# 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>
- Configuring Policies
- Deploying Application
- Enabling SSL
- Mapping Enterprise Group with Application Role
- Configuring JNDI name for HTTP Listener
- Configure AQ-JMS Bridge
- 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\_241 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.

#### 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	- 🗆 ×
Auto Updates		
	:	
Auto Updates	Skip <u>A</u> uto Updates	
Installation Location	<ul> <li>Select patches from <u>d</u>irectory</li> </ul>	
Installation Type	Location:	Browse
Prerequisite Checks	O Search My Oracle Support for Updates	
Installation Summary	Username:	
Installation Progress	Password:	
Installation Complete	Dravy Sattings	Tast Connection
	PLOXy Settings	Test connection
	Search	
	**	
Help		< <u>Back Next &gt; Einish Cancel</u>

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

0	Oracle Fusion Middleware 12c I	frastructure Installation - Step 3 of 8	-		$\times$
In	stallation Location		(	0	)
Ψ	Welcome	Oracle Home:			
φ	Auto Updates	/u01/Middleware/Weblogic12cHome	-	Brow	/se
۲	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	Car	icel

5. Specify the path for Middleware Home Directory.



Oracle Fusion Middleware 12c I	nfrastructure Installation - Step 4 of 8 -	$\Box$ ×
Installation Type		
Welcome     Auto Updates     Installation Location     Installation Type     Prerequisite Checks	Fusion <u>M</u> iddleware Infrastructure With Examples     Eusion Middleware Infrastructure	
Installation Summary Installation Progress Installation Complete	<ul> <li>Core Server         <ul> <li>Core Application Server 12.2.1.4.0</li> <li>Coherence Product Files 12.2.1.4.0</li> <li>Web 2.0 HTTP Pub-Sub Server 12.2.1.4.0</li> <li>WebLogic SCA 12.2.1.4.0</li> <li>WebLogic Client Jars 12.2.1.4.0</li> </ul> </li> <li>Administrative Tools         <ul> <li>Administration Console Additional Language Help Files 12.2.1.4.0</li> <li>Cle WLS Config 12.2.1.4.0</li> <li>Enterprise manager 12.2.1.4.0</li> </ul> </li> <li>Database Support         <ul> <li>Third party JDBC Drivers 12.2.1.4.0</li> <li>Open Source Components             <ul> <li>Fusion Middleware Mayer Support 12.2.1.4.0</li> <li>JRF and Enterprise Manager</li></ul></li></ul></li></ul>	
Help	< Back Next > Finish	Cancel

### 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	<ul> <li>Checking operating system certification</li> <li>Checking Java version used to launch the installer</li> </ul>	
Installation Summary Installation Progress Installation Complete	Stop       Berun       Skip       ✓ <t< th=""><th>99</th></t<>	99
Help	< <u>B</u> ack <u>N</u> ext > <u>F</u> inish Can	cel



 $\times$ 

Oracle Fusion Middleware 12c l	nfrastructure Installation - Step 6 of 8 $ \Box$ $\times$					
Installation Summary						
Y Welcome	🗉 Install Oracle Fusion Middleware 12c Infrastructure					
4 Auto Updates	Installation Location					
i Installation Location	Oracle Home Location: /u01/Middleware/Weblogic12cHome					
	Log File Location: /tmp/OraInstall2020-04-30_08-58-54AM/install2020-04-30_08-58-54AM					
Prerequisite Checks	Required: 2127 MB					
Installation Summary	Available: 16019 MB					
() Installation Progress	Feature Sets to Install					
	WLS for FMW 12.2.1.4.0					
<ul> <li>Installation Complete</li> </ul>	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					
	Pusion 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 left pane or use the Back button.					
Help	< <u>B</u> ack <u>Next</u> > <u>Install</u> Cancel					

## 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	Hardware and Engineered to	nd Software Work Together



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

Oracle Fusion Middleware 12c	Infrastructure Installation - Step 8 of 8 - 🛛 🗙					
Installation Complete						
9 Welcome	😑 Install Oracle Fusion Middleware 12c Infrastructure					
4 Auto Updates	Installation Location					
Installation Location	Oracle Home Location: /u01/Middleware/Weblogic12cHome					
	Log File Location: /tmp/Oralnstall2020-04-30_08-58-54AM/install2020-04-30_08-58-54AM					
	Feature Sets Installed Successfully					
Prerequisite Checks	WLS for FMW 12.2.1.4.0					
Installation Summary	Core Application Server 12.2.1.4.0					
Installation Progress	Coherence Product Files 12.2.1.4.0					
Installation Complete	Web 2.0 HTTP Pub-Sub Server 12.2.1.4.0					
•	WebLogic Sta 12.2.1.4.0					
	Third party IDBC Drivers 12.2.1.4.0					
	WebLogic Evaluation Database 12.2.1.4.0					
	FMW Platform Generic 12.2.1.4.0 OPatch 13.9.4.2.1 Toplink Developer 12.2.1.4.0 Administration Console Additional Language Help Files 12.2.1.4.0 CIE WLS Config 12.2.1.4.0					
	Enterprise manager 12.2.1.4.0					
	Fusion Middleware Maven Support 12.2.1.4.0					
	Next Step(s):					
	See the online help for next steps after installation.					
	Oracle Fusion Middleware 12c Infrastructure installation completed successfully					
Help	< Back Next > Finish Cancel					

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			-		$\times$
Repository Creation Ut	ility				7	)
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: Bole:	Oracle Database  Connection Parameters  ofsil.oracle.com  1521  OLLMDR  sys  SySDBA  SYSDBA		String		
Help		< Back	<u>N</u> ext >	Finish	Can	cel

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				<u></u>	
Repository Creation Ut	ility		FL			)</td
Welcome     Create Repository     Database Connection Det     Select Components	<u>D</u> atabase Type: Connection String Format:	Oracle Database Connection P <u>a</u> ra	ameters (	) Connection	S <u>t</u> ring	•
Schema Passwords         Connect String           Map Tablespaces         Host Name:         whf00ake.in.oracle.com						
Completion Summ Checking C Obtain Checking C Obtain Checking C Obtain	Slobal Prerequisites zing repository configuration n properties of the specified crequirement for specified of completed. Click OK to continu	n metadata d database database e to next page.	00:13 00:04 00:00	.825(sec) .073(sec) .805(ms)	K	
			e Pack	Nexts	Finish	Cancel

6. Click 'OK' in the confirmation dialog.



pository Creation U	tility		
Welcome	Specify a unique prefix for all s and manage the schemas later	chemas created in this sess	ion, so you can easily locate, referen
Database Connection Details	<ul> <li>Select existing prefix:</li> </ul>		
Colored Company and	O Select existing prents.	L	
select components	Oreate new prefix:	OLL	
Schema Passwords		Alpha numeric only. Canno	t start with a number. No special
Map Tablespaces			
Summary	Component		Schema Owner
<u>Sommary</u>	□□Oracle AS Repository Components		
Completion Summary	Schemas		
	Common Infras	structure Services *	OLL_STB
	Uracle Platforr	n Security Services	ULLOPSS
	Diser Messagir	ig service	
	Audit Services	Append	
	Audit Services	Viewer	OLL IAU VIEWER
	Metadata Serv	rices	OLL MDS
	Weblogic Servi	ces *	OLL WLS
	* Mandatory component. M	andatory components cannol	t 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.

Repository Creation Utility - Step	4 of 8		-	
pository Creation U	tility			)
Welcome	Specify a unique prefix for all s and manage the schemas late	chemas created in this r.	session, so you can easily l	ocate, reference
Database Connection Details	Select existing prefix:			,
Select Components	Create new prefix:	011		
Schema Passwords		Alpha numeric only. C	apport start with a pumber 1	la apacial
Man Tablespaces		Alpha numeric only. c	annot start with a number. I	vo special
<u>Communi</u>	Repository Creation Utility - Ch	ecking Prerequisites	-	×
Summary				
Completion Summary	Checking Component Prerequis	ites		
	< Common Infrastructure S	Services	00:09.540(sec)	
the second se	✓ 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)	
	Weblogic Services		00:00.100(ms)	
	Operation completed. Click OK t	to continue to next page		2K
	* Mandatory component. M	landatory components c	annot be deselected.	
Help		<	Back Next > Finis	sh Cance



Repository Creation Utility - Step	5 of 8				<u>0-</u> 0		$\times$
Repository Creation U	Itility		FU			7	)
Welcome     Create Repository     Database Connection Details     Select Components     Schema Passwords     Map Tablespaces     Summary     Completion Summary	Define passwords for m Use same password Password: <u>C</u> onfirm Password: Use <u>m</u> ain schema po	nain and auxiliary schema u Is for all schemas Internet only. Cannot i No special characters excep Internet asswords for auxiliary sche	start with a r ot: \$, # ,	number.			
	Specify different pas	swords for all schemas					
Help		(	< <u>B</u> ack	<u>N</u> ext > Eir	ish	Can	cel

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.



Repository Creation Utility - Step	6 of 8			- 🗆 ×
Repository Creation U	tility			
Create Repository Database Connection Details Select Components	Default and temporary ta To create new tablespac	blespaces for the sel es or modify existing	lected components appear tablespaces, use the Mana	r in the table below. age Tablespaces Button Manage <u>T</u> ablespaces
Schema Passwords	Component	Schema Owner	Default Tablespace	Temp Tablespace
	Common Infrastruct	OLL STB	*OLL STB	*OLL IAS TEMP
Map Tablespaces	Oracle Platform Sec	OLL OPSS	*OLL IAS OPSS	*OLL IAS TEMP
Summary	Audit Services	OLLIAU	*OLL_IAU	*OLL_IAS_TEMP
	Audit Services App	OLL_IAU_APPEND	*OLL_IAU	*OLL_IAS_TEMP
O Completion Summary	Audit Services Viewer	OLL_IAU_VIEWER	*OLL_IAU	*OLL_IAS_TEMP
	Metadata Services	OLL_MDS	*OLL_MDS	*OLL_IAS_TEMP
	Weblogic Services	OLL_WLS	*OLL_WLS	*OLL_IAS_TEMP
	* Default tablespaces (sp	pecified in the configu	ration files) are to be crea	sted upon confirmation.
Help			< <u>B</u> ack <u>N</u> ext >	Einish Cancel

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

Repository Creation Utility - Step	6 of 8			
Welcome     Create Repository     Database Connection Details     Select Components	Default and temporary ta To create new tablespac	blespaces for the se es or modify existing	ected components appear tablespaces.use the Manag	in the table below. ge Tablespaces Button Manage Tablespaces
Schema Passwords	Component	Schema Owner	Default Tablespace	Temp Tablespace
Man Tablespaces	Common Infrastruct	OLL_STB	*OLL_STB	*OLL_IAS_TEMP
· · · · · · · · · · · · · · · · · · ·	Oracle Platform Sec	OLL_OPSS	*OLL_IAS_OPSS	*OLL_IAS_TEMP
Completion Summary	Aud Repository Creat Aud Met Wet ? Any Sele Clic	ion Utility - Confirmati tablespaces that do cted schemas will b k OK to create tables k Cancel to return to	on × not already exist in the e created. paces. the wizard. QK <u>Cancel</u>	YOLL_IAS_TEMP         YOLL_IAS_TEMP         YOLL_IAS_TEMP         YOLL_IAS_TEMP         YOLL_IAS_TEMP
	* Default tablespaces (sp	pecified in the config	uration files) are to be creat	ed upon confirmation.

14. Click 'OK' in the confirmation dialog.



	Default and tempo	rany tableenacee for the es	lected components appear	in the table below
Welcome	To create new tab	lespaces or modify existing	tablespaces, use the Mana	ge Tablespaces Button
Create Repository				
Database Connection Det	tails			Manage Tablespa
Select Components				
Schema Passwords	Component	Schema Owner	Default Tablespace	Temp Tablespace
	Common Infrast	ruct OLL STB	*OLL STB	*OLL IAS TEMP
Map Tablespace	ository Creation Utility - C	Treating Tablespaces		× LIAS_TEMP
Summary	conterfy creation ounty c	creating habicspaces		_IAS_TEMP
Valida	ating and Creating Table	spaces		_IAS_TEMP
completion summ	herk tablespare reg	uirements for selected co	mpop 00:00 100(ms)	_IAS_TEMP
	Create tablespace requ	the repeatent detabase	00.15.001(000)	_IAS_TEMP
- I - I - I - I - I - I - I - I - I - I	create tablespaces in	the repository database	00.13.031(860)	IAS TEMP
Opera	ation completed. Click O	K to continue to next page.		
Opera	ation completed. Click O	K to continue to next page.		
Opera	ation completed. Click O	K to continue to next page.		2K
Opera	ation completed. Click O	K to continue to next page.		2K
Opera	ation completed. Click O	K to continue to next page.	2	2K
Opera	ation completed. Click O	K to continue to next page.	5	2K
Opera	ation completed, Click O	K to continue to next page.	2	2K
Opera	ation completed. Click O	K to continue to next page.		2K
Opera	ation completed. Click O	K to continue to next page.	2	2K
Opera	ation completed. Click O	K to continue to next page.		2K
Opera	ation completed. Click O	K to continue to next page.	uration files) are to be crea	2K
Opera	ation completed. Click O	K to continue to next page.	s	ted upon confirmation.

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

Repository Creation Utility - Step	7 of 8			- 0	$\times$
Repository Creation U	tility				
Y Welcome	Database details:				
Create Repository	Host Name	ofsII.oracle.com			
Database Connection Details	Port	1521			
Select Components	Service Name	OLLMDR			
y Schema Passwords	Connected As	sys			
Map Tablespaces	Operation	System and Data	Load concurrently		
Summary	Prefix for (prefixable) Schema Owne	ers OLL			
Completion Summary					
	Component	Schema Owner	Tablespace Type	Tablespace Name	
	Common Infrastructure Services	OLL_STB	Default Temp Additional	OLL_STB OLL_IAS_TEMP [None]	Ê
	Oracle Platform Security Services	OLL_OPSS	Default Temp Additional	OLL_IAS_OPSS OLL_IAS_TEMP [None]	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Audit Services	OLL_IAU	Default Temp Additional	OLL_IAU OLL_IAS_TEMP [None]	
	Audit Services Append	OLL_IAU_APPEND	Default Temp Additional	OLL_IAU OLL_IAS_TEMP [None]	
	Audit Services Viewer	OLL_IAU_VIEWER	Default Temp	OLL_IAU OLL_IAS_TEMP	-
•	Save <u>R</u> esponse File				
Help		< <u>B</u>	ack <u>N</u> ext >	<u>C</u> reate Canc	el



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

Repository Creation Utility       Database details:	1
Valcome       Database datalis:         Create Repository       Host Name       of 311 oraclit.com         Database Connection Datalia       Service Name       OLUMDR         Stems Passwords       Repository System Load in progress.       OO:16.429(Sec)       Host Repository System Load in progress.         Summary       Completion Summ       Provide Services operations       OO:16.429(Sec)       Host Repository System Load in progress.         Summary       Completion Summ       Provide Services operations       OO:16.429(Sec)       Host Repository System Load in progress.         Summary       Completion Summ       Provide Services operations       OO:16.429(Sec)       Host Repository System Load in progress.         Audit Services Viewer       OL_LAU       LaS_TEMP         Audit Services Viewer       OL_LAU_VIEWER       Default       OUL_LAU_TIME         Stop       Law       Temp       Stop       Law       Temp         Audit Services Viewer       OL_LAU_VIEWER       Default       OUL_LAU       Law       Temp         Stop       Law       Stop       Law       Create       Port       Stop       Law       Create         Repository Creation Utility       Stop       Stop       Create Sepository       Create Sepository       Create Sepository       <	
Welcome       Database details:         Create Bebository       Host Name       of5ll.orscit.com         Database Connection Detail       Port       1521         Select Components       Service Name       OLLMDR         Schema Password       Repository Creation Utility - System Load       -       -         Map Tablesaces       Repository System Load in progress.       000:16.429(sec)       Liss press         Completion Summe       Executing pre create operations       000:16.429(sec)       Liss press         Audit Services Viewer       .       .	
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babases Connection Detail Service Name OLLMOR Schema Passwords Schema Passwords Completion Summary Completio	
Service Name     OLLMOR       Schema Password     Prepository Creation Utility - System Load     -       Summary     Executing pre create operations     00:16.429(sec)       Completion Summ     Executing pre create operations     00:16.429(sec)       Audit Services Append     0     0.5376       Audit Services Append     0     0.528(sec)       Audit Services     0     0       Audit Services Viewer     OLL_AU_VIEWER     Default       OUL_AU     Viewer     OLL_AU_VIEWER       Besolitory Creation Utility     Size gesponse File       Ideo     Service Name     OLL_AU       Pository Creation Utility     Superation contractic com       Pository Creation Utility     Superation System and Data Load concurrently       Besolitory     Database details:       Host Name     offloratic com       Port     1521       Service Name     OLLMOR       Componentin     System and Data Load concurrently <td></td>	
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Aust advanced       Repository System Load in progress.         Percentage advanced       Percentage advanced advance	
Had Datespaces       Repository System Load in progress.       00:16:429(sec)         Completion Summary       Executing pre-create operations       00:16:429(sec)         Audit Services Append       0       578         Audit Services       0       0         Weblogt: Services       0       0         Audit Services Viewer       OLL_IAU_VIEWER       Default         Audit Services Viewer       OLL_IAU_VIEWER       Offault IAS_TEMP         Save Besponse File       Save Besponse File       IAU         Repository Creation Utility       Save Besponse File       Save Besponse File         Welcome       Create Repository       Database details:       Heresonal         Heresonal Creation Details       Heresonal       Service Name       CillADR         Component Cog       Service Name       OLLADR       Connected As	
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Stop       LAU         Additional       (None)         Audit Services Viewer       OLL_IAU_VIEWER       Default       OLL_IAU         Save gesponse File       Image: Save gesponse File       Image: Save gesponse File       Image: Save gesponse File         Help       < Back	
Additional       [None]         Audit Services Viewer       OLL_IAU_VIEWER         Default       OLL_IAU         Save Besponse File       OLL_IAU         Help       < Back	
Additional [None] Additional [None] Additional [None] Additional [None] Audit Services Viewer OLL_IAU_VIEWER Default OLL_IAU Temp Temp OLL_IAU Temp Temp OLLIAU Temp Temp Temp Temp Temp Temp Temp Temp	,
Audit Services Viewer       OLL_IAU_VIEWER       Default       OLL_IAU         Save Besponse File       Save Besponse File         Help       < Back	
Temp       OLLIAS_TEMP         Save Besponse File       Image: Save Besponse File         Help       < Back	
Save Response File         Below         epository Creation Utility         Save Response File         epository Creation Utility         Create Repository         Database details:         Host Name       ofsill.oracle.com         Port       1521         Service Name       OLLMDR         Connected As       sys         Operation Summary       Operation         RCU Logfile       /tmp/RCU2020-04-30_10-43_542165227/logs/rcu.log         Completion Summary       RCU Logfile         Prefix for (prefixable)       OLL         Schema Owners       Success         00:12.083(sec)       stb.log         Oracle Platform Security Services       Success         00:12.083(sec)       stb.log         Oracle Platform Security Services       Success         00:12.083(sec)       opss.log         00:12.083(sec)       stb.log         0:12.083(sec)       stb.log      0	)
Welcome       Database details:         Create Repository       Host Name         Database Connection Details       Port         Select Components       Service Name         Schema Passwords       Operation         Map Tablespaces       System and Data Load concurrently         Execution Time       3 minutes 11 seconds         RCU Logfile       /tmp/RCU2020-04-30_10-43_542165227/logs/rcu.log         Completion Summary       RCU Logfile         Prefix for (prefixable)       OLL         Schema Owners       OLL	
Welcome       Database details:         Create Repository       Host Name       ofsil.oracle.com         Database Connection Details       Port       1521         Select Components       Service Name       OLLMDR.         Schema Passwords       Operation       System and Data Load concurrently         Map Tablespaces       Summary         Completion Summary       RCU Logfile       /tmp/RCU2020-04-30_10-43_542165227/logs/rcu.log         Component Log       /tmp/RCU2020-04-30_10-43_542165227/logs/rcu.log         Directory       View Log       rcu.log         Prefix for (prefixable)       OLL         Schema Owners       Outlogs(sec)       stb.log         Oracle Platform Security Services       Success       01:2.083(sec)       stb.log         Oracle Platform Security Services       Success       01:0.43.42(min)       ops.log	
Create Repository       Host Name       ofsil.oracle.com         Patabase Connection Details       Port       1521         Select Components       Service Name       OLLMDR.         Schema Passwords       Operation       System and Data Load concurrently         Map Tablespaces       Summary       Execution Time       3 minutes 11 seconds         RCU Logfile       /tmp/RCU2020-04-30_10-43_542165227/logs/rcu.log         Component Log       Directory         Directory       rcu.log         Prefix for (prefixable)       OLL         Schema Owners       OUL cogfile (Click tr        Component       Status       Time         Component       Status       Itmp/RCU2083(sec)         Operation       Success       01:0.4542(min)         Operation       Success       01:0.4542(min)         Operation       Success       01:0.4542(min)         Operation       Success       01:0.4542(min)	
Database Connection Details     Port     1521       Select Components     Service Name     OLLMDR       Schema Passwords     Operation     System and Data Load concurrently       Map Tablespaces     Summary     RCU Logfile     /tmp/RCU2020-04-30_10-43_542165227/logs/rcu.log       Completion Summary     RCU Logfile     /tmp/RCU2020-04-30_10-43_542165227/logs/rcu.log       Prefix for (prefixable)     OLL       Schema Owners     OLL	
Select Components     Service Name     OLLMDR       Schema Passwords     Operation     System and Data Load concurrently       Map Tablespaces     Summary     Service Name     System and Data Load concurrently       Summary     Execution Time     3 minutes 11 seconds       RCU Logfile     /tmp/RCU2020-04-30_10-43_542165227/logs/rcu.log       Component Log     Directory       View Log     rcu.log       Prefix for (prefixable)     OLL       Schema Owners     OLL       Component Status     Time       Logfile(Click to       Component Status     Time       Component Status     Success       Oracle Platform Security Services     Success       Oracle Platform Security Services     Success       Surcess     01:04.542(min)       Operation     Surcess	
Schema Passwords     Connected As     sys       Map Tablespaces     Operation     System and Data Load concurrently       Summary     Execution Time     3 minutes 11 seconds       Completion Summary     RCU Logfile     /tmp/RCU2020-04-30_10-43_542165227/logs/rcu.log       Component Log     Directory       View Log     rcu.log       Prefix for (prefixable)     OLL       Schema Owners     Status     Time       Component Infrastructure Services     Success     00:12.083(sec)     stb.log       Oracle Platform Security Services     Success     01:04.542(min)     ops.log	
Map Tablespaces       Operation       System and Data Load concurrently         Summary       Execution Time       3 minutes 11 seconds         RCU Logfile       /tmp/RCU2020-04-30_10-43_542165227/logs/rcu.log         Component Log       /tmp/RCU2020-04-30_10-43_542165227/logs         Directory       rcu.log         Prefix for (prefixable)       OLL         Schema Owners       OLL         Component Status       Time         Logfile(Click to         Common Infrastructure Services       Success         Oracle Platform Security Services       Success         Audit Services       Success         Oracle Platform Security Services       Success         Success       01:04.542(min)         Audit Services       Success         Success       01:04.542(min)         Audit Services       Success         Success       01:04.542(min)	
Summary       Execution Time       3 minutes 11 seconds         RCU Logfile       /tmp/RCU2020-04-30_10-43_542165227/logs/rcu.log         Completion Summary       Component Log         Directory       view Log         Prefix for (prefixable)       OLL         Schema Owners       Outperformer         Status       Time       Logfile(Click to         Component       Status       Time       Logfile(Click to         Common Infrastructure Services       Success       00:12.083(sec)       stb.log         Oracle Platform Security Services       Success       01:04.542(min)       opss.log         Audit Services       Success       01:04.542(min)       opss.log	
Summary         Completion Summary         RCU Logfile       /tmp/RCU2020-04-30_10-43_542165227/logs/rcu.log         Component Log Directory View Log       /tmp/RCU2020-04-30_10-43_542165227/logs         Prefix for (prefixable) Schema Owners       OLL         Component       Status       Time       Logfile(Click to Stable)         Common Infrastructure Services       Success       00:12.083(sec)       stb.log         Oracle Platform Security Services       Success       01:04.542(min)       opss.log         Audit Services       Success       01:04.542(min)       opss.log	
Completion Summary     Interpreduct/20/04/30_10/43_942103227/logs/rtd.l0g       Component Log Directory View Log     //tmp/RCU2020-04-30_10/43_542165227/logs       Prefix for (prefixable) Schema Owners     OLL       Component     Status     Time     Logfile(Click to Schema Owners       Common Infrastructure Services     Success     00:12.083(sec)     stb.log       Oracle Platform Security Services     Success     01:04.542(min)     opss.log       Audit Services     Success     01:04.542(min)     opss.log	
Component     Status     Time     Logfile(Click to       Component     Status     Time     Logfile(Click to       Common Infrastructure Services     Success     00:12.083(sec)     stb.log       Oracle Platform Security Services     Success     01:04.542(min)     opss.log       Audit Services     Success     01:04.542(min)     opss.log	
View Log rcu.log Prefix for (prefixable) OLL Schema Owners Component Status Time Logfile(Click to Common Infrastructure Services Success 00:12.083(sec) stb.log Oracle Platform Security Services Success 01:04.542(min) opss.log Audit Services Success 01:04.542(min) log/sec) liguidad	
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Common Infrastructure Services Success 00:12.083(sec) stb.log Oracle Platform Security Services Success 01:04.542(min) opss.log Audit Services Success 01:04.542(min) opss.log	o vieu
Oracle Platform Security Services Success 01:04.542(min) opss.log	5 VIEV
Audit Services Success 00:31 023(sec) iau log	2
Audit Services Append Success 00:10.196(sec) iau_append.	log
Metadata Services Success 00:10.255(sec) Iau_Viewer.	l
Weblogic Services Success 00:19.677(sec) wils.log	
ielp Sack Next > Create	

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						(
Configuration Type			FU				
🙊 Create Domain	:						
Templates							
Administrator Account							
Domain Mode and JDK							
Advanced Configuration							
Configuration Summary	What do	5-h -4					
Configuration Progress	what do you want	to dor					
b End Of Configuration		lomain					
	◯ <u>U</u> pdate an exis	ting domain					
	Domain Location:	ware/Weblogic12cHome/use	r_projects/dom	nains/OFSLLR	EL_domain	h Browse	
Help			< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	Cancel	7

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

Fusion Middleware Configuration	Wizard - Page 2 of 12	_	
Templates			
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	Create Domain Using Product Templates:   Filter Templates: Type here   Include all gelected templates   Available Templates   Basic WebLogic Server Domain [wlserver] *   Oracle Enterprise Manager [em]   Oracle Enterprise Manager-Restricted JRF [em]   Oracle User Messaging Service Basic [oracle_common]   Oracle JRF SOAP/JMS Web Services [oracle_common]   Oracle WSM Policy Manager [oracle_common]   Oracle WSM Policy Manager [oracle_common]   Oracle BRF [oracle_common]   Oracle Restricted JRF [oracle_common]   Oracle Restricted JRF [oracle_common]   Oracle Restricted JRF [oracle_common]   Create Domain Using Custom Template:   Template location:	Include all previously a mmon] ion] ension [oracle_common] me	applied templates
Help	< <u>B</u> a	ack <u>N</u> ext > <u>F</u> inist	Cancel



- 5. Select the option 'Create Domain Using Product Templates' in the list of available templates and select 'Oracle Enterprise Manager 12.2.1.3.0 [em]'. On selection, the following options are auto-selected:
  - Oracle JRF 12.2.1.3.0 [oracle\_common]
  - Weblogic coherence cluster Extension-12.2.1.3.0 [wlserver]
- 6. Click 'Next'. The following window is displayed.

Fusion Middleware Configuration	Wizard - Page 3 of 12			<u></u>		$\times$
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/Weblogic12c Weblogic12cHome/user_proj	:Home/user_projects/dom ects/applications/OFSLLRI	nains EL_domain	Brows	e
Help			< <u>B</u> ack <u>N</u> ext >	<u>F</u> inish	Cance	el



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							
	Must be the same a	s the password. Password n r or special character	nust contain ai	t least 8 alph	nanumeric	character	's with
			-		(		
Help			< Back	Next >	Einish	Ca	ncel

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

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

Fusion 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 IDBC 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.         JDK         @ Qracle HotSpot 1.8.0_241 /scratch/jdk/jdk1.8.0_241         Other JDK Location:
Help	< <u>Back</u> <u>N</u> ext > <u>Finish</u> 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.

Eusion Middleware Configuration	Wizard - Page 6 of 12	- 🗆	×
Database Configuration 1	ype ORACLE FUSION MIDDLEWARI		
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Ty Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Specify AutoConfiguration Options Using:	ing to Comn uses this co ain. e connection	non Innectio
Help	< Back Next > Fin	iish C	Cancel

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

Fusion Middleware Configuration	Wizard - Page 7 of 12					
JDBC Component Scheme	a					
Treate Domain	Vendor:	D D	river:			9
Templates						
Application Location	<ul> <li>Connection Parameters</li> </ul>	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	s	chema Password	[		
Component Datasources						
JDBC Test	Oracle RAC configuration f	for component	schemas:			
Advanced Configuration	O Convert to Gri	dLink O Cor	overt to RAC multi	data sour	ce 🔿 Don't	convert
Configuration Summary	Edite to the data above wi	ill affect all chei	-ked rowe in the ta	ble below		
Configuration Progress			cked rows in the to	Die Delow		
End Of Configuration	Component Schema	DBMS/Service	Host Name	1521	Schema Ow	Schema Passw
	WLS Schema	OLLMDR	ofsll oracle.com	1521	OLL WLS RUN	
	OPSS Audit Schema	OLLMDR	ofsll.oracle.com	1521	OLL IAU APPE	
	OPSS Audit Viewer St	OLLMDR	ofsll.oracle.com	1521	OLL_IAU_VIEW	
	OPSS Schema	OLLMDR	ofsll.oracle.com	1521	OLL_OPSS	
	· ·					
					_	
Help			< <u>B</u> ack	<u>N</u> ext :	- <u>F</u> inish	Cancel



	Fusion Middleware Configuration	Wiza	rd - Pag	e 8 of 12		- 1			
J	DBC Component Schema	a Te	st	Ā					
4	Create Domain		Status	Component Schema	, ,	DBC Co	nnection URL		
*	Templates		1	LocalSvcTbl Schema		jdbc:ora	acle:thin:@#		
1	Application Location	•	1	WLS Schema		jdbc:oracle:thin:@//			
1	Administrator Account	<ul> <li>Image: A start of the start of</li></ul>	1	OPSS Audit Schema		jdbc:ora	acle:thin:@#		
T	Remain Made as d IDK	<ul> <li>Image: A start of the start of</li></ul>	1	OPSS Audit Viewer Schema		jdbc:ora	acle:thin:@//		
Ĭ	Domain Mode and JUK	<ul> <li>Image: A state</li> <li>Image: A state<td>1</td><td>OPSS Schema</td><td></td><th>jdbc:ora</th><th>acle:thin:@#</th></li></ul>	1	OPSS Schema		jdbc:ora	acle:thin:@#		
Ý	Database Configuration Type	L							
Ý	Component Datasources	L 1							
	JDBC Test	L 1							
1	Advanced Configuration	<u> </u>							
ų	Configuration Summary		<u>T</u> est Se	elected Connections					
Ŷ	Configuration Progress	Co	nnectio	n Result Log					
9	End Of Configuration	Pas	sword=	*****			<b>^</b>		
		SQL	. Test=	select 1 from schema_version_registry where owne	er=(select user from	i dual) a	nd mr_type		
		CFG	FWK-64	213: Test Successful!					
		CFG	FWK-64	213: JDBC connection test was successful.					
			// WIC-04	213. No action required.			100		
				20000					
C	Help			< <u>B</u> ack	<u>N</u> ext > <u>Finit</u>	sh	Cancel		

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

Fusion Middleware Configuration	Wizard - Page 9 of 20	- 🗆 X
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	<ul> <li>Administration Server Modify Settings</li> <li>Node Manager Configure Node Manager</li> <li>Topology Add, Delete or Modify Settings for Managed Set Domain Frontend Host Capture Configure Domain Frontend Host</li> <li>Deployments and Services Target to Servers or Clusters</li> </ul>	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	of 20					-		$\times$
Administration Server									)
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 Yirtual Targets Partitions Configuration Progress End Of Configuration	Server Name Listen Address Listen Port Enable SSL SSL Listen Port Server Groups	AdminSer All Local / 9001	rver Addresses ] ed een 1 and 65	3535, and	different fr	om SSL listen	port and d	coherence p	• • •
Help				(	< Back	Next >	<u> </u>	Can	icel

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

💽 Fu	usion Middleware Configuration	Wizard - Page 11 of 20					$\Box$ ×
M	anaged Servers						
1	Create Domain Templates	👍 Add 🖹 Clo	ne 🔀 <u>D</u> elete			🔊 Dis <u>c</u> ar	rd Changes
4	Application Location	Server Name	Listen Address	Listen Port	Enable SSL	SSL Listen Port	Server Groups
ľ	Domain Mode and IDK	OFSLL_ManagedServer	All Local Address	9003	<b>v</b>	95 <b>0</b> 3	JRF-MAN-S
Ţ	Database Configuration Type	WS_ManagedServer	All Local Address 🔻	9004		Disabled	JRF-MAN-S▼
Į,	Component Datasources						
41	DBC Test						
	Advanced Configuration						
4 1	Administration Server						
•	Managed Servers						
ψ <u>9</u>	Clusters						
<u> </u>	Server Templates						
Ý 9	Coherence Clusters						
Ý 1	Machines						
Ý -	<u>/irtual Targets</u>						
Ý I	Partitions	* *					
<u>۴</u>	Configuration Summary						
Ϋ́	Configuration Progress						
0 8	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					
Tomplates	👍 Add 🗙	Delete		<b>ii)</b> [	)is <u>c</u> ard Changes
Application Location Administrator Account	Cluster Name	Cluster Address	Frontend Host	Frontend HTTP Port	Frontend HTTPS Port
Domain Mode and JDK     Database Configuration Type     Component Datasources					
<u>IDBC Test</u> <u>Advanced Configuration</u> Administration Server					
Managed Servers					
Server Templates <u>Coherence Clusters</u> <u>Machines</u> <u>Virtual Targets</u> Partitions					
Configuration Summary Configuration Progress End Of Configuration	~ •				
Help			< <u>B</u> ack	<u>N</u> ext > <u>Finit</u>	sh Cancel



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

Fusion Middleware Configuration	Wizard - Page 13 of 20			- 🗆 X
Server Templates				
Templates	Add X Delete			🔊 Dis <u>c</u> ard Changes
Application Location Administrator Account	Name	Listen Port	SSL Listen Port	Enable SSL
Domain Mode and JDK	wsm-cache-server-temp	7100	8100	
<u>Database Configuration Type</u> <u>Component Datasources</u>				
<u>IDBC Test</u> <u>Advanced Configuration</u>				
Administration Server				
Clusters				
Coherence Clusters				
<ul> <li><u>Machines</u></li> <li><u>Virtual Targets</u></li> </ul>				
Partitions     Configuration Summary	* *			
Configuration Progress				
<ul> <li>End Of Configuration</li> </ul>				
Help	1	<	Back Next >	Einish Cancel

### 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 1990)	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.

Eusion 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 Server Templates Coherence Clusters Machines Virtual Targets Partitions Configuration Progress End Of Configuration	Machine Unix Machine	Node Manager Listen Address	Dis <u>c</u> ard Changes Node Manager Listen Port
Help		< <u>B</u> ack <u>N</u> ext	> <u>Finish</u> Cancel

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

Fusion Middleware Configuration V	Wizard - Page 16 of 20				- [	
Virtual Targets						
The Create Domain	🕹 Add 🛛 💥 🛛	elete		ſ	🗐 Discard C	hanges
Templates						
Application Location	Name	Target	Host	URI Prefix	Explicit	Port
Administrator Account			Maines		Polt	Oliser
Domain Mode and JDK						
Database Configuration Type						
Component Datasources						
UDBC Test						
Advanced Configuration						
Administration Server						
Managed Servers						
Clusters						
Server Templates						
Coherence Clusters						
🖕 <u>Machines</u>						
Virtual Targets						
Partitions	• •					
Configuration Summary						
Configuration Progress						
<ul> <li>End Of Configuration</li> </ul>						
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	* •			
<u>Configuration Summary</u>				
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	
Domain Mode and JDK	Artifacts Generation	
Database Configuration Type	String Substitution	
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.

