configured and stored as module plates, destination keys, quota, dis inistratively configure and manage	stributed queues, distribute	d topics, foreign servers, a	
Security RealmsInteroperabilityDiagnostics	What would you like to nar * Name:	ne your System Module? OfsllOutboundModule			
	Would you like this new JM Scope:	IS System Module to be restricted	to a specific resource grou	p template or resource gro	up ?
How do I	What would you like to nar	me the descriptor file name? If you	u do not provide a name, a	default will be assigned.	
Configure JMS system modules	Descriptor File Name:	OfsilOutboundModule			
Configure JMS servers	Where would like to place t	the descriptor <mark>for t</mark> his System Mod	lule, relative to the jms con	figuration sub-directory of	your domain?
System Status	Location In Domain:				
Health of Running Servers as of 12:00 PM]		
Failed (0) Critical (0) Overloaded (0) Warning (0)	Back Next Finish	Cancel			

- 4. Specify the following details:
 - Enter the System Module Name as 'OfsllOutboundModule'
 - Enter the Description File Name as 'OfsllOutboundModule' —
- Click 'Next'. The following screen is displayed. 5.

ORACLE WebLe	ogic Server	Administration	Console	120
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ORACLE WebLogic Server Ad	Iministration 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. Concel Concel
Domain Structure OFSLLREL_domain \oplus -Domain Partitions \oplus -Environment \longrightarrow Deployments \oplus -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 Security Realms Security Constitution Security Constitution Security Realms Security Realms -	Servers AdminServer
	VoFSLL_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)	



6. Select the target server and click 'Next'. The following window is displayed.

ORACLE WebLogic Server 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 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 Cancel
Domain Structure OFSLLREL_domain @-Domain Partitions @-EnvironmentDeployments @-ServicesSecurity Realms @-Interoperability @-Diagnostics	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
How do I	
Configure JMS system modules Configure JMS servers	
- compare ship 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			Ç
Change Center	🔒 Home Log Out Preferences 🔤 Record Help		Welcome, weblogic Con	nected to: OFSLLREL_doma
View changes and restarts	Home >Summary of Services >Summary of Services: 3 Modules	MS >Summary of JMS Servers >Su	ummary of Services >Summary of Service	s: JMS >Summary of JMS
Click the Lock & Edit button to modify, add or delete items in this domain.	Messages All changes have been activated. No restarts a	ire necessary.		
Release Configuration	Summary of JMS Modules			
Domain Structure OFSLIREL_domain ⊕"Domain Partitions ⊕"Environment —"Deployments @"Serurices —Security Realms ⊕"Interoperability ⊕"Diagnostics	JMS system resources are configured and stored connection factories, templates, destination keys parameters. You can administratively configure a This page summarizes the JMS system modules f Customize this table JMS Modules (Filtered - More Columns Exist Click the Lock & Edit button in the Change Cent	, quota, distributed queues, dist ind manage JMS system module that have been created for this th	ributed topics, foreign servers, and Jk is as global system resources. domain.	
	New Delete		Showing 1	to 1 of 1 Previous Next
	🗌 Name 🗞	ту	ре	
How do I	OfsllOutboundModule	MC	SSystemResource	
Configure JMS system modules Configure resources for JMS system modules	New Delete		Showing 1	to 1 of 1 Previous Next
System Status 🗉				
Health of Running Servers as of 12:04 PM				
Failed (0) Critical (0) Overloaded (0)				
Warning (0)				

9.3.4 SubDeployment

- 1. 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.



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3. Select the created JMS module 'OfsllOutboundModule' and click 'Subdeployments' tab. The following window is displayed.

ORACLE WebLogic Server Administration Console 12c

Charles Hestogie Certer Ad	initiation conce	10 120						-
Change Center		Out Preferences 🛃				Q Welcom	e, weblogic	Connected to: OFSLLREL_don
View changes and restarts	Home >Summa	ry of JMS Modules >Ofs	llOutboundM	lodule				
Click the Lock & Edit button to modify, add or	Settings for Of	sllOutboundModule						
delete items in this domain.	Configuration	Subdeployments	Targets	Security	Notes			
Release Configuration								h JMS module resources (such 5, server instances, or cluster).
FSLLREL_domain D-Domain Partitions D-Environment	Customize t							
Deployments Services		k & Edit button in the	Change Cent	er to activ	ate all the buttons	on this page.		
Security Realms Security Realms Security Realms Security Realms Security Realms Security Realms Security Realms Security Realms 	New Dele						Sho	wing 0 to 0 of 0 Previous Next
La bilignostica	Name	~		Resour	ces		Target	5
					There are no items	to display		
	New Dele	ete					Sho	wing 0 to 0 of 0 Previous Next
łow do I 🖂								
Configure subdeployments in JMS system modules								
Configure JMS system modules								
System Status 🖂								
Health of Running Servers as of 12:06 PM								
Failed (0) Critical (0)								
Overloaded (0) Warning (0)								

4. Click 'New'. The following screen is displayed.

ORACLE WebLogic Server	Administration 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 Modules >OfsllOutboundModule
No pending changes exist. Click the Release Configuration button to allow others to edit th domain. Lock & Edit Release Configuration	e 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
OFSLLREL_domain Domain Partitions Demonstrations Deployments Descriptions	* Subdeployment Name: OfsI/OutboundSD
Security Realms (B) Thteroperability (B) Diagnostics	
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)	



0

5. Specify the Subdeployment Name as 'OfsllOutboundSD'. Click 'Next', the following window is displayed.

ORACLE WebLogic Server Ad	ministration Console 12c			õ
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 >Summary of JI	45 Modules >OfsilO	outboundModule	
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 Targets Please select targets for the Subdeployment			
Domain Structure	Servers			
OFSLLREL_domain -Domain Partitions -environment	OFSLL_ManagedServer			
Deployments Services	JMS Servers			
-Security Realms -Interoperability -Diagnostics	SofsllOutboundServer			
	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)				

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

	dministration Cons	ble 12c						õ
Change Center	Home Log	Out Preferences 🔤	Record Help			٩	Welcome, weblogic	Connected to: OFSLLREL_domai
View changes and restarts Pending changes exist. They must be activated to take effect.	Messages	ary of Services >Summary		IMS >Sumn	nary of JMS	Modules >OfsllO	utboundModule	
Activate Changes	Settings for O	fsllOutboundModule						
Undo All Changes	Configuration	Subdeployments	Targets	Security	Notes			
Domain Structure OFSLLEL_domain H - Domain Partitions H - Dreployments H - Deployments H - Security Realms H - Interoperability	as queues, t Customize Subdeployn	ppics, and connection fa this table nents						n JMS module resources (such server instances, or cluster).
⊡-Diagnostics	New De	ete		_			Shov	ving 1 to 1 of 1 Previous Next
	🗌 Name	â		Reso	urces		Targets	
	OfsllOu	tboundSD					OfsllOutboundServer	
5°	New De	ete					Show	wing 1 to 1 of 1 Previous Next
How do I	j							
Configure subdeployments in JMS system modules Configure JMS system modules								
System Status	1							
Health of Running Servers as of 12:46 PM								
Failed (0) Critical (0) Overloaded (0) Warning (0)								

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

9.3.5 Create JMS Connection Factory

1. 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.

ORACLE WebLogic Server Administration Console 12c

ORACLE WebLogic Server A	dministration Console 12c	Ξ
Change Center	🏠 Home Log Out Preferences 🔝 Record Help	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		dules similar to standard Java EE modules. Such resources include queues, topics, , distributed queues, distributed topics, foreign servers, and JMS store-and-forward (SAF) nage JMS system modules as global system resources.
Domain Structure	This page summarizes the JMS system modules that have	ve been created for this domain.
OFSLIREL_domain ⊕ -Domain Partitions ⊕ -Environment ↓ -Deployments ⊕ -Services ↓ -Security Realms	Customize this table JMS Modules (Filtered - More Columns Exist) Click the Lock & Edit button in the Change Center to ac	ctivate all the buttons on this page.
Interoperability Diagnostics	New Delete	Showing 1 to 1 of 1 Previous Next
	Name 🏟	Туре
	OfsllOutboundModule	JMSSystemResource
	New Delete	Showing 1 to 1 of 1 Previous Next
How do I	í	
Configure JMS system modules Configure resources for JMS system modules		
System Status	1	
Health of Running Servers as of 3:31 PM		
Failed (0) Critical (0) Overloaded (0) Warning (0)		

3. Select the newly created JMS module 'OfsllOutboundModule'. The following window is displayed.

nange Center	Home Log Ou	🟦 Home Log Out Preferences 🔤 Record Help								
ew changes and restarts	Home >Summary of	Home >Summary of JMS Modules >OfsllOutboundModule								
ck the Lock & Edit button to modify, add or	Settings for Ofsile	Settings for OfsIlOutboundModule								
lete items in this domain.	Configuration	Subdeployments	Targets	Security	Notes					
Release Configuration	This page displate existing resource		ition about a	JMS systen	ı module a	nd <mark>it</mark> s resource	s. It also allows you t	o configure n	ew resources and access	
main Structure										
OFSLIREL_domain ⊕ Domain Partitions ⊕ Environment → Deployments ⊕ Services → Security Realms ⊕ Interoperability ⊕ Diagnostics	Name:	Name: OfsllOutboundModule					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 I	Descriptor File Name:			lule-jms.xr	nl	The name of the JMS module descriptor file. More Info			
	This page summ factories, JMS te	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								
w do I	Summary of Re	sources								
							0.000			
Configure quotas for destinations	Click the Lock &	Edit button in the	e Change Cen	ter to activ	ate all the	buttons on thi	, page.			
Configure quotas for destinations Configure JMS templates	Click the Lock &	<i>Edit</i> button in the	e Change Cen	ter to activ	ate all the	outtons on th	, page.	Showing 0	to 0 of 0 Previous Nex	
w do I Configure quotas for destinations Configure JMS templates Configure destination keys Configure topics	New Delete							Showing 0	to 0 of 0 Previous Nex	
ionfigure quotas for destinations ionfigure JMS templates onfigure destination keys ionfigure topics ionfigure queues		Edit button in the		JNDI Nan			odeployment	Showing 0	to 0 of 0 Previous Nex Targets	
onfigure quotas for destinations onfigure JMS templates onfigure destination keys onfigure topics	New Delete			JNDI Nam	e		odeployment	Showing 0		



4. Click 'New'. The following window is displayed.

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.	Create a New JMS System Module Resource Back Next Finish Cancel	
Lock & Edit Release Configuration	Choose the type of resource you want to create.	
Domain Structure	Use these pages to create resources in a JMS system module, su	ich as queues, topics, templates, and connection factories.
DFSLLREL_domain D-Domain Partitions D-Environment D-Deployments	like stand-alone queues and topics, connection factories, distribu	I to enter basic information for creating the resource. For targetable resources, ted queues and topics, foreign servers, and JMS SAF destinations, you can also its. You can also associate targetable resources with subdeployments, which is 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
	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
How 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 Quotas to destinations 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'. The following window is displayed.

ORACLE WebLogic Server Administration Console 12c

Change Center	👔 Home Log Out Preferences 💽	Record Help	Welcome, weblogic	Connected to: OFSLLREL_domain					
View changes and restarts	Home >Summary of JMS Modules >Ofsll	OutboundModule							
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.		Create a New JMS System Module Resource Back Next Finish Cancel							
Lock & Edit									
Release Configuration	Connection Factory Properties The following properties will be used	to identify your new connection factory. The cu	rrent module is OfsllOutbour	dModule.					
Domain Structure	* Indicates required fields								
OFSLLREL_domain Domain Partitions Environment	What would you like to name your new	v connection factory?							
Deployments Services	* Name:	OfsIIOutboundCF							
Security Realms 	What JNDI Name would you like to use to look up your new connection factory?								
the Diagnostics	JNDI Name:								
	The Connection Factory Subscription S subscriptions created using this factor	sharing Policy Subscribers can be used to contro y be sharable?	I which subscribers can acce	ss new subscriptions. Should					
	Subscription Sharing Policy:	Exclusive ~							
How do I									
Configure quotas for destinationsConfigure JMS templates		more than one JMS connection can use the san cribers. Subscriptions created with different Clie ould you like to use?							
Configure destination keys	Client ID Policy:	Restricted ~							
Configure topics									
Configure queues		ber of messages that can queued for an asynch	ronous session. Should this	connection factory impose a					
Configure connection factories	limit?								
Configure uniform distributed topics	Maximum Messages per Session:	10							
Configure uniform distributed queues									
Configure foreign servers	Should this connection factory create	sessions that are JTA aware, and create XA que	ues and XA tonics?						

