Payments Weblogic JMS Configuration Oracle Banking Payments Release 14.7.4.0.0 [June 2024]



Table of Contents

1. INT	RODUCTION	1
1.1	PURPOSE	1
1.2	INTRODUCTION	
1.3	WEBLOGIC 12C NEW FEATURES	
1.4	COMPONENTS DIAGRAM & DATA FLOW	3
2. PR	E-REQUISITES	4
2.1	MACHINES	. 4
2.2	DYNAMIC CLUSTERS AND MANAGED SERVERS	4
2.3	DATASOURCE	5
2.4	Shared Folder	5
3. JM	S CONFIGURATION	6
3.1	PERSISTENCE STORE CREATION	. 6
3.2	JMS SERVER CREATION	
3.3	CLUSTER CONFIGURATION FOR SERVICE MIGRATION	10
4. JM	S MODULE CREATION	11
4.1	Module Creation	11
4.2	SUB DEPLOYMENT CREATION	
4.3	RESOURCE CREATION	. 15
4.3.		
4.3.	2 Connection Factory Creation	18
5. SEI	RVER RESTART	21
6. FO	REIGN SERVER CREATION	23
6.1	MODULE CREATION	23
6.2	FOREIGN SERVER CREATION	. 25
6.3	FOREIGN SERVER CONFIGURATION	29
7. AP	PLICATION DEPLOYMENT	33
8. FRI	EQUENTLY ASKED QUESTIONS	34
8.1	APPLICATION AND JMS CLUSTER DEPLOYED ON SAME CLUSTER	34
8.2	APPLICATION SHOWS WARNING UPON RESTART OF MANAGED SERVERS	
8.3	SECURING FILE STORE DATA	35
8.4	T3S PROTOCOL	
8.5	HOW TO TEST THE DEPLOYMENT	
8.6	INCREASE MAXIMUM NUMBER OF MESSAGE-DRIVEN BEAN THREADS	
8.6.		
8.6. ° 7	0	
8.7 8.8	How High Availability is achieved How to setup for Scheduler/Notifications	
o.o 8.9	WHAT OTHER MODULES USES JMS QUEUE'S	
8.10	REFERENCES	
0.10	·····	~~

1. Introduction

1.1 <u>Purpose</u>

The purpose of this document is to explain the steps required for JMS Configuration in cluster mode for

- 1) FCUBS 12.1
- 2) WebLogic Server 12.1.3.0.0

1.2 Introduction

Below is brief description on major components in Weblogic JMS Server architecture

JMS Server

JMS server acts as management container for JMS queue and topic resources defined within JMS modules that are targeted to specific that JMS server. A JMS server's main responsibility is to maintain persistent storage for these resources, maintain the state of durable subscriber and etc. JMS servers can host a defined set of modules and any associated persistent storage that reside on a WebLogic Server instance

JMS Module

JMS modules are application-related definitions that are independent of the domain environment. JMS modules group JMS configuration resources (such as queues, topics, and connections factories). These are outside domain configuration. JMS modules are globally available for targeting to servers and clusters configured in the domain and therefore are available to all the applications deployed on the same targeted. JMS modules contain configuration resources, such as standalone queue and topic destinations, distributed destinations, and connection factories.

Subdeployment

Subdeployment is also known as Advanced Targeting. Subdeployment resource is a bridge between the group of JMS resources and JMS Servers. When you create a JMS resource you need to choose one Subdeployment.

JMS Resources

- 1) **Queue** defines a point-to-point destination type, which are used for asynchronous peer communications. A message delivered to queue is distributed to only one customer.
- 2) **Topic** defines a publish/subscribe destination type, which are used for asynchronous peer communication. A message delivered to topic is distributed to all topic consumers
- 3) **Distributed queue** defines a set of queues that are distributed on multiple JMS servers, but are accessible as a single, logical queue to JMS clients
- 4) **Distributed topic** defines a set of topics that are distributed on multiple JMS servers, but which as accessible as a single, logical topic to JMS clients.

5) **Uniform Distributed Queue**: queue members are created uniformly from a common configuration.