End Of Configuration	
End Of Configuration Create Domain Create Domain Cremplates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Advanced Servers Clusters Sciver Templates Coherence Clusters Coherence Clusters Nachines Virtual Targets Configuration Summary Configuration Summary Configuration Progress	<image/> <image/> <image/> <section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>
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).

DRACLE' Enterpris	se M	anager Fusion Middlewar	e Control 12c	WebLogic Domain 👻 weblogic 👻	
OFSLLREL_domain 6				Home Monitoring	
📙 WebLogic Domain 👻				Diagnostics	
1) Information				Control	
Certain functionality on this pa Change Center menu.	ige is	available only when you o	own the edit session lock. To obta	Logs	
Servers		Administration Com		Environment	
		Administration Serv		Deployments	
3 10	Þ	Name	AdminServer	JDBC Data Sources	
- op		Host	ofsll.in.oracle.com	Messaging	
		Listen Port	9001	Cross Component Wiring	
Clusters		Servers	11	Web Services	
		The second	Persistent Stores	Other Services	
Clusters	₽	view • _ Create	XML Entity Caches	Administration	
		Name	OSGi Frameworks	Refresh WebLogic Domain	
		Admin Conver(admin)	Mail Sessions	Security	
Deployments		OFSLL ManagedSe	Foreign JNDI Providers	JNDI Browser	
		WS_ManagedServer	WTC Servers	System MBean Browser	
1 up	Þ		Metadata Repositories	WebLogic Server Administration Consol	le
		<	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.

_		orise Manager Fusi	on Middleware Control 12c	5	🔚 WebLogic 🛛	Domain 🔻	weblogic 🕷 💿
	OFSLLREL_domain	0					🎓 🔹 🖂 .
-	WebLogic Domain 🔻					Sep 15, 2	017 6:22:12 PM IST
leta	adata Repositorie	s					
bu or eater plica	eate most Fusion Middlewar d in a database with the Rep ation metadata to the reposit abase-Based Reposito	re component schema n pository Creation Utility o pry. ries	epositories in a database u or created on disk as file-b	using the Repository Creation ased repositories. You must n	Utility. Metadata Se egister an MDS repo	rvices (MDS isitory before	) repositories can be e you can deploy
R	egister						
8							
	Repository Name	Database Type	Database Name	Schema Name	JNDI Locat	ion	Partition
No	Repository						
<	6						>
ile	Based Repositories	2					
R	egister	en las				1	
1							
		Directory				Partition	
	Repository Name						
No	Repository Name						

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

OFCI DEI	19. IS 19.									-
	_domain	3								-
WebLogic	c Domain 👻						Sep 15, 3	2017 6:3	1:32 PM I	ST 🔦
Information										×
The changes mad undo the change	de on this pa s from the C	age do not participa hange Center.	ate in the edit sessi	on. The changes will be	e activ	ated and a	pplied immedia	tely. Yo	u canno	•
epository stores info atabase-based repo	rmation used	by Application Serv	ver components and sitory Creation Utility.	other applications. A meta	adata ase co	repository r	must be registere formation and clic	d to be o k Query	peration , then se	al. lect
of the Metadata Re	epository and	click OK button.						ок	Cance	el l
tabase Connect	ion Inform	ation				T				
tabase Connect	ion Inform	ation ) SQL Server () IE	BM DB2 () MySQL	* User N	lame	sys]				
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tabase Connect Database Type * Host Name * Port * Service Name	<ul> <li>Oracle ( ofsil.oralce.c</li> <li>1521</li> <li>OLLDB</li> </ul>	ation ) SQL Server () IE om	BM DB2 () MySQL	* User N * Passv	lame word Role	sys] SySDBA	 V	*		
tabase Connect Database Type * Host Name * Port * Service Name	Oracle C     ofsil.oralce.c     1521     OLLDB     Query	ation ) SQL Server () IE orm	M DB2 () MySQL	* User N * Passv	lame word Role	sys] sysdba	<b>Y</b>	•		
tabase Connect Database Type * Host Name * Port * Service Name Metadata Rep	Oracle ( ofsil.oralce.c 1521 OLLDB Query ository	ation ) SQL Server () IE om Is Registered?	Schema Name	* User N * Passv Version S	lame word Role Status	sys] SYSDBA	Modified Tim	<b>≁</b> 1e		

- 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.



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WebLogic Domain	*						3	25-Apr-2018 2	3:29:37	DT
Information										×
The changes made on this Change Center.	page do not participa	te in the edit sessio	n. The changes v	will be activated and appli	ed immed	iately. You o	annot undo the o	changes fro	m the	
			-							
egister Database-B	Based Metadata	Repository	0							
repository stores information u	used by Application Service	er components and o	other applications.	A metadata repository mus	be regist	ared to be op	erational. A datab	ase-based r	epository	is
area carrig the repository of	eation ounty. To regulate	, mpor caracase com		rand click debery, then selec			repository and ch	OK	Cano	1
								on	Canc	
tabase Connection Info	rmation									
Database Type	Oracle      SQL Ser	ver  IBM DB2	MySQL	*						
* 14	afell exects area			" User N	ame sys					
Host Hame	oran oracle.com			* Passy	vord ····					
* Port	1521				Role SY	SDBA 🔻				
	OLLDB									
Service Name										
* Service Name	Query									
* Service Name Metadata Repository	Query Is Registered?	Schema Name	Version	Status N	lodified 1	ime				
* Service Name Metadata Repository MDS	Query Is Registered? faise	Schema Name OLL_MDS	Version 12.2.1.3.0	Status N VALID 2	lodified 1 5-Apr-201	<b>'ime</b> 3 07:38:50 E	DT			
Metadata Repository MDS	Query Is Registered? faise	Schema Name OLL_MDS	Version 12.2.1.3.0	Status N VALID 2	lodified 1 5-Apr-201	'ime 3 07:38:50 E	DT			
Metadata Repository MDS	Query Is Registered? faise	Schema Name OLL_MDS	Version 12.2.1.3.0	Status N VALID 2	lodified 1 5-Apr-201	'ime 8 07:38:50 E	DT			
* Service Name Metadata Repository MDS Hected Repository - Sch e selected schema can be rej	Query Is Registered? faise mema: OLL_MDS gistered only if it has not	Schema Name OLL_MDS	Version 12.2.1.3.0 red.	Status N VALID 2	lodified 1 5-Apr-201	'ime 3 07:38:50 E	DT			
* Service Name Metadata Repository MDS Hected Repository - Sch e selected schema can be rep * Repository Name	Query Is Registered? false nema: OLL_MDS jistered only if it has not adf	Schema Name OLL_MDS	Version 12.2.1.3.0 red.	Status N VALID 2	lodified 1 5-Apr-201	'ime 8 07:38:50 E	DT			
* Schema Password	Query Is Registered? faise nema: OLL_MDS gistered only if it has not adf	Schema Name OLL_MDS	Version 12.2.1.3.0 rred.	Status N VALID 2	lodified 1 5-Apr-201	'ime 8 07:38:50 E	рт			

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

		prise Manager Fusi	on Middleware Control 12c	<b>第</b> 1	WebLogic Domain 👻	weblogic 💌
	OFSLLREL_domai	n 🚯			Dec 5,	2019 3:08:33 PM IST 4
lets	adata Renositoria					
u cre n be n de Data	eate most Fusion Middlewa created in a database with ploy application metadata i abase-Based Reposite	ire component schema re the Repository Creation to the repository. ories	positories in a database us Utility or created on disk a	sing the Repository Creation s file-based repositories. You	u Utility. Metadata Serv u must register an MD:	ices (MDS) repositori S repository before yo
Re	egister Deregister					
1						
	Repository Name	Database Type	Database Name	Schema Name	JNDI Locati	on Par
	mds-adf	Oracle	OLL122	OLL_MDS	jdbc/mds/adf	Glot
	4					+
ile	-Based Repositories					
ile Re	-Based Repositories egister Deregister	1				
Re	-Based Repositories egister Deregister					
Re	Based Repositories egister Deregister Repository Name	Directory				Partition
Re Re	Based Repositories egister Repository Name Repository	Directory				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>).

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

### 2. The following window is displayed.

Change Center	Home Log Out Preferences	Record Help	
View changes and restarts		Welcome, w	veblogic Connected to: OFSLLREL_doma
Click the Lock & Edit button to modify, add or	Home		
Lock & Edit Release Configuration	Home Page		
	Helpful Tools	General Information	
Domain Structure	Configure applications	Common Administration Task D	Descriptions
OFSLLREL_domain  Domain Partitions  Domain Partitions  Development	<ul> <li>Configure GridLink for RAC Data Source</li> <li>Configure a Dynamic Cluster</li> </ul>	<ul> <li>Read the documentation</li> <li>Ask a question on My Oracle Su</li> </ul>	upport
Deployments Services Security Realms 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	<ul><li>Server Templates</li><li>Migratable Targets</li></ul>	Messaging     JMS Servers	<ul><li>Archives</li><li>Context</li></ul>
System Status	Coherence Clusters     Machines	<ul> <li>Store-and-Forward Agents</li> </ul>	SNMP     Interceptors

3. Click Domain Name > Services > Data Sources.



4. The following window is displayed.

Change Center		Home L	og Out Preference	s 🚵 Re	cord Help	Q	
View changes and restarts					Welcome,	weblogic Connected to: OF!	SLLREL_domai
Click the Lock & Edit button to modify, add	or	Home >Sum	mary of JDBC Dat	a Sources			
delete items in this domain.	s	Summary of	JDBC Data Sour	ces			
Lock & Edit Release Configuration	1	Configurati	on Monitoring	]			
Domain Structure	-	A JDBC dat	a source is an obje	ect bound	to the JNDI tree that provides	database connectivity through	a pool of
FSLLREL_domain Domain Partitions Environment Deployments	^	JDBC conn connection This page :	ections. Application from a data sourc summarizes the JD	ns can lool e. BC data se	k up a data source on the JNDI ource objects that have been cr	tree and then borrow a datab reated in this domain.	ase
⇒Services ⊕-Messaging		Customiz	e this table				
- Data Sources - Persistent Storm - Foreign JNDI Providers - Work Contexts		Data Sour	ces (Filtered - Mo ock & Edit button	o <mark>re Colur</mark> in the Cha	nns Exist) inge Center to activate all the b	uttons on this page.	
Data Sources     Persistent Stock     Foreign JNDI Providers     Work Contexts     XML Registries     XML Registries		Data Sour	ces (Filtered - Mo ock & Edit button Delete	ore Colur	nns Exist) inge Center to activate all the b	uttons on this page. Showing 1 to 6 of 6 Pr	evious Next
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Data Sources Persistent Story Foreign JND Providers Work Contexts XML Registries XML Registries -XML Rethty Caches -JOOM -Mail Sessions	~	Data Sour Click the Lo New * Nam	ces (Filtered - Mo ock & Edit button Delete e 🏟 SvcTblDataSource	Type Generic	nns Exist) inge Center to activate all the b JNDI Name jdbc/LocalSvcTblDataSource	Showing 1 to 6 of 6 Pr Targets AdminServer	evious Next
Data Sources Persistent Storm Poreign NDD Providers -Work Contexts -Will Registries -XML Ently Caches -jcom -Mail Sessions ow do 1	~	Data Sour Click the Lo New • Locat mds-u	e cost (Filtered - Mo back & Edit button i Delete e cost SvcTblDataSource adf	Type Generic Generic	nns Exist) inge Center to activate all the b JNDI Name jdbc/LocalSvcTblDataSource jdbc/mds/adf	Showing 1 to 6 of 6 Pr Targets AdminServer AdminServer	evious Next
Outa Sources     Persistent Stor     Persistent Stor     Vork Contexts     Work Contexts     Work Contexts     Will Registries     XML Entity Caches     jound     Mail Sections      ow do In.      Create JDBC generic data sources Create JDBC GridLink data sources	-	Data Sour Click the Lo New # Local opss-	es (Filtered - Mo ock & Edit button Delete e & SvcTblDataSource adf audit-DBDS	Type Generic Generic Generic	INDI Name jdbc/LocalSvcTblDataSource jdbc/AuditAppendDataSource	Showing 1 to 6 of 6 Pr Targets AdminServer AdminServer, OFSLL_Manage WS_ManagedServer	evious Next
Data Sources Persistent Sto Persistent Sto Portion NDD Providers Work Contexts Work Contexts Work Contexts Work Contexts Work Contexts Work Contexts Contexts Contexts Contexts Contexts Contexts Contexts Contexts Contexts DDBC generic data sources Contexts DDBC GridLink data sources Contexts DDBC multi data sources Contexts Contexts DDBC multi data sources Contexts Contexts DDBC multi data sources Contexts		Data Sour Click the Le New • Locat opss- opss-	es (Filtered - Mo ock & Edit button Delete e & SvcTblDataSource add audit-DBDS audit-ViewDS	Type Generic Generic Generic	INDI Name jdbc/LocalSvcTblDataSource jdbc/AuditAppendDataSource jdbc/AuditViewDataSource	Showing 1 to 6 of 6 Pr Targets AdminServer AdminServer AdminServer, OFSLL_Manage WS_ManagedServer AdminServer, OFSLL_Manage	evious Next dServer, dServer,
Data Sources     Persistent Stor     Persistent Stor     Work Contexts     Create JDBC generic data sources     Create JDBC multi data sources	>	Data Sour Click the Lo New • Locat opss- opss-	ces (Filtered - McK & Edit button i Delete e co SvcTblDataSource idf audit-DBDS audit-ViewDS data-source	Type Generic Generic Generic Generic Generic Generic	INDI Name JNDI Name Jdbc/LocalSvcTblDataSource Jdbc/AuditAppendDataSource Jdbc/AuditViewDataSource Jdbc/OpssDataSource	Showing 1 to 6 of 6 Pr Targets AdminServer AdminServer AdminServer, OFSLL_Manage WS_ManagedServer AdminServer, OFSLL_Manage WS_ManagedServer AdminServer, OFSLL_Manage WS_ManagedServer	evious Next dServer, dServer, dServer,
Data Sources     Parsistent Sto     Poreign JNDI Providers     Work Contexts     Work     Work Context     Work Contexts     Work Context     Work Cont		Data Sour Click the Lo New Locat opss- opss- opss-	ces (Filtered - Mc cold & Edit button i Delete e & SvcTblDataSource addi audit-DBDS audit-ViewDS data-source chemaDataSource	Type Generic Generic Generic Generic Generic Generic	INDI Name jdbc/LocalSvcTblDataSource jdbc/AuditAppendDataSource jdbc/AuditViewDataSource jdbc/OpssDataSource jdbc/VuLSSchemaDataSource	Showing 1 to 6 of 6 Pr Targets AdminServer AdminServer AdminServer, OFSLL_Managed WS_ManagedServer AdminServer, OFSLL_Manage WS_ManagedServer	evious Next dServer, dServer, dServer,

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

Change Center	101 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
Iomain Structure	The following properties will be used to identify your new JDBC data source.
PSLLREL_domain	* Indicates required fields
- Environment 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	Scope: Global V
	What JNDI name would you like to assign to your new JDBC Data Source?
low do I	JNDI Name:
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_de	omain
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	
Iomain Structure	The following properties will be used to identify your new JDBC data source.	
DFSLLREL_domain DF-Domain Partitions DF-Darvionment - Daployments D-Services BF-Messaging Data Sources Poreign JND Providers Work Contexts Work Contexts Work (Sottexts	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         Driver:       Back         Image:       *Cacle's Driver (Thin) for Instance connections; Versions:Any	]
XML Entity Caches 		
low do I		
Create JDBC generic data sources     Create LLR-enabled JDBC data sources		
iystem Status 🖂		
Health 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	Ter Home Log Out Preferences A 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 th domain.	Home >Summary of JDBC Data Sources     Create a New JDBC Data Source
Lock & Edit Release Configuration	Back Next Finish Cancel
Oomain Structure	Transaction Options You have selected non-XA IDBC driver to create database connection in your new data source.
FSLLREL_domain 9-Domain Partitions 9-Environment Deployments	Does this data source support global transactions? If yes, please choose the transaction protocol for this data source.
Services     Hessaging     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 XML Entity Caches JCOM Mail Sessions	Logging Last Resource     Select this option if you want to enable non-XA JDBC connections from the data source to emulate participation in     global transactions using JTA. Select this option only if your application can tolerate heuristic conditions.
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 DBC 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
ealth of Running Servers as of 7:06 PM	Back Next Finish Cancel
Failed (0) Critical (0)	



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

Change Center	Home Log Out Preferences	s 🚵 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 th domain.	e Create a New JDBC Data Sour	Sources
Lock & Edit	Back Next Finish C	ancel
Release Configuration	Connection Properties	
Jomain Structure	Define Connection Properties.	
)FSLLREL_domain T-Domain Partitions	What is the name of the databa	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?
Foreign JNDI Providers Work Contexts	Host Name:	ofsll.oracle.com
XML Registries XML Entity Caches	What is the port on the databas	e server used to connect to the database?
	Port.	1521
low do I	What database account user na	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 p	assword to use to create database connections?
ealth of Running Servers as of 7:06 PM	Password:	•••••
Failed (0) Critical (0)	Confirm Password:	•••••
Warning (0)	Additional Connection Propertie	5:

Change Center		Home Log Out Pre	iferences 🔛 Record Help
View changes and restarts			Welcome, weblogic Connected to: OFSLLREL_doma
No pending changes exist. Click the Release Configuration button to allow others to edit domain. Lock & Edit Release Configuration	e the	Hone >Summary of JD Create a New JDBC Da Test Configuration	BBC Data Sources  ta Source  Back Next Finish Cancel  tection
Domain Structure		Test the database ava	ilability and the connection properties you provided.
DF5LLREL_domain IP-Domain Partitions IP-Environment IP-Deployments	^	What is the full packag (Note that this driver c	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
	~	What is the URL of the URL: What database account	database to connect to? The format of the URL varies by JDBC driver. jdbc:oracle:thin:@ofsil.oracle.com:1521:OLLDB 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		What is the database a (Note: for secure pass)	count password to use to create database connections? word management, enter the password in the Password field instead of the Properties field below)
System Status	-	The second s	enederne werden eine eine eine eine eine eine eine e
Health of Running Servers as of 7:17 PM		Password:	••••••
Failed (0) Critical (0) Overloaded (0)		Confirm Password:	•••••
Warning (0) OK (3)		What are the propertie	s to pass to the JDBC driver when creating database connections?

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	DBC Data Sources
Release Configuration	Create a New JDBC D	ata Source
Domain Structure	Test Configuration	Back Next Finish Cancel
DFSLLREL_domain D-Domain Partitions  D-Environment	Test Database Con Test the database av	nection silability and the connection properties you provided.
Deployments     Services     Messaging     Data Sources	What is the full packag	e name of JDBC driver class used to create database connections in the connection pool?
Foreign JNDI Providers     Work Contexts     Work Contexts	Driver Class Name:	oracle.jdbc.OracleDriver
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
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	eccount 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)	Confirm Password:	••••••

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

Change Center	ta Home Log Out Preferences and 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 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 Services	
Hessaging	
Data Sources	✓ OFSLL_ManagedServer
-Foreign JNDI Providers	
Work Contexts	U WS_ManagedServer
-XML Entity Caches	provide a second because of the second
јСОМ	Back Next Finish Cancel
· · · · mail sessions	
How do 1	
<ul> <li>Create JDBC generic data sources</li> </ul>	
<ul> <li>Create LLR-enabled JDBC data sources</li> </ul>	
System Status	
Health of Running Servers as of 7:21 PM	
Failed (0)	
Critical (0)	
Overloaded (0)	
Warning (0)	
→K (3)	



14. Select target Servers 'AdminServer' and 'OFSLL\_ManagedServer' and click 'Finish'. The following window is displayed.

Change Center		Home Log Out Preferent	es 🔄 Re	cord Help	9
View changes and restarts					Welcome, weblogic Connected to: OFSLLREL_dom
Click the Lock & Edit button to modify, add or	н	ome >Summary of JDBC Da	ta Sources		
delete items in this domain.	Mass	ssages			
Look & Edit		All changes have been ac	tivated. No	restarts are necessary.	
Release Configuration	Sur	nmary of JDBC Data Sou	rces		
Jomain Structure		onfiguration Monitoring			
<ul> <li>Domain Partitions</li> <li>Environment</li> <li>Deployments</li> <li>Services</li> <li>Gi-Messaging</li> <li>Data Sources</li> <li>Persistent Stores</li> </ul>		A JDBC data source is an ob connections. Applications ca source. This page summarizes the J	ject bound n look up a DBC data s	to the JNDI tree that provides data source on the JNDI tree i ource objects that have been c	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 this table Data Sources (Filtered - M Nick the <i>Lock &amp; Edit</i> buttos New - Delete	tore Colu in the Cha	nns Exist) ange Center to activate all the b	buttons on this page. Showing 1 to 7 of 7 Previous   Next
- Foreign JNDI Providers - Work Contexts - XML Registries - XML Registries - XML Entity Caches - JOM - Mail Sessions tow do I		Customize this table Data Sources (Filtered - N Cick the Lock & Edit buttor New - Delate	Type	nns Exist) ange Center to activate all the b JNDI Name	Showing 1 to 7 of 7 Previous   Next
Foreign JNDI Providers Work Contexts XML Registries XML Registries XML Sensions Mail Sessions		Customize this table bata Sources (Filtered - F click the Lock & Edit buttor New Delete Name $\approx$	Type	nns Exist) inge Center to activate all the b INDI Name	Showing 1 to 7 of 7 Previous   Next
- Foreign JNDI Providers - Work Contexts - Work Contexts - Work Entry Caches - JCOM - Mail Sessions - Create JDBC generic data sources Create JDBC gridLink data sources		Customize this table Data Sources (Filtered - P Cick the Lock & Edit button New Delete Name & LocalSvcTblDataSource	Type Generic	nns Exist) inge Center to activate all the b JNDI Name Jdbc/LocalSvcTblDataSource	Showing 1 to 7 of 7 Previous   Next
Foreign 3NDI Providers		Customize this table lata Sources (Filtered - 1 Sick the Lock & Edir buttor New > Daiste LocalSvcTblDataSource mds-adf	Type Generic Generic	nns Exist) Inge Center to activate all the b JNDI Name Jdbc/LocalSvcTblDataSource Jdbc/mds/adf	Showing 1 to 7 of 7 Previous   Next Targets AdminiServer AdminiServer
Foreign JNDI Providers		Customize this table Data Sources (Filtered - P Citck the Lock & Edit buttor New Delate LocalSvcTblDataSource mds-adf OFSLL	Type Generic Generic Generic	nns Exist) INDI Name jdbc/kocelSvcTblDataSource jdbc/mds/adf jdbc/mds/adf	Showing 1 to 7 of 7 Previous   Next Targets AdminiServer AdminiServer AdminiServer AdminiServer AdminiServer, OFSL_ManagedServer
Foreign 3MD Provides     Work Contents     Work Contents     Work Contents     Work Contents     Work Contents     Mail     Mail     Create 3DBC Gradition		Customize this table bata Sources (Filtered - F Sick the Lock & Edic buttor Name & LocalSvcTblDataSource mds-adf OFSLL epse-sudit-DBDS	Type Generic Generic Generic	INDI Name Jobc/LocalSvcTblDataSource Jobc/LocalSvcTblDataSource Jobc/ordJalDBConnDS Jobc/ofulDBConnDS	Showing 1 to 7 of 7 Previous   Next Targets AdminiServer AdminiServer, OFSL_ManagedServer AdminiServer, OFSL_ManagedServer,
Foreign 3NDF Providers     Work Contents     Work Contents     Work Contents     Statute     Statute     Contents     Statute     Contents     Contents		Customize this table bate Sources (Filtered - P Cick the Look & Edite buttor News Dahiel LocalisvCTb/DataSource data-adf OFSLL opss-audit-DBDS opss-audit-viewDS	Type Generic Generic Generic Generic Generic	Inne Exist) INDI Name jsbc/LocalSvcTbDataSource jsbc/ndi/adf jsbc/ofali08ConnDS jsbc/AditAppendDataSource jsbc/AditAppendDataSource	Showing 1 to 7 of 7 Previous   Next Targets AdminiServer AdminiServer AdminiServer AdminiServer OFSLL_ManagedServer VS_ManagedServer VS_ManagedServer VS_ManagedServer
Foreign 3MDF Providers		Customize this table bata Sources (Filtered - 1) click the <i>Lock &amp; Edit</i> buttor Nerrer Delete Name ở Locality/TbiDataSource mda-adit OFSLL opss-audit-/BDDS opss-audit-/BDDS	Type Generic Generic Generic Generic Generic	nns Exist) JNDI Name Jabr/Locality-TbDataSource Jdbc/rds10BConnDS Jdbc/dxl0tAppandDataSource Jdbc/dxl0tAppandDataSource Jdbc/dxl0tAppacaSource	Showing 1 to 7 of 7 Previous   Next Tergesta AdminiServer AdminiServer AdminiServer, OFSLL_ManagedServer AdminiServer, OFSLL_ManagedServer, AdminiServer, OFSLL_ManagedServer, ManagedServer VS_ManagedServer VS_ManagedServer, Sector Status, Sector Status, Sector Sect

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	E Home	Log Out Prefe	rences 🚵	Record Help			Q			
View changes and restarts					1	Welcom	e, weblogic	Connected to	: OFSLLRE	L_doma
Click the Lock & Edit button to modify, add or	Home >Su	Home >Summary of JDBC Data Sources >Summary of Security Realms >myrealm								
elete items in this domain.	Settings fo	Settings for myrealm								
Lock & Edit Release Configuration	Configura	uration Users and Groups Roles and Po		licies Credential Mappings		ial Mappings	Providers	Migration	1	
	General	RDBMS Secu	rity Store	User Lockout	Perfo	rmance				
omain Structure	Click the	Lack & Edith	stee in the	Change Canton		for the set	tions on this w			
-SLLREL_domain Domain Partitions Environment	Save	LOCK & LON DO	ictori in che	Change Center		iry the set	ungs on this p	aye.		
- Services Security Realms Interoperability	Use this p Note:	page to configu	re the gene	eral behavior of t	this sec	urity realr	n.			
the Diagnostics	j a	If you are imple ISR 115), you m and the security	menting se oust use the functions f	curity using JAO e DD Only securi for Web applicat	C (Java ty modi ions ani	Authoriza el. Other 1 d EJBs in	tion Contract WebLogic Serv the Administra	for Container er models ar ition Console	rs as defined re not availab are disabled	in ble I.
th <sup>-</sup> Diagnostics	J a Name:	It you are imple ISR 115), you m and the security	menting se nust use the functions f myrea	curity using JAO a DD Only securi for Web applicat alm	C (Java ty modi ions ani	Authoriza el. Other ' d EJBs in	tion Contract ( WebLogic Serv the Administra The name of Info	for Container ver models ar ition Console this security	rs as defined e not availat are disabled realm. Mo	in ble I.
ev do I	Name: Mame: A Secur Default:	it you are imple JSR 115), you m and the security ity Model	menting se nust use the functions f myrea	curity using JAO e DD Only securi for Web applicat alm Only	C (Java ty mod ions and	Authoriza el. Other 1 d EJBs in	tion Contract WebLogic Serv the Administra The name of Info Specifies the applications of security realr during deplo	for Container rer models ar thion Console this security default secu or EJBs that : m. You can o yment. Mor	rs as defined e not availab are disabled realm. Mo rity model fo are secured l verride this o e Info	in ble I. re or Web by this default
Iow do I Configure new security realms Enable automatic realm restart Manage security for Web applications and EDBs	Name: Mame: Me Secur Default:	it you are imple ISR 115), you m and the security ity Model	menting se nust use the functions f myrea	curity using JAC a DD only securi of Web applicat alm Only Enabled	C (Java ty mod ions and	Authoriza el. Other 1 d EJBs in	tion Contract WebLogic Serv the Administra The name of Info Specifies the applications of security real during deploy Determines h Enterprise Ap EDB containe	for Container ver models ar ition Console this security default secu or EJBs that : n. You can o yment. Mor now the role oplication, W.	rs as defined re not availab are disabled realm. Mo rity model fo are secured l verride this o e Info mappings in eb applicatio his settino is	in ole i. re by Web by this default the n, and valid
tow do I Configure new security realms Enable automatic realm restart Manage security for Web applications and EBB Set the default security model Delegate MBean authorization to the realm	Name:	it you are imple ISR 115), you m and the security ity Model	menting security set of the set o	curity using 3AC a DD Only security for Web application only Only Enabled	C (Java ty mod ions an	Authoriza el. Other d EJBs in	tion Contract WebLogic Serv the Administra The name of Info Specifies the applications of escurity real during deploy Determines H Enterprise Ag EB containes only for Web the Advancet initialize roles descriptors.	for Container rer models ar thion Console this security default secu or EBs that i m. You can o yment. Mor now the role oplication, W rs interact. T applications, the s from deploy More Info	rs as defined e not availat are disabled realm. Mo rity model fo are secured 1 verride this o e Info mappings in b applicatio his setting is and EJBs th odel and that yment	in ble ble in Web by this default the n, and 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	Home >Summary of JDBC Data Sources >Summary of Security Realms >myrealm >Summary of Security Realms >myrealm >Providers
Configuration button to allow others to edit the domain.	Create a New Authentication Provider
Lock & Edit 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     Intercore rability	* Name: OFSLLDBAuthenticator
-Diagnostics	This is the type of authentication provider you wish to create.
	Type: SQLAuthenticator
	OK Cancel
How do I 🖂	
<ul> <li>Manage security providers</li> </ul>	
<ul> <li>Configure authentication and identity assertion providers</li> </ul>	
System Status	
Health of Running Servers as of 7:33 PM	
Failed (0)	
Critical (0)	
Overloaded (0)	
Warping (0)	