- 6. Specify the following details:
 - Enter the Name of the Connection Factory as 'OfsllOutboundCF'
 - Enter the JNDI Name as 'jms/OfsllOutboundCF'
 - Select the check box 'XA Connection Factory Enabled'



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7. Click 'Next'. The following window is displayed.

ORACLE WebLogic Server Ad	ministration Co	nsole 12c					Õ			
Change Center	î Home	Log Out Prefer	ences 💽 Record Help		Q	Welcome, weblogic	Connected to: OFSLLREL_domain			
View changes and restarts	Home >Sur	mmary of JMS Mo	dules >OfsIlOutboundMoo	lule						
No pending changes exist. Click the Release Configuration button to allow others to edit the	Create a New JMS System Module Resource									
domain.	Back	Finish	Advanced Targeting	g 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 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									
OFSLLREL_domain		ing this resource		pe the default dirgets, di		unced rangeoing to use	and subdeployment meetinism			
Environment Deployments Services Security Realms	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.									
Interoperability Diagnostics	Targets :									
	Servers									
	OFSLL_ManagedServer									
	Back	ext Finish	Advanced Targeting	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 queues										

8. Click 'Advanced Targeting' button. The following window is displayed.

ORACLE	WebLogic Server Administration Console 12c

Configure foreign servers

Change Center	🔒 Home Log Out Preferences 🔤 Record Help						
View changes and restarts	Home >Summary of JMS Modules >OfsilOutboundModule						
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration OrSLLREL_domain OrSLLREL_domain OrSLLREL_domain OrSLLREL_domain OrSLLREL_domain OrSLLREL_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 to use. If you select (none), no targeting will occur.						
⊕-Services — Security Realms ⊕-Interoperability ⊕-Diagnostics	Subdeployments: OfsIlOutboundSD ~ Create a New Subdeployment What targets do you want to assign to this subdeployment? Targets : Servers Servers						
How do I E							
Configure quotas for destinations Configure JMS templates Configure destination keys Configure topics Configure queues Configure connection factories Configure connection factories Configure connection factories	JMS Servers Ø ofslloutboundServer Back Next Finish Cancel						
Configure uniform distributed queues Configure foreign servers							

- 9. Do the following:
 - Select the Subdeployments as 'OfsllOutboundSD' from the drop down list. •
 - Under JMS Servers, select the check box against 'OfsllOutboundServer'. •



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

Change Center	Home Log O	🟦 Home Log Out Preferences 🔤 Record Help					ic Connected to: OFSLLREL_doma			
View changes and restarts Click the <i>Lock & Edit</i> button to modify, add or delete items in this domain.	Messages	Home >Summary of JMS Modules >OfsilOutboundModule Messages # All changes have been activated. No restarts are necessary.								
Lock & Edit	Settings for Ofsl	Settings for OfsIlOutboundModule								
Release Configuration	Configuration	Subdeployments	Targets :	Security	Notes					
Domain Structure										
DFSLLREL_domain -Domain Partitions -Environment	This page displ existing resource		tion about a Ji	MS system	module and its resou	rces. It also allows you to con	figure new resources and access			
Deployments Services	Name:	Name:				The name of this JMS	The name of this JMS system module. More Info			
H=Security Realms ⊕-Interoperability ⊕-Diagnostics	Scope:	Scope:				the domain, a partition	Specifies if the JMS system module is accessible within the domain, a partition, or a resource group template. More Info			
	Descriptor File	Name:	jms/OfsllOut	boundModu	ıle-jms.xml	The name of the JMS Info	The name of the JMS module descriptor file. More Info			
							and topic destinations, connection store-and-forward parameters.			
How do I			in sore nojoj u	countraction						
Configure quotas for destinations	Customize th	is table								
Configure JMS templates	C									
Configure destination keys	Summary of R									
Configure topics	Click the Lock	& Edit button in the	Change Cente	er to activa	te all the buttons on	this page.				
Configure queues	New Delet	9				Sh	owing 1 to 1 of 1 Previous Next			
	terminal furnition	-								
Configure connection factories Configure uniform distributed topics	🔲 Name 🗟	Тур	e	J	NDI Name	Subdeployment	Targets			
Configure connection factories Configure uniform distributed topics Configure uniform distributed queues Configure foreign servers	OfsilOutbo		e lection Factory		NDI Name	OfsllOutboundSD	Targets OfsllOutboundServer			

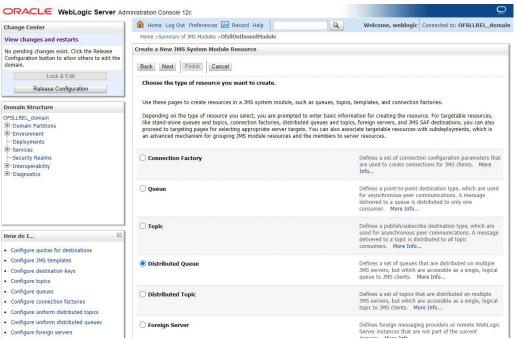
9.3.6 Create JMS Queue

- 1. 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 'OfsllOutboundModule'. The following window is displayed.

ORACLE WebLogic Server A	dministration Console	12c						Č		
Change Center	Home Log O	🟦 Home Log Out Preferences 🖾 Record Help								
View changes and restarts	Home >Summary	Home >Summary of JMS Modules >OfsIlOutboundModule								
Click the Lock & Edit button to modify, add or	Settings for Ofsl	Settings for OfsllOutboundModule								
delete items in this domain.	Configuration This page displa	This page displays general information about a JMS system module and its resources. It also allows you to configure new resources and access								
Domain Structure	existing resource	es.								
OFSLEEL_domain De-Domain Partitions De-Domain Partitions De-Domain De-Domain De-Domain De-Services De-Services De-Services De-Domain Partitions De-Services De-Domain Partitions De-Domain	Name:		OfsllOutbou	ndModule			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	jms/OfsllOutboundModule-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.								
How do I										
 Configure quotas for destinations Configure JMS templates 		Summary of Resources Click the Lock & Edit button in the Change Center to activate all the buttons on this page.								
Configure destination keys	New Delete	New Delete Showing 1 to 1 of 1 Previous								
Configure topics	Name 🚸	Туре			INDI Name		Subdeployment	Targets		
Configure queues			1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		NUT DESCRIPTION		and a second second			
Configure connection factories	OfsllOutbo		ection Factor	y j	ms/Ofs <mark>l</mark> lOutbou	INDCF	OfsllOutboundSD	OfsllOutboundServer		
Configure uniform distributed topics Configure uniform distributed queues	New Delete						Sho	wing 1 to 1 of 1 Previous Next		
Configure foreign servers										



4. Click 'New'. The following window is displayed.



5. Select the 'Distributed Queue' option and click 'Next'. The following window is displayed.

ORACLE WebLogic Server Administration Console 12c

Change Center	🙆 Home Log Out Preferences 🔤 Record Help
View changes and restarts	Home >Summary of JMS Modules >OfsilOutboundModule
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
Release Configuration	JMS Distributed Destination Properties The following properties will be used to identify your new Distributed Queue. The current module is OfsilOutboundModule
Domain Structure	* Indicates required fields
OFSLLREL_domain -Domain Partitions -environment	What would you like to name your new destination?
Deployments Services	* Name: OfsllOutboundQueue
Security Realms	What JNDI Name would you like to use to look up your new destination?
Diagnostics	JNDI Name: jms/OfsilOutboundQueue
	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 quotas 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	Template: None V
Configure destination keys	Template: None V
Configure topics	Back Next Finish Cancel
Configure queues	Back Next Finish Cancel
Configure connection factories	
Configure uniform distributed topics	
Configure uniform distributed queues	
Configure foreign servers	

- 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/OfsllOutboundQueue'
 - Select the Template as 'None'



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7. Click 'Next'. The following window is displayed.

Configure foreign servers

nistration Console 12c Q
🏠 Home Log Out Preferences 🔛 Record Help
Home >Summary of JMS Modules >OfsllOutboundModule
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
Back Next Finish Advanced Targeting Cancel

8. Click 'Advanced Targeting' button. The following window is displayed.

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 OFSLLREL_domain &-Domain Partitions &-Domain Partitions &-Denyoments &-Services &-Security Realms &-Interoperability &-Diagnostics	Create a New JMS System Module Resource Back 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, duterte, or SAT 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 Verseta a New Subdeployment. What targets do you want to assign to this subdeployment? Targets :
How do I	OFSLL_ManagedServer
Configure quotas for destinations Configure JMS templates Configure destination keys Configure topics	JMS Servers OfsllOutboundServer
Configure option Configure queues Configure connection factories Configure uniform distributed topics Configure uniform distributed queues Configure foreian servers	Back Next Finish Cancel

9. Select the Subdeployments as 'OfsllOutboundSD' 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 Ou	it Preferences 🛃	Record Help		Q	Welcome, w	eblogic Cor	nnected to: OFSLLREL	_doma
View changes and restarts	Home >Summary o Messages	of JMS Modules >0	fsllOutboundM	odule					
Click the Lock & Edit button to modify, add or delete items in this domain.	🛷 All changes h	ave been activate	d. No restarts a	ire necessa	ry.				
Lock & Edit	Settings for Ofsile	OutboundModu	le						
Release Configuration	Configuration	Subdeployments	a Targets	Security	Notes				
Domain Structure									
OFSLLREL_domain Domain Partitions Environment	This page displa existing resource		ation about a J	MS system	module and its resource	es. It also allows you	to configure	new resources and acc	ess
Deployments B-Services	Name:		OfsllOutbour	ndModule		The name of th	is JMS system	n module. More Info	
Security RealmsInteroperabilityDiagnostics	Scope:		Global			Specifies if the the domain, a p template. Mor	artition, or a	nodule is accessible with resource group	hin
	Descriptor File I	Name:	jms/Ofs <mark>l</mark> lOut	boundMod	ule-jms.xml	The name of th Info	e JMS module	e descriptor file. More	
How do I	This page summ factories, JMS te	arizes the JMS re mplates, destinat	sources that ha ion sort keys, d	ve been cr estination	eated for this JMS syste quota, distributed destin	m modu <mark>le, inclu</mark> ding ations, foreign serve	queue and to rs, and store-	pic destinations, conne and-forward parameter	ction rs.
 Configure quotas for destinations 	Customize this								
and the second se									
Configure JMS templates Configure destination keys Configure topics		Edit button in th	e Change Cent	er to activa	te all the buttons on thi	s page.			
Configure destination keys Configure topics Configure queues			e Change Cent	er to activa	te all the buttons on thi	s page.	Showing	1 to 2 of 2 Previous	Next
Configure destination keys Configure topics	Click the Lock &]	e Change Cent	er to activa	JNDI Name		Showing ployment	1 to 2 of 2 Previous	Next
Configure destination keys Configure topics Configure queues Configure connection factories	Click the Lock &	т				Subde		accounts.	

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

9.4 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 thirdparty applications (client) through specific https communication channel.

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

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.