Persistence store

A persistent store provides a built-in, high-performance storage solution for weblogic server subsystems and services that required persistence. There are two type of mechanism to store the message

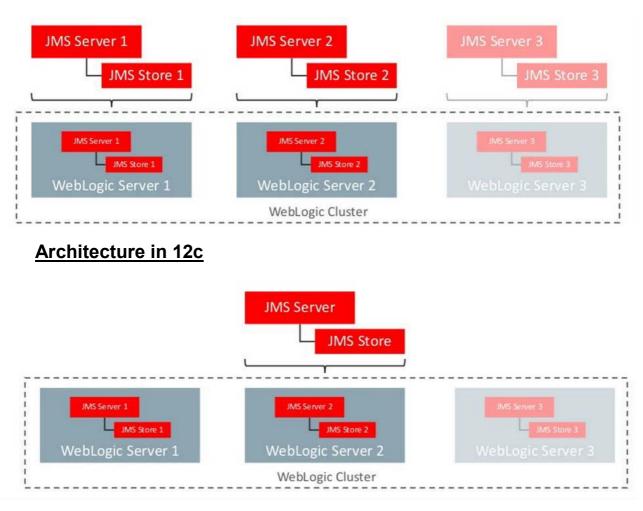
- 1) File based persistence store -> Message is stored in a file
- 2) DB based persistence store -> Message is stored in Database.

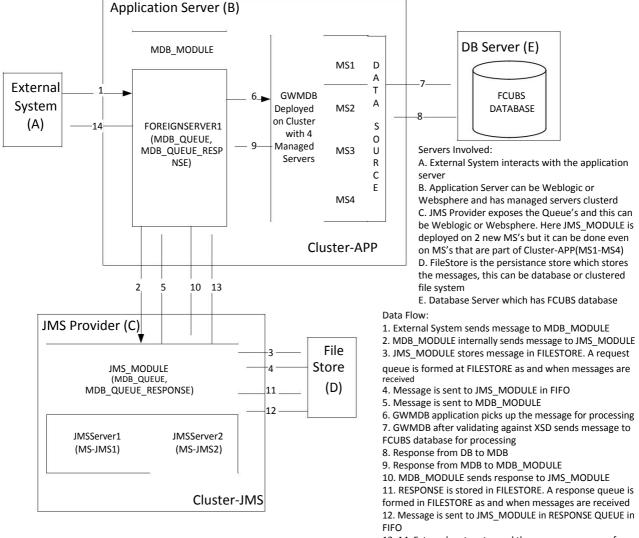
1.3 Weblogic 12c New Features

Before weblogic 12c JMS Servers and stores are targeted to individual WLS Servers. Scaling up requires configure the JMS server, the store and target it to new WLS Server

In 12c JMS Servers and stores are targeted to WLS cluster. Scaling up requires to add a WLS server to the cluster.

Architecture previous to 12c





1.4 Components Diagram & Data Flow

Below is the flow diagram which indicates various components that are used and the document explain steps to create.

13, 14. External system to read the response message from Response Queue

2. Pre-Requisites

The document assumes that the below are created before proceeding JMS creation.

2.1 Machines

MAC-1 & MAC-2

Change Center	Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: pegji
View changes and restarts	Home >Summary of Servers >Summary of Machines	
Configuration editing is enabled. Future	Summary of Machines	
changes will automatically be activated as you modify, add or delete items in this domain. Domain Structure	A machine is the logical representation of the computer that hosts one or more WebLogic Server optimum server in a cluster to which certain tasks, such as HTTP session replication, are delegat Manager to start remote servers.	
-Environment		Wehl onic Server domain
Servers		
Servers ⊕-Clusters Coherence Clusters Machines	₽ Customize this table	
ServersCoherence ClustersMachinesWrulal Hosts =Work ManagersStartup and Shutdown Classes		Showing 1 to 2 of 2 Previous Next
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Servers Coherence Clusters Machines Witual Hosts Work Managers Startup and Shutdown Classes	Customize this table Machines New Clone Delete Name	Showing 1 to 2 of 2 Previous Next

2.2 Dynamic Clusters and Managed Servers

Ensure Dynamic cluster for FCUBS (4 Managed Servers) and Dynamic cluster for JMS Deployment (2 Managed Servers)