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



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

Change Center		B Home Log	Out Preferences 🚵	Record Help	9	<u>88</u>		
View changes and restarts					Welcom	e, weblogic	Connecter	d to: OFSLLREL_dom
ending changes exist. They must be activate	e l	Home >Summa	ry of JDBC Data Source	s >Summary of Security	Realms >myrealm >Sur	mmary of Secu	ity Realms	>myrealm >Providers
o take effect.	Se	ettings for my	realm					
Activate Changes		Configuration	Users and Groups	Roles and Policies	Credential Mappings	Provider	s Migrat	tion
Undo All Changes	16	Authenticatio	Password Valid	ation Authorization	Adjudication Rol	le Manning	Audition	Credential Manning
omain Structure					, inglocitoria inter		- loaning	creating rapping
FSLLREL_domain		Certification Pa	itn					
<sup>1)</sup> Diagnostics		Customize t	hic table					
		Authenticatio	on Providers			Show	ring 1 to 4	of 4 Previous   Next
		Authentication	on Providers	Descrij	ption	Show	ring 1 to 4	of 4 Previous   Next Version
10w do I		Authentication	n Providers	Descrip	<b>ption</b> ervice Identity Assertio	Show n Provider	ring 1 to 4	of 4 Previous   Next Version 1.0
ow do I Configure authentication and identity		Authentication	n Providers  Reorder  rvice Identity Asserte uthenticator	Descrip r Trust Se WebLog	<b>ption</b> arvice Identity Assertio jic Authentication Prov	Show n Provider ider	ring 1 to 4	of 4 Previous   Next Version 1.0 1.0
iow do I Configure authentication and identity assertion providers		Authentication	n Providers Reorder  rvice Identity Asserter uthenticator	r Trust Se WebLog WebLog	<b>ption</b> arvice Identity Assertio lic Authentication Prov lic Identity Assertion p	Show n Provider ider rovider	ring 1 to 4	of 4 Previous   Next Version 1.0 1.0 1.0
low do I Configure authentication and identity assertion providers Configure the Password Validation provider		Authenticati New Dele Name Trust Se DefaultA DefaultI OFSLLD	n Providers  Reorder  rvice Identity Asserte  uthenticator  dentityAsserter  BAuthenticator	r Trust Sa WebLog WebLog Provider	ption ervice Identity Assertio jic Authentication Prov jic Identity Assertion p r that performs DBMS	Show In Provider ider rovider authentication	ring 1 to 4	of 4 Previous   Next Version 1.0 1.0 1.0 1.0 1.0
Iow do I Configure authentication and identity assertion providers Configure the Password Validation provider Manage security providers		Authenticatii New Dek Name Trust Se DefaultA DefaultA OFSLLD New Dek	n Providers  Reorder  rvice Identity Asserte uthenticator dentityAsserter BAuthenticator te Reorder	r Trust Se WebLog Provider	ption arvice Identity Assertio jic Authentication Prov jic Identity Assertion p that performs DBMS .	Show In Provider ider rovider authentication Show	ring 1 to 4	of 4 Previous   Next Version 1.0 1.0 1.0 1.0 0 4 Previous   Next
fow do I Configure authentication and identity assertion providers Configure the Password Validation provider Manage security providers Set the JAAS control flag Pandra services		Authenticatii New Dek DefaultA DefaultA OFSLLD	In Leore In Providers Itel Reorder Invice Identity Asserts uthenticator dentity Asserter BAuthenticator Itel Reorder	r Trust Se WebLog Provider	ption arvice Identity Assertio gic Authentication Prov gic Identity Assertion p that performs DBMS	Show in Provider ider rovider authentication Show	ring 1 to 4	of 4 Previous   Next Version 1.0 1.0 1.0 1.0 0 1.0 1.0 1.0
low do I Configure authentication and identity assertion providers Configure the Password Validation provider Manage security providers Set the JAAS control flag Re-order authentication providers		Authenticatii New Dele Name Trust Se Defaulti Defaulti New Dele	rvice Identity Asserte uthenticator dentity Asserter Aduthenticator dentity Asserter	r Trust Se WebLog VebLog Provider	ption arvice Identity Assertio jic Authentication Prov jic Identity Assertion p it that performs DBMS .	Show in Provider ider rovider authentication Show	ring 1 to 4	of 4 Previous   Next Version 1.0 1.0 1.0 1.0 0 1.0 0 1.0 1.
tow do I 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		Authenticatii New Dela Name Trust Se Defaulti Defaulti OFSLDD New Dela	rvice Identity Asserte uthenticator dentity Asserter Aduthenticator	r Trust Se WebLog Provider	ption arvice Identity Assertio jic Authentication Prov jic Identity Assertion p r that performs DBMS .	Show n Provider ider rovider authentication Show	ring 1 to 4	of 4 Previous   Next Version 1.0 1.0 1.0 1.0 1.0 0 f4 Previous   Next
fow do I Configure authentication and identity assertion providers Configure the Password Validation provider Manage security providers Set the JAS control flag Re-order authentication providers Vystem Status Health of Running Servers as of 7:35 PM		Authenticatii New Dele Name Trust Se DefaultA OFSLLD New Dele	rvice Identity Asserte uthenticator dentity Asserter Aduthenticator	r Trust Se WebLog Provider	ption arvice Identity Assertio lic Authentication Prov lic Identity Assertion p r that performs DBMS -	Show In Provider ider rovider authenticatior Show	ring 1 to 4	of 4 Previous   Next Version 1.0 1.0 1.0 1.0 0 1.0 0 1.0 1.
How do I • 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 Health of Running Servers as of 7:35 PM Failed (0)		Authenticati New Dele Trust Se Default4 Default4 New Dele	n Providers te Reorder  rvice Identity Asserte uthenticator dentityAsserter Authenticator te Reorder	r Trust S WebLog Provider	ption ervice Identity Assertio jic Authentication Prov jic Identity Assertion p that performs DBMS	Show in Provider ider rovider authentication Show	ring 1 to 4	of 4 Previous   Next Version 1.0 1.0 1.0 1.0 0 1.0 1.0 1.0

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

anange center	1 H	ome Log Ou	t Preferences 🚵	Record Help		Q		
liew changes and restarts					Welco	me, weblogic	Connected	to: OFSLLREL_dor
ending changes exist. They must be activated	Home	a >Summary o	of 3DBC Data Sources	>Summary of Security	Realms >myrealm >	Summary of Secur	rity Realms >	myrealm >Providers
o take effect.	Settin	gs for myre	alm					
Activate Changes	Confi	ouration (	Users and Groups	Roles and Policies	Credential Mappi	Provider	s Migratio	0
Undo All Changes			Conserved webste		a development of	Dala Manalan	Auditor	Condensiel Mensier
omain Structure	Autr	ientication	Password Valida	tion Authorization	Adjudication	Kole Mapping	Auditing	Credential Mapping
SLIBEL domain	Certi	fication Path						
3-Diagnostics	Aut	nentication	; table Providers Reorder			Show	ring 1 to 4 o	f 4 Previous   Next
	_	1						
		Name		Descrip	otion			Version
ow do I		OFSLLDBA	uthenticator	Provider	tion	15 authentication	1	Version
ow do I		Name OFSLLDBA DefaultAut	uthenticator henticator	Provider WebLog	tion that performs DBM ic Authentication P	45 authenticatior rovider	1	Version 1.0 1.0
Configure authentication and identity assertion providers		Name OFSLLDBA DefaultAut DefaultIde	uthenticator henticator htityAsserter	Provider WebLog WebLog	that performs DBM ic Authentication P ic Identity Assertio	45 authenticatior rovider n provider	8	Version 1.0 1.0 1.0
ow do I Configure authentication and identity assertion providers Configure the Password Validation provider		Name OFSLLDBA DefaultAut DefaultIder Trust Servi	uthenticator henticator ntityAsserter ce Identity Asserter	Provider WebLog WebLog Trust Se	tion that performs DBM ic Authentication P ic Identity Assertio rvice Identity Asse	45 authenticatior rovider n provider rtion Provider		Version 1.0 1.0 1.0 1.0 1.0
ow do I Configure authentication and identity assertion providers Configure the Password Validation provider Manage security providers		Name OFSLLDBA DefaultAut DefaultIde Trust Servi	uthenticator henticator ntityAsserter ce Identity Asserter	Descrip Provider WebLog WebLog Trust Se	that performs DB/ ic Authentication P ic Identity Assertio rvice Identity Asse	45 authenticatior rovider n provider rtion Provider Show	ing 1 to 4 o	Version 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
ow do I Configure authentication and identity assertion providers Configure the Password Validation provider Manage security providers Set the JAAS control flag Bacorder subhenisation providers		Name OFSLLDBA DefaultAut DefaultIde Trust Servi	uthenticator henticator ntityAsserter ce Identity Asserter	Provider WebLog WebLog Trust Se	tion that performs DBM ic Authentication P ic Identity Assertio rvice Identity Asse	45 authenticatior rovider n provider rtion Provider Show	ring 1 to 4 o	Version           1.0           1.0           1.0           1.0           f4           Previous   Next
Dow do I Configure authentication and identity assertion providers Configure the Password Validation provider Manage security providers Set the JAAS control flag Re-order authentication providers		Name OFSLLDBA DefaultAut DefaultIde Trust Servi w Delete	uthenticator henticator ntityAsserter ce Identity Asserter	Provider Provider WebLog Trust Se	tion that performs DBM ic Authentication P ic Identity Assertio rvice Identity Asse	15 authenticatior rovider n provider rtion Provider Show	ring 1 to 4 o	Version           1.0           1.0           1.0           1.0           1.0           1.0           1.0
ow do I  Configure authentication and identity assertion providers  Configure the Password Validation provider  Nanage security providers  Set the JAXS control flag  Re-order authentication providers  stem Status		Name OFSLLDBA DefaultAut DefaultIde Trust Servi W Delete	uthenticator henticator ntityAsserter ce Identity Asserter	Provider VebLog VebLog Trust Se	ttion that performs DBN ic Authentication P ic Identity Assertio rvice Identity Asse	15 authenticatior rovider n provider rtion Provider Show	ring 1 to 4 o	Version           1.0           1.0           1.0           1.0           1.0           1.0           1.0           1.0           1.0
The second secon		Name OFSLLDBA DefaultAut DefaultIde Trust Servi w Delete	uthenticator henticator ntityAsserter ice Identity Asserter	Provider WebLog VebLog	ttion that performs DBN ic Authentication P ic Identity Assertio rvice Identity Asse	45 authentication rovider n provider rtion Provider Show	ring 1 to 4 o	Version           1.0           1.0           1.0           1.0           f4           Previous   Next
ow do I     Image: 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       Bealth of Running Servers as 07:37 PM       Estied (0)		Name OFSLLDBA DefaultAut DefaultIde Trust Servi w Delete	uthenticator henticator ntityAsserter ic Identity Asserter	Pescript Provide WebLog WebLog	tion that performs DBN ic Authentication P ic Identity Assertio rvice Identity Asse	15 authentication rovider n provider trion Provider Show	ring 1 to 4 o	Version           1.0           1.0           1.0           1.0           1.0           1.0           1.0
iow do I  Configure authentication and identity assertion providers Configure the Password Validation provider Configure the Password Validation provider Set the JAAS control Rag Re-order authentication providers  Authentication providers  Health of Running Servers as of 7:37 PM Falled (0) Critical (0)		Name OFSLLDBA DefaultAut DefaultIde Trust Servi w Delete	uthenticator henticator ntityAsserter ice Identity Asserter	Provide Provide WebLog Trust Se	tion that performs DBN ic Authentication P ic Identity Assertio rvice Identity Asse	45 authentication rovider n provider tion Provider Show	ring 1 to 4 o	Version           1.0           1.0           1.0           f4           Previous   Next

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 I	Preferences 🔄 Record Help	<u>Q</u>
View changes and restarts		w	elcome, weblogic Connected to: OFSLLREL_domain
No pending changes exist. Click the Release	Home >Providers >Su	mmary of Services >Summary of Security Realms >myre	alm >Providers >OFSLLDBAuthenticator
Configuration button to allow others to edit the domain.	Settings for OFSLLD	BAuthenticator	
Lock & Edit	Configuration Pe	erformance	
Release Configuration	Common Provide	er Specific	
Jomain Structure	Save		
FSLLREL_domain D-Domain Partitions D-Diriconment Deployments D-Service	This page displays Control Flag to con	basic information about this SQL Authentication pro trol how this provider is used in the login sequence.	vider. You can also use this page to set the JAAS
- Services - Security Realms - Interoperability	🚓 Name:	OFSLLDBAuthenticator	The name of this SQL Authentication provider. More Info
2 Diagnosocs	description:	Provider that performs DBMS authentication	A short description of this SQL Authentication provider. More Info
	街 Version:	1.0	The version number of this SQL Authentication provider. More Info
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	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 🔤 R	ecord Help	Q
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		
Activate Changes	Configuration Performance		
Undo Air Changes	Common Provider Specific		
omain Structure FSLLREL_domain	Save		
D-Domain Partitions D-Environment Deployments	Use this page to define the provider s	pecific configuration of this S	QL Authentication provider.
⊕-Security Realms ⊕-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
iow do I	Group Membership Searching:	unlimited 🔽	Specifies whether recursive group membership searching is unlimited or limited. Valid values are unlimited andlimited. More Info
<ul> <li>Configure authentication and identity assertion providers</li> <li>Manage security providers</li> </ul>	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
System Status			For example, 0 indicates only direct group
ealth of Running Servers as of 8:03 PM			indicates the number of levels to go
Failed (0)			down, More Info
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

- 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	



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

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:
Last Successful login time: Sat Sep 16 2017 10:38:03 +05:30
Connected to:
Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production
With the Partitioning, OLAP, Advanced Analytics and Real Application Testing options
SQL> @crt_app_user.sql
Enter the name of the OFSLL App user Id you
Want to create user: DEMOSUPR
Enter the First Name for this user: DEMO
Enter the First Name for this user: 9997778866
Enter the Fax Number for this user: 9997778866
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..

hange Center	館 Home Log Out Preferences ⊿	Record Help	Q	
ew changes and restarts			Welcome, weblogic Conr	nected to: OFSLLREL_dom
ick the Lock & Edit button to modify, add or	Home >Summary of Security Reals	ms		
elete items in this domain.	Summary of Security Realms			
Lock & Edit Release Configuration	A security realm is a container for	the mechanismsincluding users	groups, security roles, securit	ty policies, and security
omain Structure	providersthat are used to protect domain, but only one can be set a	t WebLogic resources. You can ha the default security realm, whic	we multiple active security rea h is reserved for domain admin	lms in a WebLogic Server nistrative purposes.
FSLLREL_domain Ə-Domain Partitions Ə-Environment	This Security Realms page lists ea name of the realm to explore and	ch security realm that has been c configure that realm.	onfigured in this WebLogic Ser	rver domain. Click the
Deployments IServices	Customize this table			
Security Realms	Realms (Filtered - More Colum	ne Exiet)		
I Interoperability Diagnostics	Click the Lock & Edit button in th	e Change Center to activate all th	e buttons on this page.	
	New Delete		Showing 1	to 1 of 1 Previous   Next
	🔲 Name 🗠	Default Realn	n	
	myrealm	true		2
ow do I	New Delete	1	Showing 1	to 1 of 1 Previous   Next
Configure new security realms				
Enable automatic realm restart				
Delete security realms				
Change the default security realm				
ystem Status 🖂	3			
lealth of Running Servers as of 10:49 AM				
Failed (0)				
Critical (0)				
Overloaded (0)				
warning (0)				

4. Select 'Users' tab under Users and Groups.



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

Home >Sun	nmary of Security Re		Malana -						
Home >Sun	nmary of Security Re		weicome, v	veblogic Conn	ected to: OFSLLREL_dor				
Settings for		Home >Summary of Security Realms >myrealm >Summary of Security Realms >myrealm >Users and Groups							
Settings for myreann									
Configuratio	on Users and G	nd Groups Roles and Policies Credential Mappings Providers			ligration				
Users (	Stoups								
This page Customi: Users (Fil	displays information ze this table ltered - More Colo	n about each user that has b umns Exist)	een configured in this se	ecurity realm.					
New	New Delete Showing 1 to 4 of 4 Previous   Next								
Nan	ne 🗠 🛛 De	Description		Provider					
DEM	IOSUPR DE	DEMO SUPR			OFSLLDBAuthenticator				
LCM	User Thi	s is the default service accour figuration updates.	<sup>r</sup> DefaultAuthenticator						
Orac	leSystemUser Ora	cle application software syste	m user.		DefaultAuthenticator				
webi	logic Thi	s user is the default administr	ator.		DefaultAuthenticator				
New	Delete			Showing 1	to 4 of 4 Previous   Next				
1									
	Users C This page Customi Users (Fil New Customi Cusers (Fil New Customi Cusers (Fil New Customi Cusers (Fil New Customi Cusers (Fil New Customi Cusers (Fil Customi Cusers (Fil Customi Cusers (Fil Cusers (Fil Customi Cusers (Fil Cusers (Fil Cuser	Users Groups This page displays informatio Customize this table Users (Filtered - More Colo New Delete DEMOSUPR DEM DEMOSUPR DEM DEMOSUPR DEM LOMUser Thin OracleSystemUser Ora weblogic Thit New Delete	Users       Groups         This page displays information about each user that has b         Customize this table         Users (Filtered - More Columns Exist)         New       Delete         DEMOSUPR       DEMO SUPR         LCMUser       This is the default service account configuration updates.         OracleSystemUser       Oracle application software syste         weblogic       This user is the default administre         New       Delete	Users       Groups         This page displays information about each user that has been configured in this set         Customize this table         Users (Filtered - More Columns Exist)         New       Delete         DEMOSUPR       DEMO SUPR         DEMOSUPR       DEMO SUPR         LCMUser       This is the default service account for WebLogic Server L         OracleSystemUser       Oracle SystemUser         Weblogic       This user is the default administrator.         New       Delete	Users       Groups         This page displays information about each user that has been configured in this security realm.         Customize this table         Users (Filtered - More Columns Exist)         Name        Description         DEMOSUPR       DEMO SUPR         LCMUser       This is the default service account for WebLogic Server Lifecycle Manages         OracleSystemUser       Oracle System User.         weblogic       This user is the default administrator.         New       Delette				

## 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.

hange Center	He He	ome Log Out Preference:	s 🚵 Record Help	Q		
iew changes and restarts				Welcome, weblogic Cor	nnected to: OFSLLREL_doma	
ick the Lock & Edit button to modify, add or	Home	<ul> <li>Summary of Security Real</li> </ul>	ms >myrealm >Summary of Se	ecurity Realms >myrealm >Users and Gr	oups	
elete items in this domain.	Setting	gs for myrealm				
Lock & Eul	Config	guration Users and Gr	oups Roles and Policies	Credential Mappings Providers	Migration	
Release Configuration	User	Groups				
omain Structure						
Domain Partitions     Environment     Deployments     Services     Services	Cus Grou	tomize this table				
Diagnostics	Ner	New Delete Showing 1 to 9 of 9 Previous				
		Name 🖚	Description	Provider		
		AdminChannelUsers	AdminChannelUsers can access the admin channel.		DefaultAuthenticator	
		Administrators	Administrators can view an and stop servers.	DefaultAuthenticator		
ow do I		AppTesters	AppTesters group.		DefaultAuthenticator	
Manage users and groups		CrossDomainConnectors	CrossDomainConnectors ca domains.	in make inter-domain calls from foreig	n DefaultAuthenticator	
Create groups		Deployers	Deployers can view all reso	ource attributes and deploy application	s. DefaultAuthenticator	
Madify around		Monitors	Monitors can view and moo operations not restricted by	dify all resource attributes and perform y roles.	<sup>1</sup> DefaultAuthenticator	
Modify groups Delete groups		PROVIDENCE AND PROVIDE	OFSUL USER GROUP		OFSLLDBAuthenticator	
Modify groups Delete groups		OFSLL_USER	Concernance of the second second			
Modify groups Delete groups stem Status ealth of Running Servers as of 10:52 AM		OFSLL_USER Operators	Operators can view and me server lifecycle operations.	odify all resource attributes and perfor	m DefaultAuthenticator	
Modify groups Delete groups stem Status alth of Running Servers as of 10:52 AM Failed (0)		OFSLL_USER Operators OracleSystemGroup	Operators can view and mo server lifecycle operations. Oracle application software	odify all resource attributes and perfor e system group.	m DefaultAuthenticator DefaultAuthenticator	



## 3.6.3 Assigning Users to Groups

The USERS are automatically mapped to default application group - OFSLL\_USER.

Change Center	A name Log Out Preferences 22 in	and the last	Welcome, seblogic Connected to: OFSLL_domain
View changes and restarts	Name «Summary of Security Realing + Hype	are alterates adhibitative star	enary of Security Reality engineers a User and Brouge SSENDSURE scent and Drougs SDENOBURE
Cick the Lock & Edit button to modify, add in	Settings for DEHOSOPR		
Lack & Eat	General Patemords Groups		
Remains Climitgication	Sect.		
Domain Structure	Use this page to configure group member	enhip for this user.	
OFSJ, porten Bi Europreset I Sebiorente I Service I Service I Service Roberts Reates Roberts Roberts Roberts Roberts	Parent Groups: Available:	Dorme Dorme Orsk_User G	This same can be a member of ever of these parent groups. Here before
How do L. 🛛	Seve.		
• Deate users			
System Status R			
realth of Running Servers			
Failed (0)     Onew (0)     One (cabled (0)     Warring (0)     One (cabled (0)     Warring (0)     On (c)			

## 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	s 🚵 Record Help	Q	
View changes and restarts			Welcome, weblogic Connected to: OFSLLREL_do	main
Click the Lock & Edit button to modify, add or	Home >Summary of Security Rea	ms >myrealm >Users and Groups >DE	MOSUPR	
delete items in this domain.	Settings for DEMOSUPR			
Lock & Edit Release Configuration	General Passwords Gro	ips		
Domain Structure	Save			
OFSLLREL_domain      Domain Partitions      Denoment      Deployments	Use this page to change the p	assword for the selected user.		
Bervices Security Realms Bervices	* New Password:	•••••	The new password of this user. More Info	
te)-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)				
waining (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 &amp; Edit</i> button to modify, add or delete items in this domain.	Home >S Messages & Settin	ummary of Secur	ity Realms : cessfully.	myrealm >User	s and Groups >E	DEMOSUPR				
Release Configuration	Settings f	or DEMOSUPR	t							
Domain Structure	General	Passwords	Groups							
OFSLLREL_domain  Domain Partitions  Domain Partitions	Save									
Deployments     Services     Security Realms     Thteroperability	Use this * Indicate	a page to change s required fields	e the passv	ord for the sel	ected user.					
Diagnostics	* New P	assword:					'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)										
Warning (0)										~

## 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, w	eblogic Connected to: OFSLLREL_dor			
lick the Lock & Edit button to modify, add or	Home >Summary of Security Realms >myrealm							
elete items in this domain.	Settings for myrealm							
Release Configuration	Configuration Users and Grou	ps Roles and Policies	Credential Mapping	s Providers	Migration			
	General RDBMS Security Stor	e User Lockout Per	formance					
main Structure								
SLLREL_domain	Click the Lock & Edit button in t	he Change Center to mo	dify the settings on thi	s page.				
Environment	Save							
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 Auchoritation Contract for Containers as defined in JSR 115), you must use the DD Only security model. Other Webbogic Server models are not available and the security functions for Web applications and EJBs in the Administration Console are disabled.							
	Name:	myrealm		The name o	f this security realm. More Info			
ow do I 🖂	👸 Security Model Default:	DD Only	$\checkmark$	Specifies the applications realm. You deployment	e default security model for Web or E3Bs that are secured by this security can override this default during . More Info			
Configure new security realms	Combined Role Mannin	a Enabled		Determines	how the role mannings in the Enterprise			
Enable automatic realm restart Manage security for Web applications and EIBs Set the default security model Delegate MBean authorization to the realm		g Enableu		Application, interact. Thi and EJBs th that initializ descriptors,	Web application, and EIB containers is setting is valid only for Web application at use the Advanced security model and e roles from deployment More Info			
	🗌 ह Use Authorization Prov	iders to Protect JMX /	Access	Configures t	the WebLogic Server MBean servers to us realm's Authorization providers to			
ealth of Running Servers as of 11:09 AM				determine v access an M operation.	vhether a JMX client has permission to Bean attribute or invoke an MBean More Info			
Failed (0) Critical (0) Overloaded (0) Warning (0)	Automatically Restart Afte	Automatically Restart After Non-Dynamic Changes			nether the Realm will be auto-restarted if c changes are made to the realm or ithin the realm. More Info			
08(1)		1.9.9		Consiling the	a nation timony it for a nander 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	2				
/iew changes and restarts				Welcome, weblogic	onnected to: OFSLLREL_dom		
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 Perf	ormance				
main Structure	Save						
Scuret_somain Environment Deployments Services Services Security Realms Interoperability	Use this page to configure the ge Note: If you are implementing the DD Only security mo and EJBs in the Administ	eneral behavior of this ser security using JACC (Java del. Other WebLogic Sen ration Console are disabl	curity realm. a Authorization Contrac ver models are not avai ed.	t for Containers as define able and the security fun	d in JSR 115), you must use ctions for Web applications		
	Name: myrealm			The name of this security realm. More Info			
	8 Security Model Default:	DD Only	<b>\</b>	Specifies the default se applications or EJBs tha realm. You can override deployment. More Inf	curity model for Web it are secured by this security a this default during 0		
Configure new security realms Enable automatic realm restart Manage security for Web applications and	🗹 👘 Combined Role Mappin	g Enabled		Determines how the rol Application, Web applic interact. This setting is and EJBs that use the <i>A</i> that initialize roles from descriptors. More Info	le mappings in the Enterprise ation, and EIB containers valid only for Web applications kdvanced security model and deployment k		
Set the default security model Delegate MBean authorization to the realm	🗹 🔏 Use Authorization Prov	ders to Protect JMX A	ccess	Configures the WebLog the security realm's Aut determine whether a JP access an MBean attrib	ic Server MBean servers to use horization providers to 4X client has permission to ute or invoke an MBean		
ystem Status 🖂				operation. More Info	5		
Failed (0)	Automatically Restart After	Non-Dynamic Chang	es	Specifies whether the R non-dynamic changes a providers within the rea	lealm will be auto-restarted if are made to the realm or alm. More Info		
Overloaded (0)	Retire Timeout:	60		Specifies the retire time restarted. The old reals	out for a realm that is n will be shutdown 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	Velcome, w	eblogic Conne	ected to: OFSLLREL_do
lick the Lock & Edit button to modify, add or	Home >Summa	Home >Summary of Security Realms >myrealm >Realm Roles >Realm Policies					
elete items in this domain.	Settings for m	yrealm					
Release Configuration	Configuration	Users and Groups	Roles and Policies	Credential Mappings	Providers	Migration	
	Realm Roles	Realm Policies					
omain Structure							
- Interoperability - Diagnostics		<ul> <li>This cable does no policies, view the</li> <li>If you imported p</li> </ul>	Security tab for each JN policies for Web application	DI node or Work Contex ons or EJBs from deploy	kt object insta ment descript	ance. tors using the I	install Application
	Customize	<ul> <li>Assistant, you mu</li> <li>To view or modify realm's Authorizat</li> <li>this table</li> </ul>	ust activate changes to a γ JMX policies in the Adm tion providers.	ccess the policies. inistration Console, you	ı must first de	elegate MBean a	authorization to the
How do I 🛛	Customize	Assistant, you mu To view or modify realm's Authorizat this table	ust activate changes to a y JMX policies in the Adm tion providers.	ccess the policies. inistration Console, you	ı must first de	elegate MBean a	authorization to the
How do I E	Customize Policies	Assistant, you mu • To view or modify realm's Authorizat this table	ust activate changes to an y JMX policies in the Adm tion providers.	ccess the pownes.	ı must first de	elegate MBean : Showing 1 t	authorization to the
tow do I Manage security policies Access policies for JNDI resources Access policies for Work Context resources	Customize Policies Create Polic	Assistant, you mu To view or modify realm's Authorizat this table	ust activate changes to any y IMX policies in the Adm tion providers.	Resource Type	ı must first de	elegate MBean a	authorization to the to 9 of 9 Previous Nex Policy
tow do I Manage security policies Access policies for INDI resources Access policies for Work Context resources Delegate MBean authorization to the realm	Customize Policies Create Poli	Assistant, you mu To view or modify realm's Authorizat this table	st activate changes to a JMX policies in the Adm tion providers.	Resource Type	ı must first de	slegate MBean : Showing 1 t	authorization to the to 9 of 9 Previous Next Policy
Nanage security policies Access policies for JNDI resources Access policies for Work Context resources Delegate MBean authorization to the realm System Status	Customize Policies Create Poli Name  Cohere Cohere Deploy	Assistant: you mu To view or modify realm's Authorizat this table ence Clusters ments	st activate changes to a JMX policies in the Adm tion providers.	Resource Type	ı must first de	Showing 1 t	authorization to the to 9 of 9 Previous Nex Policy
Iow do I Manage security policies Access policies for JNDI resources Access policies for Work Context resources Delegate MBean authorization to the realm ystem Status lealth of Running Servers as of 11:24 AM	Create Polices Create Polic Name A Coheri Deploy Character	Assistant, you mu To view or modify realm's Authorizat this table	st activate changes to a JMX policies in the Adm tion providers.	Resource Type	ı must first de	Showing 1 t	authorization to the to 9 of 9 Previous Nex Policy
Iow do I  Manage security policies Access policies for JNDI resources Access policies for Work Context resources Delegate MBean authorization to the realm system Status seakth of Running Servers as of 11:24 AM Failed (0)	Customize Policies Create Poli  Name  Cohere Cohere Deploy Cohere Deploy Deplo	Assistant, you mu To view or modify realm's Authorizat this table	st activate changes to a JMX policies in the Adm tion providers.	Resource Type	ı must first de	Showing 1 t	o 9 of 9 Previous Nex Policy
ow do I Manage security policies Access policies for JNDI resources Access policies for Work Context resources Delegate MBean authorization to the realm ystem Status ealth of Running Servers as of 11:24 AM Failed (0) Critical (0) Condended (0)	Create Policies Create Policies Create Policies Cohere Cohere Cohere Deploy Cohere Coh	Assistant, you mu To view or modify realm's Authorization this table y ince Clusters mments n	st activate changes to a JMX policies in the Adm tion providers.	Resource Type	must first de	Showing 1 t	authorization to the to 9 of 9 Previous Next Policy
Iow do I, Manage security policies Access policies for NND1 resources Access policies for Work Context resources Delegate MBean authorization to the realm ystem Status Lealth of Running Servers as of 11:24 AM Failed (0) Critical (0) Overloaded (0) Warning (0)	Create Policies Create Polic  Create Polic  Create Polic  C Operative Control  C Operative C Operativ	Assistant, you modify realm's Authorization and the second	st activate changes to a JMX policies in the Adm tion providers.	Resource Type	must first de	showing 1 t	authorization to the to 9 of 9 Previous Nex Policy
How do I     Image security policies       • Manage security policies       • Access policies for INDI resources       • Delegate MBean authorization to the realm       Tystem Status       Health of Running Servers as of 11:24 AM       Failed (0)       Critical (0)       Overloaded (0)       Warning (0)       OK (1)	Create Policies Create Polic Create Policies C	Assistant, you modif realm's Authorizat this table	st activate changes to a JMX policies in che Adm tion providers.	Resource Type	n must first de	Showing 1 t	authorization to the to 9 of 9 Previous Nex Policy



7. Click on JMX Policy Editor to configure

CITACEC Intologic Server A						
Change Center	Home Log Out Preferences A Record Help     Welcome, weblogic Connected to: OFSLLREL_domai					
View changes and restarts	Home >Summary of Security Realms >myrealm >Realm Roles >Realm Policies >JMX Policy Editor					
Click the Lock & Edit button to modify, add or delete items in this domain.	JMX Policy Editor					
Lock & Edit	Back Next Create Policy Cancel					
Release Configuration	Select the Policy Scope					
Domain Structure OFSLLREL_domain Or Domain Partitions OF Environment	<ul> <li>To apply this policy to all instances of an MBean, select GLOBAL SCOPE.</li> <li>To apply this policy only to an MBean instance that is used to manage a specific deployment or resource, select the deployment or resource.</li> </ul>					
Deployments El-Services	Scope					
Security Realms	GLOBAL SCOPE     Beployments					
Diagnostics						
	⊞ JDBC System Resources					
	EI JMS System Resources					
	I WLDF System Resources					
How do I 🖂	Back Next Create Policy Cancel					
System Status						
Health of Running Servers as of 11:26 AM						
Failed (0) Critical (0) Overloaded (0)						
Warning (0)						
OK (1)						

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

	III weblogic.security.providers.audit	
	🗄 weblogic.security.providers.authentication	
0	ActiveDirectoryAuthenticatorMBean	
0	CustomDBMSAuthenticatorMBean	
0	DefaultAuthenticatorMBean	
0	DefaultIdentityAsserterMBean	
0	IPlanetAuthenticatorMBean	
0	LDAPAuthenticatorMBean	
0	LDAPX509IdentityAsserterMBean	
0	NegotiateIdentityAsserterMBean	
0	NovellAuthenticatorMBean	
0	OpenLDAPAuthenticatorMBean	
0	OracleIdentityCloudIntegratorMBean	
0	OracleInternetDirectoryAuthenticatorMBean	
0	OracleUnifiedDirectoryAuthenticatorMBean	
0	OracleVirtualDirectoryAuthenticatorMBean	
0	ReadOnlySQLAuthenticatorMBean	
۲	SQLAuthenticatorMBean	
0	VirtualUserAuthenticatorMBean	
	I weblogic.security.providers.authorization	
1	⊞ weblogic.security.providers.credentials	
	T weblogic.security.groviders.gk	
3	m webiogrusecurity.providers.sami	
, i	III weblogic.security.providers.xacml.authorization	

9. Select weblogic.security.providers.authentication.



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

Trebeogie Server Au		1			
Change Center	Home Log Out Preferences A Record Help	•   🕰			
View changes and restarts		Welcor	me, weblogic Connected to: OFSLLREL_domain		
Click the Lock & Edit button to modify, add or	Home >Summary of Security Realms >myrealm >Realm Roles >Realm Policies >JMX Policy Editor				
Jelete items in this domain.	JMX Policy Editor				
Release Configuration	Back Next Create Policy Cancel				
Jomain Structure	Select Read, Write, or Invoke Privileges				
IFSLIRE_domain #Domain Partitions Environment Deployments Security Realms Security Realms 	Specify read/write privileges for one or all MBear If you chose ALL MBEAN TYPES on the ; If you chose a specific MBean type on th policy to all attributes or operations. Selected Scope: Selected MBean Type: Attributes and Operations	attributes, or specify privileges for invo previous page, you must apply the policy he previous page, you can select a specif GLOBAL SCOPE SQLAuthenticator/MBean	king an MBean operation. to all attributes or all operations. ic attribute or operation or you can apply the		
	Attribute or Operation		Existing Policy		
low do I 🖂	C				
Create JMX policies	El Attributes: Permission to Write				
	E Encrypted Attributes: Permission to Read	1			
ystem status	<ul> <li>Encrypted Attributes: Permission to Writ</li> </ul>	e			
tealth of Running Servers as of 11:30 AM	<ul> <li>El Lookup Operations: Permission to Invok</li> </ul>				
Failed (0)	O 🖂 Operations: Permission to Invoke				
Overloaded (0)	addMemberToGroup				
Warning (0)	<ul> <li>advance</li> </ul>				
OK (1)	changeUserPassword				
	O close				
	C createGroup				
	C createUser				
	O netOurrentName				

- 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 120
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 >3MX Policy Editor >Edit JMX Policies
Click the Lock & Edit button to modify, add or delete items in this domain.	Edit JMX Policies
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 (P: 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 Save Save
How do I • Create JMX policies • Combine conditions	Policy Used By Default Role : Admin
System Status	
Health of Running Servers as of 11:31 AM           Failed (0)           Critical (0)           Overloaded (0)           Warning (0)           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	nces 💽 Record Help	Q	Welcome, weblogic	Connected to: OFSLLREL_domain
View changes and restarts	Home >Summary of Security	Realms >myrealm >Realm P	Roles >Realm Policies >3MX Poli	cy Editor >Edit JMX Policies	
Click the <i>Lock &amp; Edi</i> t button to modify, add or delete items in this domain. Lock & Edit Release Configuration	Edit JMX Policies Baok Next Finish Edit Arguments	Cancel			
Domain Structure	On this page you will fill in	the arguments that perta	ain to the predicate you have	chosen.	
OFSLIREL_domain (₱) Domain Partitions (₱) Environment  →Deployments (₱) Service (₱) Service (₱) Interoperability (₱) Diagnostics	Add one or more groups to groups. Group Argument Name: Back Next Finish	OFSLL Cancel	USER	n evaluates as true if the us	eer is a member of ANY of the
How do I					
Create JMX policies     Combine conditions					
System Status					
Health of Running Servers as of 11:33 AM					
Г Failed (0) Стотсаl (0) Очетовадед (0) Warning (0) ОК (1)					