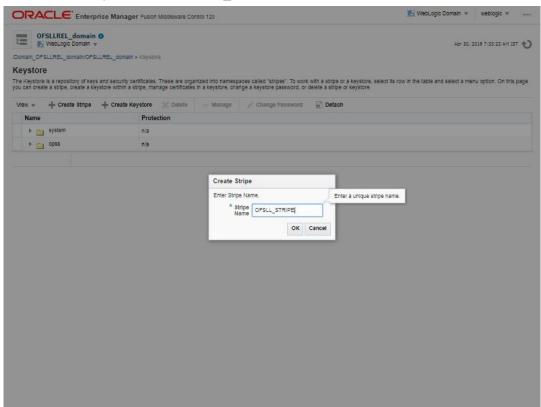
Cherpha	PC INIA	nager Fusion Middleware Control 12c					Home WebLogic Domain V weblogic	_
OFSLLREL_domain O							Monitoring Diagnostics	
Servers		Administration Server	Sanar				Control Logs	
3 up		Host mum0		cle.com			Environment Deployments	
Clusters	ī	Servers	1	_			JDBC Data Sources Messaging	
Clusters	Þ	View v Create X Delete	Status	Cluster	Machine	State	Cross Component Wiring Web Services Other Services	
		AdminServer(admin)	+			Running	Administration	
eployments		OFSLL_ManagedServer	+			Running	Refresh WebLogic Domain	
		WS_ManagedServer	+		Security R	Running	Security	
2 up	4				Security A	dministration ce Security	JNDI Browser System MBean Browser & WebLogic Server Administration Cons	sole
omain Partitions O Domain Partitions	÷				Application System Po	n Roles	Target Sitemap Target information	
Resource Group Templates						rovider Configuration stration and Policy s		
					Keystore			
		4					_	
		Columna Hidde	n 34				Server	

3. Click on 'Create Stripe'.

OR	ACLE Enterp	rise Manager Fusion	Middleware Co	ontrol 12c			🎇 WebLogic Domain 💌 🛛 weblogic 💌 📖
	OFSLLREL_domain						Apr 30, 2019 7:55:25 AM 15T 👈
/Domain_	OFSLLREL_domain/OFS	LLREL_domain > Keysto	re				
Keyst	ore						
The Keys you can c	tore is a repository of key reate a stripe, create a ke	s and security certificates ystore within a stripe, ma	. These are organage certificate	anized into names; s in a keystore, cha	baces called "stripes". To work ange a keystore password, or i	with a stripe or a keystore, se delete a stripe or keystore.	elect its row in the table and select a menu option. On this page
View +	+ Create Stripe	+ Create Keystore	🗙 Deleta	oo Manage	/ Change Password	Detach	
Nam	ne	Prote	ction				
+	isystem	n/a					
+	💼 орее	n/a					



4. Enter the Stripe Name as 'OFSLL_STRIPE'.



5. Click 'OK'. The following OFSLL_STRIPE is created.

DRA	CLE Enterp	rise Manager Fusio	1 Middleware Contro	ol 12c			🎇 WebLogic Domain 👻 🛛 weblogic 👻 🔒
	SLLREL_domain WebLogic Domain +	0					Apr 30, 2019 7:55:25 AM 15T
) Informa	ation						1
	pe OF SLL_STRIPE ha	as been created.					
omain_OFS	SLLREL_domain/OFSL	LLREL_domain > Keysto	ire				
eystore	e						
e Keystore	is a repository of keys	and security certificates	. These are organiz	ted into namesp	aces called "stripes". To work inge a keystore password, or	with a stripe or a keystore,	select its row in the table and select a menu option. On this pag
		,	and a second second	o nejetire, ene	nge e nejenne posenere, er		
/lew w	+ Create Stripe	+ Create Keystore	X Delete	co Manage	/ Change Password	Detach	
Name		Prote	ection				
+	system	n/a					
10	ораа	n/a					
-	OFSLL_STRIPE	n/a					
		Final Sector					

6. Select the newly created 'OFSLL_STRIPE' and click 'Keystore'.



7. Enter the Keystore Name as 'OFSLL_KSS' and click 'OK'.

	SLLREL_domain 0 WebLogic Domain +						Apr 30, 2019 7:53	and the second
Informa The strip	ition be OFSLL_STRIPE has bee	en created.						l.
	LLREL_domain/OFSLLREL	_domain > Keystore						
eystore e Keystore u can create	is a repository of keys and s	ecurity certificates. These are orga within a stripe, manage certificates	anized into names	and a baurbara approximate	work w	ith a stripe o	or a keystore, select its row in the table and select a menu option	. On this pag
new 🐨	+ Create Stripe + (Create Keystore 🗙 Delete	oreate ney.	1010			-	
Name		Protection	Keystore Stripe	OFSLL_STRIPE				
*	system	n/a	Name					
+ 100	орья	n/a	* Keystore Name	OFSLL_KSS				
-	OFSLL_STRIPE	n/a	Protection	Policy Password	1			
			Keystore					
			Paseword					
			Confirm Password					
			Grant	<u>.</u>				
			Permission	9				
			Code Base					
					OK	Cancel		
			1			Second Second		

8. Select 'OFSLL_KSS' and click 'Manage'..

	SLLREL_domain () WebLogic Domain +					Apr 30), 2019 8:01:03 AM IST 4
main OFS	LLREL_domain/OFSLLREL	domain > Keystore					
	7	-					
e ystore e Keystore I can create	is a repository of keys and a	ecurity certificates. Thes within a stripe, manage (e are organized into namesp certificates in a keystore, cha	aces called "stripes". To worl nge a keystore password, or	k with a stripe or a keystore, delete a stripe or keystore.	select its row in the table and select a r	menu option. On this pa
lew w	+ Create Stripe + C	Create Keystore 🗙	Delete 💿 Manage	/ Change Password	Detach		
Name		Protection					
1	system	n/a					
1	орье	n/a					
-	OFSLL_STRIPE	n/a					
	CFSLL_KSS	Policy					



9. Click 'Import'.

	NebLogic Domain 👻						Apr 30, 2019 8:03:02 AM 15T
main OFSL	LLREL domain/OFSLLF	REL_domain > Keystore > I	Manage Certificates				
anage C	Certificates: OF	SLL STRIPE/OF	SLL KSS				
le and click "	"Generate CSR". After	you create a CSR, send it to	o your CA who will verify your	ned by the Demo CA, Identity and return the	olick "Generate Key signed certificate. T	pair". To generate a Certificate Signing Request fo import the CA signed certificate or trusted cert,	(CSR), select a certificate fi click import. You can only
ort the CA-s	signed certificate into th	e same keystore from whic	h the CSR was generated.				
lew w	+ Generate Keypair	🚊 Generate C SR	🛃 Import 👌 Expor	t 🗙 Delete	🥖 Change Pass	word	
Alias	Subject Nam	e		Certificate Type	Serial Number	Certificate SHA1 Fingerprint	Expiration D
Certificates	s Found. Click on "Gen	erate Keypair" to create a C	Certificate.				

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

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

	prise Manager Fu	sion Middleware Control 12c		🔠 WebLogic Domain 👻	weblogic w
OFSLLREL_domain	*			Apr 30	2019 8:03:02 AM 15T 👈
/Domain_OFSLLREL_domain/OF	SLLREL_domain > Ke	ystore > Manage Certificates			
Manage Certificates:					
To generate a new key pair (public table and click "Generate CSR", A	c and private key) and After you create a CSR.	wrap the public key into a certificate signed send it to your CA who will verify your ider	by the Demo CA, click "Generate Keypair". To generat My and return the signed certificate. To import the CA s	e a Certificate Signing Request (CSR) Igned certificate or trusted cert, click I	, select a certificate from mport. You can only
Import the CA-signed certificate in	Import Certificate				
View 👻 斗 Generate Key	Certificate Type	Trusted Certificate V		_	
Alias Subject	* Allas	EXTERNALINTERFACE-0.			Expiration Date
	Certificate Source	Paste Certificate or Certificate Chain			
		Paste Certificate String here			
				4	
		Select a file that contains the Certificat	e or Certificate Chain		
		* File Name	Choose File containing a valid certificate.		
		Choose File root.cer			
				OK Cancel	
				County (Countral)	



11. Click 'OK'.

9.5 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.

- 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. The following window is displayed.

OFSLLREL domain ()			
WebLogic Domain +			Sep 16, 2017 3:51:40 PM
in_OFSLLREL_domain/OFSLLREL_domain > Cre	edentials		
dentials			
lential store is the repository of security data that o lidated service provider to store and manage their	ertifies the authority of entities used b credentials securely.	y Java SE, Java EE, and ADF a	pplications. Applications can use the Credential Store, a si
redential Store Provider			
🔹 🕂 Create Map	🖉 Edit 🔀 Delete	Credential Key Name	Detach
redential		Туре	Description
ofsll.http.listener.jndi			

3. Click 'Create Map'. The following window is displayed.

	spectrum Dilesconggars -	second bitchelingeners manufact 1965		Weis Volate Courses	ry
				33	. 16. 2017 3.51.40 PM IST -
redentiata				apphoationa, Apphoationa -	oan use the Gredenital Store
View Create Map	-d- Create Hary		The surface of the owner		Detaute
Credential	Create Mags				
		Map Marrie afait in horman		Ors Convet	

- 4. Enter Map Name as 'ofsll.int.bureau' and click 'OK'.
- 5. Click 'Create Key'. The following window is displayed.

Information The credential key, sdfsf, h	as been created	1		
omain_OFSLLREL_domain/OF		n > Credentials		1
redentials predential store is the repositor	Create Key		x	te Credential Store, a single
nsolidated service provider to s	Select Map	ofsilint.bureau 🔻		te credetcar biore, a single
Credential Store Provider	* Key	jdbc_ds_key		
/iew + Create Map	Type	Generic 🔻		Detach
Credential	Description	Queue App Datasource		
🕨 💼 ofsil http://stener.jr			1	
ofsilint.bureau		Enter as text Enter map of property name and value pairs		
	* Credential	jstor Queue AppDS		
			1.	
	4			
	4		OK Cancel	
			transferration A	

- 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.

Maps	Keys	Description
ofsll.int.bur eau		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 config- ured.
	ExpDirectExperianEna- bled	If you set value as true, then you would be set- ting ecals response URL. Else, the Ecals request URL
	ExpCertPath	The location of .jks file which contains the valid certificate for Experian Credit Bureau.
	ExpBusUserNamePass- word	Login Credentials to be configured for Experian Business reports.
	ExpConUserNamePass- word	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 access- ing Equifax Reports.
	TucCertPath	The location of .jks file which contains valid cer- tificate for Transunion Bureau.
	TucCertPassword	The password that requires to read the valid .jks certificate for the Transunion Bureau.
	TucUserNamePassword	Login credentials to be configured for access- ing 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.out bound		This map is used to setup keys for the Route- One and Dealer track call back from OFSLL.



Maps	Keys	Description
	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 out- bound Resources.
	roPostDealerUsername- Passwd	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
	dtPostDealerUsername- Passwd	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
	TorqueItsUserName- Password	Credentials required to connect to Torquelts web service
	TorqueItsURL	Torquelts Decision service URL
	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 interface with BIP to generate reports.
	local_top_dir	Define the path of the local BIP 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.properties' file that contains the content of the subject and body required while sending letter, report or correspondence as mail to the applicant or producer.
		For example; /tmp/file.properties *Refer to note below for details on 'file.proper- ties' file creation for email configuration.
	fax_server	Configure the name of Fax server to be used to fax the generated BIP reports.



Maps	Keys	Description
	jdbc_ds_key	Datasource configured to retrieve data for BIP.
ofsll.int.file transfer		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
ofsll.int.se curity	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 which contains the valid certificate for GRI.
		Configure only when a valid certificate is available.
ofsII.int.co mmon		This map is used to setup keys for common JMS Queue
	OfsIIJMSQueueJNDI	The JMS queue JNDI name to be configured
	OfsIIJMSQueueCF	The JMS queue connection factory to be con- figured
	OfsIIJMSServerURL	The JMS server url to be configured.
		Ex: t3:// <jms host="" server="">:<jms port="" server=""></jms></jms>
	outbound_jms	The JMS connection factory to be configured.
	queue_con_factory	jms/OfsllOutboundCF
	outbound_jms_queue	The JMS queue to be configured.
		jms/OfsllOutboundQueue



Maps	Keys	Description
	weblogic_cluster_ind	This is to be configured based on the environ- ment i.e. for weblogic cluster environment set it as 'Y'. Else, set it to 'N'.
	oubtbound_jms queue_provider_url	The JMS server url to be configured. Ex: For non clustered environment - t3:// <jms server host>:<jms port="" server=""> Ex: For clustered environment - t3://<jms server host>:<jms port="" server="">,<jms server<br="">host>:<jms port="" server=""></jms></jms></jms></jms </jms></jms
ofsll.int.we bhook	jdbc_ds_key	Datasource configured to retrieve data for Web- hook.