Change Center	Home Log Out	Preferences 🔝 Rei	cord Help	Q			Welcome, weblogic Co	nnected to: FCUBS
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omain Structure			have been configured in the cu					
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Deployments	🔲 Name 🐟	Cluster Address	Cluster Messaging Mode	Migration Basis	Default Load Algorithm	Replication Type	Cluster Broadcast Channel	Servers
	-							DC_FCUBS_1,
-Services -	Cluster-App		Unicast	Database	Round Robin	(None)		DC_FCUBS_2, DC_FCUBS_3, DC_FCUBS_4
-Security Realms	Cluster-App		Unicast	Database Database	Round Robin	(None) (None)		DC_FCUBS_2, DC_FCUBS_3,

hange Center		Home Log Out Preferences 🔤	Record Help				Welcome, we	blogic Connected to: FCUBSDon
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lick the Lock & Edit button to modify, add or lelete items in this domain.		mmary of Servers						
Lock & Edit	G	onfiguration Control						
Release Configuration								
	= *	A server is an instance of WebLogi	c Server that runs in its own	Java Virtual Machine (JVI	1) and has its own conf	iguration.		
omain Structure	, i	This page summarizes each server	that has been configured in t	he current WebLogic Ser	ver domain.			
- Environment	7	3						
E Clusters		n						
- Server Templates		Customize this table						
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Umgratable Targets Goherence Glabers Goherence Glabers Machines Work Managers Starturat Starturat Starturat Sanutat Sanutat Sanutat Sanutat Sanutat Sanutat Sanutat Sanutat Sanutat		Click the <i>Lock & Edit</i> button in the New Cone Delete Name A AdminServiet(admin)	e Change Center to activate Type Configured	Cluster	Machine	RUNNING	Health VOK	Listen Port 7001
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2.3 DataSource

Ensure that DataSource required for the MDB ear is created with Target as Cluster-App

Change Center	Home Log Out Preferences 🔤 Record	d Help		Welcome, weblogic Connected to: base_doma
View changes and restarts	Home >JMS Modules >JMS_MODULE >MDB_QU	JEUE >Summary of JMS Messages >JMS Modules	s >JMS_MODULE >MDB_QUEUE >Summary of JM	IS Messages >Summary of Deployments >Summary of JDBC Data
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Summary of JDBC Data Sources			
hoony, and or delete items in this domain.	Configuration Monitoring			
omain Structure				
Messaging MS Servers Servers Servers MS Modules Path Services B*Bridges	borrow a database connection from a data This page summarizes the JDBC data sour			pplications can look up a data source on the JNDI tree and then
Persistent Stores	Customize this table Data Sources (Filtered - More Columns	s Exist)		
Foreign JNDI Providers Work Contexts	New v Delete			Showing 1 to 3 of 3 Previous Next
XML Registries XML Entity Caches	💿 Name 🍣	Туре	JNDI Name	Targets
јСОМ	FLEXTEST.WORLD	Generic	FLEXTEST.WORLD	Cluster-App

2.4 Shared Folder

A shared folder for File Store Creation is required and this folder should be accessible across both the servers (eg, NFS mount).

3. JMS Configuration

3.1 Persistence Store Creation

1) Navigate to Services → Persistent Stores→New →Create FileStore

ORACLE WebLogic Server Administration Console 12c						
Change Center	🚹 Home Log Out Preferences 🔤 Recon	d Help	Welcome, weblogic Connected to: pegjms			
View changes and restarts Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Home >Summary of Servers >Summary of P Messages Create operation cancelled - no file sto Summary of Persistent Stores					
Domain Structure Coherence Clusters Coherence Clusters Wachines Virtual Hosts Work Managers Startup and Shutdown Classes Copployments Co-Services	A persistent store is a physical repository f	for storing subsystem data, such as persistent JMS ge summarizes the persistent stores that have bee	messages. It can be a JDBC-accessible database, disk-based en created for this domain.			
Hessaging Data Sources	New ~ Delete		Showing 0 to 0 of 0 Previous Next			
	🔲 Name 🗞	Түре	Target			
Work Contexts XML Registries	There are no items to display					
How do I	New ~ Delete		Showing 0 to 0 of 0 Previous Next			
Create File Stores						