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

Change Center       We Home Log Qut Preference @ Record Help       Welcome, weblogic       Connected to: OFSLU         View changes and restarts       Home Log Qut Preference @ Record Help       Welcome, weblogic       Connected to: OFSLU         Click the Lock & Edit       These Summary of Security Realms >myrealm >Realm Roles >Realm Policies >3MX Policies       Edit 3MX Policies         Lock & Edit       Welcome, weblogic       Connected to: OFSLU         Domain Structure       Save       Save         OFSLIREL_Gonain       Use this page to specify the conditions under which a user can access this JMX resource and the Authorization provider that stores a enforces the conditions.       Providers         Providers       These are the authorization providers an administrator can select from.       Authorization Providers:       Yeac/MLAuthorizer         Policy Conditions       These conditions determine the access control to your JMX resource.       Add Conditions       These conditions (Combine)         B' Diagnostics       Coroup : OFSL USER       Add Conditions       Kemove Negate       Veloce	EL_domain					
View changes and restarts       Home > Summary of Security Realms >myrealm >Realm Roles >Realm Policies >MX Policy Editor >Edit 3MX Policies         Click the Lock & Edit button to modify, add or determine the some of the domain o						
Click the Lock & Edit LINX Policies  Edit INX Policies Edit INX Policies  Edit INX Policies  Edit INX Policies  Edit INX Policies  Edit INX Policies  Edit INX Policies  Edit INX Policies  Edit INX Policies  Edit INX Policies  Edit INX Policies  Edit INX Policies Edit INX Policies Edit INX Policies  Edit INX Policies	-					
Lock & Edit  Release Configuration  Use this page to specify the conditions under which a user can access this JMX resource and the Authorization provider that stores a  OFSLUEL_Comain Partitions  Pologioyments P						
Release Configuration       Use this page to specify the conditions under which a user can access this JMX resource and the Authorization provider that stores a enforce at the conditions.         OPSULED_chamin       — Providers         The Bornin Partitions       — Providers         Description       — These archites is the authorization provider state state is a state at the authorization provider state state is a state at the authorization provider state state is a state at the authorization provider state state is a state at the authorization provider state state is a state at the authorization provider state state is a state at the authorization provider state state at the authorization provider state state is a state at the authorization provider state state state at the authorization provider state stat						
Domain Structure         Providers           © Domain Partitions         - Providers           © Domain Partitions         - These are the authorization providers an administrator can select from.           • Deployments         - Authorization Providers:           • Services         - Authorization Providers:           • Services         - Policy Conditions           • Intercoperability         - Policy Conditions           © Diagnostics         - These conditions determine the access control to your JMX resource.           Add Conditions         Compute 7 (USER)           Add Conditions         Combine	nd br					
OFSUERE_domain        — Providers © - Domain Darations © - Domain Darations © - Domain Darations © - Domain Darations ① - Dealoyments ① Sequests Security Raims @ - Dealoyments ① Sequests ① Sequests ① Sequests ① Sequests ① Sequests ① Sequests ① Sequests ① Sequests						
ter-Domain Partitions     These are the authorization providers an administrator can select from.       Image: Performent     Authorization Providers:       Image: Performent     Authorization Providers:       Image: Performent     Policy Conditions       Image: Performant Performance     Policy Conditions       Image: Performant Performance     Policy Conditions       Image: Performance     Policy Conditions       Image: Performance     Policy Conditions       Image: Performance     Image: Performance       Image: Performance     Image: Performance<						
Deployments     Authorization Providers:     XACMLAuthorizer       PSecurity Realms     - Policy Conditions       "Enteroperability     These conditions determine the access control to your JMX resource.       ED Diagnostics     Add Conditions       Consumer Combine     Move Up       Move Down     Remove       Negate     Add Conditions						
IP: Interoperability       — Policy Conditions         IP: Diagnostics       These conditions determine the access control to your JMX resource.         Add Conditions // Combine       (Incombine)       (Move Up)       (Move Down)       (Remove)       (Negate)         Group : OFSLL_USER       (Add Conditions)       Combine       (Incombine)       (Move Up)       (Move Down)       (Remove)       (Negate)						
These conditions determine the access control to your MX resource.     Add Conditions [Combine] Move Up] Move Down [Remove] Negate     Group: 0FSLLUSER     Add Conditions [Combine] Uncombine [Move Up] Move Down [Remove] Negate						
Add Conditions Combine Uncombine Move Up Move Down Remove Negate  Group : OFSLL_USER  Add Conditions Combine Uncombine Move Up Move Down Remove Negate	These conditions determine the access control to your JMX resource.					
Add Conditions Combine Uncombine Move Up Move Down Remove Negate						
Add Conditions Combine Uncombine Move Up Move Down Remove Negate						
Save						
How do I Overridden Policy						
Create JMX policies						
Combine conditions						
System status						
Health of Running Servers as of 11:41 AM						
Failed (0)						
Critical (0)						
Warding (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

	Home Log	Out Preferences Ar Rec	and Help	110	Welco	ne, weblogi	Connected to: OFSLLR	L dor
Change Center	Home >Summa	y of Security Realms >myrea	m >Providers	1 102			1	
Click the / ock & Edit button to modify, add or	Settings for my	realm						
delete items in this domain.	Configuration	Users and Groups Rol	es and Policies	Credential Mapping	s Providers	Migration		
Release Configuration	Authentication	Password Validation	Authorization	Adjudication F	ole Mapping	Auditing C	Credential Mapping	
	Certification Pa	th						
P: Environment     Deployments     Services     Services     Interoperability     Diagnostics	Customize t     Password Va	user in the realm. The Pas shed by the composition n his table lidation Providers	is automatically is sword Validation les, and the pas	nvoked by a support provider then perfor sword is accepted or	ed authenticato ms a check to rejected as ap	on provider wi determine whe propriate.	enever a password is crea	teo or the
	New Dela	te Reorder	ge Center to act	ivate all the buttons	on this page.	Sh	owing 1 to 1 of 1 Previou	Next
	New Dele	te Reorder	ge Center to act	Description	on this page.	Sh	owing 1 to 1 of 1 Previou	i   Next
How do I	New Dele	te Reorder	ge Center to act	Description Password composi	on this page. ion checks	Shr	wing 1 to 1 of 1 Previou Version 1.0	i   Next
tow do I	New Dele	te Reorder asswordValidator te Reorder	ge Center to act	Description	ion this page.	Shi	owing 1 to 1 of 1 Previou Version 1.0 swing 1 to 1 of 1 Previou	:   Next
How do I  Configure the Password Validation provider System Status	New Dele	te   Reorder   asswordValidator	ge Center to act	Description Password composi	ion this page.	Sh	wing 1 to 1 of 1 Previou Version 1.0 wing 1 to 1 of 1 Previou	:   Next
Iow do I Configure the Password Validation provider Vestem Status Elevation of 11:42 AM Configure the Configure as of 11:42 AM Configure the Configure th	New Dele	er zon Outen in the Char te] [Reorder] asswordValidator te] [Reorder]	ge Center to act	Description Password composi	ion checks	Shu	wing 1 to 1 of 1 Previou Version 1.0 wing 1 to 1 of 1 Previou	i   Next
Iow do I  Configure the Password Validation provider  ystem Status ealth of Running Servers as of 11:42 AM Pailed (0) Critical (0)	New Dele	Reorder     Reorder     Reorder	ge Uenter to act	Description Password composi	ion this page.	Sh	wing 1 to 1 of 1 Previou Version 1.0 wing 1 to 1 of 1 Previou	i   Next
tow do I  Configure the Password Validation provider  ystem Status Realth of Running Servers as of 11:42 AM Faile (0) Critical (0) Overloaded (0) Vertical (0)	New Dele	asswordValidator te   [Reorder] asswordValidator te   [Reorder]	ge Lenter to act	Description Password composi	ion checks	Sh	wing 1 to 1 of 1 Previou Version 1.0 wing 1 to 1 of 1 Previou	:   Next

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

ORACLE WebLogic Server Ad	iministration Console 12c		9				
Change Center	Home Log Out Prefer	rences 🐼 Record Help	Welcome, weblogic Connected to: OFSLLREL_domai				
View changes and restarts	Home >Summary of Securit	y Realms >myrealm >Providers >SystemPasswordVa	alidator				
Click the Lock & Edit button to modify, add or	Settings for SystemPasswordValidator						
delete items in this domain.	Configuration						
Release Configuration	Common Provider Spe	acific					
Domain Structure	This page displays basic	information about this System Password Validation	n provider.				
OFSLLREL_domain Domain Partitions B Environment Deployments	a Name:	SystemPasswordValidator	The name of this System Password Validation provider. More Info				
Security Realms     Interoperability	e Description:	Password composition checks	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 provider     Manage security providers							
System Status	ì						
Health of Running Servers as of 11:43 AM							
Failed (0) Critical (0) Overloaded (0) Warning (0)							

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 "true", 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			
ealth 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. More Info			
Warning (0)	- Character Policies					
OK (1)	Maximum Instances of Any Character:	2	Specifies the maximum number of times any one character may appear in the password. More Info			
	Maximum Consecutive Characters:	2	Specifies the maximum number of times that a character may appear consecutively in the password. More Info			
	Minimum Number of Alphabetic Characters:	2	Specifies the minimum number of alphabetic characters that a password must contain. More Info			
	Minimum Number of Numeric Characters:	0	Specifies the minimum number of numeric characters that must appear in the pessword. Kore Info			
	Minimum Number of Lower Case Characters:	0	Specifies the minimum number of lowercase characters that a pessword must contain. More Info			
	Minimum Number of Upper Case Characters;	1	Specifies the minimum number of uppercase characters that a password must contain. More Info			
	Minimum Number of Non-Alphanumeric Characters:	0	Specifies the minimum number of non-alphanumeric characters (also known as special characters, such as %, *, #, or }) that must appear in the password. More Info			
	Minimum Number of Non-Alphabetic Characters:	1	Specifies the minimum number of numeric or special characters (such as %, *, #, 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

hange Center	Home Log Out Preferences	Record Help		Q			
iew changes and restarts			1	Welcome, v	veblogic Co	onnected to: OFSLLREL_don	
lick the Lock & Edit button to modify, add or	Home >Summary of Security Realms	>myrealm					
elete items in this domain.	Settings for myrealm						
Release Configuration	Configuration Users and Grou	ps Roles and Polici	ies Credentia	Mappings	Providers	Migration	
	General RDBMS Security Store	User Lockout	Performance				
Somain Structure	Click the Look & Edit button in th	o Change Contac to c	modify the cotti	nos on this s			
Domain Partitions Environment	Save	le change center to r	nouny the sett	nga on ona p	aga.		
i Deployments 9 Services 9 Services 9 Interoperability 9 Diagnostics	Password guessing is a common type of security attack. In this type of attack, a hacker attempts to log in to a computer using various combinations of usernames and passwords. Weblogic Server provides a set of attributes to protect user accounts from intruders. This page allows us to define how user lockouts will be handled in this security realm.						
er Diagnosocs	🖉 🚝 Lockout Enabled	Specifies whether the server locks users out when there are invalid login attempts on their account. More Info					
	M GE LOCKOUL LIADICU			Specifi when accourt	ies whether t there are invi nt. More Inf	he server locks users out alid login attempts on their o	
	Cockout Threshold:	5		Specifi when accour The m login a	es whether t there are inv nt. More Inf aximum num attempts that	he server locks users out alid login attempts on their o ber of consecutive invalid can occur before a user's	
tow do I 🖂	Cockout Threshold:	5		Specifi when accour The m login a accour	ies whether t there are invi- nt. More Inf aximum num attempts that nt is locked o	he server locks users out alid login attempts on their o ber of consecutive invalid can occur before a user's ut. More Info	
How do I Set user lockout attributes	Cackout Threshold:	5		Specifi when accour The m login a accour The ni locked	ies whether t there are invo nt. More Inf aximum num attempts that nt is locked o umber of min out. More	he server locks users out aild login attempts on their o ber of consecutive invalid can occur before a user's ut. More Info utes that a user's account is info	
tow do I Set user lockout attributes Unlock user accounts Exystem Status	Cockout Threshold:	5 30 5		Specifi when accour login a accour The ni locked The ni invalid be loc	ies whether to there are invint. More Inf aximum num tittempts that the is locked o umber of min out. More umber of min login attemp ked out. Mo	he server locks users out aild login attempts on their o ber of consecutive invalid can occur before a user's ut. More Info utes that a user's account is info utes within which consecutive ts cause a user's account to re Info	
Iow do L Set user lockout attributes Unlock user accounts ystem Status tealth of Running Servers as of 11:50 AM	Cockout Threshold:	5		Specifi when accour login a accour The ni locked The ni invalid be loci	ies whether to there are invint. More Inf aximum num titempts that int is locked o umber of min login attemp ked out. Mo	he server locks users out aild login attempts on their o ber of consecutive invalid can occur before a user's ut. More Info utes that a user's account is Info utes within which consecutive ts cause a user's account to re Info	
Iow do I  Set user lockout attributes Unlock user accounts system Status fealth of Running Servers as of 11:50 AM failed (0) Critical (0)	Cockout Threshold:  Cockout Duration:  Cockout Reset Duration:  Cockout Cache Size:	5 30 5 5		Specifi when accourt login a accourt The n locked The n invalid be loci	ies whether to there are invint. More Inf aximum num thempts that not is locked oo umber of min login attemp aximum num se server can	he server locks users out alid login attempts on their owners and the server as the server an occur before a user's act. More Info utes that a user's account is info utes within which consecutive to cause a user's account to re Info ber of invalid login records place in a cache. More	

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)

SIGN IN ORACI FUSIO	TO <b>LE ENTERPRISE MANAGER</b> N MIDDLEWARE CONTROL 12c
Domain * User Name * Password	Domain_OFSLLREL_domain weblogic  Login to Partition Sign in
	ORACLE

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

OFSLLREL_domain 0					🎦 🕶 🕶 🕶	Auto Refresh	Off	~
👫 WebLogic Domain 👻					Edit Session	ns	M IST	r t
Information Certain functionality on this page is Servers	available only when you own the edit sess	ion lock. T	o obtain the lo	ck, click "Lock and Edit" in t	Lock & Edit View Chang View & Res	e List olve Conflicts	63	6
<u>З ир</u>	Name AdminServe Host ofsil.in.orac	Release Co Activate Chi Undo All Ch						
	Listen Port 9001				View Restar	rt 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	
	WS_ManagedServer	+			Running		OK	
Domain Partitions								



3. The following window is displayed.

Conterpris	e mai	rager rusion middleware Control 120						
OFSLLREL_domain 0							Auto Refresh Off	
🔛 WebLogic Domain 👻						16-Se	p-2017 12:27:37 IST	1
Confirmation The edit session lock has been	acquir	ed. No pending changes exist.						
Servers		Administration Server						
3 up	۲	Name AdminServe Host ofsillin.orac	er le.com					
Clusters		Servers						
0	Þ	View 👻 🎽 Create 🛛 💥 Delete	Contro	v Eÿ				
Clusters		Name	Status	Cluster	Machine	State	Health	1000
		AdminServer(admin)	+			Running	ок	
Deployments		OFSLL_ManagedServer	1			Running	ок	
		WS_ManagedServer	+			Running	OK	
Domain Partitions Domain Partitions	×							
0		4						
Resource Group remplates								

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

	Mana	ager Fusi	on Middleware C	Control 12c				illi v	VebLogic Domain 👻	weblogic *
OFSLLREL_domain 0									🔒 🕶 🔛 💌 Auto	Refresh Off
In weblogic Domain 👻									Sep 16, 2017	12:15:46 PM 151 1
Confirmation The edit session look has been	acquire	ad. No pen	ding changes e	xist.						
Servers	D	)eployme	ents							
	Þ.	View +	Show All	Deployment + Override	*	Control	Ŧ			
3 Up			Name	1 Deploy	N	Status	State	Health	Туре	Domain Pa
			opss-rest	🖹 Redeploy	13	+	Active	OK	Web Application	
Justers 0 Clusters	÷									
Deployments	×									
Deployments 1 up Domain Partitions	•									
Deployments 1 up Domain Partitions Domain Partitions	•									
Deployments 1 up Domain Partitions Domain Partitions 0	•									



5. Click 'Choose File' button and select OFSLL application archive file i.e. ofsll\_149.ear. Choose the 'Deployment Plan' (if any).

šLLREL_domain 🕕				
Select Archive Select Target Application Attributes Deployment Settings				
aploy Java EE Application: Select Archive	B	lack Step 1 d	of 4 Next	Cance
cope elect a scope that you want to deploy this application to Global ▼ rchive or Exploded Directory wa EE archives. Web Modules. (NAR files). EJB Modules (EJB JAR files), Resource Adapter Modules (RAR files). Coherence Archives (GA 30C Modules, JMS Modules, and library files (Jar files) can be deployed. You can also deploy an exploded archive that is present on the ser here Enterprise Manager is running. Archive Choose File_ofsl_140.ear Archive or exploded directory is on the server where Enterprise Manager is running.	R files). wer	✓ Inform Use this pag applications Metadata Se take advanta Application D Framework ( If your applic composite or MDS reposite connections	ation e to deploy . that require rvices (MDS ge of the Or levelopment Oracle ADF; ation is a S( se the SOA wizard. ation is not it does not ory or ADF	Java EE Oracle Jor that acle DA Compos a SOA require a n deolov
Вгои	vse	your applicat or the Oracle Administratio	ion using the WebLogic n Console.	s wizard Server
Epicyment Pran he deployment plan is a file that contains the deployment settings for an application. You can use a previously saved deployment plan for this plication. Later in the deployment process, you can optionally edit the deployment plan and save it for a future deployment of this applicatio su do not have a deployment plan, one will be created automatically during the deployment process when deployment configuration is done. See Create a new deployment plan when deployment onfiguration is done.	s n. lf The			
Deployment plan is on the machine where this Web browser is running.     Choose File No file chosen				
Deployment plan is on the machine where this Web browser is running.     Choose File No file chosen     Deployment plan is on the server where Enterprise Manager is running.				

### 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><?xml version='1.0' encoding='UTF-8'2></pre>
<pre><deployment-plan false"="" xmlns="http://xmlns.oracle.com/weblogic/deployment-plan" xmlns:xsi="http://www.w3.org/2001/XMLSch&lt;/pre&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;application-name&gt;ofsllrel&lt;/application-name&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;variable-definition&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;variable&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;name&gt;Web_ofsllrel_contextRoot&lt;/name&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;value&gt;ofsllrel&lt;/value&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/variable&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/variable-definition&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;module-override&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;module-name&gt;ofsllrel.ear&lt;/module-name&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;module-type&gt;ear&lt;/module-type&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;module-descriptor external="></deployment-plan></pre>
<root-element>weblogic-application</root-element>
<pre><uri>META-INF/weblogic-application.xml</uri></pre>
<module-descriptor external="false"></module-descriptor>
<root-element>application</root-element>
<uri>META-INF/application.xml</uri>
<variable-assignment></variable-assignment>
<name>Web_ofsllrel_contextRoot</name>
<pre><xpath>/application/module/web/[context-root="ofsllrel"]/context-root</xpath></pre>
<operation>replace</operation>
<module-descriptor external="true"></module-descriptor>
<root-element>wldf-resource</root-element>
<pre><uri>META-INF/weblogic-diagnostics.xml</uri></pre>
<module-override></module-override>
<module-name>ofsllrel.war</module-name>
<module-type>war</module-type>
<module-descriptor external="false"></module-descriptor>
<root-element>weblogic-web-app</root-element>
<uri>WEB-INF/weblogic.xml</uri>
<module-descriptor external="false"></module-descriptor>
<root-element>web-app</root-element>
<uri>WEB-INF/web.xml</uri>
<module-override></module-override>
<module-name>empty.jar</module-name>
<module-type>car</module-type>
<module-descriptor external="true"></module-descriptor>
<root-element>weblogic-application-client</root-element>
<ur><li><uri>META-INF/weblogic-application-client.xml</uri></li></ur>
<module-descriptor external="false"></module-descriptor>
<root-element>application-client</root-element>
<url>META-INF/application-client.xml</url>

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

RAC	Enterprise Manager Fusion	Middleware Control 120	weblogic +
SLLREL	_domain 🕕		
Select Ar	rchive Select Target Appli	cation Attributes Deployment Settings	
eploy .	Java EE Application: Select	Target	Back Step 2 of 4 Next Cance
Select th	e WebLogie server or cluster that you wa	nt this application to be deployed to:	
Select	Name	Туре	Deployed Applications
	AdminServer	Oracle WebLogic Server	00
	OFSLL_ManagedServer	Oracle WebLogic Server	
	WS_ManagedServer	Oracle WebLogic Server	00



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

FSLLREL_domain 🕚								
0	0							
Select Archive	Select Target	Application Attributes	Deployment Settings					
Deploy Java EE Ap	plication: Ap	plication Attrib	utes	Back	Step 3 of 4	Next	Deploy	Cance
Hide Deployment Summa	iry							
Archive T	ype Java EE App	lication (EAR file)						
Deployment F	Plan Create a new	v plan						
Deployment Ta	rget OFSLL_Man	agedServer						
Sc	ope Global							
Deployment T	ype Application							
* Application	Name ofsil149							
Archive Ve	ersion V14.9.0.0.0	D-b106						
Deployment Plan Ve	ersion							
Context Root of Web Mod	dules							
Web Module	Context Ro	oot						
ofsli148.war	ofsll149							
4								+
arget Metadata Reposito	ory							

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

ORACLE'	nterprise Manager Fusion M	iddleware Control 12c			
OFSLLREL_domain					
Select Archive	Select Target Ap	plication Deployment Settings			
	Metadata Repositories		×		
Deploy Java EE	Select the metadata repository th	at the application will be deployed to.		xt Deploy	Cancel
Deploymer	Repository Repository Details	mds-adf 🔻			-
Deploym	Name	mds-adf			
	Туре	Database			
* Applica	Scope	Global			
Archi	Data Source	mds-adf			
Deployment Pla	JNDI Location	jdbc/mds/adf			
	Database Type	Oracle			
Context Root of Web	Database Name	OLL122			
Web Module ofsil148.war	Database User	OLL_MDS			
4	JDBC URL	jdbc:oracle:thin:@mum00bzp.in.oracle.com:1521/OLL122		-	
Target Metadata Repo					
Select the metadata repos			OK Cancel		
* Repository Nam	e mds-adf 🥖				
Repository Typ	e Database				
* Partitio	n				
					-



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

ORACL	E' En	terprise Manager	r Fusion Middleware Co	ntrol 1	12c									weblogic	w	
OFSLLREL_do	main 🕕															
0-		0														
Select Archiv	e	Select Target	Application Attributes		Depk	oyment S	Settings									
Deploy Jav	va EE A	pplication: Ap	pplication Attrib	oute	s						Back	Step 3 of	Next	Deploy	Can	ncel
Target Metada	ata Repos	itory														
Select the metad	ata reposito	ry and specify the par	rtition in the repository th	at the	e appli	cation wi	ill be deplo	yed to.								
* Reposi	tory Name	mds-adf 🧪														
Renos	sitory Type	Database														
hepos	inory type															
	* Partition	ofsll149														
Distribution																
		<ul> <li>Install</li> </ul>	l and start application (se	rvicing	g all re	equests)										
		Install	l and start application in a	admini	istratio	on mode	(servicing	only admi	inistration	request <mark>s</mark> )						1
		Install	I only. Do not start.													
A Other Opt	ions															
	<ul> <li>Use ti</li> </ul>	e defaults defined by	y the deployment's target:	s. Rec	comm	ended se	election.									
Application Source Accessibility	🕒 Сору	this application onto e	every target. During deplo	oymer	nt, the	files will	l be copied	automati	cally to the	e managed	servers t	o which the	application	n is targeted		
	Ø Make	the application access	ssible from the source loc	ation t	that it	will be d	deployed o	n. You mu	st ensure	that each ta	arget can	reach the lo	cation.			
Deployment	Use ti	ne same accessibility :	as the application.													
Plan Source Accessibility	🔘 Сору	the deployment plan o	onto every target. During	deplo	oymer	nt, the file	es will be c	opied auto	omatically	to the man	aged sen	vers to which	the appl	cation is targ	geted.	
	Make	the deployment plan a	accessible from the sour	ce loc	ation	that it wi	ill be deplo	yed on. Yo	ou must er	nsure that e	ach targe	t can reach	the locati	on.		

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

SLLREL_domain 🕕								
Select Archive Select	O Applica	ion Attributes Deployment Se	ttings					
eploy Java EE Applic	ation: Deploym	ent Settings		Back	Step 4 of 4	Next	Deploy	Cance
Hide Deployment Summary								2
Archive Type	Java EE Application (E	(R file)						
Deployment Plan	Create a new plan							
Deployment Target	OFSLL_ManagedServe	r						
Scope	Global							
Deployment Type	Application							
Application Name	ofsll149							
Version	V14.9.0.0.0-b106							
Context Root	ofsli149							
Deployment Mode	Install and start applica	ion (servicing all requests)						
Deployment Tasks								
The table below lists common task	s that you may wish to d	before deploying the application.						
Name	Go To Task	Description						
Configure Web Modules	/	Configure the Web modules in g	your application.					
Configure Application Security	/	Configure application policy mig	gration, credential migration and oth	er security be	havior.			





🛃 Dep	oloyment Suc	ceeded	
Deploym	ent of Applicat or undo the cha	ion "ofsII149" is completed. The deployment changes are pending activation. Exit the wizard and use the Change Center to anges.	
Summa	ary		
	Scope	Global	
ic	Version	V14.9.0.0.0-b108	
Dep	loyed Archive Location	/scratch/app/fmw12c/user_projects/domains/OFSLLREL_domain/sysman/upload/deploy/ofsl1149_V14.9.0.0.0-b108/archive/ofsl1_149.ear	
	Archive Type	Java EE Application (EAR file)	
Dep	loyment Mode	Install and start application (servicing all requests)	
Depl	oyment Target	OFSLL_ManagedServer	
App	lication States	Unavailable (OFSLL_ManagedServer)	
	Context Root	ofsil149	
🔺 Hide	Progress Mes	sages	
(Ap (Ap (Ap (Ap (Ap (Ap (Ap (Ap (Ap (Ap	orii 28, 2020 11:2 orii 28, 2020 11:2 ii149_V14.9.0.0 orii 28, 2020 11:2 orii 28, 2020 11:2 orii 28, 2020 11:2 orii 28, 2020 11:2 k processing will sei 28, 3020 11:2	<ul> <li>44.40 PM IST Initiating deploy operation</li></ul>	*
			Close
			01032

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_Mana	gedServer							
Lock & Edit	Configurati	ion Protoco	s Logging	Debug	Monitoring	Control	Deploymen	ts Services	Security	Notes
Release Configuration	General	Cluster Ser	vices Key	stores SS	L Federatio	n Services	Deployme	nt Migration	Tuning	Overload
Domain Structure	Concurrency	y Health Mo	nitoring S	erver Start	Web Servic	es Cohe	rence			
DFSLLREL_domain	Save									
Deployments     Services     Security Realms     Theroperability	Use this pa View JNDI	ige to configur Tree 🕼	e general fea	tures of this	s server such a	as default n	etwork comm	unications.		
Diagnostics	Name:		OFS	LL_Manager	dServer		An al Info.	phanumeric na	me for this	server instance, More
	Template:		(No	value specif	fied) Change	I	The t Info.	emplate used t	to configure	this server. More
How do I 🗉	街 Machin	e:	(No	ne)			The which	VebLogic Serve 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	18	(Sta	nd-Alone)			The ownice	duster, or grou In this server be	p of WebLo longs, Mo	gic Server instances, to re Info
Configure clusters     Start and stop servers     Configure WLDF diagnostic volume	륝 Listen /	Address:						P address or D coming connec 1.5.67 ormyma	NS name th tions. For e chine, respe	is server uses to listen xample, enter ctively, More Info
Apply a server template	🗹 Listen P	Port Enabled					Spec the d Info.	ifies whether th efault plain-tex	iis server ca tt (non-SSL)	n be reached through listen port. More
Health of Running Servers as of 1:22 PM Failed (0)	Listen Port	1	90	03			The o regul Info.	default TCP por ar (non-SSL) in 	t that this s coming con	erver uses to listen for nections, More
Overloaded (0) Warning (0)	SSL List	ten Port Enal	led				Indic the d	ates whether the fault SSL liste	he server ca n port, Mo	n be reached through re Info
ОК (3)	SSL Listen	Port:	95	03			The	TCP/IP port at ection requests	which this s , More Inf	erver listens for SSL
	🗆 륝 Clie	nt Cert Proxy	Enabled				Spec	fies whether th certificate in a	e HttpClust special hea	erServlet proxies the ider, 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.

- 0	FSLLREL_domain 0					2 -	- <b>*</b>	Auto Refresh	Off	1.03
-	WebLogic Domain 👻						02-	May-2018 08:44	25 EDT	*
Info	Home									1
Cert	Monitoring	+ e	n you own the edit session lock. To	obtain the lock	, click "Lock and Edi	t" in the Chan	ge Center	menu.		
Serve	Diagnostics	*	n Server							
	Control	ъ								
	Logs		Name AdminServer							
	Environment	Þ	Security Realms							
-	Deployments		Security Administration							
Clust	JDBC Data Sources		Web Service Security							
	Messaging		Application Policies	* E¥						
	Cross Component Wiring	-	Application Roles							
	Web Services	•	System Policies	Suster	machine	State			nealth	<b>1</b> 00
10 20	Other Services	ъ	Security Provider Configuration			Runni	ng		OK	
Deplo	Administration		Audit Registration and Policy			Runni	ng		OK	
	Defects Mark and Description	-	Credentials	-		Runni	ng		OK	
	Refresh WebLogic Domain		Credentials							
	Security	*	Keystore							
	JNDI Browser									
Doma	System MBean Browser									
8	WebLogic Server Administration Console									
	Target Sitemap									
20	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:

ORACLE En	terprise Man	ager Fusion Middleware C	ontrol 12c		🔀 WebLogic Domain 👻	weblogic *	
OFSLLREL_dom	nain O in +				Apr 26, 20	20 11:39:45 PM 15	ť
Domain_OFSLLREL_domain	OFSLLREL_don	nain > Application Roles					
Application Roles							
opplication roles are the roles	used by security	aware applications that are	specific to th	e application. These roles are seeded b	y applications in single global policy store	when the applicat	tions
Policy Store Provider	approximiteres			ers accessing the approximit.			
, i onoj otore i torider							
A Search		learning of the the sele series t		alas defined by this provinction			
Application stripe an	o enter a search	0.0.0 b108	o search tor t	oles defined by this application.			
Application surpe	015111484014.8	0.0.0-0100					
Role Name	Starts With V		•				
View - 🎽 Create	Create L	.ike 🦯 Edit 🗙	Delete			🖙 🗌 🔛 Deta	ich
1							
Role Name		Display Name		Description			
No application roles found.							
4							•



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

ORACLE En	terprise Man	ager Fusion Mic	Idleware Control 12		👫 WebLogic Domain 🔻	weblogic *	
OFSLLREL_dom	nain O				Apr 26, 20	20 11:39:45 PM IS	- U
Domain_OFSLLREL_domain	OFSLLREL_dom	nain > Application	Roles				
Application Roles							
Application roles are the roles are registered. These are also	used by security application roles	aware application that are created	ns that are specific t in the context of end	o the application. These roles are seeded users accessing the application.	d by applications in single global policy store	when the applica	itions
Policy Store Provider							
Search							
Select an application stripe an	d enter a search	keyword for the r	ole name to search	for roles defined by this application.			
Application Stripe	ofsli149#V14.9.	0.0.0-6106	*				
				_			
Role Name	Starts With V						
View 👻 🎽 Create	Treate L	ike 🧪 Edit	t 🗙 Delete			😽 🕅 Deta	ich
1							
Role Name		Display Name	2	Description			
OFSLL_USER		OFSLL USER					
Membership for O	FSLL_USER	ł					
2010 2	Display Name	2 Ty	pe	Description			
Principal							

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

Sierce	LE.	Enterprise Manager Fusion Middleware Contr	ol 12c	KebLogic Domain 👻 🛛 weblogic 👻	
	LREL_d	omain 0 omain 👻		Apr 26, 2020 11:44:46 PM IS	10
omain_OFSLLF	REL_don	ain/OFSLLREL_domain > Application Roles > Edit A	pplication Role		
dit Applic	ation	Role : OFSLL_USER		ок са	ancel
ole (or Enterpris	se Role) i	s the group of users designed at the enterprise level	and typically used to assign a privilege or permission. A	role can also contain other roles as members.	
eneral					
Applicatio Strip	on ofsil	149#V14.9.0.0.0-b106			
Role Nam	ne OFS	LL_USER			
Display Nam	ne OFS	LL USER			
Descriptio	on				
			1		
lembers					
lembers n application rok	le may ne	ed to be mapped to users or groups defined in enter	prise LDAP server, or the role can be mapped to other	application roles.	
lembers n application role View 👻 🕇	e may ne	ed to be mapped to users or groups defined in enter Delete 🕱 Detach	//	application roles.	
lembers n application rok View + +	e may ne Add	ed to be mapped to users or groups defined in enter Delete	// prise LDAP server, or the role can be mapped to other Display Name	application roles.	

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 permi	ssions to.		
Jan Bearon					
	Type Gro	up 🖌			
	Principal Name Sta	rts With 🗸			
	Display Name Star	ts With	•		
Searched Principals					
View 👻 🔤 Detach					
Principal	Display Name	Description			
No search conducted					
Advanced Option     Check to enter principal	name here instead of searc	hing from above. This option	1 can be used for advanced scen	arios related to custom authenticators.	