* 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'
- 9. On the left panel, right click on OFSLLREL_domain and select Security > System Policies. The following window is displayed.

	ACLE.E	nterprise Manager	Fusion Middleware Control 12c	n WebLogic Domain 🔻 🛛 weblogic 🐨	
	OFSLLREL do			Sep 16, 2017 4:00:38 PM IST	e
omair	_OFSLLREL_doma	in/OFSLLREL_domain > \$	System Policies		
yste	m Policies				
ystem odebas		em-wide policies applied t	o all applications deployed to current management	domain. You can grant special permissions and privileges to principal o	ar.
Pol	icy Store Provider				
🖌 Sea	irch				
elect a	grant type and ente	er search keyword for code	base or principal to query system security grants.		
	Туре	Codebase	\checkmark		
	Name	Starts With	•		
View		Create Like	/ Edit 🗙 Delete	E7 [n] Detac	h
1		63			
Na	me				
No sec	urity policies found.				



10. Click 'Create'. The following window is displayed.



11. Enter the codebase as 'file:\${domain.home}/lib/OfsllCommonCSF.jar'

12. Click 'Add'. The following window is displayed.

	domain/OFSLLREL_domain > Syste	em Policies > Cre	ate System Grant		
Create System	Add Permission				OK Canor
There are two different users or roles. Codeba relative path.	Select from permissions and reso Search	urces used in sys	tem policies of this d	omain. Enter search criteria to search for right permi	rivileges to a list of issions. her absolute path o
Grant To Codeb * Codebase file \${c		Codebase	~		
Permissions	Name		•		
View +	Search Results				
Permission Cla	Name		Туре	Permission	ion Actions
No permissions adde	No permissions found.				-
	Select here to enter details for a	new permission	n 🗹		
	* Permission Class	oracle.security.j	ps.service.credstore	CredentialAccessPermission	
	Resource Name	context=SYSTE	M,mapName=ofsll.ir	nt bureau,keyName=*	
	Permission Actions	read			
				ок	Cancel

13. Select the check box 'Select here to enter details for a new permission'.

14. Specify the following details as the first permission class.

Permission Class	Resource Name	Permission Actions
oracle.security.jps.service.cred- store.CredentialAccessPermission	context=SYSTEM,mapN- ame=ofsll.int.bureau,keyName=*	read
oracle.security.jps.service.cred- store.CredentialAccessPermission	context=SYSTEM,mapN- ame=ofsll.int.filetransfer,key- Name=*	read
oracle.security.jps.service.cred- store.CredentialAccessPermission	context=SYSTEM,mapN- ame=ofsll.int.outbound,key- Name=*	read
oracle.security.jps.service.cred- store.CredentialAccessPermission	context=SYSTEM,mapN- ame=ofsll.int.bip,keyName=*	read
oracle.security.jps.service.cred- store.CredentialAccessPermission	context=SYSTEM,mapN- ame=ofsll.int.gri,keyName=*	read
oracle.security.jps.service.cred- store.CredentialAccessPermission	context=SYSTEM,mapN- ame=ofsll.int.common,keyName=*	read



Permission Class	Resource Name	Permission Actions
oracle.security.jps.service.cred- store.CredentialAccessPermission	context=SYSTEM,mapN- ame=ofsll.http.listener.jndi,key- Name=*	read
oracle.security.jps.service.cred- store.CredentialAccessPermission	context=SYSTEM,mapN- ame=ofsll.int.webhook,key- Name=*	read, write, update
oracle.security.jps.service.key- store.KeyStoreAccessPermission	stripeName=OFSLL_STRIPE,key storeName=OFSLL_KSS,alias=*	read

15. Click 'OK'.

9.6 Deploy MDB EJB

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

SIGN IN TO ORACLE ENTERPRISE MANAGER FUSION MIDDLEWARE CONTROL 12c
Domain_OFSLLREL_domain * User Name * Password Login to Partition Bign in

2. Enter valid login credentials. The following window is displayed.

OFSLLREL_domain					° <u>n</u> -	Auto Refresh Off Sep 26, 2017 8:15:37 PM 19	
Information							(
Servers 3 Up	Administration Server Name Administrever		n the lock, clici	Cock and	l Edit" in the Chang	e Center menu.	
Clusters	Host ofsillin.orack Listen Port 9001 Servers						
O ► Clusters	View - 🔛 Create 💥 Delete		C 7				
clusters	Name		er Machine	State	Health	Listen Port	
	AdminServer(admin)	1		Running	OK	9001	
Deployments	OFSLL_ManagedServer	+		Running	OK	9003	
3 up	WS_ManagedServer			Running	- Cit	6004	
Domain Partitions							
Domain Partitions							

3. Select 'Lock & Edit' option in the lock drop-down list available in the header.



ORACLE

4. Click 'Deployment' in the left panel. The following window is displayed.

OFSLLREL_domain							-	Edit Sessions	Auto Refresh	Off
Information	s avail:	able only when you own the edit sessi	on lock. T	o obtain th	ne lock, click	"Lock and	Edit" in t	Lock & Edit View Change L		6
Servers 3 Up	Ac	Iministration Server Name AdminServe Host ofsil.in.oracl Listen Port 9001						View & Resolv Release Config Activate Chang Undo All Chang View Restart C	juration les ges	-
Clusters		iew 🕶 🎽 Create 🛛 🗶 Delete	Contro	* E7				Preferences Help		-
Clusters		Name	Status	Cluster		State	Health		Listen Port	5
		AdminServer(admin)	+			Running	ок		9001	
		OFSLL_ManagedServer	+			Running	OK		9003	
Deployments		WS_ManagedServer	1			Running	OK		9004	
3 Up										
Domain Partitions										
Resource Group Templates		<								>

5. 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 per	nding changes e	xist.					1
Servers		Deployme	ents						
		View +	Show All	Deployment - Override -	Contr	ol +			
3 up			Name	18 Deploy	Status	State	Health	Туре	Domain Pa
			opss-rest	Redeploy	3	Active	OK	Web Application	
0	2								
Clusters Deployments 1 up	•								
Deployments	×								



6. The following window is displayed.

Conception of the server where Enterprise Manager is running. Conception of the deployment plan to the deployment plan of the application is deployment plan of the deployment	FSLLREL_domain	0									
Deploy Java EE Application: Select Archive Interview	•										
Scope Secope Select a scope that you want to deploy this application to Global Archive or Exploded Directory Days EE archives. Web Modules (PLB LAR files), Resource Adapter Modules (RAR files), Coherence Archives (CAR files), The Exercise Mean age is running. Archive a randomized directory is on the server Archive a randomized directory is on the server where Enterprise Manager is running. Browsen: Deployment Plan The deployment plan is a file that contains the deployment settings for an application. You can use a previously saved deployment plan for this deployment plan is in file source planeabled directory a the deployment settings for an application. You can use a previously saved deployment plan for this deployment plan is in file that contains the deployment settings for an application. You can use a previously saved deployment plan for this deployment plan is not applicable when you deploy a lorary. Console the wedployment plan is not applicable when you deploy a lorary. Console the wedployment plan is not period when the where this Web browser is running. Console the wedployment plan is not period when you deploy a lorary. Console the wedployment plan is not period when you deploy a lorary. Console the wedployment plan when deployment configuration is done. Console the nachive where this Web browser is running. Choose the Nachove when this Web browser is running. Choose the nachove when this Web browser is running. Choose the nachove when this Web browser is running. Choose the Nachove howser when this Web browser is running.	Select Archive	Select Target	Application Attributes	Deployment Set	ttings						
Select a scope that you want to deploy this application to Global Archive or Exploded Directory Law EE archives. Web Modules (PLB LAR files), Resource Adapter Modules (RAR files), Coherence Archives (CAR files), The Bacaylase (PLB Resource Adapter Modules (RAR files), Coherence Archives (CAR files), The Bacaylase (PLB Resource Adapter Modules (RAR files), Coherence Archives (CAR files), The Bacaylase (PLB Resource Adapter Modules (RAR files), Coherence Archives (CAR files), The Bacaylase (PLB Resource Adapter Modules (RAR files), Coherence Archives (CAR files), The Bacaylase (PLB Resource Adapter Modules (RAR files), Coherence Archives (CAR files), The Bacaylase (PLB Resource Adapter Modules (RAR files), Coherence Archives (CAR files), The Bacaylase (PLB Resource Adapter Modules (RAR files), Coherence Archives (CAR files), The Bacaylase (PLB Resource Adapter Modules (RAR files), Coherence Archives (CAR files), The Bacaylase (PLB Resource Adapter Modules (RAR files), Coherence Archives (CAR files), The Bacaylase (PLB Resource Adapter Modules (RAR files), Coherence Archives (CAR files), The Bacaylase (PLB Resource Adapter Modules (RAR files), Coherence Archives (CAR files), The Bacaylase (PLB Resource Adapter Modules (RAR files), Coherence Archives (CAR files), The Bacaylase (PLB Resource Adapter Modules (RAR files), Coherence Archives (CAR files), The Bacaylase (PLB Resource Adapter Modules (RAR files), Coherence Archives (CAR files), The Bacaylase (PLB Resource Adapter Modules (RAR files), Coherence Archives (CAR files), The Bacaylase (PLB Resource Adapter Modules (RAR files), Coherence Archives (CAR files), The Bacaylase (PLB Resource Adapter Modules (RAR files), Coherence Archives (CAR files), The Bacaylase (PLB Resource Adapter Modules (RAR files), Coherence Archives (CAR files), The Bacaylase (PLB Resource Adapter Modules (RAR files), Coherence Archives (CAR files), The Bacaylase (PLB Resource Adapter Modules (RAR files), Coherence Archives (CAR files), The Bacaylase (PLB Resource Adapter Modules (RAR file	Deploy Java EE	Application: Sel	ect Archive					Back	Step 1 of 4	Next	Cancel
Archive or Exploded Directory dry Egenthyse, XWe Mondules (WAR files), EJB Mondules (EJB JAR files), Resource Adapter Modules (BAR files), Coherence Archives (BAR files), Coherence Archive	Scope								Informatio		
A richive or explored directory is on the server where Enterprise Manager is running. A richive or explored directory is on the server where Enterprise Manager is running. Browsen Deployment Plan The deployment plan is 1 The deployment plan is 0 Deployment plan is 0 Deployment plan is 1 Deployment plan is not explored automaticable during the deployment plan and save it for a future deployment plan for this application. Tryou deploy a library So rest as a we deployment plan when deployment configuration is done. Deployment plan is not machine where this Web browser is running. Denove the Not deployment plan to the machine where this Web browser is running. Denove the Not deployment plan to the machine where this Web browser is running. Denove the Not deployment plan to the machine where this Web browser is running. Denove the Not deployment plan to the machine where this Web browser is running. Denove the Not deployment plan is not the machine where this Web browser is running. Denove the Not deployment plan to the machine where this Web browser is running. Denove the Not deployment plan to the machine where this Web browser is running. Denove the Not deployment plan to the note one Note	Archive or Explode Java EE archives, Web JDBC Modules, JMS M where Enterprise Mana & Archive is on the m	nd Directory Modules (WAR files), EJB odules, and Ibrary files (Jar ger is running achine where this Web bro	Modules (EJB JAR files), I files) can be deployed. Y					aper Poco	e advantage of plications that plication Deve imework (Ora our applicatio mposite, use t mposite deplo	require C as (MDS) of the Ora cle ADF). n is a SO he SOA syment wi	A zard.
Consider Than Consider The	the second se		where Enterprise Manage	er is running.				ME	mposite or it d S repository mections, the prapolication	oes not no or ADF n you car using this	equire a deploy wizard
The deployment plan is a file that contains the deployment settings for an application. You can use a previously awed deployment plan for this application. Law in the deployment provides, you do not polarize that the deployment plan and easy to for a future deployment of this application. You deploy the test of the deployment of the							Browse	Ad	ministration C	onsole.	erver
	The deployment plan is application. Later in the do not have a deployme deployment plan is not a © Create a new depl © Deployment plan is Choose file No	deployment process, you'c ent plan, one will be created pplicable when you deploy syment plan when deploym o on the machine where this o file chosen	an optionally edit the depl i automatically during the i a library. ent configuration is done. Web browser is running.	loyment plan and a	save it for a future dep	ployment of this ap	plication. If yo	u			
Browse							Browse				

- 7. Browse to the folder containing the MDB EJB. Eg: C:/OfsllQueueApp.ear
- 8. Click 'Next'. The following window is displayed.