hange Center	🔒 Home Log Out Preferences 📐 Record Help	Q	Welcome, weblogic Connected to: pegj
liew changes and restarts	Home >Summary of Servers >Summary of Persiste	nt Stores	
configuration editing is enabled. Future hanges will automatically be activated as you odify, add or delete items in this domain.	Messages © Create operation cancelled - no file store create	ted.	
	Summary of Persistent Stores		
Coherence Clusters	A persistent store is a physical repository for stor	ing subsystem data, such as persistent JM	IS messages. It can be a JDBC-accessible database, disk-based
MachinesVirtual HostsVirtual HostsVork ManagersStartup and Shutdown ClassesDeploymentsServices	file, or replicated memory storage. This page sum	marizes the persistent stores that have be	en created for this domain.
MachinesVirtual HostsVirtual HostsVork ManagersStartup and Shutdown ClassesStartup and Shutdown ClassesDeployments	file, or replicated memory storage. This page sum	marizes the persistent stores that have be	en created for this domain. Showing 0 to 0 of 0 Previous Next
MachinesVirtual HostsVirtual HostsStartup and Shutdown ClassesDeploymentsServicesPersistent StoresPersistent StoresForeign JNDI ProvidersForeign JNDI Providers	file, or replicated memory storage. This page sum	Type	
MachinesWirtual HostsWirtual HostsStrutup and Shutdown ClassesServicesServicesDeta SourcesPersistent StoresPersistent Stores	file, or replicated memory storage. This page sum		Showing 0 to 0 of 0 Previous Next

2) Select Cluster-JMS under target dropdown and Click on OK

	dministration Console	e 12c		9
Change Center	Home Log Out	Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home >Summary o		f Clusters >Summary of Servers >Summary of C	usters >Cluster-JMS >Summary of Servers >Summary of Clusters >Summary of Servers > Summary
No pending changes exist. Click the Release Configuration button to allow others to edit the	Create a New File	Store		
domain. Lock & Edit	OK Cancel			
Release Configuration	File Store Prop	erties		
Domain Structure	The following prop * Indicates required	perties will be used to identify your new file d fields	store.	
Environment	What would you lik	e to name your new file store?		
E-Clusters E Server Templates	* Name:	FileStore-1		
Coherence Clusters	Select a server inst	tance for this file store.		
Virtual Hosts Work Managers	Target:	Cluster-JMS		
Startup and Shutdown ClassesDeploymentsServices	The pathname to t	he directory on the file system where the fi	le store is kept. This directory must exist on y	our system, so be sure to create it before completing this tab.
	Directory:	/scratch/work_area/JMS_FI	LESTORE	
How do I				
Create File Stores Monitor persistent stores	OK Cancel			

3) FileStore-1 is created

Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Q		Welcome, weblogic Connected to: FCUBSDoma
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Click the Lock & Edit button to modify, add or delete items in this domain.	Messages All changes have been activated. No restarts are	necessary.		
Release Configuration	Summary of Persistent Stores			
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Deployments	New ~ Delete			Showing 1 to 1 of 1 Previous Next
E-Services	🗌 Name 🗇	Туре	Target	
Data Sources Persistent Stores	FileStore-1	FileStore	Cluster-JMS	
	New - Delete			Showing 1 to 1 of 1 Previous Next

3.2 JMS Server Creation

1) Navigate to Services \rightarrow Messaging \rightarrow JMS Servers \rightarrow Click on New

ORACLE WebLogic Server	dministration Console 12c			Ģ
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Q	Welcome,	weblogic Connected to: pegji
View changes and restarts	Home >Summary of Servers >Summary of Persistent Stores >Sur	mary of JMS Servers		
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Messages © Create operation cancelled - no JMS Servers created.			
Domain Structure	Summary of JMS Servers			
Environment Servers Coherence Clusters Coherence Clusters Virtual Hosts Virtual Hosts Vork Managers Startue and Shutdown Classes	JMS servers act as management containers for the queues a This page summarizes the JMS servers that have been create Customize this table JMS Servers (Filtered - More Columns Exist)			
Deployments	Ne		Show	ing 0 to 0 of 0 Previous Next
ServicesMessagingJMS Servers	🔲 Name 🏟 Persistent Store	Target	Current Target	Health
Store-and-Forward Agents		There are no items to displa	у	
How do I	New Delete		Show	ing 0 to 0 of 0 Previous Next
Configure JMS servers Configure JMS system modules				