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

	*										
Sp	pecify criteria to search and se	lect the application	roles that you	want to gra	ant permissions	to.					1
1	a search										
		Туре	Group	~							
		Deinering L Name	C								
		Principal Name	Starts With	~							
		Display Name	Starts With	-		•					
	arched Principals		-	_							
36	earched Frincipais										
100	View 👻 🔚 Detach										
	Principal	Display Name		Descripti	ion						
	AdminChannelUsers			AdminCha	annelUsers can a	access the ad	lmin channel.				
	Administrators			Administra	ators can view a	nd modify all r	resource attribute	s and start and stop	servers.		
	AppTesters			AppTester	rs group.						
	CrossDomainConnectors			CrossDom	nainConnectors	can make inte	er-domain calls fro	om foreign domains.			
	Deployers			Deployers	s can view all res	ource attribut	es and deploy ap	plications.			
	Monitors			Monitors c	can view and mo	dify all resour	rce attributes and	perform operations	not restricted I	by roles.	
	Operators			Operators	s can view and m	odify all resou	urce attributes an	d perform server life	cycle operatio	Ins.	
	OracleSystemGroup			Oracle app	plication softwar	e system grou	up.				
-	Advanced Option										
1	Check to enter principal pa	me here instead of	searching fro	mabe Ent	ter 256 or fewe	characters	inced scenarios	related to custom a	authenticators		
				~~							1
Т	ype Group Principa	Name OFSLL_U	JSER	×							



### 10. Click 'OK'.

OFSLLREL_domain Arr 26, 2020 11:4446 PM IST   Domain_OFSLLREL_domain/OFSLLREL_domain > Application Roles > Edit Application Role   Edit Application Role : OFSLL_USER   Role (or Enterprise Role) is the group of users designed at the enterprise level and typically used to assign a privilege or permission. A role can also contain other roles as members.   General   Application   Application   OFSLL USER   Display Name   OFSLL USER   Description   Members   An application role may need to be mapped to users or groups defined in enterprise LDAP server, or the role can be mapped to other application roles.   View   View   And   Description   Name   DEMOSUPR   OFSLL_USER	ORACL	Enterprise Manager Fusion Middleware Control 12c	Ϋ́.	WebLogic Domain 🔻	weblogic	* ***
Domain_OFSLLREL_domain/OFSLLREL_domain > Application Roles > Edit Application Role       OK       Cancel         Edit Application Role : OFSLL_USER       OK       Cancel         Role (or Enterprise Role) is the group of users designed at the enterprise level and typically used to assign a privilege or permission. A role can also contain other roles as members.       General         Application Stripe       ofsil140#V14.9.0.0.0-b100       Free Privilege       Free Prive       Free Privilege		EEL_domain 0 ogic Domain +		Apr 26, <mark>2</mark> 020	0 11:44:46 P	M IST 🕥
Cancel     Role (or Enterprise Role) is the group of users designed at the enterprise level and typically used to assign a privilege or permission. A role can also contain other roles as members.     Application   Stripe   ofsli149#V14.9.0.0.0-b108   Role Name   OFSLL_USER      Description   Description      View + Add   Name   DEMOSURR   DEMOSURR   DEMOSURR   OFSLL_USER        Display Name   OFSLL_USER	/Domain_OFSLLRE	L_domain/OFSLLREL_domain > Application Roles > Edit Application Role				
Role (or Enterprise Role) is the group of users designed at the enterprise level and typically used to assign a privilege or permission. A role can also contain other roles as members.   Application ofsli140#V14.0.0.0-b108   Role Name   OFSLL_USER   Display Name   OFSLL_USER   Description   Application role may need to be mapped to users or groups defined in enterprise LDAP server, or the role can be mapped to other application roles.   View ▼   ▲ Add   X Delete   Mame   DEMOSURR   USER   DEMOSURR   OFSLL_USER   Display Name   Group	Edit Applica	tion Role : OFSLL USER			OK	Cancel
General       Application Stripe       ofsll1494V14.0.0.0-b106         Role Name       OFSLL_USER         Display Name       OFSLL USER         Description	Role (or Enterprise	Role) is the group of users designed at the enterprise level and typically us	ed to assign a privilege or permission. A role can a	lso contain other roles as	members.	
Application ofsil149#V14.9.0.0.0-b108   Role Name OFSLL_USER   Display Name OFSLL USER   Description Image: Construction of the may need to be mapped to users or groups defined in enterprise LDAP server, or the role can be mapped to other application roles.   View * + Add * Delete Image: Construction of the mapped to users or groups defined in enterprise LDAP server, or the role can be mapped to other application roles.   View * + Add * Delete Image: Construction of the mapped to other application roles.   Display Name Display Name   DEMOSURR User   OFSLL_USER Group	General					
Role Name OFSLL_USER   Display Name OFSLL USER   Description Image: Construction of the mapped to users or groups defined in enterprise LDAP server, or the role can be mapped to other application roles.   Wembers     An application role may need to be mapped to users or groups defined in enterprise LDAP server, or the role can be mapped to other application roles.   View * + Add   Detec Image: Construction roles   Display Name Type   DEMOSURR User   OFSLL_USER Group	Application Stripe	ofsil149#V14.9.0.0.0-b106				
Display Name OFSLL USER   Description Image: Constraint of the mapped to users or groups defined in enterprise LDAP server, or the role can be mapped to other application roles.   View + Add Delete Image: Constraint of the mapped to users or groups defined in enterprise LDAP server, or the role can be mapped to other application roles.   View + Add Delete Image: Constraint of the mapped to users or groups defined in enterprise LDAP server, or the role can be mapped to other application roles.   View + Add Delete Image: Constraint of the mapped to users or groups defined in enterprise LDAP server, or the role can be mapped to other application roles.   View + Add Delete Image: Constraint of the mapped to users or groups defined in enterprise LDAP server, or the role can be mapped to other application roles.   View + Add Delete Image: Constraint of the mapped to users or groups defined in enterprise LDAP server, or the role can be mapped to other application roles.   View + Add Delete Image: Constraint of the mapped to users or groups defined in enterprise LDAP server, or the role can be mapped to other application roles.   View + Add Delete Image: Constraint of the mapped to users or groups defined in enterprise LDAP server, or the role can be mapped to other application roles.   View + Add Delete Image: Constraint of the mapped to users or groups defined in enterprise LDAP server, or the role can be mapped to other application roles.   View + Add Delete Image: Constraint of the mapped to users or groups defined in enterprise LDAP server, or the role can be mapped to users or groups defined in enterprise LDAP server, or the role can be mapped to users or groups defined in enterprise LDAP server, or th	Role Name	OFSLL_USER				
Description       ////////////////////////////////////	Display Name	OFSLL USER				
An application role may need to be mapped to users or groups defined in enterprise LDAP server, or the role can be mapped to other application roles.          View       Add       Delete       Display Name       Type         DEMOSUPR       User       User       Group	Description					
An application role may need to be mapped to users or groups defined in enterprise LDAP server, or the role can be mapped to other application roles.           Name         Display Name         Type           DEMOSUPR         User         User         Group         Group	Members					
View         Add         Delete         Display Name         Type           Name         Display Name         User         User           DEMOSUPR         OFSLL_USER         Group	An application role r	nay need to be mapped to users or groups defined in enterprise LDAP serv	ver, or the role can be mapped to other application	roles.		
Name         Display Name         Type           DEMOSUPR         User         User           OFSLL_USER         Group         Group	View + +	Add 💢 Delete 🙀 Detach				
DEMOSUPR User OFSLL_USER Group	Name		Display Name	Туре		
OFSLL_USER Group	DEMOSUPR			User		
	OFSLL_USER			Group		

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

ORACLE	Enterprise Man	ager Fusion Middleware	Control 12c	🌃 WebLogic Domain 🔻 🛛 weblogi	c *	
OFSLLREL	_domain 0 Domain 👻			Apr 26, 2020 11:49:36	PM IST 4	ť
1 Information						2
An application ro	le OFSLL_USER has I	peen updated.				
Domain_OFSLLREL_d	lomain/OFSLLREL_don	nain > Application Roles				
Application Ro	les					
pplication roles are the	e roles used by security	aware applications that a	re specific to the	e application. These roles are seeded by applications in single global policy store when the a	pplication	ns
h put ou put	re also application roles	i mat are created in the co	INEXLOI END DS	es accessing the application.		
P Policy Store Provi	ider					
Search						
elect an application str	ripe and enter a search	keyword for the role nam	e to search for r	oles defined by this application.		
Application S	Stripe ofs#149#V14.9	0.0.0-b106 🔻				
Role N	Name Starts With 🔻		•			
View 👻 🎽 Crea	ite 🖹 Create L	ike 🖊 Edit 🕽	C Delete	<b>EF</b> (50)	Detach	
1						
Role Name		Display Name		Description		
OFSLL_USER		OFSLL USER				
Membership 1	for OFSLL_USEF	2				
	Display Name	e Type	D	escription		
Principal						
Principal DEMOSUPR		User				



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

Image: Second		OFSLLREL_domain ()					🎦 🕶 🖂 🕶 🗛	uto Refresh Off
Home       Home       Image: Server       Diagnostics       Image: Server       Security       Name       Administration         Logs       Image: Security       Security Realms       Security R	-	🖕 WebLogic Domain 👻					Sep 16, 1	2017 1:36:47 PM IST
Server       Diagnostics       on Server         Control       Logs       Name         Logs       Security Realms         Deployments       Security Administration         UBBC Data Sources       Application Policies         Messaging       Application Roles         Veb Services       System Policies         Other Services       Security Provider Configuration         Administration       Audit Registration and Policy         Refresh WebLogic Domain       Credentials         Security       Keystore         JNDI Browser       System MBean Browser         System MBean Browser       System MBean Browser         WebLogic Server Administration Console       Target Sitemap         Turoet Information       Turoet Information	linfc Cert	Home	, e	n you own the edit session lock. To	obtain the loc	ck, click "Lock and Ed	it" in the Change Center me	enu.
Environment       Security Realms         Deployments       Security Administration         JDBC Data Sources       Application Policies         Cross Component Wring       Application Roles         Web Services       System Policies         Other Services       Security Provider Configuration         Administration       Audit Registration and Policy         Refresh WebLogic Domain       Credentials         Security       Keystore	Serve	Diagnostics Control Logs	* D	n Server Name AdminServer				
Messaging       Application Policies         Cross Component Wiring       Application Roles         Web Services       System Policies         Other Services       Security Provider Configuration         Administration       Audit Registration and Policy         Refresh WebLogic Domain       Credentials         Security       Keystore         JNDI Browser       System MEean Browser         System MEean Browser       System Administration Console         Target Sitemap       Target Sitemap	Clust	Environment Deployments JDBC Data Sources	•	Security Realms Security Administration Web Service Security				
Cross Component Wring     Application Roles       Web Services     System Policies       Other Services     Security Provider Configuration       Administration     Audit Registration and Policy       Refresh WebLogic Domain     Credentials       Security     Keystore		Messaging	*	Application Policies	Ey			
Other Services     Security Provider Configuration     Running     OK       Administration     Audit Registration and Policy     Running     OK       Refresh WebLogic Domain     Credentials     Running     OK       Security     Keystore     Image: Configuration and Policy     Running     OK       JNDI Browser     System MBean Browser     System Administration Console     Image: Configuration and Policy     Image: Configuration and Policy       Target Sitemap     Travel Information     Travel Information     Image: Configuration and Policy     Image: Configuration and Policy		Cross Component Wiring Web Services	*	System Policies	uster	Machine	State	Health
Administration     Audit Registration and Policy     Running     OK       Refresh WebLogic Domain     Credentials     Running     OK       Security     Keystore     Keystore     Keystore	Deplo	Other Services	•	Security Provider Configuration			Running	ок
Refresh WebLogic Domain     Unebentals     Unebentals       Security     Keystore       JNDI Browser       System MBean Browser       Ør WebLogic Server Administration Console       Target Sitemap       Tuned Information	Copie	Administration	•	Audit Registration and Policy	-		Running	OK
Doma JNDI Browser System MBean Browser WebLogic Server Administration Console Target Sitemap		Refresh WebLogic Domain Security		Keystore			Kunning	UK.
Target Sitemap	Doma	JNDI Browser System MBean Browser & WebLogic Server Administration Console			_			
raiget montation	100	Target Sitemap Target Information						

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

OFSLIEE_domain      OfSLIEE_domain      Credentials     Credentials     Academia a for Sulf EE_domain      Credentials     Credentials     Academia factor is the repository of security data that certifies the authority of entities used by Java SE. Java EE, and ADF applications. Applications car     b Credential Store Provider to store and manage their credentials security.     Credential Store Provider	Sep 16, 2017 1:38:22 PM IST
IDomain_OFSLLREL_domain/OFSLLREL_domain > Credentials Credentials A codential ators is the repository of security data that certifies the authority of entities used by Java SE, Java EE, and ADF applications. Applications car onsolidated service provider to store and manage their credentials security. Credential Store Provider	use the Credential Store is single
Credentials A condential store is the repository of excurity data that certifies the authority of entities used by Java SE, Java EE, and ADF applications. Applications car consolidated service provider to store and manage their credentials security.	use the Credential Store, a single
A credential store is the repository of security data that certifies the authority of entities used by Java SE, Java EE, and ADF applications. Applications car consolidated service provider to store and manage their oredentials securely. F Credential Store Provider	use the Credential Store, a single
consolicated service provider b Credential Store Provider	and the break of the string of
Credential Key	
View + - Create Map Create Key / Edit. X Delete Name P Int.	Detach
Credential 1/5 Type Description	
No credentials found.	



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.

OFSLLREL_domain O	e Manager Fusion Mid	Sleware Control 12c	en resubgic Domain * webiogic *	
and webbagic bomain 4			Sep 10, 2017 2128128 PM 13	a C
Iomain_OFSLLREL_domain/OFSLLF	(EL_domain > Gredentiais			
recentials	eourity data that certifies th	e authority of entities used by Java SF, Java FF, a	end ADF applications. Applications can use the Credential Store, a sign	6
onsolidated service provider to s	eate Key		×	
View	Select Map	ofsil.http.listener.jndi 🗸		
Conduction	* Key			
ofsil http listener in	Туре	Password V		
	* 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

ACK WEDEODIC Domain V				rep 10, 2017 2120:20 PM (5)
<ol> <li>Information The credential map, ofsli.http.</li> </ol>	listener.jndi, has been cre	ated.		E
Nomain_OFSLLREL_domain/OF Cr	reate Key		×	
credential store is the repositor	Select Map	ofsll. http. listener. jndi		e Credential Store, a single,
Credential Store Provider	* Key	jndiname		
View + 🕂 Create Map	Туре	Generic 🔽	5	1
Credential	Description			
ofsill.http.listener.jr				
		Enter as text. O Enter map of property name and value pairs		
	* Credential	java:comp/env/jdbc/ofslIDBConnDS		
			_	
			OK Cancel	

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

	ger Fusion Middleware Control 12c				SP: Me	ebLogic Domain 👻	weblogic *	2
OF5LLREL_domain ()						Sep 16,	2017 2:28:28 PM	IST 4
Information								l
The credential key, jndiname, has been	created.							
main_OFSLLREL_domain/OFSLLREL_dom	ain > Credentials							
edential store is the repository of security da solidated service provider to store and mana Credential Store Provider	ta that certifies the authority of entities us ge their credentials securely.	sed by Java SE, Java I	EE, and ADF ap	pplications. App	plication	is can use the Crede	ential Store, a si	ngle,
riew 👻 🕂 Create Map 🕂 Create K	ey 📝 Edit 💥 Delete	Credential Key Name	y e		•	🔝 Detach		
Credential		Туре	Des	cription	<b>1</b> ()			
ofsll.http.listener.jndi								


# 9. Configure AQ-JMS Bridge

The following steps are to be performed to configure the AQ-JMS Bridge through the Weblogic Console:

- Create Data Sources for AQ-JMS Bridge
- Configure MDB Flow
- AQ-JMS Topic Setup
- JMS 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. OfsllAppQueue.ear deployment) on the same server on which the other WebServices are deployed.

# 9.1 Create Data Sources for AQ-JMS Bridge

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

ORACLE WebLogic Server Administration Co	onsole 12c
120	Welcome           Log in to work with the WebLogic Server domain           Username:           Password:           Login



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

Change Center	1 Home Log Out Preferences	Record Help	Q
View changes and restarts		Welco	me, weblogic Connected to: OFSLLREL_domain
lick the Lock & Edit button to modify, add or	Home		
elete items in this domain.	Home Page		
Release Configuration	- Information and Resources		
	Helpful Tools	General Information	
omain Structure	Configure applications	Common Administration Task De	escriptions
FSLLREL_domain I-Domain Partitions I-Environment -Deployments	Configure GridLink for RAC Data Source     Configure a Dynamic Cluster	<ul> <li>Read the documentation</li> <li>Ask a question on My Oracle Support</li> </ul>	pport
Ð-Services I−Security Realms Ð-Interoperability Ð-Diagnostics	Set your console preferences     Oracle Enterprise Manager		
	- Domain Configurations		
	Domain	Resource Group Templates	Interoperability
	Domain	Resource Group Templates	WTC Servers     Jolt Connection Pools
	Domain Partitions	Resource Groups	
ow 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	<ul> <li>Server Templates</li> </ul>	Messaging	Archives
	<ul> <li>Migratable Targets</li> </ul>	<ul> <li>JMS Servers</li> </ul>	Context
ystem Status	Coherence Clusters	<ul> <li>Store-and-Forward Agents</li> </ul>	• SNMP
ealth of Running Servers as of 11:23 AM	Machines	<ul> <li>IMS Modules</li> </ul>	Interceptors
Failed (0)	Virtual Hosts	Path Services	relation and manufactures
Critical (0)	Virtual Targets	Bridges	Charts and Graphs

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

ange Center	10 Home	Log Out Preference	s 🚵 Re	cord Help	<u>A</u>	
w changes and restarts				v	Velcome, weblogic Connected to: OFSLLRE	L_dor
k the Lock & Edit button to modify, add or	Home >Su	mmary of JDBC Dat	a Sources			
lete items in this domain.	Summary o	of JDBC Data Sour	ces			
Release Configuration	Configura	tion Monitoring				
main Structure	A JDBC d	lata source is an obje	ect bound	to the JNDI tree that provides	database connectivity through a pool of JDBC	
LLREL_domain	source.	ons, Applications can	look up a	data source on the JNDI tree a	and then borrow a database connection from a c	lata
-Domain Partitions -Environment -Deployments	This page	e summarizes the JD	BC data si	ource objects that have been cr	reated in this domain.	
Dervices Messaging Data Sources	Customi	ize this table	c.l.	and Failed		
Persistent Stores     Data Sources (Filtered - More Columns Exist)						
-Foreign INDI Browiders	Chala she					
Foreign JNDI Providers Work Contexts	Click the J	Lock & Edit button	in the Cha	inge Center to activate all the b	outtons on this page.	
Foreign JNDI Providers Work Contexts XML Registries	Click the A	Lock & Edit button	in the Cha	ange Center to activate all the b	nuttons on this page. Showing 1 to 9 of 9 Previous	Next
- Foreign JNDI Providers - Work Contexts - XML Registries - XML Entity Caches - JCOM - Mail Gestions	Click the A	Lock & Edit button	in the Cha Type	JNDI Name	uttons on this page. Showing 1 to 9 of 9 Previous Targets	Next
- Foreign JNDI Providers Work Contexts XML Registries XML Entity Caches JCOM	Click the J	Lock & Edit button Delete me  JMS-DB	in the Cha Type Generic	JNDI Name jdbc/aqjmsdb	uttons on this page. Showing 1 to 9 of 9 Previous Targets OFSLL_ManagedServer	Next
Work Contexts     Work Contexts     Work Contexts     With Entity Caches     JCOM     Mail Setsions     w do L	Click the J	Lock & Edit button Delete me  JMS-DB c/dbk105nlEJBDS	in the Cha Type Generic Generic	JNDI Name jdbc/aqjmsdb jdbc/ddjnsdb	uttons on this page. Showing 1 to 9 of 9 Previous Targets OFSLL_ManagedServer W5_ManagedServer	Next
- Foreign JNDI Providers Work Contexts Will, Registries Will, Entity Caches JCOM Mail Sessions w do I  Create DDBC generic data sources Create DDBC generic data sources	Click the A New ~	Lock & Edit button Delete me  JMS-DB c/dbk105nlEJBDS alSvcTblDataSource	in the Cha Type Generic Generic Generic	JNDI Name jdbc/aqjmsdb jdbc/bk105nlEJBDS jdbc/localSvCTblDataSource	Showing 1 to 9 of 9 Previous Targets OFSLL_ManagedServer WS_ManagedServer AdminServer	Next
Foreign JNDI Providers     Work Contexts     With Contexts     Mult Entity Caches     JCOM     Mail Sessions     w do L  Crease JDBC generic data sources     Crease JDBC GridLink data sources     Crease JDBC with data sources	Click the A New - AQ- jdbc Loci	Lock & Edit button Delete me  JMS-DB c/dbk105nlEJBDS alSvcTblDataSource s-adf	Type Generic Generic Generic Generic	JNDI Name jdbc/aqjmsdb jdbc/dsl05nlEJBD5 jdbc/UscalSvcTblDataSource jdbc/mds/adf	Showing 1 to 9 of 9 Previous Targets OFSLL_ManagedServer AdminServer OFSLL_ManagedServer	Next
Foreign JNDI Providers     Work Contexts     With Contexts     Mult Entity Caches     JCOM     Mail Sessions     w do L  Create JDBC generic data sources Create JDBC GridLink data sources Create JDBC multi data sources Create UCP data sources	Click the J	Lock & Edit button Delete me  JMS-DB c/dbk105nlEJBDS alSvcTblDataSource s-adf GLL	Type Generic Generic Generic Generic Generic	JNDI Name jdbc/adjmsdb jdbc/dbk105nIEJBD5 jdbc/LocalSvcTbIDataSource jdbc/ds/adf jdbc/dbB0BconnD5	Showing 1 to 9 of 9 Previous Targets OFSLL_ManagedServer AdminServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer	Next
Foreign JNDI Providers     Work Contexts     With Contexts     Context DBC GridLink data sources     Create DBC multi data sources     Create DBC multi data sources     Create DBC multi data sources     Create DPC m	Click the J	Lock & Edit button	Type Generic Generic Generic Generic Generic Generic	JNDI Name jdbc/aqjmsdb jdbc/dglmsdb jdbc/dblx105nlEJBDS jdbc/ucalSvcTblDataSource jdbc/ofslIDBConnDS jdbc/AuditAppendDataSource	Showing 1 to 9 of 9 Previous Targets OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer	Next
Foreign 3NDE Providers     Work Contexts     Wark Contexts     Wark Contexts     Wark Contexts     Wark Contexts     Wark Contexts     Wark Contexts     Const DBC generic data sources     Create DBC GridLink data sources     Create DBC GridLink data sources     Create DBC multi data sources     Create DBC multi data sources     Create DPCX data sources     Create DPCX data sources     Create DPCX data sources	Click the J New	Look & Edit button Delete MS-DB JMS	Type Generic Generic Generic Generic Generic Generic Generic	JNDI Name Jdbc/aqjmsdb Jdbc/aqjmsdb Jdbc/dk105nlEJBDS Jdbc/localSvcTblDataSource Jdbc/ofslIDBConnDS Jdbc/AuditAppendDataSource Jdbc/AuditViewDataSource	Showing 1 to 9 of 9 Previous Targets OFSLL_ManagedServer MS_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer MS_ManagedServer	Next
Horeign JNDE Providers     Work Contexts     Work Context     Work Contexts     Work Contexts	Click the J New • J J J J J J J J J J J J J J J J J J J	Lock & Edit button Delete me & Jussee Jusse	Type Generic Generic Generic Generic Generic Generic Generic Generic	JNDI Name jdbc/aqimsdb jdbc/aqimsdb jdbc/dbk105nIEJBDS jdbc/cosl5vcTblDataSource jdbc/ofslDBConnDS jdbc/AuditAppendDataSource jdbc/AuditViewDataSource jdbc/OpssDataSource	Showing 1 to 9 of 9 Previous Targets OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer, WS_ManagedServer, WS_ManagedServer, AdminServer, OFSLL_ManagedServer, WS_ManagedServer	Next



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

Change Center		Hor Hor	me Log Ou	t Preference	s 🚵 Re	cord Help	<u>Q</u>
View changes and restarts						1	Welcome, weblogic Connected to: OFSLLREL_dom
No pending changes exist. Click the Releas	e	Home	>Summary	of JDBC Dat	a Sources	5	
Configuration button to allow others to edit domain.	t the	Summary of JDBC Data Sources					
Lock & Edit		Config	uration	Monitoring			
Release Configuration							
Jomain Structure		A JDE	BC data sou actions. App	rce is an obje plications can	look up a	to the JNDI tree that provides data source on the JNDI tree a	database connectivity through a pool of JDBC and then borrow a database connection from a data
FSLLREL domain		sourc	e.				
Domain Partitions	^	This	page summ	arizes the JD	BC data s	ource objects that have been c	reated in this domain.
Environment							
Deployments		h Curt	omizo this	table			
Messaging		P Cusc	onnze uns	Lable			
-Data Sources		Data	Sources (I	Filtered - Mo	ore Colu	mns Exist)	
Persistent Stores		New	V Delet	te			Showing 1 to 9 of 9 Previous   Next
		Gen	eric Data S	ource			-
-XML Registries		Grid	Link Data S	ours	Type	JNDI Name	largets
XML Entity Caches	1	Made	ti Data Cau		Generic	jdbc/aqjmsdb	OFSLL_ManagedServer
Mail Sessions			u Data Sour	Le IS	Generic	jdbc/dbk105nlEJBDS	WS_ManagedServer
low do I	B	Pro	ky Data Sou	urce	Generic	idbc/LocalSvcTblDataSource	AdminServer
	-		Data Soun	ce	Generic	jdbc/mds/adf	AdminServer, OFSLL_ManagedServer
Create JDBC generic data sources			OFSLL		Generic	jdbc/ofsllDBConnDS	AdminServer, OFSLL_ManagedServer
Create JDBC multi data sources			opss-audit-	DBDS	Generic	jdbc/AuditAppendDataSource	AdminServer, OFSLL_ManagedServer, WS_ManagedServer
Create Proxy data sources			opss-audit-	viewDS	Generic	jdbc/AuditViewDataSource	AdminServer, OFSLL_ManagedServer, WS_ManagedServer
ystem Status			opss-data-s	ource	Generic	jdbc/OpssDataSource	AdminServer, OFSLL_ManagedServer, WS_ManagedServer
Health of Running Servers as of 7:58 PM			WLSSchem	aDataSource	Generic	jdbc/WLSSchemaDataSource	
Failed (0) Critical (0)		New	·∼ Delet	te			Showing 1 to 9 of 9 Previous   Next

### 5. The following window is displayed.

ORACLE WebLogic Server Ad	ministration Console 12c
Change Center	🚷 Home Log Out Preferences 🐼 Record Help
View changes and restarts	Home >Summary of Services >Summary of JDBC Data Sources
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration	Create a New JDBC Data Source           Back         Next         Finish         Cancel           JDBC Data Source Properties         The following properties will be used to identify your new JDBC data source.
Domain Structure	* Indicates required fields
OFSLIRE_domain B <sup>-</sup> Domain Partitions B <sup>-</sup> Environment 	What would you like to name your new JDBC data source?         Image: AQ-JMS-DB         What scope do you want to create your data source in ?         Scope: Global          What JNDI name would you like to assign to your new JDBC Data Source?         Image: Im
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 2:45 PM	Database Type: Organia
Failed (0)           Critical (0)           Overloaded (0)           Warning (0)           OK (3)	Back Next Finish Cancel

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



### 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	
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.	
(9)-Disemant PartSons (9)-Environment  Ospidoyments (9)-Services (9)-Services (9)-Interoperability (3)-Diagnostics	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)	
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)		
Critical (0)		
Overloaded (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	B Home Log Out Preferences	Record Help	
View changes and restarts		Welcome, weblogic Connected to: OFSLLREL_d	domain
No pending changes exist. Click the Release Configuration button to allow others to edit the	Home >Summary of JDBC Data	Sources	
domain,	Create a New JDBC Data Source	2	
Lock & Edit	Back Next Finish Ca	ncel	
Release Configuration	Connection Properties		
Jomain Structure	Define Connection Properties.		
DFSLLREL_domain  Domain Partitions	What is the name of the databas	e 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:	ofsil.oraice.com	
XML Registries	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	
Surtan Statur	What is the database account pa	ssword to use to create database connections?	
Health of Running Servers as of 8:07 PM	Password:	•••••	
Failed (0)	Confirm Password:	*	
Overloaded (0)	Additional Connection Properties		
OK (3)		190 Million (	

11. Enter the Database details.



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

Change Center		館 Home Log Out Pre	iferences 🕍 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		Tost Configuration	Bask Neve Cinich Canaal
Release Configuration		Test configuration	
		Test Database Con	nection
Domain Structure		Test the database ava	ilability and the connection properties you provided.
OFSLLREL_domain	~	What is the full packag	e name of JDBC driver class used to create database connections in the connection pool?
Environment		(Note that this driver r	lass must be in the classnath of any server to which it is deployed.)
Deployments		Contraction and the second second second	
Messaging		Driver Class Name:	araala idha Oraala Drivar
Data Sources			
Foreign JNDI Providers		What is the URL of the	database to connect to? The format of the URL varies by JDBC driver.
Work Contexts		101.	
XML Registries		UKL:	jdbc:oracle:thin:@//ofsil.oralce.com:1521/OLLDB
-jCOM	~	What database accoun	t user name do vou want to use to create database connections?
Mail Sessions			
How do I	•	Database User Name:	OFSLLREL
Create JDBC generic data sources			
Create LLR-enabled JDBC data sources		What is the database a	ccount password to use to create database connections?
	_	(Note: for secure pass)	word management, enter the password in the Password field instead of the Properties field below)
System Status	•		
Health of Running Servers as of 8:07 PM		Password:	••••••
Failed (0)			
Critical (0)		Confirm Password:	•••••
Overloaded (0)			THE FEED R
OK (3)		What are the propertie	s to pass to the JUBC driver when creating 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	ministration Console 12c	9
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 JDBC Data Sources	
No pending changes with Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration	Create a New JDBC Data Source Back Next Finish Cancel Select Targets You can select oner more targets to deploy your new JDBC data source. If not deployed. You will need to deploy the data source at a later time.	you don't select a target, the data source will be created but
OFSLLREL_domain	Comunan	
Domain Partitions     Environment     Deployments	AdminServer	
Security Realms	OFSLL_ManagedServer	
E Diagnostics	WS_ManagedServer	
How do I	Back Next Finah Cancel	
County 10000 annuals data annuals		
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 AQ\_JMS\_DB 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. Click Advanced button and update the 'Inactive Connection Timeout' to 300 seconds.
- 4. Click 'Save' and restart the Data source.

Similarly create 'QueueAppDS' data sources which is used by MDB for all database related operations by following the steps mentioned in above section (Create Data Sources for AQ-JMS Bridge).

- Create data source name as QueueAppDS
- Update the JNDI as jdbc/QueueAppDS

Do not perform the JDBC data source update and instead follow the below steps to configure the created 'QueueAppDS' data source:

- To Enable GRI (Generic Recovery Interface) CLOB logging from MDB to DB, click Advanced button and deselect the 'Wrap Data Types' check box.
- Set the 'Inactive Connection Timeout' to 300 seconds.

# 9.2 Configure MDB Flow

To configure the MDB Flow from Weblogic Console, do the following:

- 1. Login to Oracle Weblogic 12c console (http://hostname:port/console).
- 2. On the left pane, click 'Services'.
- 3. In Messaging tree click 'JMS Modules'. The following window is displayed.