	_domain 🚯		
Select Ar		Discation Attributes Deployment Settings	
eploy .	Java EE Application: Select	Target	Back Step 2 of 4 Next Car
Select th	e WebLogic server or cluster that you wa	nt this application to be deployed to.	
Select	Name	Туре	Deployed Applications
6000	AdminServer	Oracle WebLogic Server	100
100	OFSLL_ManagedServer	Oracle WebLogic Server	00
100	WS_ManagedServer	Oracle WebLogic Server	~~~

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

DFSLLREL_domain	n 🕜												
0	0		-	_									
Select Archive	Select T	arget	Application Attributes	Dep	loyment Setti	tings							
Deploy Java E	E Applicat	tion: App	lication Attrib	utes					Back	Step 3 of 4	Next	Deploy	Cano
A Hide Deployment	Summary												
Ar	rchive Type J	ava EE Applica	tion (EAR file)										
Deplo	yment Plan C	reate a new pla	an										
Deployn	ment Target O	FSLL_Manage	dServer										
	Scope G	lobal											
Deploy	yment Type A												
		pplication	P										
* Appl	yment Type A	OfsIIQueueAp The ap distribu	plication source files a sted to the deployment oful, the application is	t targets.	If distribution	n is							
* Appl	-	OfsIIQueueAp	plication source files a sted to the deployment oful, the application is	t targets. then sta	If distribution rted on each .	n is							
* Appl	-	OfsliQueueAp The ap transition succes The starts succes argets of Install and of Install and	plication source files : sted to the deployment sful, the application is start application (service) start application in ad	t targets. then star	If distribution rted on each equests)	of the	dministration	requests)					
* Appl	-	OfsilQueueAp The ap distribu succes targets (* Install and	plication source files : sted to the deployment sful, the application is start application (service) start application in ad	t targets. then star	If distribution rted on each equests)	of the	dministration	requests)					
	-	OfsliQueueAp The ap transition succes The starts succes argets of Install and of Install and	plication source files : sted to the deployment sful, the application is start application (service) start application in ad	t targets. then star	If distribution rted on each equests)	of the	dministration	requests)					
* Appl Distribution	lication Name	OfsilQueueAp The ap distributes e Install and Install and Install only	plication source files : sted to the deployment sful, the application is start application (service) start application in ad	t targets. I then star vicing all r iministrati	If distribution rted on each equests) on mode (ser	of the	dministration	requests)					
* Appl Distribution	lication Name	OfsilQueueAp The ap distribution targets e Install and install and install only defined by the	plication source files : ted to the deployment stut the application is start application (serv start application (serv start application in ad , Do not start.	t targets. then star vicing all r iministrati	If distribution red on each equests) on mode (ser	n is of the revicing only a ction.			servers to	which the ap	oplication	is targeted.	

11. Select the option 'Install and start application (servicing all requests)'.



12. Check the context root and click 'Next'. The following window is displayed.

FSLLREL_domain 🚯												
	C ct Target Applica	O ion Attributes	Deploy	ment Settir	ngs							
Deploy Java EE Applic	cation: Deploym	ent Settin	gs					Back	Step 4 of 4	Next	Deploy	Cance
d Hide Deployment Summary												
Archive Type	Java EE Application (EA	R file)										
Deployment Plan	Create a new plan											
Deployment Target	OFSLL_ManagedServe											
Scope	Global											
Deployment Type	Application											
Application Name	OfsliQueueApp											
Version	Not versioned											
Deployment Mode	Install and start applicat	on (servicing al	Il requests)	i.								
Deployment Tasks The table below lists common task	ks that you may wish to do	before deploy	ing the app	lication.								
Name	Go To Task	Description	n									
Configure EJBs	/	Configure th	he Enterpris	se Java Bea	ans in your ap	plication.						
Configure Application Security	/	Configure a	pplication p	oolicy migrat	tion, credenti	al migration	and other sec	urity be	havior.			
Jeployment Plan												
							asks above do					

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

Deployment Suc	ceeded
Deployment of Applicat to activate or undo the	tion "OfsIIQueueApp" is completed. The deployment changes are pending activation. Exit the wizard and use the Change Center changes.
Summary	
Scope	Global
Version	Not versioned
	/u01/Middleware/Weblogic12cHome/user_projects/domains/OFSLLREL_domain/sysman/upload/deploy/OfsIIQueueApp/archive/ OfsIIQueueApp.ear
Archive Type	Java EE Application (EAR file)
Deployment Mode	Install and start application (servicing all requests)
Deployment Target	OFSLL_ManagedServer
Application States	Unavailable (OFSLL_ManagedServer)
A Hide Progress Mes	sages
[16 September 201 [16 September 201 OfsliQueueApp/arc [16 September 201 occurs, task proce	17 15:4507 of oldock [51] Initiating deploy operation
<u>, (1</u>	5

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.

Note

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



10. Configure Oracle JET

Oracle JavaScript Extension Toolkit (Oracle JET) is a complete yet modular JavaScript development toolkit helping developers build engaging user interfaces. Based on industry standards and popular open-source frameworks, Oracle JET further adds advanced functionality and services to help developer build better applications faster.

For more information, refer to https://www.oracle.com/application-development/technologies/ jet/oracle-jet.html

The following steps are to be performed to configure Oracle JET through the Weblogic Console:

- Create Data Sources for Oracle JET
- Deploy Oracle JET

10.1 Create Data Sources for Oracle JET

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

Log In to work with the WebLogic Server domain Username: Passvord:	
	Username:



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

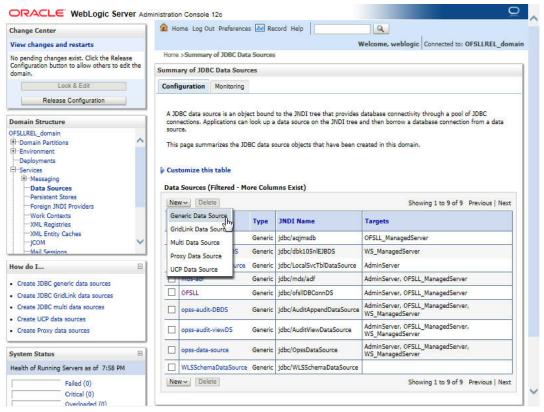
Change Center	🙆 Home Log Out Preferences 🔤	Record Help	2				
View changes and restarts		Welco	me, weblogic Connected to: OFSLLREL_dom:				
Click the Lock & Edit button to modify, add or	Home						
delete items in this domain.	Home Page						
Lock & Edit	- Information and Resources						
Release Configuration							
Domain Structure	Helpful Tools	General Information					
OFSLLREL domain		Configure applications Common Administration Task Descriptions					
Domain Partitions	 Configure GridLink for RAC Data Source 	 Read the documentation Ask a question on My Oracle Sup 					
Environment	Configure a Dynamic Cluster	 Ask a question on My oracle sup 	pore				
Deployments Services	Recent Task Status						
Security Realms	Set your console preferences						
Interoperability Diagnostics	Oracle Enterprise Manager						
er blagnosocs	- Domain Configurations						
	Domain	Resource Group Templates	Interoperability				
	Domain	Resource Group Templates	WTC Servers				
			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	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 1MS Servers	Archives Context				
System Status	Migratable Targets Coherence Clusters	 JMS Servers Store-and-Forward 	Context SNMP				
	Coherence Clusters Machines	 Store-and-Forward Agents 	Interceptors				
Health of Running Servers as of 11:23 AM	Machines Virtual Hosts	JMS Modules	- Arrow Support				
Failed (0)	Virtual Hosts Virtual Targets	Path Services	Charts and Graphs				
Critical (0)	White Managers	 Bridges 	Masitarina Dashbaard				

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

Change Center		Home Log	Out Preferences	🚵 Re	cord Help	Q			
View changes and restarts					v	Velcome, weblogic Connected to: OFSLLREL_doma			
Click the Lock & Edit button to modify, add or		Home >Summ	nary of JDBC Data	Sources					
delete items in this domain.	5	Summary of J	DBC Data Source	25					
Lock & Edit	1	Configuratio	n Monitoring						
Release Configuration		_							
Domain Structure		A JDBC data	source is an obied	t bound	to the JNDI tree that provides (database connectivity through a pool of JDBC			
FSLLREL_domain		connections. Applications can look up a data source on the JNDI tree and then borrow a database connection from a data source.							
Domain Partitions	\sim	1000000							
- Environment Deployments		This page su	immarizes the JDB	C data se	ource objects that have been cr	reated in this domain.			
- Services									
-Messaging		Customize this table Data Sources (Filtered - More Columns Exist)							
-Data Sources									
Persistent Stores		Data Sources (Hitered - More Columns Exist) Click the Lock & Edit button in the Change Center to activate all the buttons on this page.							
Foreign JNDI Providers		Click the Loc	k & Edit button in	the Cha	nge Center to activate all the b	uttons on this page.			
-XML Registries		New -	elete			Showing 1 to 9 of 9 Previous Next			
-XML Entity Caches		INEW Y	velete			Showing 1 to 9 or 9 Previous Next			
	~	Name	~	Туре	JNDI Name	Targets			
	-	AQ-JMS	5-DB	Generic	jdbc/aqjmsdb	OFSLL_ManagedServer			
łow do I		jdbc/db	k105nlEJBDS	Generic	jdbc/dbk105nlEJBDS	WS_ManagedServer			
iow do I • Create JDBC generic data sources					jdbc/dbk105nlEJBD5 jdbc/LocalSvcTblDataSource	WS_ManagedServer AdminServer			
low do I Create JDBC generic data sources Create JDBC GridLink data sources	8		cTblDataSource	Generic					
low do I Create JDBC generic data sources Create JDBC GridLink data sources Create JDBC multi data sources		LocalSv	cTblDataSource	Generic Generic	jdbc/LocalSvcTblDataSource	AdminServer			
iow do I Create JDBC generic data sources Create JDBC GridLink data sources Create JDBC multi data sources Create UCP data sources		LocalSv mds-ad OFSLL	rcTblDataSource	Generic Generic Generic	jdbc/LocalSvcTblDataSource jdbc/mds/adf	AdminServer AdminServer, OFSLL_ManagedServer			
iow do I Oreate JDBC generic data sources Create JDBC GridUnk data sources Oreate JDBC multi data sources Create UCP data sources Oreate Proxy data sources		LocalSv mds-ad OFSLL opss-au	rcTblDataSource If udit-DBDS	Generic Generic Generic Generic	jdbc/LocalSvcTblDataSource jdbc/mds/adf jdbc/ofsllDBConnDS	AdminServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer,			
Iow do I Oreate JDBC generic data sources Create JDBC GridLink data sources Oreate JDBC multi data sources Create UCP data sources Create Proxy data sources System Status Health of Running Servers as of 7:58 PM		LocalSv mds-ad OFSLL opss-au opss-au	rcTblDataSource If udit-DBDS udit-viewDS	Generic Generic Generic Generic Generic	jdbc/LocalSvcTblDataSource jdbc/mds/adf jdbc/ofsllDBConnDS jdbc/AuditAppendDataSource	AdminServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer, AdminServer, OFSLL_ManagedServer,			
How do I • Create JDBC generic data sources • Create JDBC GridLink data sources • Create JDBC multi data sources • Create UCP data sources • Create Proxy data sources		LocalSv mds-ad OFSLL opss-au opss-au opss-au	rcTblDataSource If udit-DBDS udit-viewDS ata-source	Generic Generic Generic Generic Generic Generic	jdbc/LocalSvcTblDataSource jdbc/mds/adf jdbc/ofslIDBConnDS jdbc/AuditAppendDataSource jdbc/AuditViewDataSource	AdminServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer			



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



5. 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 >QA1410REL >Summary of JDBC Data Sources
Configuration button to allow others to edit the 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.
OFSLLREL_domain	* Indicates required fields
Environment Deployments Services	What would you like to name your new JDBC data source?
	6 * Name: OfsliPlato
-Diagnostics	What scope do you want to create your data source in ?
	Scope: Global V
	What JNDI name would you like to assign to your new JDBC Data Source?
	JNDI Name:
How do I 🗏	jdbc/ofsll
Create JDBC generic data sources Create LLR-enabled JDBC data sources	
System Status	
Health of Running Servers as of 10:24 AM	What database type would you like to select?
Failed (0) Critical (0)	Database Type: Oracle 🗸
Overloaded (0)	
Warning (0)	Back Next Finish Cancel

- 6. Specify the following details:
 - Enter Data source Name as OfsllPlato



- Enter the JNDI Name as 'jdbc/ofsll'.