2) .Select FileStore-1 , Click Next

	Iministration Console 12c	
Change Center	Home Log Out Preferences 🖾 Record Help	Welcome, weblogic Connected to: FCUBSDoma
View changes and restarts	Home >Summary of Servers >Summary of Clusters >Summary of Servers >Summary Stores >Summary of JMS Servers	of Clusters >Cluster-JMS >Summary of Servers >Summary of Clusters >Summary of Servers >Summary of Persistent
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New JHS Server Back Next Finish Cancel	
Release Configuration	JMS Server Properties	
Domain Structure	The following properties will be used to identify your new JMS Server. * Indicates required fields	
-Environment Servers Clusters Server Templates Mioratable Targets	What would you like to name your new JMS Server? 선원 * Name: JMSServer-1	
		e a New Store
	Back Next Finish Cancel FileStore-1	

3) Select Target as Cluster-JMS and click on Finish

	Iministration Console 12c	Q
Change Center	Home Log Out Preferences Record Help	Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home >Summary of Servers >Summary of Clusters >Summary of Servers >Summary of Clusters >Cluster-JMS >S Stores >Summary of JMS Servers	ummary of Servers >Summary of Clusters >Summary of Servers >Summary of Persistent
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New JMS Server	
Lock & Edit Release Configuration	Back Next Finish Cancel Select targets Select the server instance or migratable target on which you would like to deploy this JMS Server.	
Domain Structure	belee the server instance of ingradule target of which you noted like to deploy this sho betver	
-Environment -Servers -Ousters -Server Templates -Marginable Targets	Target: (none) Back Ned Finish Cancel AdminServer Cluster-App Cluster-Mis	

	iministration Console 12c	Q
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No pending changes exist. Click the Release Configuration button to allow others to edit the domains	Create a New 1015 Server	
Lock & Edit Release Configuration	Seject targets Seject the server instance or migratable target on which you would like to deploy this IMS Server.	
Domain Structure	Target: Cluster-JMS -	
Environment Servers Clusters Server Templates Server Templates	Back Next Finish Cancel	

4) JMS-Server-1 is created

Change Center	Home Log Out Preference	es 🔤 Record Help		Welcome	e, weblogic Connected to: FCUBSDoma
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Click the Lock & Edit button to modify, add or delete items in this domain.	Messages All changes have been act	tivated. No restarts are necessary.			
Release Configuration	Summary of JMS Servers				
Domain Structure Environment Gervers Gervers Templates Migratable Targets Coherence Clusters Machines Wirtual Hosts Wirk Managers Startup and Shutdown Classes Deployments	This page summarizes the JM Customize this table JMS Servers (Filtered - M	nent containers for the queues and topics in JMS IS servers that have been created in the curren tore Columns Exist) In the Change Center to activate all the button	t WebLogic Server domain.		Showing 1 to 1 of 1 Previous Next
-Services	🔲 Name 🐟	Persistent Store	Target	Current Target	Health
	JMSServer-1	FileStore-1	Cluster-JMS	Cluster - JMS	
How do I	E New Delete				Showing 1 to 1 of 1 Previous Next

5) In NFS below filestores can be seen

```
[root@ JMS_FILESTORE]# 11
total 2056
-rw-r----- 1 wl12c oinstall 1049088 Jun 16 14:10 FILESTORE-1@DC_JMS_1000000.DAT
-rw-r----- 1 wl12c oinstall 1049088 Jun 16 14:10 FILESTORE-1@DC_JMS_2000000.DAT
[root@ JMS_FILESTORE]# pwd
/scratch/work_area/JMS_FILESTORE
[root@ JMS_FILESTORE]#
```

3.3 Cluster Configuration for Service Migration

Change Center		Hume Log Out	Preferences 🔛 Ra	card Help	Q	Welcom	se, weblogic Cornec	ted to: pegjms
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Configuration editing is enabled. Puture changes will automatically be activated as you modify, add or delete items in this domain.	1	imary of Clestr						
Domain Structure	η,	his page summari	ies the clusters that	have been configured in the o	urrent WebLogc Serv	rer domain.		
B Environment Servers B Chatters - Cohet Ser Custers		ustomize this		erver servers that work loget	ver to increase scalab	eity and reliability.		
Mach Clusters, Level 2, Collapsed, White roso Work Managers	MIL	ted)rs (Filterer New - Clove	and an and a second second	tost)		Sh	owing 1 to 2 of 2 Prev	Nous Next
-Startup and Shutdown Classes -Deployments IP: Services		🛛 Name 🗠	Cluster Address	Cluster Hessaging Hode	Higration Basis	Default Load Algorithm	Replication Type	Cluster Bri
Security Realms Contemporability Committee	•	Custer-top		Uncest	Detabese	Round Robin	(Nore)	
How do L.		Ouster-245		Unicest	Ostabase	Round Robin	(None)	
 Configure dusters 				06433720	2010/06/2010	0.00043074330	500409	