WebLogic Server Ad	ministration Console 120
Change Center	Home Log Out Preferences A Record Help     Welcome, weblogic Connected to: OFSLLREL_dom
View changes and restarts	Home >Summary of Services >Summary of JDBC Data Sources >Summary of Services >Summary of JMS Modules
Click the Lock & Edit button to modify, add or delete items in this domain.	Summary of JMS Modules
Look & Edit Release Configuration	JMS system resources are configured and stored as modules similar to standard Java EE modules. Such resources include queues, topics, connection factories, templates, destination keys, quota, distributed queues, distributed topics, foreign servers, and JMS store-and-forward (SAF) parameters. You can administratively configure and manage JMS system modules as global system resources.
Domain Structure	This page summarizes the JMS system modules that have been created for this domain.
OFSLREL_domain & Domain Partitions & Environment Deployments Services & Services	<ul> <li>Customize this table</li> <li>JMS Modules (Filtered - More Columns Exist)</li> <li>Click the Lock &amp; Edit button in the Change Center to activate all the buttons on this page.</li> </ul>
JMS Servers Store-and-Forward Agents JMS Modules Path Services	New         Delete         Showing 0 to 0 of 0         Previous         Next           Name          Type         Typ
🕀 - Bridges	There are no items to display
Data Sources     Persistent Stores     Foreign INDI Providers	New Delete Showing 0 to 0 of 0 Previous Next
How do I 🖂	
Configure JMS system modules     Configure resources for JMS system modules	
System Status	
Health of Running Servers as of 3:03 PM	
Failed (0)           Critical (0)           Overloaded (0)           Warning (0)           Ok (3)	



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

Change Center	Home Log Out Pref	Ferences 🕢 Record Help 🛛 🔍 Welcome, weblogic Connected to: OFSLLREL dom
View channes and exclusion	Home >Summary of Servi	ces >Summary of JDBC Data Sources >Summary of Services >Summary of JMS Modules
view changes and restarts		
No pending changes exist. Click the Release Configuration button to allow others to edit th domain.	Back Next Finish	dule
Lock & Edit		
Release Configuration	The following prope	rties will be used to identify your new module.
Domain Structure	JMS system resources a	are configured and stored as modules similar to standard Java EE modules. Such resources include queues, topics,
DESLIBEL domain	(SAF) parameters. You	can administratively configure and manage JMS system modules as global system resources.
Domain Partitions     Environment     Deployments	* Indicates required field	s
Services     Messaging	What would you like to r	name your System Module?
Store-and-Forward Agents	* Name:	AQJMSModule
Path Services	Would you like this new	JMS System Module to be restricted to a specific resource group template or resource group ?
Data Sources Persistent Stores	Scope:	Global
How do L	What would you like to r	name the descriptor file name? If you do not provide a name, a default will be assigned.
Configure JMS system modules	Descriptor File Name:	AQJMSModule
Configure JMS servers	Where would like to place	ce the descriptor for this System Module, relative to the jms configuration sub-directory of your domain?
System Status	E Location In Domain:	
Health of Running Servers as of 3:07 PM		
Failed (0) Critical (0)	Back Next Finish	h Cancel
Overloaded (0) Warning (0)		

5. Specify the following details:

- Name: AQJMSModule
- Descriptor File Name: AQJMSModule
- 6. Click 'Next'. The following window is displayed.

and the second of the second second second second	A Home Los Col Berlinsson D Based Hole
Change Center	Welcome, weblogic Connected to: UFSLLKEL_doma
View changes and restarts	Home >Summary of Services >Summary of JDBC Data Sources >Summary of Services >Summary of JMS Modules
No pending changes exist. Olick the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration	Create JMS System Module           Back         Finish         Cancel           The following properties will be used to target your new JMS system module.
Domain Structure	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.
OF5LLREL_domain	Targets :
-Messaging	Servers
Store-and-Forward Agents	
Bridges     Data Sources     Persistent Stores     Sources	WS_ManagedServer
How do I E	Back Next Finish Cancel
Configure JMS system modules     Configure JMS servers	
System Status	
Health of Running Servers as of 3:08 PM	
Failed (0) Critical (0) Overloaded (0)	
Warning (0) OK (3)	

7. Select target servers as 'OFSLL\_ManagedServer'.



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



9. Click 'Finish' to activate the changes. The following window is displayed.

Change Center		Home Log Out Preferences 💽 Record Help		a	Welcome, weblogic	Connected to:	OFSLLRE	L_doma
View changes and restarts Click the Lock & Editbutton to modify, add delete items in this domain.	or M	Home >Summary of Services >Summary of JDBC Data 5 essages All changes have been activated. No restarts an	ources >Summary of Ser	vices >S	ummary of JMS Modules			
Look & Edit Release Configuration	s	ummary of JMS Modules						
Domain Structure OFSLLEL_domain (#) Domain Partitions (#) Environment Deployments Softmans Massaging	~	JNE system resources are configured and stored a connector factories, templases, destination lays, (SAF) parameters. You can administratively config This page summarizes the JNS system modules th o Customize this table JNES Modules (Filtered - More Columns Exist) Click the <i>Lock &amp; Edit</i> button in the Change Center New? Delete Name @	s modules similar to st juota, distributed que- ure and manage 3MS st at have been created f to activate all the butt Type	andard 3 les, distri ystem m or this do	ava EE modules. Such ress blouted topics, foreign servic odules as global system re ormain. his page.	surces include q ars, and JMS sto sources.	Previous	ics, ward Next
How do I		New Delete	JMSSystem	Resourc	e Show	ing 1 to 1 of 1	Previous	Next
<ul> <li>Configure JMS system modules</li> <li>Configure resources for JMS system mod</li> </ul>	ules							
System Status								
Health of Running Servers as of 3:10 PM								
Failed (0)           Critical (0)           Overloaded (0)           Warning (0)								

10. Click on the JMS Module that you created. The following window is displayed.

		ter Home Log Out Prefer						
View changes and restarts					Welcome, web	logic Connected to: OFSLLREL_doma		
Click the <i>Lock &amp; Edit</i> button to modify, add	or	Home >Summary of Service	s >Summary of	IDBC Data Sources >Summary of	f Services >Summary of JMS M	odules >AQJMSModule		
delete items in this domain.		Settings for AQJMSModu	ngs for AQJMSModule					
Lock & Edit Release Configuration		Configuration Subdep	loyments Ta	argets Security Notes				
Domain Structure DFSLLREL_domain Domain Partitions	~	This page displays gener access existing resource	al information s	about a JMS system module a	nd its resources. It also allov	vs you to configure new resources and		
Environment Deployments		Name:	4	AQJM5Module	The name of t	nis JMS system module. More Info		
Services     Messaging     JMS Servers     Store-and-Forward Agents		Scope:	(	Global	Specifies if the within the dom template. Mo	JMS system module is accessible lain, a partition, or a resource group re Info		
		Descriptor File Name:	t	ms/AQJMSModule-jms.xml	The name of the Info	he JMS module descriptor file. More		
Data Sources								
Persistent Stores Foreion INDI Providers	~	This page summarizes th connection factories, JM forward parameters.	e JMS resource 5 templates, de	es that have been created for t stination sort keys, destination	this JMS system module, ind n quota, distributed destinati	luding queue and topic destinations, ons, foreign servers, and store-and-		
Persistent Stores Foreign INDI Providers Now do I	-	This page summarizes th connection factories, JM: forward parameters.	ie JMS resource 5 templates, de	as that have been created for 1 stination sort keys, destination	this JMS system module, inc n quota, distributed destinati	luding queue and topic destinations, ions, foreign servers, and store-and-		
	-	This page summarizes the connection factories, JMC forward parameters.	e JMS resource 5 templates, de	as that have been created for t stination sort keys, destination	this JMS system module, inc n quota, distributed destinati	luding queue and topic destinations, ons, foreign servers, and store-and-		
Persistent Stores Enterion INDI Providers Now do I Configure quotas for destinations Configure JMS templates	-	This page summarizes the connection factories, JM forward parameters.	e JMS resource 5 templates, de 5	as that have been created for t stination sort keys, destination	this JMS system module, inc n quota, distributed destinati	luding queue and topic destinations, ons, foreign servers, and store-and-		
Parsistent Stores     Foreion INDI Providers     foreion INDI Providers     ford of L.,     configure quotas for destinations     configure guotas for destination     configure distination keys     configure optics		This page summarizes to connection factories, JM forward parameters. Customize this table Summary of Resource Click the Lock & Edit bu	e JMS resource 5 templates, de 5 tton in the Cha	es that have been created for i stination sort keys, destination nge Center to activate all the l	this JMS system module, inc quota, distributed destinati buttons on this page.	uding queue and topic destinations, ons, foreign servers, and store-and-		
Parsistent Stores     Foreion INDI Providers     forw do I     Configure JMS templates     Configure destination keys     Configure topics     Configure topics     Configure topics     Configure topics		This page summarizes th connection factories, MM forward parameters. Customize this table Summary of Resource Click the Lock & Edit bu New Delete	e JMS resource 5 templates, de 5 tton in the Cha	as that have been created for stination sort keys, destination nge Center to activate all the l	this JMS system module, inc quota, distributed destinati buttons on this page.	Uding queue and topic destinations, ons, foreign servers, and store-and- showing 0 to 0 of 0 Previous   Next		
Persistent Stores     Enseinn INDI Providers     ford of L.,     Configure quotas for destinations     Configure JMS templates     Configure destination keys     Configure topics     Configure queues     Configure queues     Configure connection factories     Configure connection factories		This page summarizes th connection factories, JM forward parameters.	e JMS resource 5 templates, de 5 tton in the Cha	as that have been created for stination sort keys, destination nort keys, destination nge Center to activate all the JNDI Name	this JMS system module, inc quota, distributed destinat buttons on this page. Subdeployment	Uding queue and topic destinations, ons, foreign servers, and store-and- showing 0 to 0 of 0 Previous Next Targets		
Parsistent Stores     Foreinn INDE Providers     Foreinn INDE Providers     Configure JMS templates     Configure JMS templates     Configure topics     Configure uses     Configure uses     Configure uses     Configure uniform distributed topics     Configure uniform distributed topics		This page summarizes th connection factories, JM forward parameters.	s Type	as that have been created for stination sort keys, destination nge Center to activate all the JNDI Name	this IMS system module, inc. n quota, distributed destinati buttons on this page. Subdeployment ms to disolay	Loting queue and topic destinations, ons, foreign servers, and store-and- Showing 0 to 0 of 0 Previous   Next Targets		
Persistent Stores     Persistent Stores     Configure autos for destinations     Configure JMS templates     Configure JMS templates     Configure destination keys     Configure contection factories     Configure contection factories     Configure contection factories     Configure uniform distributed topics     Configure uniform distributed topics     Configure uniform distributed topics     Configure JMS SAF		This page summarizes th connection factories, MA forward parameters.	e JMS resource 5 templates, de 5 tton in the Cha Type	as that have been created for stination sort keys, destination nge Center to activate all the I JNDI Name There are no ite	this IMS system module, inc n quota, distributed destinati buttons on this page. Subdeployment ms to display	Loding queue and topic destinations.       ons, foreign servers, and store-and-       Showing 0 to 0 of 0       Previous   Next       Targets       Showing 0 to 0 of 0       Previous   Next		
Persistent Stores     Persistent Stores     Persistent Stores     Configure JMS templates     Configure JMS templates     Configure destination keys     Configure topics     Configure usues     Configure usues     Configure uniform distributed topics     Configure foreign servers     Configure JMS SAF      Yystem Status		This page summarizes th connection factories, MA forward parameters.	e JMS resource 5 templates, de 5 tton in the Cha Type	as that have been created for stination sort keys, destination nge Center to activate all the l JNDI Name There are no ite	this IMS system module, inc n quota, distributed destinati buttons on this page. Subdeployment ms to display	Luding queue and topic destinations.       cons, foreign servers, and store-and-       Showing 0 to 0 of 0       Previous   Next       Targets       Showing 0 to 0 of 0       Previous   Next		



11. Click 'New' in 'Summary of Resources' section. The following window is displayed.

Change Center	Home Log Out Preferences [Ard Record Help ]	Q
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 Source	ces >Summary of Services >Summary of JMS Modules >AQJMSModule
Configuration button to allow others to edit the domain.	Create a New JMS System Module Resource	
Lock & Edit	Back Next Finish Cancel	
Release Configuration		
	Choose the type of resource you want to create.	
Jomain Structure	Lice there append to create producers in a IME sustem of	nodule such as quoties, templates, and connection factories
IFSLIKEL_domain ⇒ Domain Partitions ⇒ Environment → Deployments ⇒ Services ⇒ Messaging → JMS Servers	Depending on the type of resource you select, you are resources, like stand-alone queues and topics, connect destinations, you can also proceed to targeting pages resources with subdeployments, which is an advanced resources.	prompted to enter basic information for creating the resource. For targetable tion factories, distributed queues and topics, foreign servers, and JMS SAF for selecting appropriate server targets. You can also associate targetable mechanism for grouping JMS module resources and the members to server
Store-and-Forward Agents JMS Modules Path Services	Connection Factory	Defines a set of connection configuration parameters that are used to create connections for JMS clients. Nore Info
Data Sources Persistent Stores	↓ 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
fow do I     Configure quotas for destinations     Configure JMS templates     Configure destinations laws	Оторіс	Defines a publich/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 topics     Configure queues     Configure connection factories	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 uniform distributed topics     Configure uniform distributed queues     Configure foreign servers	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 JMS SAF	Foreign Server	Defines foreign messaging providers or remote WebLogic Server instances that are not part of the current domain. More Info
Health of Running Servers as of 3:13 PM	O Quota	Controls the allotment of system resources available

12. Select 'Foreign Server' as the option for type of resource to be created and click 'Next'. The following window is displayed.

Configure connection factories     Configure uniform distributed topics     Configure uniform distributed queues	
Configure topics     Configure queues	
Configure quotes for destinations     Configure 3MS templates	
How do I	
th-Bridges Deta Sources Persistent Stores Foreign, INDL Providers	
	Back Next Finish Cancel
Deployments E Services	* Namei AQForeignServer
OFSLEREL_domain	The following properties will be used to identify your new foreign server. The current module is AQMSModule.
Domain Structure	
Release Configuration	Eack Next Finish Cancel
Configuration button to allow others to edit the domain.	Create a New JMS System Module Resource
No pending changes exist. Click the Release	Hene >Summary of Services >Summary of JDBC Date Sources >Summary of Services >Summary of JMS Modules >AQ3MSModule
View changes and restarts	Welcome, weblasis Connected to: OFSLLRFL domain

13. Specify the name of the Foreign Server as 'AQForeignServer' and click 'Next'. The following window is displayed.

ORACLE WebLogic Server	Adm	ninistration Console 12c	2 ×
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 >Summary of Services >Summary of JMS Modules >AQJMSModule	
Configuration button to allow others to edit th domain.	•	Create a New JMS System Module Resource	
Lock & Edit		Back Next Finish Advanced Targeting Cancel	
Release Configuration		The following properties will be used to target your new JMS system module resource	1
Domain Structure			
OFSLLREL_domain IP-Domain Partitions IP-Environment IP-Deployments IP-Services IP-Messaging	^	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 <b>Advanced Targeting</b> to use the auddeployment 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 Solution Servers Solution Solu	
How do I		Back Next Finish Advanced Targeting Cancel	
Configure quotas for destinations     Configure JMS templates     Configure destination keys     Configure topics     Configure queues			
Configure connection factories     Configure uniform distributed topics			
Configure uniform distributed queues			
Configure foreign servers     Configure JMS SAF			
System Status			
11 N (0 ) ( ) ( ) ( ) ( ) ( )			~



14. Click 'Finish' and activate the changes. The following window is displayed.

Mebeogie Serve		A second console					1000	
hange Center		Home Log Ou	it Preferences 🔝	Record He	elp		Q	7.0
liew changes and restarts							Welcome, web	logic Connected to: OFSLLREL_domain
ending changes exist. They must be actival take effect.	ted	Home >Summary Messages	of Services >Summa	ry of JDBC Da	ta Sources >	Summary of S	Services >Summary of JMS M	odules >AQJMSModule
Activate Changes		🕜 The foreign s	erver was created	successfully.				
Undo All Changes		Settings for AQJ	1SModule					
omain Structure		Configuration	Subdeployments	Targets	Security	Notes		
SLLREL_domain "Domain Partitions "Environment "Deployments Service	^	This page displays general information about a JMS system module and access existing resources.				d its resources. It also allow	vs you to configure new resources and	
Messaging 3MS Servers		Name:		AQJMSM	Iodule		The name of th	nis JMS system module. More Info
Store-and-Forward Agents JMS Modules Path Services	1 an	Scope:		Global			Specifies if the within the dom template. Mo	JMS system module is accessible ain, a partition, or a resource group re Info
Data Sources Persistent Stores Foreign INDI Providers	~	Descriptor File Name:		jms/AQJ	jms/AQJMSModule-jms.xml The name of the Info		e JMS module descriptor file. More	
w do I Configure quotas for destinations	Ξ	This page summ connection factor forward parame	narizes the JMS res pries, JMS template ters,	ources that l s, destinatio	have been ci n sort keys,	reated for th destination	nis JMS system module, incl quota, distributed destinati	uding queue and topic destinations, ons, foreign servers, and store-and-
Configure JMS templates		Customize thi	s table					
Configure topics								
Configure queues		Summary of Re	sources					
Configure connection factories		New Delete						Showing 1 to 1 of 1 Previous   Next
Configure uniform distributed topics		🔲 Name 🗠	Тур	)e	JNDI	Name	Subdeployment	Targets
Configure uniform distributed queues		AOEnreionServer Enreion Server		N/A		Default Targeting	OFSLL ManagedServer	
Configure IMS SAF		New Delete			1.4.4		1	Showing 1 to 1 of 1 Previous   Next
stom Statur								
soem status	-							



15. Click on the Foreign Server that you created. The following window is displayed.

Domain Structure		General Destinations Connect	ion Factories	
OFSLLREL_domain	^	A foreign server represents a 1NDI	nrovider that resides outside a Web	Lonir Sanver. It contains information that allows Webl onic
- Services - Messaging - JMS Servers - JMS Servers		Server to reach the remote JNDI pr defined on one JNDI directory. Use	ovider. This way, a number of conn this page to configure a foreign ser	ection factory and destination objects (queues or topics) can be ver.
- Store-and-Forward Agents - JMS Modules		🕂 Name: AQForeignServer		The name of this foreign server. More Info
B-Bridges Data Sources Persistent Stores	~	JNDI Initial Context Factory:	InitialC	The name of the class that must be instantiated to access the JNDI provider. This class name depends on the JNDI provider and the vendor that are being used. More Info
How do I	Ξ	at Indi		The URL that WebLogic Server will use to contact the
Create foreign connection factories     Create foreign destinations		URL:		which JNDI provider in the gruued. For WebLogic JMS, leave this field blank if you are referencing WebLogic JMS objects within the same cluster. More Info
Pystem Status Health of Running Servers as of 3:19 PM Failed (0) Critical (0) Overloaded (0) Warning (0)	Ξ	JNDI Properties Credential:		Any Credentials that must be set for the JNDI provider. These Credentials will be part of the properties will be passed directly to the constructor for the JNDI provider's InitialContext class. Note: For secure credential management, use the Credential field. Using the Properties field results in the credential being stored and displayed as originally entered More Info
OK (3)		Confirm JNDI Properties Credential:		
		JNDI Properties:		Any additional properties that must be set for the
		datasource=jdbc/aqjmsd	ь ~	JNUI provider, These properties will be passed directly to the constructor for the JNDI provider's InitialContext class. More Info
		🗹 🚰 Default Targeting Enabled	đ	Specifies whether this JMS resource defaults to the

- 16. Specify the following details:
  - Enter JNDI Initial Context Factory as 'oracle.jms.AQjmsInitialContextFactory'.
  - JNDI Properties as 'datasource=jdbc/aqjmsdb'.
  - Ensure 'Default Targetting Enabled' option is selected.
- 17. Click 'Save'.



18. Select 'Destinations' Tab and click 'New' to create new destination. The following window is displayed.

		Home Log Out Prefers	ances [32] Record Heln	1	Welcome webk	noin Connected to: OFSUIREL domain
Change Center		the nome bay out menare	nces [14] Record map		Terester Treas	The Connected to Construct_domain
View changes and restarts		Modules >AQIMSModule >AC	>Summary of JUBC Data So (ForeignServer > Configura)	surces >Summary of Serv tion	ices >Summary of JMS	
Pending changes exist. They must be activa to take effect.	ated	Create a New Foreign JMS	S Destination			
Activate Changes		OK Cancel				
Undo Air Unanges		Foreign Destination Pr	operties			
Domain Structure						
OFSLLREL_domain	~	The following properties w	vill be used to identify you	r new foreign destination	an.	
Domain Partitions     Environment     Deployments		* Indicates required fields				
- Services Messaging		* Name:	AQJMSQueue			
Store-and-Forward Agents JMS Modules		Local JNDI Name:	/jms/aq/OfsIIQueu	Je		
Bridges		Remote JNDI Name:	Queues/OFSLL_(		×	
- Persistent Stores - Foreign INDI Providers	~	OK Cancel				
How do I						]
<ul> <li>Configure foreign servers</li> </ul>						
Create foreign connection factories						
System Status						
Health of Running Servers as of 3:22 PM						
Failed (0)						
Critical (0)						
Overloaded (0)						
Warning (0)						
UK (S)						

- 19. Specify the following details:
  - Name: AQJMSQueue
  - LocalJNDI Name: /jms/aq/OfsllQueue
  - Remote JNDI Name: Queues/OFSLL\_OUTBOUND\_Q
- 20. Click 'OK' and save the changes.
- 21. Select 'Connection Factories' Tab and click 'New' to add new connection factory. The following window is displayed.

ORACLE WebLogic Server A	dministration Console 12c
Change Center	🔒 Home. Log Out: Preferences 🔝 Record Help
View changes and restarts	Home >Summary of Services >Summary of JDBC Data Sources >Summary of Services >Summary of 3MS Modules >AQIMSModule >AQIForeignCenver >Configuration
Pending changes exist. They must be activated to take effect.	Create a New Foreign JMS Connection Factory
Activate Changes	OK Cancel
Undo All Changes	Engine Connection Eactory Properties
Domain Structure	
OFSLLREL_domain	The following properties will be used to identify your new foreign connection factory.
Environment     Deployments	* Indicates required fields
Services	* Name: AQofsIICF
Store-and-Forward Agents	Local JNDI Name: /jms/aq/OfsIICF
Bridges	Remote JNDI Name: XAQueueConnectionFactory
Persistent Stores	OK Cancel
How do I	
Configure foreign servers	
Create foreign destinations	
System Status	
Health of Running Servers as of 3:23 PM	
Failed (0)	
Overloaded (0)	
Warning (0)	
0.1(2)	1

22. Specify the following details:

- Name: AQofsIICF
- Local JNDI Name: /jms/aq/OfsIICF
- Remote JNDI Name: XAQueueConnectionFactory

23. Click 'OK' and save the changes.

# 9.3 AQ-JMS Topic Setup

AQ-JMS Topic Bridge facilitates for group publishing to set of subscribed users. In a configured setup, a published message is sent to all the interested subscribers. Accordingly zero to many subscribers will receive a copy of the same message.



## 9.3.1 Create AQ-JMS Topic Bridge

To configure the AQ JMS Topic from Weblogic console, do the following:

- 1. Login to Oracle Weblogic 12c console (http://hostname:port/console).
- 2. On the left pane, select Services > Messaging > JMS Modules. The following window is displayed.

ORACLE WebLogic Server Ad	iministration Console 12c			· · · · · · · · · · · · · · · · · · ·
Change Center	😧 Home Log Out Preferences 💽 Record He	alp	Welcome, weblogic Connected to:	OFSLLREL_don
View changes and restarts	Home >Summary of Services >Summary of Services	3MS >Summary of 3MS Modules		
Click the Lock & Editbutton to modify, add or delete items in this domain. Lock & Edit Release Configuration	Summary of JMS Modules JMS system resources are configured and store connection factories, templates, destination ke (SAF) parameters, You can administratively cor	id as modules similar to standard Ja ys, quota, distributed queues, distri floure and manace JMS system mo	wa EE modules. Such resources include o buted topics, foreign servers, and JMS st idules as olobal system resources.	ueues, topics, pre-and-forward
Domain Structure DFSLIREL_domain (P) Domain Partitions (P) Environment Deployments (P) Services Security Realms	This page summarizes the JMS system modules Customize this table JMS Modules (Filtered - More Columns Exi Click the Lock & Editbutton in the Change Cei	s that have been created for this do st) nter to activate all the buttons on th	main.	
- Interoperability Diagnostics	[New] [Delete]		Showing 1 to 1 of 1	Previous Next
	AQIMSModule New Delete	JMSSystemResource	s Showing 1 to 1 of 1	Previous Next
How do I	· · · · · · · · · · · · · · · · · · ·			
Configure JMS system modules     Configure resources for JMS system modules				
System Status				
Health of Running Servers as of 3:29 PM				
Failed (0)           Critical (0)           Overloaded (0)           Warning (0)				

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

hange Center	Home Log Out Preferences	Home Log Out Preferences And Record Help					
/iew changes and restarts				Welcome, web	logic Connected to: OFSLLREL_dom		
lick the Lock & Edit button to modify, add or	Home >Summary of Services >Summary of Services: JMS >Summary of JMS Modules >AQJMSModule						
lelete items in this domain.	Settings for AQJMSModule	Settings for AQJMSModule					
Release Configuration	Configuration Subdeployme	ents Targets S	ecurity Notes				
Iomain Structure FSLLREL_domain 9 - Domain Partitions	This page displays general info access existing resources.	ormation about a JM	IS system module and	d its resources. It also allow	vs you to configure new resources and		
Environment Deployments	Name:	AQJMSMod	ule	The name of this JMS system module. More Info			
Griege Services	Scope:	Global		Specifies if the within the dom template. Mo	Specifies if the JMS system module is accessible within the domain, a partition, or a resource group template. More Info		
	Descriptor File Name:	Descriptor File Name: jms/AQJMSModule-jms.xml			The name of the JMS module descriptor file. More Info		
	This page summarizes the JMS connection factories, JMS tem	5 resources that hav plates, destination s	e been created for th ort keys, destination	nis JMS system module, inc	luding queue and topic destinations,		
low do I E	forward parameters.			quota, distributed destinat	ons, foreign servers, and store-and-		
tow do I E	forward parameters.			quota, distributed destinat	ions, toreign servers, and store-and-		
tow do I E	Customize this table			quota, distributed destinat	ions, foreign servers, and store-and-		
low do I E Configure quotas for destinations Configure JMS templates Configure destination kays Configure topics	Forward parameters.	n the Change Center	r to activate all the b	quota, distributed destinat	ions, foreign servers, and store-and-		
Iow do I E Configure quotas for destinations Configure JMS templates Configure destination keys Configure topics Configure queues	forward parameters.     Customize this table     Summary of Resources     Click the Lock & Edit button in     New Delete	n the Change Center	r to activate all the b	quota, distributed destinat	ons, toreign servers, and store-and-		
Iow do I E Configure quotas for destinations Configure JMS templates Configure destination keys Configure topics Configure queues Configure queues Configure connection factories Configure inform distributed topics	forward parameters.	n the Change Center	r to activate all the b	uttons on this page.	Showing 1 to 1 of 1 Previous   Next Targets		
Configure quotas for destinations Configure 3MS templates Configure destination keys Configure destination keys Configure cubics Configure cubics Configure cubics Configure cubics Configure uniform distributed topics Configure uniform distributed topics	forward parameters.     Customize this table     Summary of Resources     Click the Lock & Edit button in     New Delete     Name      AQForeignServer	n the Change Center Type Foreign Server	T to activate all the b	uttons on this page.	Showing 1 to 1 of 1 Previous   Next Targets OFSLL_ManagedServer		
Iow do I E Configure quotas for destinations Configure JMS templates Configure destination keys Configure optics Configure queues Configure enform distributed topics Configure uniform distributed topics Configure uniform distributed queues Configure inform distributed queues Configure foreign servers Configure JMS SAF	Forward parameters.	n the Change Center Type Foreign Server	T to activate all the b JNDI Name N/A	uttons on this page. Subdeployment Default Targeting	Showing 1 to 1 of 1 Previous   Next Targets OFSLL_ManagedServer Showing 1 to 1 of 1 Previous   Next		
tow do I E Configure quotas for destinations Configure 3MS templates Configure destination keys Configure optics Configure connection factories Configure uniform distributed topics Configure uniform distributed queues Configure 3MS SAF System Status	Forward parameters.	n the Change Center Type Foreign Server	r to activate all the b JNDI Name N/A	uttons on this page. Subdeployment Default Targeting	Showing 1 to 1 of 1 Previous   Next Targets OFSLL_ManagedServer Showing 1 to 1 of 1 Previous   Next		



4. In the Summary of Resources section, click 'New'. The following window is displayed.

hange Center	Home Log Out Preferences [Ard Record Help ]	<u> </u>
/iew changes and restarts		Welcome, weblogic Connected to: OFSLLREL_doma
to pending changes exist. Click the Release	Home >Summary of Services >Summary of Services: JMS >S	ummary of JMS Modules >AQ3MSModule
Configuration button to allow others to edit the domain.	Create a New JMS System Module Resource	
Lock & Edit	Back Next Finish Cancel	
Release Configuration	Choose the type of resource you want to create.	
Iomain Structure		
FSLLREL_domain	Use these pages to create resources in a JMS system m	rodule, such as queues, topics, templates, and connection factories.
Pomain Partitions Penvironment Deployments Services Security Realms Protecoscibility	Depending on the type of resource you select, you are resources, like stand-alone queues and topics, connect destinations, you can also proceed to targeting pages for resources with subdeployments, which is an advanced resources.	prompted to enter basic information for creating the resource. For targetable on factories, distributed queues and topics, foreign servers, and IMS SAF or selecting appropriate server targets. You can also associate targetable mechanism for grouping JMS module resources and the members to server
<ul> <li>Interoperability</li> <li>Diagnostics</li> </ul>	O Connection Factory	Defines a set of connection configuration parameters that are used to create connections for JMS clients. More Info
	O Queue	Defines a point-to-point destination type, which are used for asynchronous peer communications. A message delivered to a queue is distributed to only one consumer. More Info
ow do I		Defines a publish/subscribe destination type, which
Configure quotas for destinations Configure JMS templates	() topic	are used for asynchronous peer communications. A message delivered to a topic is distributed to all topic consumers. More Info
Configure desuration keys Configure topics Configure queues	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 connector factories Configure uniform distributed topics Configure uniform distributed queues	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 JMS SAF	Foreign Server	Defines foreign messaging providers or remote WebLogic Server instances that are not part of the current domain. More Info
ealth of Running Sequences as of 3132 DM	⊖ Quota	Controls the allotment of system resources available

5. Select 'Foreign Server' as the option for type of resource to be created and click 'Next'. The following window is displayed.

	Home Lon Out Preferences [2] Berord Heln	
Change Center		
View changes and restarts	Welcome, weblogic Connected to: OFSLLREL_domain	
No pending changes exist. Click the Release	Home >Summary of Services >Summary of Services: JMS >Summary of JMS Modules >AQJMSModule	
Configuration button to allow others to edit the	Create a New JMS System Module Resource	
Look & Edit	Back Next Finish Cancel	
Release Configuration	Terretor Revendence	
Domain Structure	Foreign Server Properties	
OFSUREL domain	The following properties will be used to identify your new foreign server. The current module is AQJMSModule.	
Domain Partitions		
19 Environment	- Indicates required tields	
Deployments		
Security Realms	*Name: OfsilTopicFS	
183 Interoperability		
Iti-Diagnostica	Back Next Finish Cancel	
How do I		
<ul> <li>Configure quotas for destinations</li> </ul>		
<ul> <li>Configure JMS templates</li> </ul>		
<ul> <li>Configure destination keys</li> </ul>		
<ul> <li>Configure topics</li> </ul>		
Configure queues		
<ul> <li>Configure connection factories</li> </ul>		
<ul> <li>Configure uniform distributed topics</li> </ul>		
<ul> <li>Configure uniform distributed queues</li> </ul>		
<ul> <li>Configure foreign servers</li> </ul>		
<ul> <li>Configure JMS SAF</li> </ul>		
System Status		-
		~

6. Specify the name of the Foreign Server as 'OfsllTopicFS' and click 'Next'. The following window is displayed.

Change Center	Home Log Out Preferences And Record Help	
View changes and restarts	Welcome, weblogic Connected to: OFSLLREL_domai	in
No pending changes exist. Click the Release	Home >Summary of Services >Summary of Services: JMS >Summary of JMS Modules >AQJMSModule	
Configuration button to allow others to edit the domain.	Create a New JMS System Module Resource	1
Lock & Edit Release Configuration	Back, Next Finish Advanced Targeting Cancel	
	The following properties will be used to target your new JMS system module resource	
Domain Structure OFSLLREL_domain B <sup>-</sup> Domain Partitions B <sup>-</sup> Environment - Deployments B <sup>-</sup> comains	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 <b>Advanced Targeting</b> to use the subdeployment michanism for targeten phile resource. The following JMS extem module resource. If the module's targets	
Berring Realms Friteroperability	are changed, this resource will also be retargeted appropriately. Targets :	
	Servers Structure Structur	
How do I	Back Next Finish Advanced Targeting Cancel	
<ul> <li>Configure quotas for destinations</li> </ul>		
<ul> <li>Configure JMS templates</li> </ul>		-
<ul> <li>Configure destination keys</li> </ul>		
Configure topics		
Configure queues		
<ul> <li>Configure connection factories</li> </ul>		
<ul> <li>Configure uniform distributed topics</li> </ul>		
Configure uniform distributed queues		
Configure foreign servers     Configure JMS SAF		
System Status		~
a la fa la fa fan fan fan fan fan fan fan fan fan		



- 7. Click 'Finish' and activate the changes.
- 8. Click on the Foreign Server that you created. The following window is displayed.

Undo All Changes			
	General	Destinations Connection Factories	-
Domain Structure OFSLLREL_domain	Save		
Environment     Deployments     Services     Security Realms	A foreign si Server to re defined on	erver represents a JNDI provider that resides outside each the remote JNDI provider. This way, a number one JNDI directory. Use this page to configure a for	a WebLogic Server. It contains information that allows WebLogic of connection factory and destination objects (queues or topics) can be eign server.
<ul> <li>Interoperability</li> <li>Diagnostics</li> </ul>	a Name:	OfsIITopicF5	The name of this foreign server. More Info
	JNDI Initial Context Factory:	oracle.jms.AQjmsInitialCr	The name of the class that must be instantiated to access the JNDI provider. This class name depends on the JNDI provider and the vendor that are being used. More Info
How do I • Create foreign connection factories • Create foreign destinations	JNDI     Connection     URL:	[	The URL that WebLogic Server will use to contact the 3/DE provider. The syntax of this URL depends on 3/DE, leave this field blank fryou are referencing WebLogic 3/DS objects within the same cluster. More Info
System Status Health of Running Servers as of 3:36 PM	JNDI     Properties     Credential:		Any Credentials that must be set for the JNDI provider. These Credentials will be part of the properties will be passed directly to the constructor for the JNDI provider's InitialContext class. Note: For succure credential management, use the Credential
Critical (0) Overloaded (0)			field. Using the Properties field results in the credential being stored and displayed as originally entered More Info
Warning (0) OK (3)	Confirm JNDI Properties Credential:		
	JNDI Prope datasou	rties: rce=jdbc/aqjmsdb	Any additional properties that must be set for the JNDI provider. These properties will be passed directly to the constructor for the JNDI provider's InitialContext class. More Info
	🗹 륝 Defa	ult Targeting Enabled	Specifies whether this JMS resource defaults to the parent module's targeting or uses the subdeployment targeting mechanism. More Info

- 9. Specify the following details and click 'Save'.
  - Enter JNDI Initial Context Factory as 'oracle.jms.AQjmsInitialContextFactory'.
  - JNDI Properties as 'datasource=jdbc/aqjmsdb'.
  - Ensure 'Default Targetting Enabled' checkbox is selected.
- 10. Select 'Destinations' tab and click 'New' to create new destination. The following window is displayed.

ORACLE WebLogic Server A	Iministration Console 12c					9		
Change Center	Home Log Out Preferences	Record Help		Q	Welcome, weblogic	Connected to: OFSLLREL_domain		
View changes and restarts	Home >Summary of Services >Summ	Home >Summary of Services >Summary of Services: JMS >Summary of JMS Modules >AQJMSModule >OfsITopicPS >Configuration						
Pending changes exist. They must be activated to take effect.	Create a New Foreign JMS Destination							
Activate Changes	OK Cancel							
Undo All Changes	Foreign Destination Properties							
Domain Structure	The following properties will be us	ed to identify you	r new foreign destin	ation.				
OFSLLREL_domain Domain Partitions Environment	* Indicates required fields							
Deployments     Services     Security Realms	* Name: AC	JMSTopic						
<ul> <li>Interoperability</li> <li>Diagnostics</li> </ul>	Local JNDI Name: /jm	s/aq/OfsIITopic						
	Remote JNDI Name: To	bics/OFSLL_O	UTBOUND_TOP	PIC	ĺ			
	OK Cancel							
How do I								
Configure foreign servers								
Create foreign connection factories								
System Status 🖂								
Health of Running Servers as of 3:39 PM								
Failed (0)								
Critical (0)								
Verloaded (0)								
OK (3)								

- 11. Specify the following details and click 'OK' to save the changes.
  - Name: AQJMSTopic
  - LocalJNDI Name: /jms/aq/OfslITopic
  - Remote JNDI Name: Topics/OFSLL\_OUTBOUND\_TOPIC



12. Select 'Connection Factories' tab and click 'New' to add new connection factory. The following window is displayed.

Change Center	The second Help Record Help Welcome, weblogic Connected to: OFSLLREL_domain						
View changes and restarts	Home >Summary of Services >Summary of Services: 3MS >Summary of JMS Modules >AQJMSModule >OfsiTopicPS >Configuration						
Pending changes exist. They must be activated to take effect.	Create a New Foreign JMS Connection Factory OK Cancel						
Undo All Changes	Foreign Connection Factory Properties						
Domain Structure OFSLLREL_domain 🕀 Domain Partitions	The following properties will be used to identify your new foreign connection factory. * Indicates required fields						
Environment     Deployments     Services     Security Realms	* Name: AQJMSTopicCF						
<ul> <li>Diagnostics</li> </ul>	Local JNDI Name: /jms/aq/OfsIITopicCF						
	Remote JNDI Name: XATopicConnectionFactory						
How do I							
Configure foreign servers     Create foreign destinations							
System Status							
Health of Running Servers as of 3:41 PM							
Failed (0)           Critical (0)           Overloaded (0)           Warning (0)							

- 13. Specify the following details and Click 'OK' to save the changes.
  - Name: AQJMSTopicCF
  - Local JNDI Name: /jms/aq/OfslITopicCF
  - Remote JNDI Name: XATopicConnectionFactory

# 9.4 JMS Queue Configuration

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 JMS queue in application server.