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 Lag 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 Services >Summary of JDBC Data Sources >QA1410REL >Summary of JDBC Data Sources 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.
OFSLLREL_domain DrDmain Partitions Commain Partitions Deployments S-Services	Database Oracle Type: What database driver would you like to use to create database connections? Note: ** indicates that the driver is
Security Realms	explicitly supported by Oracle WebLogic Server.
Diagnostics	Database *Oracle's Driver (Thin) for Service connections; Versions:Any Driver:
	<
How do I 🔳	
Create JDBC generic data sources Create LLR-enabled JDBC data sources	
System Status	
Health of Running Servers as of 10:24 AM	
Failed (0)	
Critical (0) Overloaded (0)	
Warning (0)	

8. Select the Database Driver 'Oracle's Driver(Thin) for Service connections; Versions:Any'.



9. Click 'Next'. The following window is displayed.

	New York Concernse - Concernse						
No pending changes exist. Click the Kelease Configuration Create a New JDBC Data Source Back Next Create a New JDBC data source Transaction Options You have selected non-XA JDBC dreate connection in your new data source. Does this data source support global transactions? If yes, please choose the transaction protocol for source. Select this option if you want to enable non-XA JDBC connections from the data source to participation suing JTA. Select this option only if your application can tolerate heuristic condition on only if your application can tolerate heuristic condition if you want to enable non-XA JDBC connections from the data source to participation if you want to enable non-XA JDBC connections from the data source to participation if you want to enable non-XA JDBC connections from the data source to participation if you want to enable non-XA JDBC connections from the data source to participation if you want to enable non-XA JDBC connections from the data source to participation if you want to enable non-XA JDBC connections from the data source to participation if you want to enable non-XA JDBC connections from the data source to participation if you want to enable non-XA JDBC connections from th							
Image: Create a New JDBC Data Source Image: Create Source Image: Create A New JDBC Data Source	Sources						
Release Configuration Called Domain Structure Transaction Options DFSLLREL_domain You have selected non-XA JDBC driver to create database connection in your new data source. Deployments Services Security Realms Select this option if you want to enable non-XA JDBC connections from the data source to participations. Recommended in place transactions using the Logging Last Resource (LLR) transaction optimization. Recommended in place transactions using JTA. Select this option only if your application can tolerate heuristic conditionation of you want to enable non-XA JDBC connections from the data source to emulate global transactions using JTA. Select this option only if your application can tolerate heuristic condition of you want to enable non-XA JDBC connections from the data source to participate in the global transaction. How do I Emulate Two-Phase Commit Select this option if you want to enable non-XA JDBC connections from the data source to participate in the global transaction. Select this option if you want to enable non-XA JDBC connections from the data source to participate in the global transaction. Create JDBC generic data sources Select this option if you want to enable non-XA JDBC connections from the data source to participate in the global transaction. One-Phase Commit Select this option if you want to enable non-XA JDBC connections from the data source to participate in the global transaction.							
Transaction Options Domain Structure OFSLIEL_domain Domain Partitions Environment Deployments Security Realms Transaction Structure Security Realms Interoperability Diagnostics O Logging Last Resource (LLR) transaction optimization. Recommended in place transactions using The Logging Last Resource (LLR) transaction optimization. Recommended in place transactions using The Select this option only if your application can tolerate heuristic conditions Create JDBC generic data sources Create LLR-enabled JDBC data sources One-Phase Commit							
DFSLIREL_domain Domain Partitions Deployments Deployments Services Security Realms Interoperability Diagnostics Create JDBC generic data sources Create LLR-enabled JDBC data sources One-Phase Commit							
Domain Partitions Domain Partitions Deschild data source support global transactions? If yes, please choose the transaction protocol to source. Deployments Services Security Realms Interoperability Diagnostics Select this option if you want to enable non-XA JDBC connections from the data source to participat transactions using JTA. Select this option only if your application can tolerate heuristic condit Logging Last Resource Select this option if you want to enable non-XA JDBC connections from the data source to emulate global transactions using JTA. Select this option only if your application can tolerate heuristic condit Create JDBC generic data sources Create LLR-enabled JDBC data sources One-Phase Commit							
Services Security Realms Security Realms Security Realms Security Realms Security Realms Security Realms Oraging Last Resource (LLR) transaction optimization. Recommended in plac Two-Phase Commit. Oraging Last Resource Select this option if you want to enable non-XA JDBC connections from the data source to emulate global transactions using JTA. Select this option only if your application can tolerate heuristic condit Create JDBC generic data sources Create LLR-enabled JDBC data sources One-Phase Commit One-Phase Commit	ior this data						
Interoperability Diagnostics Select this option if you want to enable non-XA JDBC connections from the data source to participat Two-Phase Commit. Create JDBC generic data sources Create LLR-enabled JDBC data sources One-Phase Commit One-Phase Commit	Supports Global Transactions						
Select this option if you want to enable non-XA JDBC connections from the data source to emulate global transactions using JTA. Select this option only if your application can tolerate heuristic condit Create JDBC generic data sources Create LLR-enabled JDBC data sources Oreate LLR-enabled JDBC data sources One-Phase Commit One-Phase Commit	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.						
global transactions using JTA. Select this option only if your application can tolerate heuristic condit Demulate Two-Phase Commit Select this option if you want to enable non-XA JDBC connections from the data source to participate Transactions using the one-phase commit transaction processing. With this option, no other resource participate in the global transaction. One-Phase Commit							
How do I Create JDBC generic data sources Create LLR-enabled JDBC data sources Oreate LLR-enabled JDBC data sources One-Phase Commit One-Phase Commit							
Create JDBC generic data sources Create JDBC data sources Create LLR-enabled JDBC data sources One-Phase Commit							
System Status							
Health of Running Servers as of 10:39 AM Back Next Finish Cancel							
Failed (0)							
Critical (0)							
Overloaded (0)							

10. Click 'Next'. The following window is displayed.

ORACLE WebLogic Server Administration Console 12c

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 Create a New JDBC Data Sour	
Lock & Edit Release Configuration	Back Next Finish Ca Connection Properties	ancel
Domain Structure	Define Connection Properties.	
OFSLLREL_domain	What is the name of the databas	se 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	Host Name:	ofsll.oracle.com
XML Registries XML Entity Caches	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 name	me do you want to use to create database connections?
Create JDBC generic data sources Create LLR-enabled JDBC data sources	Database User Name:	OFSLLREL
		assword to use to create database connections?
System Status E Health of Running Servers as of 7:06 PM	Password:	•••••
Failed (0) Critical (0) Overloaded (0)	Confirm Password:	•••••
Warning (0)	Additional Connection Properties	5

11. Enter your Database details. For more information, contact your system administrator.



0

12. Click 'Next'. The following window is displayed.

Change Center	Home Log Out Pr	eferences 🔤 Record Help
View changes and restarts		Welcome, weblogic Connected to: OFSLLREL_domain
No pending changes exist. Click the Release	Home >Summary of J	DBC Data Sources
Configuration button to allow others to edit the domain,	Create a New JDBC D	ata Source
Lock & Edit	Test Configuration	Back Next Finish Cancel
Release Configuration	Test Database Con	
Jomain Structure		ailability and the connection properties you provided.
FSLLREL domain		
Domain Partitions	What is the full package	ge name of JDBC driver class used to create database connections in the connection pool?
Environment	(Note that this driver o	dass must be in the classpath of any server to which it is deployed.)
Deployments	A second restories and strategies	
🕀 Services		
Messaging	Driver Class Name:	oracle.jdbc.OracleDriver
Data Sources		
Persistent Stores	What is the URL of the	a database to connect to? The format of the URL varies by JDBC driver.
Foreign JNDI Providers		
XML Registries	URL:	jdbc:oracle:thin:@ofsll.oracle.com:1521:OLLDB
-XML Entity Caches		Jube of Belle Linin . (gorall of Belle Cont. 1321. OEEDD
-iCOM	100000000000000000000000000000000000000	
-Mail Sessions	What database accourt	it user name do you want to use to create database connections?
How do I	Database User	OFSLLREL ×
10W 80 1	Name:	OFSLEREL X
Create JDBC generic data sources	100000000 AD 10	
Create LLR-enabled JDBC data sources	What is the database a	account password to use to create database connections?
Create EER-enabled Jobb data sources	(Note) for service pass	word management, enter the password in the Password field instead of the Properties field below)
	(noter for secure pass	ware management, enter die personale in die resonante index indexe of die Properties neie belowy
System Status 🗉		
Health of Running Servers as of 7:17 PM	Password:	•••••
Failed (0)		
Critical (0)	Confirm Password:	
Overloaded (0)		
Warning (0)	When we have a	and a second state of the
OK (3)	what are the propertie	es to pass to the JDBC driver when creating database connections?

- 13. Click 'Test Configuration'. On completion, displays a confirmation message as 'Connection test succeeded'.
- 14. Click 'Next'. The following window is displayed.

Change Center	😰 Home Log Out Preferences 🔤 Record Help							
View changes and restarts	Welcome, weblogic Connected to: OFSLLREL_dom							
No pending changes exist. Click the Release	Home >Summary of Services >Summary of JDBC Data Sources >QA1410REL >Summary of JDBC Data Sources							
Configuration button to allow others to edit the domain.	Create a New JDBC Data Source							
Lock & Edit	Back Next Finish Cancel							
Release Configuration	Select Targets							
Domain Structure	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.							
Domain Partitions Environment	Servers							
Deployments 	AdminServer							
Security Realms Interoperability Diagnostics	OFSLL_ManagedServer							
dr Diagnosocs	UWS_ManagedServer							
	Back Next Finish Cancel							
How do I 🖂								
Create JDBC generic data sources								
Create LLR-enabled JDBC data sources								
System Status	1							
Health of Running Servers as of 10:46 AM								
Failed (0)								
Critical (0)								
Overloaded (0)								
Warning (0)								

15. Select target Server as 'OFSLL_ManagedServer'.



16. Click 'Finish' to activate the changes.

Update the following parameters in JDBC Data Source Connection Pool:

- In weblogic console, select Services > Data Sources > select the OfsllPlato data source > Connection Pool.
- 2. The initial capacity and Maximum capacity is defaulted to 45. If the number of concurrent users are more, then this needs to be increased.

Similarly create 'Plato' data sources by following the steps mentioned in above section (Create Data Sources for Oracle JET).

- Create data source name as Plato
- Update the JNDI as jdbc/PLATO
- Select Services > Data Sources > select the Platodata source > Connection Pool.
- Update the initial capacity and Maximum capacity, if the number of concurrent users are more.