1) Click on Environment → Clusters → Cluster-JMS

2) Click on Migration Tab

hange Center	Home	Log Ou	it Preferences	; 📐 Reco	rd Help		Q		Welcon	ne, weblogic Conn	ected to: pegj
/iew changes and restarts		Home >Summary of Servers >Summary of Persistent Stores >Summary of JMS Servers >Summary of Clusters >Summary of Migratable Targets >Summary of Clusters >Cluster JMS >Summary of Migratable Targets >Summary of Clusters >Cluster JMS									
Configuration editing is enabled. Future hanges will automatically be activated as you	Settings for Cluster-JMS										
modify, add or delete items in this domain.	Configur	ation	Monitoring	Control	Deployments	Services	Notes				
Oomain Structure	General	JTA	Messaging	Servers	Replication	Migration	Singleton Services	Scheduling	Overload	Health Monitoring	HTTP
Environment	Coheren	ce									

3) Change Migration Basis to Consensus and Click on Save

Contraction of the second seco	1000			- home -		6 6 1			
View changes and restarts	Hone >Summery of Servers >3 Outlies >Outlier (HS >Summe				of Outers +Summary (FNightable Targets > Summary	44		
Configuration editing is enabled. Future changes will automatically be activated as you	Settings for Cluster-JHS	Settings for Cluster-1815							
modify, add or delete items in this domain.	Configuration Honitoring	Control Deployment	ts Services	Notes					
Domain Structure	General JTA Messaging	Servers Replicator	Higration	Singleton Services	Scheduling Over	and Health Monitoring H	413		
() Environment	Coherence						all and the		
-Servers 8-Outlers -Coherence Outlers	Save								
Madanes Wittal nots Work Managers Startup and Shutdown Classes	5 If a dustered server falls, he machines where Node Mana;					This page alows you to speci ignation.	fy the		
- Deployments (R) Services	Candidate Hachines F	or Higratable Servers		The set of machines (and order of preference) on which					
Security Realms	Available:	Chosen			Node Manager will restart failed servers. (Requires you to enable each server for automatic migration.) Here \$16				
® Sntersperability Ri: Daccostra	B MAC-1	5							
How do L	1	38		25					
Configure dusters		4		~					
 Configure server regration in a duster 		320		32					
Oreate XXEC generic data sources									
Configure implication									
System Status	Higration Basis:		Databas Databas	and the second se	Controls the mechani migration. More 34	en used for server and servic b			
Health of Running Servers	Data Source For Autor	matic Higration:	(None)	And a second sec	The data source use	f by servers in the cluster due	ng		

4. JMS Module Creation

4.1 Module Creation

1) Navigate to Services \rightarrow Messaging \rightarrow JMS Modules and Click on **New**.

	dministration Console 12c		Q
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: pegjm
View changes and restarts	Home >Summary of Migratable Targets >MS-JMS1 (migratab Targets >MS-JMS1 (migratable) >Summary of Clusters >Sum		MS2 (migratable) >Summary of Clusters >Summary of Migratable JMS Modules
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Messages		
Domain Structure	Summary of JMS Modules		
Environment Deployments Services JMS Servers JMS Nodules Path Services B-Bridges Data Sources	JMS system resources are configured and stored as moo templates, destination keys, quota, distributed queues, administratively configure and manage JMS system mod This page summarizes the JMS system modules that hav Customize this table JMS Modules	distributed topics, foreign servers, and ules as global system resources.	uch resources include queues, topics, connection factories, JMS store-and-forward (SAF) parameters. You can
Persistent Stores Foreign JNDI Providers	Delete		Showing 0 to 0 of 0 Previous Next
How do L	□ Name ↔		Туре
		There are no items to display	
Configure JMS system modules Configure resources for JMS system modules	New Delete		Showing 0 to 0 of 0 Previous Next
System Status			