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



## 9.4.1 <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_doma
View changes and restarts	Home		
lick the Lock & Edit button to modify, add or lete items in this domain.	Home Page		
Lock & Edit	- Information and Resources		
Release Configuration	Helpful Tools	General Information	
	Configure applications	<ul> <li>Common Administration Task Descriptions</li> </ul>	
main Structure	Configure GridLink for RAC Data Source	<ul> <li>Read the documentation</li> </ul>	
SLLREL_domain	Configure a Dynamic Cluster	<ul> <li>Ask a question on My Oracle Support</li> </ul>	
Domain Partitions	Recent Task Status		
-Deployments	<ul> <li>Set your console preferences</li> </ul>		
Services	Oracle Enterprise Manager		
Security Realms	- Domain Configurations		
-Diagnostics			
	Domain	Resource Group Templates	Interoperability
	Domain	Resource Group Templates	WTC Servers
			Jolt Connection Pools
	Domain Partitions	Resource Groups	
	Domain Partitions	Resource Groups	Diagnostics
ow do I 🗉	<ul> <li>Partition Work Managers</li> </ul>		<ul> <li>Log Files</li> </ul>
Count the surfacements		Deployed Resources	Diagnostic Modules
Search the configuration	Environment	Deployments	Built-in Diagnostic Modules
Ose the Change Center	Servers		Diagnostic Images
Change Councils and Councils	Clusters	Services	Request Performance
Change Console preferences	<ul> <li>Server Templates</li> </ul>	Messaging	Archives
Manage Console extensions	<ul> <li>Migratable Targets</li> </ul>	<ul> <li>JMS Servers</li> </ul>	Context
Monitor servers	Coherence Clusters	<ul> <li>Store-and-Forward Agents</li> </ul>	• SNMP
etem Status	Machines	<ul> <li>JMS Modules</li> </ul>	Interceptors
stem status -	Virtual Hosts	Path Services	Charles and Crawles
alth of Running Servers	Virtual Targets	<ul> <li>Bridges</li> </ul>	charts and Graphs
Failed (0)	Work Managers	Data Sources	Monitoring Dashboard
Critical (0)	Concurrent Templates	Persistent Stores	
Overloaded (0)	Kesource Management	XML Registries	
Warning (U)	<ul> <li>startup And Shutdown Classes</li> </ul>	XML Entity Caches	
UK (5)		<ul> <li>Foreign JNDI Providers</li> </ul>	
	Application's Security Settings	Work Contexts	
	<ul> <li>Security Realms</li> </ul>	<ul> <li>jCOM</li> </ul>	

3. Click Domain Name > Services > Messaging > JMS Server.



4. In the main window, click 'Lock & Edit'. The following window is displayed.

	r Admi	inistration Console 12c						Q
Change Center		A Home Log Out Pref	ferences 🛃 Record Help		Q	١	Nelcome, webl	ogic Connected to: OFSLLREL_doma
View changes and restarts		Home >Summary of JM	S Servers					
No pending changes exist. Click the Release Configuration button to allow others to edit ti domain. Lock & Edit Release Configuration	he	Summary of JMS Server JMS servers act as mai This page summarizes	ers nagement containers for the que the JMS servers that have been	ues and topics in 3 created in the curr	MS modules that are targeted t ent WebLogic Server domain.	to them.		
Domain Structure		Customize this table						
OFSLLREL_domain		p customice and tabl						
Domain Partitions     Environment     Deployments		New Delete	a - More Columns Exist)					Showing 0 to 0 of 0 Previous   Next
E-Services E-Messaging		🔲 Name 🐟	Persistent Store	Target	Current Target	Health	Scope	Domain Partitions
JMS Servers		There are no items to display						
	~	New Delete						Showing 0 to 0 of 0 Previous   Next
How do I	-							
Configure JMS servers     Configure JMS system modules								
System Status								
Health of Running Servers								
Failed (0)           Critical (0)           Overloaded (0)           Warning (0)           OK (3)								

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

ORACLE WebLogic Server Ad	miniatration Console 12c
Change Center	🍘 Home Log Out Preferences 🔤 Record Help
View changes and restarts	Home >Summary of Services >Summary of Services   245 >Summary of JMS Servers
No pending changes exist. Click the Release Configuration button to allow others to adilt the domain. Look & Edit Release Configuration	Create a New JMS Server           Book New, Finish Cancel           JMS Server Properties           The following properties will be used to identify your new JMS Server.
Domain Structure	* Indicates required fields
OFELLER_Johnson	What would you like to name your new XMS server?         Image: CristlyMSServer         Would you like this new XMS server to a specific resource group template or resource group ?         Scopet:         Basek: Next: Finish: Cancel
How do I	
Configure JMS system modules     Configure custom persistent stores	
System Status	
Health of Running Servers as of 4:46 PM	
Failed (0) Critical (0) Overloaded (0) Varning (0) OK (3)	

6. Specify the JMS Server Name as 'OfsllJMSServer'. 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 >OfsIUMSServer >Summary of JMS Servers
Pending changes exist. They must be activated to take effect.	Create a New JMS Server
Activate Changes	Back Next Finish Cancel
Undo All Changes	Select targets
Domain Structure	Select the server instance or migratable target on which you would like to deploy this JMS server.
OFSLLREL_domain	Target: OFSLL_ManagedServer
Environment     Deployments     Services	Back Next Finish Cancel
Security Realms	·

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



9. Click 'Activate Changes' under Change Center. Once done, the following window is displayed:



### 9.4.2 Create JMS Module

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

Change Center	Home Log Out Preferences	Record Help		Welcome, weblogic	Connected to: OFSLLREL_domain
View changes and restarts	Home >Summary of JMS Modul	les			
Click the Lock & Edit button to modify, add or delete items in this domain.	Summary of JMS Modules				
Lock & Edit Release Configuration	JMS system resources are conf destination keys, quota, distrib JMS system modules as global	figured and stored as modules similar to standard uted queues, distributed topics, foreign servers, a system resources.	I Java EE modules. Such resourd and JMS store-and-forward (SAF	ces include queues, topics, con F) parameters. You can admini	nection factories, templates, stratively configure and manage
Domain Structure	This page summarizes the JMS	system modules that have been created for this	domain.		
QA143SUP_domain  Domain Partitions	Customize this table				
Environment     Deployments     Services	JMS Modules				
Environment     Deployments     Services     Hessaging	JMS Modules Click the Lock & Edit button in	the Change Center to activate all the buttons on	n this page.		
B <sup>+</sup> -Environment →Deployments Services →Messaging →MS Servers →Store-and-Forward Agents	JMS Modules Click the <i>Lock &amp; Edit</i> button in New Delete	the Change Center to activate all the buttons on	1 this page.	Shov	ving 1 to 1 of 1 Previous   Next
Brytromenet     Deployments     Deployments     Services     Missaying     MisServers     Store-and-Forward Agents     -VHS Modules     Path Services     Binders	JMS Modules       Click the Lock & Edit button in       New       Delete       Name	h the Change Center to activate all the buttons on	n this page.	Shov Domain Partitions	ving 1 to 1 of 1 Previous   Next
PF-Environment     → Deployments     → Deployments     → Nessaging     → Messaging     → Messaging     → Messaging     → Messaging     → Messaging     → Data Services     B ⊕ Brdges     → Data Services	JMS Modules       Click the Lock & Edit button in       New       Delete       AgJMSModule	the Change Center to activate all the buttons on Type IMSSystemResource	h this page.	Shov Domain Partitions	ving 1 to 1 of 1 Previous   Next

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

		E	11.001		in the second
Change Center	Home Log Out Prefere	nces Let Record Help	2	Welcome, weblogic	Connected to: OFSLLREL_domain
View changes and restarts	Home >Summary of Services	>Summary of Services: JMS >Summ	mary of JMS Modules		
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create JMS System Modul Back Next Finish	Cancel			
Look & Edit Release Configuration	The following propertie	s will be used to identify you	r new module.		
Domain Structure OFSLLREL_domain @-Domain Partitions D-Environment -Deployments	JM5 system resources are connection factories, temp (SAF) parameters. You car * Indicates required fields	configured and stored as module lates, destination keys, quota, di administratively configure and r	is similar to standard Ja stributed queues, distrib nanage JM5 system mo	va EE modules. Such reso suted topics, foreign serve dules as global system res	urces include queues, topics, rs, and JMS store-and-forward sources.
Services     Messaging     Data Sources     Persistent Stores     Foreign JNDI Providers	What would you like to nam * Name:	e your System Module? OfsilJMSModule	]		
Work ContextsXML RegistriesXML Entity Caches	Would you like this new JM: Scope:	Global	to a specific resource g	roup template or resource	a group ?
How do I   Configure JMS system modules	Descriptor File Name:	OfsliJMSModule	u do not provide a name	e, a deradit will be assigne	
Configure JMS servers	Where would like to place t	ne descriptor for this System Mod	dule, relative to the jms	configuration sub-director	ry of your domain?
System Status	Location In Domain:		1		
Health of Running Servers as of 5:59 PM           Failed (0)           Ortical (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.

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 module.
Domain Structure	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.
OFSLIREL_domain	Targets :
Data Sources     Persistent Stores     Secure 2017 Decidere	AdminServer
Work Contexts	☑ OFSLL_ManagedServer
-XML Entity Caches -jCOM Mail Sessions	□ WS_ManagedServer
	and a second s

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

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

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

ORACLE WebLogic Ser	ver Administration	Console 12c				. <u> </u>
Change Center	Horn	e Log Out Preferences 🐼 Record Help	Q	Welcome, weblogic	Connected to: OFSLLRE	L_domai
View changes and restarts	Home >	Summary of Services >Summary of Services: 3MS >S	ummary of JMS Modules			
Click the Lock & Edit button to modify, as delete items in this domain.	dd or All o	s hanges have been activated. No restarts are nec	essary.			
Lock & Edit	Summar	y of JMS Modules				
Release Configuration						
Domain Structure OFSLIERL_domain (*)-Domain Paritions (*)-EnvironmentDeployments (*)-Sarvices (*)-MessagingDerissagingDerissagingDerissagingDerissagingDerissagingWork Contexts	JMS sy connec (SAF) This pa Custo JMS M Click th	stem resources are configured and stored as mo stor factories, reunplates, destination keys, quot arameters. You can administratively configure a sige summarizes the JMS system modules that he <b>mize this table</b> <b>odules (Filtered - More Columns Exist)</b> <b>e Lock &amp; Edit</b> button in the Change Center to a Descent	dules similar to standard 3 , distributed queues, distri- nd manage JMS system mv ve been created for this do ve been created for this do to be all the buttons on the	ava EE modules. Such ress butet topics, foreign servo adules as global system re- smain. his page.	unces include queues, top sers, and IMS store-and-for sources.	ics, ward
-XML Registries	INEW	[ Delete ]		Show	ing 1 to 2 of 2 Previous	Next
-jCOM		lame 🔗	Туре			
		QIMSModule	JMSSystemResor	urce		
How do I		/sll3MSModule	JMSSystemReso	urce		
Configure JMS system modules     Configure resources for JMS system m	odules	Delete	0 N	Show	ing 1 to 2 of 2 Previous	Next
System Status						
Health of Running Servers as of 6:05 PM	1					
Failed (0)           Critical (0)           Overloaded (0)           Warning (0)           OK (2)						

### 9.4.3 <u>Subdeployment</u>

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.

Settings for Of	alDMSModule				
Configuration	Subdeployments	Targets Secur	ity Notes		
This page disp grouped and t Customize t Subdeployme	olays subdeployments argeted to a server re his table ents	created for a JMS s source (such as JM	ystem module. A su S servers, server ins	bdeployment is a mechanism by w stances, or cluster).	hich JMS module resources (such as queues, topics, and connection factories) are
New Dele	te				Showing 0 to 0 of 0 Previous   Next
Name 4	ò		Resou	rces	Targets
				There are no items to dis	splay
New Dele	te				Showing 0 to 0 of 0 Previous   Next

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

ORACLE WebLogic Server Ad	ministration Console 12c
Change Center	🞓 Home Log Out Preferences 🖂 Record Help
View changes and restarts	Home >Summary of Services >Summary of Services: JMS >Summary of JMS Modules >OfsIIJMSModule
No pending changes exist. Click the Release	Create a New Subdeployment
Configuration button to allow others to edit the domain. Look & Edit Release Configuration	Back         [Finish]         Cancel           Subdeployment Properties         The following properties will be used to identify your new subdeployment.
Domain Structure	* Indicates required fields
OFSLIREL_domain B <sup>+</sup> :Domain Partitions D <sup>+</sup> :Domain Partitions → Deployments → Deployments	* Subdeployment Name: OfsiIJMSSD

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

Change Center	Becord Help     Welcome, weblogic     Connected to: OFSLLREL_domain
View changes and restarts	Home >Summary of Services >Summary of Services: JMS >Summary of JMS Modules >OfsIIJMSModule
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New Subdeployment           Back         Next         Finish         Cancel
Lock & Edit Release Configuration	Targets Please select targets for the Subdeployment
Domain Structure	
OFSLLREL_domain B: Domain Partitions C: Environment Deployments	Servers  OFSLL_ManagedServer
P Services	JMS Servers
Messaging     Data Sources     Persistent Stores     Foreign JNDI Providers	☑ OfsIJMSServer
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.

onfiguration	Subdeployments	Targets	Security	Notes		
grouped and	targeted to a server re	source (suc	h as JMS se	rvers, server instances, or cluste		
Subdeploym	ents					
<b>ubdeploym</b> Dick the <i>Loc</i>	<b>ents</b> & & Edit button in the (	Change Cen	iter to activ	ate all the buttons on this page.		
Subdeploym	ents & & Edit button in the ( ate	Change Cen	iter to activi	ate all the buttons on this page.	Showing 1 to 1 of 1 Previo	us   Nex
Subdeploym Click the Loc New Del	ents & & Edit button in the ( ate	Change Cen	iter to activ	Resources	Showing 1 to 1 of 1 Previo	us   Nex
Subdeploym Click the Loca New Del Name OfsilDM	ents & & Edit button in the ( ste >> :SD	Change Cen	iter to activi	Resources	Showing 1 to 1 of 1 Previo Targets OfsIUMSServer	us   Neo

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



## 9.4.4 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 'OfslIJMSModule'. The following window is displayed.

Change Center	Home Log Out Preferences A	ecord Help				
View changes and restarts		Welcome, weblogic Connected to: OFSLLREL_dom:				
ending changes exist. They must be activated	Home >Summary of Services >Summary of	f Services: JMS >Summary of JMS Modules				
o take effect.	Summary of JMS Modules					
Undo All Changes	JMS system resources are configured a	and stored as modules similar to standard Java EE modules. Such resources include				
Jomain Structure	servers, and JMS store-and-forward (S	SAF) parameters. You can administratively configure and manage JMS system				
PESLEREL_domain	modules as global system resources.					
Domain Partitions     The second	This page summarizes the JMS system modules that have been created for this domain.					
- Services	Customize this table					
Security Realms	JMS Modules (Filtered - More Colu	mns Exist)				
+-Interoperability -Diagnostics	New Delete	Showing 1 to 2 of 2 Previous Next				
	🔲 Name 🍣	Туре				
	AQ3MSModule	JMSSystemResource				
	OfsIUMSModule	JMSSystemResource				
iow do I 🖂	New Delete	Showing 1 to 2 of 2 Previous Next				
Configure JMS system modules						
Configure resources for JMS system modules						
	1					
System Status						
Health of Running Servers as of 6:20 PM						
Failed (0)						
Critical (0)						
Consideration in the second states in the second st						
Wessies (0)						

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

#### Settings for OfslIJMSModule

Configuration	Subdeployments	Targets	Security	Notes		
This page displation existing resource	ays general informat es.	ion about a	JMS system	n module and its	resources. It also allows you to configure new resources	and access
Name:		OfsIIJM	SModule		The name of this JMS system module. More	e Info
Scope:		Global			Specifies if the JMS system module is access the domain, a partition, or a resource group template. More Info	ible within
Descriptor File	Name:	jms/Of	sllJMSModu	e-jms.xml	The name of the JMS module descriptor file. Info	More

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

#### Customize this table

#### Summary of Resources

New Delete			Sh	nowing 0 to 0 of 0 Previous   Next
🔲 Name 🐟	Туре	JNDI Name	Subdeployment	Targets
		There are no	o items to display	1

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

reate a New JMS System Module Resource	
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.
Depending on the type of resource you select, you are p like stand-alone queues and topics, connection factories, proceed to targeting pages for selecting appropriate sen an advanced mechanism for grouping JMS module resou	rompted to enter basic information for creating the resource. For targetable resources, distributed queues and topics, foreign servers, and JMS SAF destinations, you can also ler targets. You can also associate targetable resources with subdeployments, which is rees and the members to server resources.
Connection Factory	Defines a set of connection configuration parameters tha 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
	Defines a publich/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
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
Foreign Server	Defines foreign messaging providers or remote Webl ogic



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

OFSLLREL\_ManagedServer

Back Next Finish Advanced Targeting Cancel



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

Change Center	Home Log Out Preferences Record Help				
View changes and restarts	Welcome, weblogic Connected to: OFSLLREL_domain				
Pending changes exist. They must be activated	Home >Summary of Services >Summary of Services: JMS >Summary of JMS Modules >OfsllJMSModule				
to take effect.	Create a New JMS System Module Resource				
Undo All Changes	Back Next Finish Cancel				
Domain Structure	The following properties will be used to target your new JMS system module resource				
DFSLLREL_domain P-Domain Partitions P-Environment - Deployments P-Services	Use this page to select a subdeployment to assign this system module resource. A subdeployment is a mechanism by which JMS resources are grouped and targeted to a server instance, cluster, or SAF agent. If necessary, you can create a new subdeployment by clicking the <b>Create a New Subdeployment</b> bittor. You can also neconfigure subdeployment targets later by using the parent module's subdeployment management page.				
Security Realms	Select the subdeployment you want to use. If you select (none), no targeting will occur.				
⊕-Diagnostics	Subdeployments: OfsIIJMSSD V Create a New Subdeployment				
	What targets do you want to assign to this subdeployment?				
How do I					
	Servers				
Configure guotas for destinations     Configure JMS templates	OFSLL_ManagedServer				
Configure destination keys	JMS Servers				
Configure topics					
Configure connection factories	C OfsiUMSServer				
Configure uniform distributed topics					
Configure uniform distributed queues	Back Next Finish Cancel				
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 Secu	rity Notes		
This page disp existing resour	lays general informat ces.	ion about a JMS sy	stem module and its reso	ources. It also allows you to conf	figure new resources and acces
lame:		OfsllJMSModu	le	The name of this JMS s	ystem module. More Info
icope:		Global		Specifies if the JMS syst the domain, a partition, template. More Info	em module is accessible within or a resource group
escriptor File	Name:	jms/OfsIIJMSM	Iodule-jms.xml	The name of the JMS m Info	odule descriptor file. More
		urces that have be	een created for this JMS s	ystem module, including queue	and topic destinations,
This page sum connection fac parameters. Customize th Summary of F	marizes the JMS reso tories, JMS templates <b>iis table</b> Resources	, destination sort l	keys, destination quota, c	ischouleu deschauoris, roreign s	ervers, and store-and-forward
This page sum connection fac parameters. Customize th Summary of F New Delet	marizes the JMS resc tories, JMS templates is table Resources	, destination sort l	keys, destination quota, c	surbuted destinations, foreign s	ervers, and store-and-forward wing 1 to 1 of 1 Previous   Ne
This page sum connection fac parameters. Customize th Summary of F New Delet	marizes the JMS resc tories, JMS templates its table Resources	, destination sort l	JNDI Name	Should be sumations, foreign s	wing 1 to 1 of 1 Previous   Ne

### 9.4.5 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	Out Preferences 🚹	Record Help		Q	Welcome, weblogic	Connected to: OFSLLREL_dom			
View changes and restarts	Home >Summar	Home >Summary of Services >Summary of Services: JMS >Summary of JMS Modules >OfsIUMSModule								
Click the Lock & Edit button to modify, add or	Settings for Of	sIIJMSModule								
delete items in this domain.	Configuration	Subdeployments	Targets Sec	urity Notes						
Lock & Edit										
Release Configuration										
	<ul> <li>This page disp existing resource</li> </ul>	plays general informa rces.	ation about a JMS s	system module and i	its resources.	It also allows you to config	ure new resources and access			
Jomain Structure										
DFSLLREL_domain	Name:		OfsIUMSMod	ule		The name of this JMS sys	stem module. More Info			
🖲 - Environment										
Deployments	Scope:		Global			Specifies if the JMS syste	m module is accessible within			
- Services				the domain, a partition, or a resource group template. More Info						
Interoperability			1. 105 89.10							
⊞-Diagnostics	Descriptor Fil	e Name:	jms/OfsIIJMSModule-jms.xml			Info				
	Factories, JMS	imarizes the JMS res templates, destinati his table	ources that have b on sort keys, desti	een created for this nation quota, distrib	UMS system r uted destination	nodule, including queue an ons, foreign servers, and st	d topic destinations, connection ore-and-forward parameters.			
How do I	Summary of	Resources								
<ul> <li>Configure quotas for destinations</li> </ul>	Click the Lock	6 Edit button in the	Change Conter to	activate all the buttle	tons on this n					
<ul> <li>Configure JMS templates</li> </ul>	Circle and Loca	a con bacon in an	a change center te	activate an are but	cons on this p	age.				
<ul> <li>Configure destination keys</li> </ul>	New Dele	te				Show	ing 1 to 1 of 1 Previous   Next			
Configure topics		×				ended and a second	Turnets			
Configure queues	la Name «	~ туре		JNDI Name	8	subdeployment	Targets			
		or or other	on England	and the first states and		OfellaMCCD	and the second statements			
Configure connection factories	OfsIIJMS	CF Connecti	Oll Factory	jms/OfsiUMS0	-F	OISIDHISSD	OfsiUMSServer			
Configure connection factories     Configure uniform distributed topics	New Dele	te	on Factory	jms/OfsiUM50		Show	ing 1 to 1 of 1 Previous   Next			

#### 4.

5.

DRACLE WebLogic Server Adm	ninistration Console 12c	<u>c</u>
hange Center	🏦 Home Log Out Preferences 🔛 Record Help	Welcome, weblogic Connected to: OFSLLREL_dom
iew changes and restarts	Home >Summary of Services >Summary of Services: JMS >Summary of J	MS Modules >Ofsil3MSModule
lo pending changes exist. Click the Release onfiguration button to allow others to edit the	Create a New JMS System Module Resource	
omain.	Back Next Finish Cancel	
Release Configuration	Choose the type of resource you want to create.	
omain Structure	Use these pages to create resources in a JMS system module, such	as queues, topics, templates, and connection factories.
FSLLREL_domain 0-Domain Perblions 0-Environment -Deployments 0-Services	Depending on the type of resource you select, you are prompted to stand-shore ourses and topics, connection factories, distributed ou to targeting pages for selecting appropriate server targets. You can mechanism for grouping 3MS module resources and the members t	e ester basic information for creating the resource. For largestable resources, like uses and logic, inforgin saverers, and JMS SAF destinations, you can be proceed i also associate largestable resources with subdeployments, which is an advanced b server resources.
Security Realms 3-Interoperability 3-Diagnostics	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 didiributed to only one consumer. More Infa
ow do I 🖂	© Topic	Defines a publicit/subscribe destination type, which are used for asynchronous peer communications. A message delivered to a topic is distributed to all topic consumers. More Info
Configure JMS templates Configure destination keys Configure topics	O Distributed Queue	Defines a set of queues that are distributed on multiple JMS servers, but which are accessible as a single, logical queue to JMS clients. More Info
Configure queues Configure connection factories Configure uniform distributed topics	O Distributed Tapic	Defines a set of topics that are distributed on multiple JMS servers, but which are accessible as a single, logical topic to JMS clients. More Info
Configure uniform distributed queues Configure foreign servers Configure JMS SAF	O Foreign Server	Defines foreign messaging providers or remote WebLogic Server instances that are not part of the current domain. More Info
rstem Status 🖂	© Quota	Controls the elicitment of system resources available to destinations. More Info
ealth of Running Servers as of 08:16 Failed (0)	Destination Sort Key	Defines a unique sort order that destinations can apply to arriving messages. More Info
Critical (0)	A IMS Templete	Defines a set of default configuration settions for multiple

Hame >Summery of Services >Summery of Create a New JMS System Module Re Back Next Finish Cancel JMS Destination Properties The following properties will be used to i Indicates required fields \* Namei OfsIIJMSQueue Messaging Data Sources Persistent Stores Foreign JNDI Provid Work Contexts -XML Registries -XML Entity Caches -JCOM Mail Sessions JNDI Nan ims/OfsIIJMSQu Template: None V lo I... higure quotes for desti-higure JMS templates higure destination keys higure topics higure pawies higure connection fact higure conform distribu higure conform distribu higure conform distribu higure 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	C Home Log Out Preferences A Record Help
View changes and restarts	Welcome, weblogic Connected to: OFSLLREL_domain
Pending changes exist. They must be activated	Home >Summary of Services >Summary of Services: JMS >Summary of JMS Modules >OfsIIJMSModule
to take effect.	Create a New JMS System Module Resource
Activate Changes	and a second because the second
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      Domain Partitions      Demonment      Deployments      Services	Use this page to select a subdeployment to assign this system module resource. A subdeployment is a mechanism by which 3MS resources are grouped and targeted to assave instance, cluster, or SAP separit. If rescassing, you can crease a new subdeployment by clicking the Create a New Subdeployment button. You can also reconfigure subdeployment targets later by using the parent modules subdeployment management page.
Messaging     Data Sources     Persistent Stores     Foreign JNDL Providers     Wark Contexts	Select the subdeployment you want to use. If you select (none), no targeting will occur. Subdeployments: OfglUJMSSD Create a New Subdeployment
XML Registries XML Entity Caches jCOM	What targets do you want to assign to this subdeployment? Targets :
How do I	1MS Servers
Configure quotas for destinations     Configure JMS templates	OfslJMSServer
Configure destination keys     Configure topics     Configure oueues	Back Next Finish Cancel
<ul> <li>Configure connection factories</li> </ul>	
<ul> <li>Configure uniform distributed topics</li> </ul>	
<ul> <li>Configure uniform distributed queues</li> </ul>	
<ul> <li>Configure foreign servers</li> </ul>	
Configure 3MS SAF	
System Status	

- 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 He	lp		2				
View changes and restarts						Welcome, weblogic Conr	nected to: OFSLLREL_don			
Pending changes exist. They must be activated to take effect.	Home >Summary Messages The JMS Que	Home >5ummary of Services >5ummary of Services: JMS >5ummary of JMS Modules > <b>OfsIUMSModule</b> Messages ✔ The JMS Queue was created successfully								
Undo All Changes	Settings for Ofsi	JMSModule								
Domain Structure	Configuration	Subdeployments	Targets	Security	Notes					
FSLIREL_domain 9-Domain Partitions 9-Environment 1-Deployments	This page displa and access exis	ays general informating resources.	tion about a	JMS systen	n module and its reso	urces. It also allows you to co	onfigure new resources			
- Security Realms	Name:		OfsIUMSModule			The name of this JMS system module. More Info				
D-Diagnostics	Scope:		Global			Specifies if the JMS system module is accessible within the domain, a partition, or a resource group template. More Info				
	Descriptor File	Name:	jms/OfslIJMSModule-jms.xml			The name of the JMS module descriptor file. More Info				
Iow do I E Configure quotas for destinations Configure JMS templates Configure destination keys Configure topics	This page summ connection fact forward parame	narizes the JMS reso ories, JMS template sters. s table	ources that h s, destinatior	ave been c n sort keys,	reated for this JMS s destination quota, di	ystem module, including queu stributed destinations, foreigr	e and topic destinations, servers, and store-and-			
Configure queues	New Delete					Showing 1	to 2 of 2 Previous   Next			
Configure uniform distributed topics	🔲 Name 🖚	Туре		i i	NDI Name	Subdeployment	Targets			
Configure uniform distributed queues Configure foreign servers	OfslUMSCI	Conne	ction Factory	t i	ms/OfsIIJMSCF	OfsIUMSSD	OfsIUMSServer			
Conference Mar Car	C OfellaMSO	0.000	23		me (Ofell 1ME Outputs	Ofellinisso	OfellIMEConver			

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

# 9.5 <u>Configure External Client Certificates</u>

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.

DRACLE' Enterpris	ie M	anager Fusion Middleware Control 12c					🔛 WebLogic Domain 🔻 weblogic	Ŧ
							Home	
WebLogic Domain v							Monitoring Diagnostics	
Servers		Administration Server					Control	
		Name Admin	Server				Logs	
3 up	1	Host mum0	Obzo in ora	icle com			Environment	
		Listen Port 7001	oozp.m.ora	icie.com			Deployments	
lusters		Servers					JDBC Data Sources	
0		View 👻 🎽 Create 🔀 Delete	Control 👻 🕎				Cross Component Wiring	
Clusters		Name	Status	Cluster	Machine	State	Web Services Other Services	
		AdminServer(admin)	+			Running	Administration	
eployments		OFSLL_ManagedServer	1			Running	Refresh Mehi oolo Domain	
		WS_ManagedServer	1			Running	Conuchu	
2 up	-				Security A Web Servi	dministration los Security n Policies	JNDI Browser System MBean Browser & WebLogic Server Administration Co	nsole
omain Partitions O Domain Partitions	÷				Application System Po	n Roles Dilcles	Target Sitemap Target Information	
C Resource Group Templates					Security P Audit Regi Credential	rovider Configuration Istration and Policy S		
					Keystore			
		4						
		Columna Hildda					Serve	ara 3 r

3. Click on 'Create Stripe'.

	A	CLE' Enterp	orise Manager Fusion	n Middleware Co	ontrol 120				🔣 WebLogic Domain 🔹	weblogic *	(***)
Jomain Keys	OFS COFS	SLLREL_domain WebLogic Domain LLREL_domain/OFS is a repository of keys a stripe, create a ke	KLREL_domain > Keysto     s and security certificates evotore within a strice ma	re . These are org	anized into namesp s in a keystore, cha	aces called "stripes". To wor	k with a stripe or a ke	ystore, select its ro	Apr 34 w in the table and select a n	0, 2019 7:55:25 AM ) nenu option. On thi	ist 🕹
View	v	+ Create Stripe	+ Create Keystore	X Delete	co Manage	/ Change Password	Detach				
Na	me		Prote	ection							
		system	n/a								
	-	0.055									



4. Enter the Stripe Name as 'OFSLL\_STRIPE'.



5. Click 'OK'. The following OFSLL\_STRIPE is created.

DRA	CLE <sup>®</sup> Enterpr	rise Manager Fu	ion Middleware Co	ontrol 120			Weblogic Domain + Weblogic +
OF:	SLLREL_domain	0					Apr 30, 2019 7:55:25 AM 15T 📲
1 Informa	ation						
The strip	pe OF SLL_STRIPE ha	as been created.					
omain_OFS	SLLREL_domain/OFSL	LREL_domain > Key	store				
eystore	e						
he Keystore ou can create	e is a repository of keys te a stripe, create a key	and security certifica store within a stripe,	tes. These are orga manage certificate	anized into namesp s in a keystore, oha	paces called "stripes". To work ange a keystore password, or	with a stripe or a keystore, delete a stripe or keystore.	select its row in the table and select a menu option. On this pag
View 👻	+ Create Stripe	+ Create Keyston	e 🗙 Delete	co Manage	/ Change Password	e Detach	
Name		Pr	otection				
1	system	n/a					
+ 💼	орье	n/a					
	OFSLL_STRIPE	n/a					
	OFSLL_STRIPE	nia					
	OFSLL_STRIPE	nia					
	OFSLLSTRIPE	nia					
	OFSLLSTRIPE	ni					

6. Select the newly created 'OFSLL\_STRIPE' and click 'Keystore'.



7. Enter the Keystore Name as 'OFSLL\_KSS' and click 'OK'.

OF 影	SLLREL_domain 💿 WebLogic Domain 👻							or 30, 2019 7:55:25 AM 15T 🖣
Informa The strip	ition be OF SLL_STRIPE has be	een created.						
xmain_OFS	LLREL_domain/OFSLLRE	EL_domain > Keystore						
e Keystore u can create	: Is a repository of keys and e a stripe, create a keystor	l security certificates. These are orgi re within a stripe, manage certificate	anized into names	aces called "stripes". To	work w	ith a stripe o	r a keystore, select its row in the table and select received to the table and select table and selec	ct a menu option. On this pag
new 🐨	+ Create Stripe +	Create Keystore 💥 Delete	oreate ney.	1012				
Name		Protection	Keystore Stripe	OFSLL_STRIPE				
1	system	n/a	Name					
+ 📖	ораа	n/a	* Keystore Name	OFSLL_KSS				
	OFSLL_STRIPE	n/a	Protection	Policy      Password	1			
			Keystore					
			Paseword					
			Confirm Password					
			Grant	-				
			Permission	10				
			Code Base URL					
					OK	Cancel		
			1					

8. Select 'OFSLL\_KSS' and click 'Manage'..

OF	SLLREL_domain	0						Arr 20 2016 0-01-02 AM 10	
	, see see see see see see see see see se							· · · · · · · · · · · · · · · · · · ·	50.0
main_OFS	LLREL_domain/OFS	LLREL_domain > Keysto	ire						
eystore									
e Keystore I Li can create	is a repository of keys a stripe, create a ke	s and security certificates ystore within a stripe, ma	. These are organ inage certificates	ilzed into namesp In a keystore, oha	aces called "stripes". To work nge a keystore password, or	k with a stripe or a keys delete a stripe or keyst	tore, select its row in the table ore.	e and select a menu option. On this	s pa
lew 👻	+ Create Stripe	+ Create Keystore	X Delete	👓 Manage	🥖 Change Password	Detach			
Name		Prote	ection						
1	system	n/a							
1	орье	n/a							
-	OFSLL_STRIPE	n/a							
	GFSLL_KSS	Policy	r						



### 9. Click 'Import'.

	ACL	_E' Enterprise	Manager Fusion Midd	lleware Control 1	120			KebLogic Domain 💌	weblogic *
Ξ		REL_domain 0	1 domain - Kaustore - 4	Janana Cartiller	for			Apr 30	, 2019 8:03:02 AM IST 4
ana		rtificatoe: OE		Centrica	lete				
gener ile and port th	ate a new I click "Ge e CA-sign	key pair (public and p inerate CSR'. After yo red certificate into the	private key) and wrap the p u create a CSR, send it to same keystore from which	public key into a o your CA who w inthe CSR was g	certificate sign (II verify your id jenerated.	ed by the Demo CA, lentity and return the	dlick "Generate Key signed certificate. T	ypair". To generate a Certificate Signing Request (CSR To import the CA signed certificate or trusted cert, click	), select a certificate fro Import. You can only
Aew 🗤	+	Generate Keypair	🚊 Generate C SR	🛓 Import	🚊 Export	🗙 Delete	🖌 Change Pase	word 🔐 Detach	
A	lias	Subject Name				Certificate Type	Serial Number	Certificate SHA1 Fingerprint	Expiration Da
Cen	ficates Fo	ound. Click on "Gener	ate Keypair' to create a C	ertificate.					