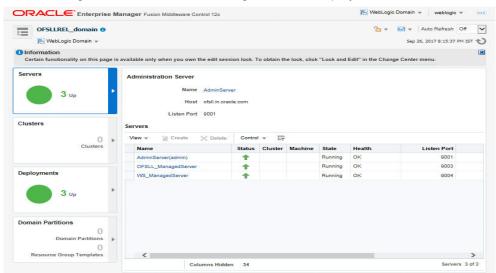
10.2 Deploy Oracle JET

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

SIGN IN TO ORACLE ENTERPRISE MANAGER FUSION MIDDLEWARE CONTROL 12c	
Domain Domain_OFSLLREL_domain * User Name	
* Password Login to Partition Sign In	
	ORACLE



2. Enter valid login credentials. The following window is displayed.



- 3. Select 'Lock & Edit' option in the lock drop-down list available in the header.
- 4. Click 'Deployment' in the left panel. The following window is displayed.

OFSLLREL_domain ()							_		enesn	
🔚 WebLogic Domain 👻								Look & Edit	N IST	
Information								Lock & Edit	Auto Refresh Of ions M dit Generation Generation Conflicts Conflitt Conflicts Conflicts	2
Certain functionality on this page i	s avai	lable only when you own the edit sessi	on lock. T	'o obtain th	ne lock, click	"Lock and	Edit" in t	View Change List	13	
Servers	11							View & Resolve Cont	licts	
Plat 12-38000	A	dministration Server						Release Configuratio	Auto Refresh Off	
3 Up		Name AdminServe	er					Activate Changes	Refresh Off H IST 4 IST 4 IST 4 IST 4 IST 4 IST 9 IST 9 IS	
J Op		Host ofsll.in.orac	le.com					Undo All Changes		
		Listen Port 9001						View Restart Checkli	st	
Clusters								Preferences		
	11-	ervers						Help		-
0 🕨	1	/iew ▼ 1 Create 💥 Delete	Contro	v Ey			_			
Clusters		Name	Status	Cluster	Machine	State	Health	Liste		
		AdminServer(admin)	1			Running	OK			
Deployments		OFSLL_ManagedServer	+			Running	OK			
Doproymente		WS_ManagedServer	1			Running	OK		9004	
3 up										
Domain Partitions										
Domain Partitions										
0										
Resource Group Templates		<								>



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

OFSLLREL_domain 0										Auto Refresh Off
WebLogic Domain 👻									Sep 16, 2	2017 12:15:46 PM IST
The edit session lock has been	acqu	Deploym		xist						
		View +	Show All	Deployment + Override	÷	Contro	÷			
3 Up	1		Name	18 Deploy		Status	State	Health	Туре	Domain P
		- F.	opss-rest	🖹 Redeploy	3	+	Active	OK	Web Application	
Clusters				★ Undeploy						
0				L		8				
Clusters	-									
Clusters										
Deployments 1 Up Domain Partitions										
Deployments										

6. The following window is displayed.

DF5LLREL_domain 0					
•					
Select Archive Select Target Application Attributes Deployment Settings					
Deploy Ja		Back	Step 1 of 4	Next	Cano
Scope		4	Informat	ion	
Select a scope that you want to deploy this application to Global 🗸		Use	e this page t	o deploy	Java EE
Archive or Exploded Directory		Me	plications that tadata Servi	ices (MDS	S) or tha
Java EE archives, Web Modules (WAR files), EJB Modules (EJB JAR files), Resource Adapter Modules (RAR files), Coherence	Archives (GAR files	App	e advantage plication Dev	velopmen	t.
JDBC Modules, JMS Modules, and library files (Jar files) can be deployed. You can also deploy an exploded archive that is pres where Enterprise Manager is running.	sent on the server		imework (Or our applicati		· · ·
		con	nposite, use ployment wiz	the SOA	
Archive is on the machine where this Web brov Location			our applicati		
Choose File ofsll-app-shell.war		MD	S repository nections, th	or ADF	
O Archive or exploded directory is on the server where Enterprise Manager is running.		you	r application the Oracle W	n using th	nis wizan
	Browse		ministration		
Deployment Plan					
The deployment plan is a file that contains the deployment settings for an application. You can use a previously saved deployment of a plucation. Later in the deployment process, you can optionally edit the deployment plan and save it for a future deployment of	this application. If yo	5U			
do not have a deployment plan, one will be created automatically during the deployment process when deployment configuratio deploymet plan is not applicable when you deploy a library.	n is done. The				
Create a new deployment plan when deployment configuration is done.					
O Deployment plan is on the machine where this Web browser is running.					
Choose File No file chosen					
O Deployment plan is on the server where Enterprise Manager is running.					
	Browse				

- 7. Browse to the folder containing the ofsll-app-shell.war.
- 8. Click 'Next'. The following window is displayed.

	domain 🕕			
Select A		Disation Attributes Deployment Settings		
ploy	Java EE Application: Select	Target	Back Step 2 of 4 Next	Cane
Select t	he WebLogic server or cluster that you wa	nt this application to be deployed to.		
Select	Name	Туре	Deployed Applications	
(100)	AdminServer	Oracle WebLogic Server	99	
8	OFSLL_ManagedServer	Oracle WebLogic Server	00	
1000	WS_ManagedServer	Oracle WebLogic Server	1007	
	4			
	4			
	•			



- 9. Select the server on which the Oracle JET application needs to be deployed.
- 10. Click 'Next'. The following window is displayed.

FSLLREL_domain 🕕									
0 0	0		0						
Select Archive Select	t Target	Application Attributes	Deployment Settings						
Deploy Ja					Back	Step 3 of 4	Next	Deploy	Cance
Hide Deployment Summary									
Archive Type	Web Module (WA	AR file)							
Deployment Plan	Create a new pla	an							
Deployment Target	OFSLL_Manage	dServer							
Scope	Global								
Deployment Type	Application								
* Application Name	e ofsil-app-shell								
Context Root of Web Modules									
Context Root of Web Modules Web Module	Context Root								
Web Module ofsil-app-shell.war	Context Root								
Web Module	Context Root ofsil-app-shell								
Web Module ofsil-app-shell.war	Context Root ofsIl-app-shell	tart application (servi							
Web Module ofsil-app-shell.war	Context Root ofsIl-app-shell	tart application in adr		ng only administration reque	sts)				
Web Module ofsil-app-shell.war	Context Root ofsil-app-shell Install and st Install and st	tart application in adr		ng only administration reque	sts)				

- 11. Select the option 'Install and start application (servicing all requests)'.
- 12. Check the context root and click 'Next'. The following window is displayed.

FSLLREL_domain 🕕													
0	0	0		-									
Select Archive Sele	ct Target Applica	tion Attributes	Depl	oyment S	Settings								
Deploy Ja									Back	Step 4 of 4	Next	Deploy	Canc
Hide Deployment Summary													
Archive Typ	e Web Module (WAR fi	e)											
Deployment Pla	n Create a new plan												
Deployment Targe	et OFSLL_ManagedSer	ver											
Scop	e Global												
Deployment Typ	e Application												
Application Nam	e ofsll-app-shell												
Versio	n Not versioned												
Context Roo	ot ofsil-app-shell												
Deployment Mod	e Install and start applie	ation (servicing :	all requ	ests)									
Deployment Tasks													
The table below lists common tas	ks that you may wish to d	o before deployir	ng the a	pplication	1.								
Name	Go To Task	Description											
Configure Application Security	/	Configure ap	plicatio	n policy n	nigration, c	redential m	igration an	id other se	curity be	havior.			
10.1													
Deployment Plan You can optionally use the Edit De													
Edit Deployment Plan	pioyment man option to	et more advand	eu oepi	oyment o	puons whic	n me depic	lyment tas	KS above (io not ot	wer.			
and a second													
You can optionally save the deplo													



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

LIN	EL_domain 🕓							
el	Deployment Suc	ceeded	0	-				1
	Deployment of Applicat activate or undo the cha		is completed. The deploy	nent changes are pendir	ig activation. Exit the w	izard and use the Change C	Center to	
D	Summary							C
н	Scope	Global						1
1	Version	Not versioned						ı
L		/u01/Middleware/We app-shell.war	blogic12cHome/user_proje	ts/domains/OFSLLREL_d	omain/sysman/upload/de	eploy/ofsll-app-shell/archive/o	fsll-	I
Ŀ	Archive Type	Web Module (WAR	ile)					ı
Ŀ	Deployment Mode	Install and start appl	ication (servicing all request	s)				1
Ŀ	Deployment Target	OFSLL_ManagedSe	rver					1
Ŀ	Application States	Unavailable (OFSLL	_ManagedServer)					1
Ŀ	Context Root	ofsil-app-shell						1
pl ti m	[December 3, 202 [December 3, 202 app-shell/archive] [December 3, 202 /u01/Middleware/ [December 3, 202 task processing w	00 1:14:15 PM IST] Ini 10 1:14:15 PM IST] Va 10 1:14:15 PM IST] Ou 10 1:14:15 PM IST] Ar ofsil-app-shell war 10 1:14:15 PM IST] D Weblogic12cHome/us 10 1:14:15 PM IST] [D ill continue. The user	ployment plan: er proiects/domains/OFSLL	REL_domain/sysman/uple	- ad/deploy/ ofsll-app-shei	.domain/sysman/upload/depk Woonfig/plan.xml sion is activated. When this oc		
D C							Close	ľ

- 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.
- 15. Similarly, deploy 'ofsll-servicing-api-14.10.war' following the steps indicated above (Deploy Oracle JET).
- 16. Update the startManagedWebLogic.sh file (\$MW_HOME/user_projects/domains/ mydomain/bin directory) as indicated in below parameters:
 - JAVA_OPTIONS="\${JAVA_OPTIONS} -Dapigateway.url=https:// <hostname>:<portno>/ofsll-servicing-api/"
 - export JAVA_OPTIONS

On configuring the above parameter, restart the weblogic server.



11. Configure Oracle Analytics Publisher for Application

- 1. Copy the OfsllCommonCSF.jar from /WEB-INF/lib available in the staging area to \$DOMAIN_HOME/lib
- 3. Configure Security via EMconsole

Note

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

nfc Ho Cerl Mo Tve Di Co Lo	ebLogio Domain 👻 Ionitoring lagnostics ontrol	en you own the edit session lock. To	obtain ti				Sej	ep 21, 2017 8:36:59 AM IST 4
Cerl M Tve Di Co Lo	lonitoring liagnostics		obtain ti					
Ne Di Ca	iagnostics		obrain n		The sector second	maner to allow	harma Card	
Co	2/1 • (2/2)	•		IE IOCK, CIICK	LUCK and	Eure in the C	mange Cent	er menu.
La	onuor	on Server						
Er	ogs	Name AdminServer						
	nvironment	Security Realms						
De	eployments	Security Administration						
isti je	DBC Data Sources	Web Service Security						
M	lessaging	Application Policies	EF					
Cr	ross Component Wiring	Application Roles	uster	Machine	State	Health	**	Listen Port
w	Veb Services	System Policies			Running	ок		9001
- N - M	ther Services	Security Provider Configuration			Running	OK		9003
plc Ac	dministration	Audit Registration and Policy			Running	OK		9004
R	efresh WebLogic Domain	Credentials	N					
Se	ecurity	Keystore	43					
JI	NDI Browser							
ma	ystem MBean Browser							
	VebLogic Server Administration Console arget Sitemap							
	arget Information							



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

OFSULEEL domain • Sep 21, 2017 8.58.42 AM 157 main_OFSULEEL_domain • Credentials Sep 21, 2017 8.58.42 AM 157 edential 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 Store, a single Solidated service provider to store and manage their ordentials securely. Credential Store Provider Image: Credential Key Name Intervential Credential Key Name Intervential Credential Key Name Intervential Image: Credential Key Name Intervential Credential Key Name Intervential Image: Credential Key Name Image: Online the plane terre provider Image: Credential Key Name Image: Online the plane terre plane t
Pedentials Predentials Predentials Predential 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 Store, a single Solidated Service provider to store and manage their credentials securely. Credential Store Provider Type Description Type Type Description
edential store is the repository of recurity data that certifies the authority of entities used by Java SE, Java EE, and ADF applications. Applications can use the Credential Store, a single solidated service provider to store and manage their credentials securely. Credential Store Provider Store Provider Store Provider Type Description Type Description
Solidated service provider to store and manage their credentials securely. Credential Key Int Create Map Credential Key Int Create Key Credential Key Int Detach Type Description
iew - Create Map Credential Key A Create Key A Create Key Bail Delate Credential Key Name Ype Description Fig. Delate
lew v treater than the free term of term
Credential Vge Description >
ofsilint.bureau