2) Enter name as JMS_MODULE and Click on Next

	Iministration Console 12c		Q
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: pegjms
View changes and restarts	Home >Summary of Migratable Targets >MS-JMS1 (migratable Targets >MS-JMS1 (migratable) >Summary of Clusters >Sumn		IMS2 (migratable) >Summary of Clusters >Summary of Migratable JMS Modules
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create JMS System Module Back Nrg Finish Cancel		
Domain Structure	The following properties will be used to identify y		
⊕ Environment ⊡eployments ⊡-Services ⊡-Messaging ⊡-JMS Servers ⊡-Store-and-Forward Agents ⊡-JMS Modules ⊡-Path Services ⊡-Bridges	JMS system resources are configured and stored as modu templates, destination keys, quota, distributed queues, d administratively configure and manage JMS system modul * Indicates required fields What would you like to name your System Module?	listributed topics, foreign servers, and .	uch resources include queues, topics, connection factories, JMS store-and-forward (SAF) parameters. You can
Data Sources Persistent Stores Foreign JNDI Providers	*Name: JMS_Module		
How do L.	What would you like to name the descriptor file name? If yo	ou do not provide a name, a default wil	l be assigned.
Configure JMS system modules	Descriptor File Name:		
Configure JMS servers	Where would like to place the descriptor for this System Mo	odule, relative to the jms configuration	sub-directory of your domain?
System Status	Location In Domain:		
Health of Running Servers	Back Next Finish Cancel		
Failed (0)	Back Next Finish Cancel		

3) Select Target as Cluster-JMS and Click on Next

View changes and restarts None > Summary of Server Template > C_HIS_Template > Summary of Server > Summary of Hypabole Targets > Summary of HIS Server > HISServer 1 > Summary of HIS Server > SUMMARY of HISSERVER > SUMMAR	
No pendig danges exist. Old, the Release Configuration button to allow others to edit the Create JHSS System Hodale	Connected to: FCUBSDomai
Configuration button to allow others to edit the domain. Create JHS System Hodele	3855erven I > Summary of
doman, Red Net West Court	
Lock & Edit Back, Need Print Cancel	
Release Configuration The following properties will be used to target your new 2HS 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 wash.	
Control Targets:	
-Server Templates Highstable Targets Servers	
-Coherence Ousters E AdminServer	
- Wrad Hods - Work Managers - Sara ba and Shuddown Classes - Sara ba and Shuddown Classes	
Deployments Deployments Cluster-App Cluster-App C All servers in the cluster	
How do L	

4) Select the checkbox and Click on Finish

Changes Cambon	🔓 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: pegims
Change Center View changes and restarts	Home >Summary of Migratable Targets >MS-IMSI (migratable) >Summary of Migratable Target Targets >MS-IMSI (migratable) >Summary of Clusters >Summary of Migratable Targets >Sum	ets >MS-JMS2 (migratable) >Summary of Clusters >Summary of Migratable
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create JM5 System Module Back Next Finish Cancel	
Domain Structure	Add resources to this JMS system module Use this page to indicate whether you want to immediately add resources to this JMS sy connection factories, etc.	stem module after it is created. JMS resources include queues, topics,
JMS Servers Store-and-Forward Agents JMS Modules Path Services B-Bridges Data Sources	Would you like to add resources to this JMS system module? Back Next First Cancel	

5) JMS_MODULE is created

	Administration Console 12c		Q
Change Center	🚹 Home Log Out Preferences 🔤 Re	cord Help	Welcome, weblogic Connected to: pegjms
View changes and restarts		of Migratable Targets >MS-JMS2 (migratable) >S nary of Migratable Targets >Summary of JMS Mo	Summary of Clusters > Summary of Migratable Targets > MS-JMS1
Configuration editing is enabled. Future changes will automatically be activated as you	Messages	, , , , , , , , , , , , , , , , , , , ,	
modify, add or delete items in this domain.	 All changes have been activated. Ho The JMS module was created success 	owever 1 items must be restarted for the char	nges to take effect.
Domain Structure		siuny.	
·	Settings for JMS_Module		
-Environment Deployments	Configuration Subdeployments T	argets Security Notes	
Services Messaging Messaging	This page displays general information a resources.	about a JMS system module and its resources	s. It also allows you to configure new resources and access existing
Path Services EBridges	Name:	JMS_Module	The name of this JMS system module. More Info
Data Sources Persistent Stores	Descriptor File Name:	jms/jms_module-jms.xml	The name of the JMS module descriptor file. More Info
How do I			m module, including queue and topic destinations, connection factories, reign servers, and store-and-forward parameters.