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	n <b>O</b>			Apr 30	2019 8:03:02 AM 15T 👈
/Domain_OFSLLREL_domain/OF	SLLREL_domain > Ke	ystore > Manage Certificates			
Manage Certificates:	OF SLL_STRIF	PE/OFSLL_KSS			
To generate a new key pair (public table and click "Generate CSR", A	c and private key) and lifter you create a CSR.	wrap the public key into a certificate signs send it to your CA who will verify your id	ed by the Demo CA, click "Generate Keypair". To general entity and return the signed certificate. To import the CA (	te a Certificate Signing Request (CSR) signed certificate or trusted cert, click i	, select a certificate from mport. You can only
Import the CA-signed certificate in	Import Certificate	rom which the CSR was generated.			
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			
		-			
		<ul> <li>Select a file that contains the Certific</li> </ul>	ate or Certificate Chain		
		* File Name	Choose File containing a valid certificate.		
		Choose File   root.cer			
		toological and the second		OK Cancel	



11. Click 'OK'.

# 9.6 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.

With Life L. domain OFSLLREL_domain CFSLREL_domain CFSLREL_SOURCE         Intel 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 sin State Service and manage their credential Store.         Intel Store Provider       Image: Store Is the CFSLREL_STORE STORE ST	Sep 16, 2017 3 51:40 PM II     Sep 16, 2017 3 51:40     Sep 1	Credential     Credential     Credential     Credential	i, Java EE, and ADF a tial Key Name	Sep 16, 2017 pplications. Applications can use the Credential	3-51-40 PM I
in_OFSLIREL_domain/OFSLIREL_domain > Credentials dentials intial 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 sin redential Store Provider	CPSLLREL_domain/OFSLLREL_domain > Credentials  Phtials  Itial 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 sing ated service provider to store and manage their credentials securely.  Credential Store Provider  Credential Key  Automatical  Credential Key  Credential  Credential Key  Credential  Credential Key  Credential  Cred	iin_OFSLLREL_domain/OFSLLREL_domain > Credentials dentials listual store is the repository of security data that certifies the authority of entities used by Java SE lidated service provider to store and manage their credentials securely. redential Store Provider v  ↓ Create Map ↓ Create Key ✓ Edit   Delete Creden Credential	tial Key Name	pplications. Applications can use the Credential	Store, a sing
dentials       redutations       initial scene	Initial Similar Simil	dentials       ential score is the responsion of security data that certifies the authority of entities used by Java SE index service provider to store and manage their credentials securely.       redential Store Provider       v     + Create Map       -+ Create Map       Credential	tial Key Name	pplications. Applications can use the Credential	Store, a sing
iential store is the repository of security data that certifies the suthority of entities used by Java SE, Java EE, and ADF applications. Applications can use the Credential Store, a sin distated service and manage their credentials securely. redential Store Provider *	tilal 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 sing detail Store Provider detail Store Provider	iential store is the repository of security data that certifies the authority of entities used by Java St diated service provider to store and manage their ordentials securely. redential Store Provider r	tial Key Name	pplications. Applications can use the Credential	Store, a sing
redential Store Provider	dential Store Provider	redential Store Provider       v *     + Create Map     + Create Key     Edit     Delete     Creden       Credential	tial Key Name	▶ 📷 Detach	
v • + Create Map     + Create Key     / Edit × Delete     Credential Key     > in: Detach       iredential     >     -     Type     Description		v v Create Map + Create Key / Edit X Delete Creden	tial Key Name	▶  Detach	
Credential     Type     Description       Image: Statistic state stat	edential <table-cell>     Description     ofsil. http://sistener.jndi</table-cell>	Tredential v			
ofsil. http://stener.jndi	ofsil. http://istener.jndi		Туре	Description	
		ofsll.http.listener.jndi			

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

JI-VALLE Inte	spectrum Dilaurangears	AND DESCRIPTION OF A DE		Weil WorksLaught Decreval	www.www.www.www.www.www.www.www.
E Viete Courte Derrotation					. 18. 2017 3-51-40 PM IST -8
redentials oredential store is the reposito F. Greatential Store Provider	ox.el.moralx.retr./tml.	ogunalite.cultorik: slecille: ~-		apphosbons. Apphosbons .	on use the Gredential Store
View Create Mag	-0- Create Hay		All reaches a block the pr		Detaute
Credential	Oreste Mags				
	-	Wage Manveer advallars becomme			

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

Createrial Sons Provider  Createrial Sons P		prise Manag	er Fusion Middleware Control 12o	🕌 WebLogic Don	nain v weblogic v
Offerension The credential set y shift has been created.       Credentials Credentials > Credentials > Credential > Credent	CFSLLREL_domain	n 0 *			02-May-2018 07:30:18 EDT
Concernation Conce	Information The credential key, sdfsf, ha	as been created	L.		
Credentials     Credenty loss     ** Key loss, size loss     ** Credential Store Provide     ** Credential Store Provide     ** Credential Store Provide     ** Key loss, size loss     ** Credential Store Provide     ** Key loss, size loss     ** Key loss, size loss, size loss     ** Key loss, size l	Domain_OFSLLREL_domain/OF	SLLREL domain	> Credentials		
Acederal and interview	Credentials	Create Key		×	
Credental Jose Revolar Var	A credential store is the repositor consolidated service provider to a	Select Map	ofsilint.bureau 🔻		e Credential Store, a single
Ver +	Credential Store Provider	* Key	jdbc_ds_key		
Createrial  Personation  Description  Descr	View 👻 🕂 Create Map	Type	Generic Y		Detach
delinitoria inserii     delinitoria starii      Ener na starii Ener mag of properly name and suble pairs     Credential (doc Quadebools     delinitoria)     (	Credential	Description	Queve App Datasource		
eliter breve     e Enerals text © Enering of properly name and value pairs     Condential _aborDownAdoDS     eliter and on the pairs     (	ofsil.http://stener.jr			h.	
*Credential (do:ClausedopOR	otsilant bureau		Enter as text ③ Enter map of property name and value pairs		
( OK Caner		* Credential	jdbo'QueueAccDS		
<					
Conceller					
K Cancel d		_			
		4		OK Cancel	
				A manual statement	

- 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 availa- ble.
ofsll.int.co mmon		This map is used to setup keys for common JMS Queue
	OfslIJMSQueueJNDI	The JMS queue JNDI name to be configured
	OfslIJMSQueueCF	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>
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.

ORACLE Enterprise Manager Fusion Middleware Control 12c	👫 WebLogic Domain 🔻 🛛 w	eblogic 🐨	(444)
Domain OFSILIREL domain  OFSILIREL  OFSI	Sep 16, 2017 4	4:00:38 PM IS	er eo
System Bolicies			
System Policies are the system-wide policies applied to all applications deployed to current management domain. It codebase.	ou can grant special permissions and privilege	s to principa	l or
Policy Store Provider			
Search			
Select a grant type and enter search keyword for codecase or principal to query system security grants. Type Codebase			
Name Starts With			
View 🔻 📔 Create Like 🗡 Edit 💥 Delete	E <del>ş</del>	m Deta	ich
Name			
No security policies found.			

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

Contraction     Contracti	DRA	CLE Enterprise Manager Pusion Middleware Control 120	WebLog	is Domain 👻 🕴 weblogis 👻	1.000
Constraint     Office       Constraint     Office       Constraint     Constraint       Constraint		SLLREL_domain 💿 WebLogic Domain 👻		5ep 16. 2017 4:03:48 PM I	5T @
and a for loss of basis of years of years provide and	reate R	CLEACE admain OF SLETCEL admain > System Follows > Create System Oran		or	
Grant To Codebase & Res Storman Shir/Grant Common CSP jar missions new +	here are two sers or roles. lative path.	different types of system policies supported by application server: principal policy and codet . Codebase policy grants permissions and privileges to a codebase, which is mostly URL or i	ase policy. Principal policy grants p ocation of jar file in file system. Cod	ermissions and privileges to a li lebase can be either absolute pr	st of
Codebase Re-Schmain home)/Ib/Ofsit/Common/CSP jar ministaina view Add / Edit_ >< Debata_ III Debata Permitsaiona solded. Permitsaiona solded.	Grant To	Codebase			
vriestons View Add - Colt	Codebase	file:5(domain.home)/lib/OfallCommonC5F.jar			
View Add / Edit Codete Codete Codete Codete Codete Codete Codete Codete Codete	ermissions				
Permitation Class Permitation Autions bio permitations added.	view -	+ Add Z Edit X Delete in Detach			
lo permissiona addeed					
	Permiss	sion Class	Resource Name	Permission Actions	
	Permission 40 permission	sion Class	Resource Name	Permission Actions	
	Permiss No permissio	No Class	Resource Name	Permission Actions	
	Permiss lo permissio	sion Class ms added.	Resource Name	Permission Actions	
	Permissio	ten Class	Resource Name	Permission Actions	
	Permiss to permission	tion Clase me added	Resource Name	Permission Actions	
	Permiss No permissio	na edae	Recourse Name	Permission Actions	
	Permiss No permissio	sion Classe ms added.	Resource Name	Permission Actions	
	Permiss Vo permissio	nns added.	Resource Name	Permission Actions	
	Permiss No permissio	ten Class ma added	Resource Name	Permission Actions	
	Permiss to permission	nns added.	Fecours Name	Permission Actions	
	Permiss Vo permission	ean Class ms added	Freedore Manue	Permission Actions	

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


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

Create System	Add Permission						-	ок	Cance
here are two different sers or roles. Codeba elative path.	Select from permissions and reso	urces used in syst	tem policies	of this d	omain. Enter search criteria to searc	h for right pe	rmissions.	rivileges t her absolu	o a list of ite path or
Grant To Codeb Codebase file:S(c ermissions View + Adr	Type Name Permission Search Results	Codebase		>					
Permission Cla	Name		Туре		Permission			ion Actio	ons
No permissions adde	No permissions found.								
	Select here to enter details for a	a new permission	• 🗹						
	* Permission Class	oracle.security.j	ps.service.ci	redstore.	CredentialAccessPermission				
	Resource Name	context=SYSTE	M,mapNam	e=ofsII.in	t.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
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'.



## 9.7 Deploy MDB EJB

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





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

							2 -	Auto Befresh Off
WebLogic Domain 👻								Sep 26, 2017 8:15:37 PM IST
Information Certain functionality on this page	je is av	vailable only when you own the edit sess	ion lock. 1	ro obtain th	ne lock, click	"Lock and	Edit" in the Chang	je Center menu.
Servers	1	Administration Server						
<b>3</b> Up	•	Name AdminServ Host ofsil.in.orac	er le.com					
Clusters		Listen Port 9001 Servers						
0	Þ	View 👻 🔡 Create 🛛 🗙 Delete	Contro	- E7				
Clusters		Name	Status	Cluster	Machine	State	Health	Listen Port
		AdminServer(admin)	+			Running	OK	9001
		OFSLL_ManagedServer	+			Running	OK	9003
Deployments		WS_ManagedServer	+			Running	OK.	9004
<b>3</b> Up	Þ							
Domain Partitions								
0								
0 Domain Partitions	Þ							

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						-	Edit Sessions	Off
Information Certain functionality on this page is	available only when you own the edit sessio	on lock. T	'o obtain ti	ne lock, click	"Lock and	Edit" in t	Look & Edit View Change List	6
Servers 3 up	Administration Server Name AdminServe Host ofsl.in.orack Listen Port 9001	r e.com					View & Resolve Conflicts Release Configuration Activate Changes Undo All Changes View Restart Checklist	
Clusters	Servers View • Create Delete	Control					Preferences Help	_
Clusters	Name	Status	Cluster	Machine	State	Health	Listen Port	
	AdminServer(admin)	+			Running	OK	9001	
	OFSLL_ManagedServer	+			Running	OK	9003	
Deployments	WS_ManagedServer	1			Running	OK	9004	
Oomain Partitions								
Domain Partitions								
0								

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

OFSLLREL_domain    WebLogic Domain									🔒 👻 🔛 💌 Auto Sep 16, 2017	Refresh Off
Confirmation The edit session lock has been a	cquire	d. No pen	ding changes e	xist						
Servers	D	eployme	ents							
	2	View +	Show All	Deployment + Override	-	Control	÷			
3 up			Name	18 Deploy	~	Status	State	Health	Туре	Domain Pa
			opss-rest	E Redeploy	63	+	Active	OK	Web Application	
Clusters										
Clusters Deployments 1 up										
Clusters Deployments 1 up Domain Partitions										
Clusters Deployments 1 up Domain Partitions										
Deployments 1 up Domain Partitions Domain Partitions										



6. The following window is displayed.

FSLLREL_domain 🕦					
•					
Select Archive Select Target Application Attributes Deployment Settings					
Deploy Java EE Application: Select Archive		Back	Step 1 of 4	Next	Cance
Scope		1	Informatio		1
Select a scope that you want to deploy this application to Global <b>▼</b> Archive or Exploded Directory Jord Calculations, Velb Modules (ARA Res), EJB Modules (EJB JAR Res), Resource Adapter Modules (RAR Res), Coherence Archives to Jord Calculations, Velb Modules (ARA Res), EJB Modules (EJB JAR Res), Resource Adapter Modules (RAR Res), Coherence Archives to Jord Calculations, Velb Modules (ARA Res), EJB Modules (EJB JAR Res), Resource Adapter Modules (RAR Res), Coherence Archives to Jord Calculations, Sector (Archives), Sector (Archi	GAR files). server	Use App Era If yo Cor	a this page to lications that tadata Servic a advantage o plication Deve mework (Ora our applicatio nposite, use t mposite deplic	deploy J require C es (MDS) of the Ora lopment cle ADF). n is a SO he SOA byment wi	A zard.
Choose file OfsiQueueApp ear		If ye con MD con	our application posite or it d S repository inections, the	n is not a ces not n or ADF n you car	SOA quire a
	rowse	or t Adr	he Oracle We ninistration C	onsole.	erver
Leptoyment Plan The dealoyment plan is a file that contains the deployment settings for an application. You can use a previously saved deployment plan for the dealoyment plan, is a file that contains the deployment settings for an application. You can use a previously saved deployment plan for do not have a deployment plan, one will be created automatically during the deployment process when deployment configuration is done. © Deployment plan is not applicable when you deployment configuration is done. © Deployment plan is on the machine where this Web browser is running.	this tion. If you he				
Choose file No file chosen O Deployment plan is on the server where Enterprise Manager is running.					

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

	chive Select Target Apj	Deployment Settings		
ploy	Java EE Application: Select	Target	Back Step 2 of 4 Next C	ance
lelect th	e WebLogic server or cluster that you wa	nt this application to be deployed to.		
Select	Name	Туре	Deployed Applications	
6028	AdminServer	Oracle WebLogic Server	642	
100	OFSLL_ManagedServer	Oracle WebLogic Server	600	
100	VVS ManapedServer	Oracle WebLogic Server	<b>600</b>	
	4			
	-			•
	-			
	4			

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

JESLEKEL dom	ain 🐽											
0-		<u> </u>	-									
Select Archive	Select	Target	Application Attributes	Deployn	nent Settings							
Deploy Java	EE Applica	ation: App	lication Attribu	utes				Back	Step 3 of 4	Next	Deploy	Cano
A Hide Deploym	ent Summary											
	Archive Type	Java EE Applica	ation (EAR file)									
De	ployment Plan	Create a new pla	an									
Depl	loyment Target	OFSLL_Manage	edServer									
	Scope	Global										
6.00												
De	ployment Type	Application										
Dej	ployment Type	Application OfsIIQueueAp	9P.:									
Dej * A Distribution	ployment Type	Application OfsIIQueueAp distribu succes targets	op. oplication source files a uted to the deployment sful, the application is 6.	nd deployms targets. If di then started	ant plan are stribution is on each of the							
Dej * A Distribution	ployment Type	Application OfsIIQueueAp distribu succes targets	pp oplication source files a uted to the deployment sful, the application is fistart application (servi	nd deployms targets. If di then started cing all requ	ent plan are stribution is on each of the ests)							
Dei * A Distribution	ployment Type	Application OfsilQueueAp The ap distrib succes targets () Install and () Install only	pplication source files a uted to the deployment sful, the application is a start application (servi (start application in adi > Do not start.	nd deployms targets. If di then started cing all requ ministration r	ant plan are stribution is on each of the ests) node (servicing	nly administration	on requests)					
Dei	ployment Type	Application OfsliQueueAp Thistibu succes © Install and © Install and © Install only	op polication source files a uted to the deployment source application is signification (servi start application (servi start application in adv v. Do not start.	nd deployme targets. If di then started cing all requ ministration r	ent plan are stribution is on each of the ests) mode (servicing	nly administration	on requests)					
Distribution	ployment Type Application Name <b>ns</b>	Application OfsilQueueAp The ap distribu succes © Install and © Install and © Install only	op polication source files a uted to the deployment source application is start application (servi i start application (servi i start application in adi v. Do not start.	nd deployms targets, if di then started cing all requ ministration r	ant plan are stribution is on each of the eats) node (servicing	only administration	on requests)					
Distribution	ployment Type (pplication Name ns © Use the defaul	Application OfsilQueueAp distribution Install and Install and Install and Install only	p pplication source files a used to the deployment skul, the application is start application in add , Do not start.	nd deployms targets. If di then started cing all requ ministration r Recommeni	ant plan are stribution is on each of the ests) mode (servicing ded selection.	nly administration	n requests)					
De: A Distribution Application Accessibility	ns © Use the defaul © Copy this appli	Application OfsIIQueucAp distribution Install and Install and Install and Install and	p) pplication source files a set to the deployment the september of the september start application (servi start application (servi start application (servi start application (servi start application (servi start application (servi start application (service)) of the service (service) (service) (service) (service) (service) (service) (service) (service) (service) (service) (service) (service) (service) (service) (service) (service) (servic	nd deployms targets, if di then started cing all requ ministration r Recommeni ment, the file	ant plan are stribution is on each of the ests) mode (servicing ded selection. as will be copied	inty administration	In requests)	ervers to	which the ap	plication	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 🕕																			
Select Archive :	Select Target	Applicat	on Attributes	2	D	eployr	ment	Settir											
Deploy Java EE App	olication: D	eploym	ent Settin	ng	gs									Back	Step	4 of 4	Next	Deploy	Cance
d Hide Deployment Summa	ry .																		
Archive T	pe Java EE App	lication (EA	R file)																
Deployment P	tan Create a nev	v plan																	
Deployment Tar	get OFSLL_Mar	agedServe																	
So	ope Global																		
Deployment T	pe Application																		
Application Na	me OfsliQueueA	pp																	
Vers	ion Not versione	d																	
Deployment Me	ode Install and st	art applicat	on (servicing a	all r	req	(uests)													
Deployment Tasks The table below lists common	tasks that you ma	y wish to do	before deploy	ying	ng th	he appl	licatio												
Name	Go	To Task	Descriptio	on															
Configure EJBs		/	Configure t	the	e Er	nterpris	se Jav	va Bea	ans in y	your app	lication	<b>1</b>							
Configure Application Securi	SA	/	Configure a	app	plica	ation p	policy i	migrat	ition, or	edentia	I migrat	lon an	d other se	eourity b	ehavior				

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

Deploym	ent Succeeded	
Deployment o to activate or i	Application "OfsilQueueApp" is completed. The deployment changes are pending activation. Exit the wizard and us Indo the changes.	e the Change Center
Summary		
	Scope Global	
	Version Not versioned	
Deployed	Archive /u01/Middleware/Weblogic12cHome/user_projects/domains/OFSLLREL_domain/sysman/upload/deploy/OfsllQueu .coation OfsllQueueApp.ear	eApp/archive/
Arch	ive Type Java EE Application (EAR file)	
Deployme	nt Mode Install and start application (servicing all requests)	
Deployme	nt Target OFSLL_ManagedServer	
Applicatio	n States Unavailable (OFSLL_ManagedServer)	
Hide Prog	ress Messages	
[16 Septi [16 Septi OfsIQue [16 Septi occurs] (16 Septi	imiter 2017 13:48.07 clock IST] Initiating deploy operation imiter 2017 13:48.07 clock IST] and the craits configuration changes to archive. imiter 2017 13:48.08 clock IST] Archive: //dl/Midleware/Weblogit 22-Home/user_projects/domains/OFSLLREL_domain/s //dl/2017 13:48.09 clock IST] Archive: //dl/Midleware/Weblogit 22-Home/user_projects/domains/OFSLLREL_domain/s //dl/2017 13:48.09 clock IST] Archive: //dl/Midleware/Weblogit 22-Home/user_projects/domains/OFSLLREL_domain/s //dl/2017 13:48.09 clock IST] Deploy control in the deployer tool without affecting the task.	rsman/upload/deploy/ rated. When this
20		Clo

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. Configuring Oracle Analytics Publisher for Application

- 1. Copy the OfsllCommonCSF.jar from /WEB-INF/lib available in the staging area to \$DOMAIN\_HOME/lib
- Update the setDomainEnv.sh file (\$MW\_HOME/user\_projects/domains/mydomain/bin directory) by appending the above jar file path – EXTRA\_JAVA\_PROPERTIES="...... \${EXTRA\_JAVA\_PROPERTIES}
   -Dofsll.csf.path=\${DOMAIN\_HOME}"
- 3. Configure Security via EMconsole

#### Note

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

0	FSLLREL_domain 😗					2	• 🖬	Auto Refresh Off	-
	WebLogic Domain 👻						s	ep 21, 2017 8:36:59 AM IST	t
Infc	Home	an traction that will approximate to be 7		a last slist		California ana	Character Car		0
Cen	Monitoring	en you own the edit session lock. I	o obtain ti	IE IOCK, CIICA	LOCK and	Edit in the	change cer	iter menu.	
erve	Diagnostics	on Server							
4	Logs	Name AdminServer							
	Environment	Security Realms							
-	Deployments	Security Administration							
lust	JDBC Data Sources	Web Service Security							
	Messaging	Application Policies	Eş						
	Cross Component Wiring	Application Roles	uster	Machine	State	Health	**	Listen Port	
	Web Services	System Policies			Running	OK		9001	
	Other Services	Security Provider Configuration			Running	OK		9003	
epic	Administration	Audit Registration and Policy			Running	OK		9004	
	Refresh WebLogic Domain	Credentials	N						
	Security	Keystore	13						
	JNDI Browser								
oma	System MBean Browser								
	Target Sitemap								
	Target Information								



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

Credential Store Provider      wr V Credential Key     Name     Credential Key	OFSILEREL domain      Sep 21.     Sep	. 2017 8:58:42 AM IST ential Store, a single,
main_OPSLIREL_domain/OPSLIREL_domain > Credentials edentials edentials edential store is the recording a store is the record a sto	main_OFSLLREL_domain/OFSLLREL_domain > Credentials  *definitials  redential 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 Crede solidated service provider to store and manage their credentials securely. Credential Store Provider	ential Store, a single,
edential store is the repository of security data that certifies the authority of entities used by Java SE, Java SE, and ADF applications. Applications can use the Credential Store, a single Credential Store Provider erv   Credential Store Provider	edentials redential 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 Credit solidated service provider to store and manage their credentials securely. Credential Store Provider	ential Store, a single.
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 solve and manage their credentials securely. Credential Store Provider Store Provider Store Provider Store and manage their credentials Store, a single solution of the solution	redential 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 Cred isolidated service provider to store and manage their credentials securely. Credential Store Provider	ential Store, a single.
Credential Store Provider  ew  for Credential Key  Amme  Credential Key  Mame  Description  For ofsil.htp.listener.jdi  for ofsil.htp.listener	Credential Store Provider	
ew v Create Map + Create Key / Edit. X Delete Credential Key Name Credential ofsil http://stener.jndi ofsil http://stener.jndi ofsil int.bureau		
Credential     Type     Description <ul> <li>ofsli http://stener.jndi</li> <li>imodellint.bureau</li> </ul> <ul> <li>ofsli http://stener.jndi</li> </ul> <ul> <li>ofsli http://stener.jndi</li> <li>imodellint.bureau</li> </ul> <ul> <li>Description</li> </ul>	New + Create Map + Create Key / Edit. Delete. Credential Key Inc. Delete.	
<ul> <li>ofsil http://stener.jndi</li> <li>ofsil int.bureau</li> </ul>	Credential Type Description	
ofsl int bureau	> ofsil.http.listener.jndi	
	> ofsll.int.bureau	

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

OFSLLREL domain	se Manager	Fusion Middleware Control 12c		ACL WEBCOMENT & WEBBUR #
WebLogic Domain +				Sep 21, 2017 8:58:42 AM IST 4
omain_OFSLLREL_domain/OFSLL	REL_domain > (	Credentials		
redentials				
credential store is the repository of a	security data that	t certifies the authority of entities us	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 X Delete	Credential Key	Detach
Credential			Type	Description
▶ m ofsil.http.listener.jndi	Create Map	)		
ofsil int bureau	A credential is the name of a such as the cr	s uniquely identified by a map name name and all credentials wit redentials used by the application. A * Map Name of all int secu	and a key name. Typically, the ma the same man prame define a logi Ni map names in a credential store rity ×	p name corresponds with an approver the second seco

6. Click 'OK'.

E OFSLL	REL_domain +	0					Sep 21.	2017 8:58:42 AM 19	ST 🔹
Informatio	n								2
The creden	tial map, ofsll.int	t security, has bee	en created.						
main_OFSLLF	REL_domain/OFS	LLREL_domain > 0	Gredentials						
edentials	5								
redential store	is the repository	of security data that	t certifies the authority of entities use ir credentials securely.	ed by Java SE, Java I	EE, and ADF ap	oplications. Applicati	ons can use the Crede	ential Store, a sing	ila.
Credential S	tore Provider								
ñew	Create Map		/ Edit × Delete	Credential Key		Þ	Detach		
Credential		5		Name	Туре	Descripti	on		
> of	sll.http.listener.jnd	fi -							
> _ of:	II.int.bureau								
con of:	I.int.security								

7. Click 'Create Key' Button.



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

ORACLE' Enter	prise Manager Fusion Mid	lleware Control 12c	KebLogic Domain	* weblogic *
OFSLLREL_domai	n <b>O</b>		Sep	21, 2017 8-58-42 AM IST
Information     The credential map, ofsll.i	nt.security, has been created.			
Domain_OFSLLREL_domain/OF	Create Key		×	
voedential store is the repositor orcalidated service provider to s Credential Store Provider View + Create Map Credential P ofslintp.istener j P ofslint bureau ofslint security	Select Map * Key Type * User Name * Password * Confirm Password Description	ofall int security  bip_key Password weblogic BIP usemame and password	-+ c Ci	redential Store, a single
			OK Cancel	

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

OFSLLREL_domain @					Sep	21. 2017 8:58:42 AM 151	
Information	been created						0
omain OFSLLREL domain/OFSLLR	EL domain > Credentials						
redentials							
oredential store is the repository of se nsolidated service provider to store ar Credential Store Provider	ourity data that certifies the and manage their credentials s	uthority of entities use eourely.	ed by Java SE. Java	EE. and ADF ap	plications. Applications can use the C	Credential Store, a single	4
View Create Map C	Create Key 📝 Edit	>< Delete	Credential Ke	2	▶ [iii] Detach		
Credential				Туре	Description		
ofsil http.listener.jndi							
ofsll.int.bureau							
ofsll.int.security							



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

te (	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	the authority of entities used by Java ials securely	SE,	Java EE, and ADF	applications. Appl	ications can use the Crede	ential Store, a sing	le,
▶ Crec	Environment		Security Realms						
View 1	Deployments		Security Administration		al Key Name		▶ 🔐 Detach		
Cre	JDBC Data Sources		Web Service Security		Type	Desci	ription		
Þ	Messaging		Application Policies						
	Cross Component Wiring		Application Roles						
	Web Services		System Policies	N					
	Other Services	÷.	Security Provider Configuration	13					
	Administration	<u>э</u> ь.	Audit Registration and Policy						
	Refresh WebLogic Domain		Credentials						
	Security		Keystore						
	JNDI Browser								
	System MBean Browser								
	WebLogic Server Administration Console								
	Target Sitemap								
	Target Information	- 1							

#### 11. Click 'Create'.

	Manager Fusion Mid	dieware Control 12c	🕷 WebLogio Domain 👻	weblogio -
CFSLLREL domain			Sep 16, 7	2017 4:00:38 PM IST
Domain_OFSLLREL_domain/OFSLLRE	domain > System Pol	lioles		
ystem Policies				
ystem policies are the system-wide poli- odebase.	cies applied to all applic	ations deployed to current management	ent domain. You can grant special permissions and priv	rileges to principal or
Policy Store Provider				
d Search				
elect a grant type and enter search key	word for codebase or pr	incipal to query system security grant	tm.	
Type Codebase				
Name Starts With	~	▶		
View + Create, E Cre	ate Like/ Edit			Detach
-				
~				
Name				
No security policies found.				

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

	The vest-sele Demain of Weblogic of the
OTSLUTEL_domain C	
reate System Grant	
state bar of a server and a state of the server of the ser	and podebase policy. Principal policy grants permissions and privileges to a fire of users or roles on of lar file in the system. Codebase can be either absolute path or relative path.
Grant To Codebase	
Codebase file:3(ofsil.csf.path)/lib/OfsilCommonCSF.jar	
armissions.	
View Adg / Edit. >C Delete in? Detech	
Permission Class	Resource Name Permission Actions
Yo 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
There are two different types	Add Permission						es to a list of u	sers or roles.
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		•					
Grant To Codebase * Codebase file 5(ofs): c ermissions View + + Add Permission Class No permissions added	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.

Set Statistics_descents •	The second secon
Senses       Create System Create       System Package S Create System Orant         Senses       Create System Create System Create System Package S Create System Orant         Break as two different types of system applications supported by applications server, principal policy, and packages policy. Principal policy grants permission and privile different types of System Create	OK Cane ages to a list of users or role r relative path.
Sreade System Grant Markan Rossing Stand Band Alanta Asphilla are to the Arabita Stand y Unit " Politik on Spir Nem Astron. Sind and and a stand son a same son a band Grant To Contenses of Contenses ( in a Softward Party Mix-Otel Common CSF jar	OK Cane ages to a list of users or role r relative path.
hann als hou different plans of system gebruise supported by applications in the system by a different spin and system gebruise supported by applications of the system of the system by a different spin and system of the system	eges to a list of users or role r relative path.
Generation Codebase [] Codebase [Ris 2(ofell.of.path)/Ib/OfellCommonCSF.jar	relative parts.
Codebase file:S(ofsil.csf.path)/lb/OfsilCommonCSF.jar	
emissions	
View - + Add / Edit X Delete 🕅 Detach	
Permission Class Resource Name I	ermission Actions
oracle.security.jps.service.credstore.CredentialAccessPermission context=SYSTEM.mapNam r	ead
oracle.security.jps.service.credstore.CredentialAccessPermission context=SYSTEM.mapNam r	Westingte Damain      vestingte
	e3d



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

act web	Logic Doma	an +					Sep 21,	2017 9:18:01 AM I	ST C
Information A new security	<b>1</b> ity grant ha	as been added succes	sfully.						0
Domain_OFSLLRI	EL_domain	/OFSLLREL_domain >	System Policie:	5					
ystem Poli	cies								
ystem policies are	e the system	n-wide policies applied	to all application	ns deployed to curre	nt management domair	n. You can grant special	permissions and privileges to pr	incipal or codebas	ie.
Policy Store F	Provider								
Search									
elect a grant type	and enter s	search keyword for cod	ebase or princip	al to query system s	ecurity grants.				
	Туре	Codebase	~						
	Name	Starts With		•					
View 👻 🕍	Create	🖹 Create Like	/ Edit	🗙 Delete				🖙 🔝 Det	ach
1									
Name									
No security policie	es found.								



# **11. 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'.

OFSLLREL_domain Demonship Partitions Deployments Dervices	You che To Cu Dep	u can update (re ickbox next to th install a new ap stomize this ta ployments	deploy) ( ne application plication able	or delete i ation nam or module	nstalled appli e and then us e for deploym	cations and modules fror sing the controls on this j ent to targets in this don	n the dom page. nain, click	ain by selecting the	
	Ins	stall Update	Delete	2			Showing	1 to 6 of 6 Previous	Next
		Name 🚕	State	Health	Туре	Targets	Scope	Domain Partitions	Deplo
How do I	۵	Coherence- transaction- rar	Active	🖋 ок	Resource Adapter	AdminServer, OFSLL_ManagedServer, WS_ManagedServer	Global		100
Install an enterprise application     Configure an enterprise application     Update (redeploy) an enterprise application		DMS Application (12.2.1.1.0)	Active	🖋 ок	Web Application	AdminServer, OFSLL_ManagedServer, WS_ManagedServer	Global		5
<ul> <li>Monitor the modules of an enterprise application</li> </ul>		🗉 📑 em	Active	🖋 ОК	Enterprise Application	AdminServer	Global		400
Deploy EJB modules     Install a Web application	•	ofsli149 (V14.9.0.0.0- b106)	Active	🖋 ок	Enterprise Application	OFSLL_ManagedServer	Global		100
Health of Running Servers as of 5:07 AM		💌 👩 opss- rest	Active	🖋 ОК	Web Application	AdminServer	Global		150
Failed (0)           Critical (0)           Overloaded (0)           Warning (0)	0	State- management- provider- memory-rar	Active	🖋 ок	Resource Adapter	AdminServer, OFSLL_ManagedServer, WS_ManagedServer	Global		100
OK (3)	Ins	stall Update	Delete	è			Showing	1 to 6 of 6 Previous	Next
	•								F

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.

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

4. After successful login, the following screen is displayed

SEARCH MENU	66		
DashBoard			
I DashBoard DashBoard Users Productivity System Monitor Producer Analysis Process Files		Warning × You have previous open logins. (5Y5-5Y5-SY5-00005)	
> Origination			
Servicing			
> Collections			
> WFP			
> Tools			
Setup			