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

	se Manager	Fusion Middleware Control 12c		WebLogic Domain + weblogic + ····
OFSLLREL_domain ()				Sep 21, 2017 8:58:42 AM IST 🍤
omain_OFSLLREL_domain/OFSLL	REL_domain >	Credentials		
redentials				
credential store is the repository of s onsolidated service provider to store	ecurity data that and manage the	it certifies the authority of entities us air credentials securely	sed by Java SE, Java EE, and ADF	applications. Applications can use the Credential Store, a single,
Credential Store Provider				
View 🔹 🕂 Create Map 🕂	Create Key	🖉 Edit 💥 Delete	Credential Key Name	▶ mil Detach
Credential			Type	Description
ofsil.http.listener.jndi	Create Map			
ofsilint.bureau	the name of a such as the c	n application and all credentials wit redentials used by the applications * Map Name ofall.int.secu	th the same map name define a logi All map names in a credential store i anty x	cal group of credentials, must be distinct. OK Cancel

6. Click 'OK'.

WebLogic Domain +				Sep 21, 3	2017 8:58:42 AM IS	ST 📢
Information The credential map, ofsILint.security, has been created.						6
omain_OFSLLREL_domain/OFSLLREL_domain > Credentials						
redentials						
credential store is the repository of security data that certifies the authority of entities use noolidated service provider to store and manage their credentials securely.	ed by Java SE, Java EE, and ADF :	applications. Ap	plication	s can use the Crede	ntial Store, a sing	la.
Credential Store Provider						
View - + Create Map + Create Key / Edit X Delete	Credential Key		Þ	in Detach		
Credential	Type	Des	cription			
ofsll.http.listener.jndi						
> ofsll.int.bureau						
ofsll.int.security						

7. Click 'Create Key' Button.



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

	rise Manager Fusion Midd	lieware Control 12c	te WebLogic Domain	weblogic w
OFSLLREL_domain	0		Sep	21, 2017 8-58-42 AM IST
Information The credential map, ofsll.int	security, has been created.			
Domain_OFSLLREL_domain/OFS	Create Key		×	
vordential store is the repositor portolicitated service provider to is > Credential Store Provider Vew + Create Map Credential >	* Key Type * User Name * Password * Confirm Password		0 +	redental Store, a single
			OK Cancel	

9. Click 'OK'. The following window is displayed.

	WebLogic Domain	*					Sep 21, 2017 8:58:42	AM IST
Inform The cr	nation redential key, bip_ke	ry, has been created	Log Contraction of the Contracti					u
omain_Of	FSLLREL_domain/OF	SLLREL_domain > (Credentials					
reden	tials							
oredential	store is the repositor	y of security data that	t certifies the authority of entities u	used by Java SE. Java	EE. and ADF appl	ications. Applications	s can use the Credential Store, a	single.
	tial Store Provider to s	store and manage the	in credentials securely.					
View -	-I- Create Map	-I- Create Key	Z Edit X Delete	Credential Ke	× 1	•	in Detach	
Crede				Nam	Туре	Description		
P (0		ndi			1900	Description		
1								
	- orsit int secondy							



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

t=	DESLI REL domain () WebLogic Domain 👻						Sep 21	, 2017 8:58:42 AM IS	ST 🛧
	Home	1							6
The	Monitoring								
omain_	Diagnostics	► at	5						
rede	Control	-							
creden	Logs	► 5 t	he authority of entities used by Java ials securely	SE.	Java EE, and ADF	applications. Ap	plications can use the Cree	lential Store, a sing	gle,
▶ Crec	Environment		Security Realms						
View 1	Deployments		Security Administration		al Key Name		▶ Detach		
Cre	JDBC Data Sources		Web Service Security		Туре	Des	cription		
Þ	Messaging		Application Policies						
•	Cross Component Wiring		Application Roles						
	Web Services		System Policies	N					
-	Other Services		Security Provider Configuration	3					
	Administration		Audit Registration and Policy						
	Refresh WebLogic Domain		Credentials						
	Security		Keystore						
	JNDI Browser								
	System MBean Browser								
	WebLogic Server Administration Console								
	Target Sitemap								
	Target Information								

11. Click 'Create'.

DRACLE	Enterprise Manager Fusion	Middleware Control 12a	🎇 WebLogio Domain 👻 🛛 weblogio 👻
	Domain •		Sep 16, 2017 4:00:28 PM IST
Domain_OFSLLREL_d	Iomain/OFSLLREL_domain > Syster	n Policies	
ystem Policie	s		
ystem policies are the odebase.	system-wide policies applied to all a	pplications deployed to current management de	omain. You can grant special permissions and privileges to principal or
Policy Store Provi	ider		
d Search			
elect a grant type and	enter search keyword for codebase	or principal to query system security grants.	
T 3	ype Codebase	<u>~</u>]	
Na	anne Starts With	▶	
View - I Crea	te	Edit > Delete	ET Detach
-	3		
Name No security policies for			
No security policies for	und.		

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

CACLE Enterprise Manager Pusion Middlewars Control 12c	WebLegis Demain - weblogic -
t= OFSLLREL_domain •	Gen 21, 2017 9:12:24 AM IGT +
The second secon	
create System Grant	OK Cannel
	and podebase policy. Principal policy grants permissions and privileges to a file of users or roles ion of isr file in the system. Codebase can be either absolute path or relative path.
Grant To Codebase	
Codebase file:5(ofsil.osf.path)/lib/OfsilCommonCSF.jar	
arrel a sizer a	
View Adg / Edit > Delete in Detach	
Permission Ctars	Resource Name Permission Actions
No permissions 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	nt						OK	Cancel
	Add Permission						es to a list of u	
Grant To Codebase	Select from permissions and reso Search	urces used in system	m policies of this	domain. Enter search criteria to r	search for right pe	rmissions.	and the base	
Permissions	Туре	Codebase	~					
	Name							
View - Add	Permission		•					
Permission Class	Search Results						mission Act	ions
tvo permissions aoded.	Name		Type	Permission				
	No permissions found.							
	Select here to enter details for a	new permission	R					
	* Permission Class	oracle.security.jps	service credstor	e.CredentialAccessPermission				
	Resource Name	context=SYSTEM	mapName=ofsil.	int security,keyName=*				
	Permission Actions							
		Teau						
					OK	Cancel		

Configuring JNDI Name for http Listener

- 1. 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'. The following window is displayed.

Teach by Stom Crant Market and States and St	t= SFS	LLREL_domain -		See 21, 2017 9 12 24 AM IST 4
Image: State of Cancer OK Cancer Or and the state has been been been been been been been bee	Deservation (Chilling	1 Ref. downin (2010) 1 Ref. downin & Regime Reference & County Technic (Second		
take a two different bases of average patients supported by application which is average products and pointing a two different bases or not different bases and privileges to a different bases or not different bases and privileges to a different bases or not different bases and privileges to a different bases or not different bases and privileges to a different bases or not different bases and privileges to a different bases or not different bases and privileges to a different bases or not different bases and privileges to a different bases or not different bases are going. Privileges to a different bases or not				OK Cance
Grant To Continue Grant To Continue			ticy. Principal policy grants permissions and pri	vileges to a list of users or role
Godebase Re-Stofell of path/hib/OfsRCommonGSP jar Intritistions Verv ← Add ✓ CdtL ☆ Celeten (a) Detech Permission Class Permission Cl			sýstem. Godébasé čan be either absolute path	or relative path.
ministens Vers → Add / Cell. >> Detects Detects Permission Class marks security gas services credentic/Lessar@umission marks security gas services credentic/Lessar@umission est	Grant To	Codebase Y		
View - + Add / Edit. Cleiten. Cleiten.	Codebase	file:\${ofsil.csf.path}/lib/OfsilCommonCSF.jar		
Permission Class Permission Actions Permission Actions or the Permission Actions or the Permission Actions or the Permission Actions read	ermissions			
Permission Class Permission Actions Permission Actions or the Permission Actions or the Permission Actions or the Permission Actions read				
oracle.security.jps.service.credstore.CredentialAccess™ermission context=SYSTEM.mapNam read	View -	Add / Edit > Delete in Detach		
	Permiss	ion Class	Resource Name	Permission Actions
oracle.security.jps.service.credatore.CredentialAccessPermission context=SYSTEM.mapNam read	oracle.set	urity.jps.service.credstore.CredentialAccessPermission		read
	oracle.se	urity.jps.service.credstore.CredentialAccessPermission	context=SYSTEM.mapNam	read



3. Click 'OK'. The following window is displayed.

t= K Web	REL_dom Logic Doma	in 👻				Sep 21, 2	2017 9:18:01 AM IST 4
Informatio A new security		as been added succes	sfully.				
Domain_OFSLLR	EL_domain	OFSLLREL_domain >	System Policie:				
System Pol	icies						
System policies ar	e the system	n-wide policies applied	to all application	ns deployed to curr	ent management domain. You can gra	nt special permissions and privileges to prir	cipal or codebase.
Policy Store	Provider						
Search							
Select a grant type	and enter s	search keyword for cod	ebase or princip	al to query system	security grants.		
	Туре	Codebase	~				
	Name	Starts With		•			
View + 📲	Create	E Create Like	/ Edit	X Delete			🖙 🔤 Detach
1							
Name							
No security polici	es found.						



12. Launching Application

Verifying Successful Application Deployment and Launching Application

Successful Application deployment can be verified by following:

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

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

To launch application

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

Change Center	😭 Home Log Out Preferences 🔄	Record	Help		Q	Welcon	ne, weblogic Connec	ted to: OFSLLREL_doma		
View changes and restarts	Home >Summary of Environment >Summary of Deployments									
Click the Lock & Edit button to modify, add or	Summary of Deployments									
delete items in this domain.	Configuration Control Monitoring									
Release Configuration	This page displays the list of Java	EE applica	tions and	standalone a	pplication modules installe	ed to this	domain.			
Domain Structure	You can update (redeploy) or delete installed applications and modules from the domain by selecting the checkbox next to the application name and									
FSLLREL_domain Domain Partitions Denvironment 	To install a new application or more		ployment	to targets in	this domain, click Install					
Security Realms	Customize this table									
⊕- Tinteroperability ⊕- Diagnostics	Deployments Install Update Delete Next									
	🔲 Name 🗠	State	Health	Туре	Targets	Scope	Domain Partitions	Deployment Order		
	Coherence-transaction-rar	Active	🛩 ок	Resource Adapter	AdminServer, OFSLL_ManagedServer, WS_ManagedServer	Global		100		
How do I Install an enterprise application Configure an enterprise application Update (redeploy) an enterprise application Monitor the modules of an enterprise application	DMS Application (12.2.1.1.0)	Active	🖉 ок	Web Application	AdminServer, OFSLL_ManagedServer, WS_ManagedServer	Global		5		
	🗆 🎛 📷 em	Active	🖌 ок	Enterprise Application	AdminServer	Global		400		
	(V14.10.0.0-b156)	Active	🛩 ок	Enterprise Application	OFSLL_ManagedServer	Global		100		
Deploy EJB modules Install a Web application	🗆 🖻 👩 opss-rest	Active	🛩 ок	Web Application	AdminServer	Global		150		
ystem Status	provider-memory-rar	Active	🛩 ок	Resource Adapter	AdminServer, OFSLL_ManagedServer, WS_ManagedServer	Global		100		
ealth of Running Servers as of 10:44 PM	Install Update Delete						Showing 1 to	6 of 6 Previous Next		
Failed (0) Critical (0) Overloaded (0) Warning (0)										

 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	

4. After successful login, the following screen is displayed

Financial Services	0	5	
SEARCH MENU	66		
DashBoard			
I DashBoard DashBoard Users Productivity System Monitor Producer Analysis Process Files	3	Warning × You have previous open logins. (SYS-SYS-500005)	
> Origination			
Servicing			
Collections			
> WFP			
> Tools			
Setup			