4.2 Sub Deployment Creation

1) In JMS_MODULE, Click on Sub Deployment tab , Click on New

ange Center	Home Log Out	Preferences	Record Hel	p	Q	Welcome, web	ogic Connected to: pegjn
ew changes and restarts	Home >MS-JMS1 (r	migratable) >Si mary of Cluster	ummary of Migrata	ble Targets >MS-JM!	52 (migratable) >Summary of immary of JMS Modules > JMS	Clusters >Summary of Migratable Targel	s >MS-JMS1
nfiguration editing is enabled. Future anges will automatically be activated as you dify, add or delete items in this domain.	Messages All changes ha	ave been activ	ated. However 1	-	arted for the changes to take		
main Structure	The JMS modu		d successfully.				
·	Settings for JMS	_Module					
-Environment -Deployments	Configuration	Subdepinyme	nts Targets	Security Notes			
-Services		Sub	deployments- T	ab			
JMS Servers Store-and-Forward Agents	This page display resources.	vs general info	rmation about a J	MS system module	and its resources. It also allo	ws you to configure new resources a	nd access existing
Path Services Pridges	Name:			JMS_Module		The name of this JMS system module	More Info
Data Sources Persistent Stores Foreign JNDI Providers	Descriptor File I	Name:		jms/jms_module-jm	s.xml	The name of the JMS module descrip	tor file. More Info
w do I	This page summa					cluding queue and topic destinations s, and store-and-forward parameter	
No task help found.	Customize this	s table					
stem Status 🛛	Summary of Re	esources					
alth of Running Servers	New Delete	e				Showing 0	to 0 of 0 Previous Next
Failed (0) Critical (0)	📃 Name 🐟		Туре	JNDI Name	Subdepl	oyment	Targets
Overloaded (0)	, ,			Th	ere are no items to display		
Warning (0) OK (1)	New Delete	e				Showing 0	to 0 of 0 Previous Next
	_						

2) Enter name as JMS_SUB and click on Next

ORACLE WebLogic Server	Administration Console 12c		Õ
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: pegjms
View changes and restarts	Home >MS-JMS1 (migratable) >Summary of Migratable Tar (migratable) >Summary of Clusters >Summary of Migratable		
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain. Domain Structure	Create a New Subdeployment Back Next Finish Cancel Subdeployment Properties		
Environment Deployments G-Services Hessaging H-MSServers	The following properties will be used to identify your ne * Indicates required fields		
Store-and-Forward AgentsJMS ModulesPath Services Path ServicesData SourcesPersistent Stores	* Subdeployment Name: Back Next Finish Cancel	JMS_SUB	

3) Select Target as Cluster-JMS and Click on Finish

ORACLE WebLogic Server Ad	Iministration Console 12c		Q
Change Center	😭 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: FCUBSDomai
View changes and restarts	Home >DC_JMS_Template-0 >Summary of Servers >Summary of JMS Modules >JMS MODULE	Migratable Targets >Summary of JMS Ser	vers >JMSServer-1 >Summary of JMS Servers >JMSServer-1 >Summary of Migratable Targets >Summary of
No pending changes exist. Click the Release Configuration button to allow others to edit the	Create a New Subdeployment		
domain.	Back Next Finish Cancel		
Release Configuration	Targets		
Domain Structure	Please select targets for the Subdeployment		
-Environment	Servers		
iServers ⊟Clusters	AdminServer		
Server Templates	Clusters		
Coherence Clusters Machines Virtual Hosts Work Managers	Cluster-JMS O All servers in the cluster		
Startup and Shutdown Classes	JMS Servers		
-Services	JMSServer-1		
How do I 🖂			
Configure subdeployments in JMS system modules	Back Next Finish Cancel		

4) Sub-Deployment is created

ORACLE WebLogic Server A	dministration Con	sole 12c		1.4			Q
Change Center	Home Log	Out Preferences 🔤	Record Help			Q	Welcome, weblogic Connected to: pegjm
View changes and restarts		51 (migratable) >Summa summary of Clusters >Su					of Clusters >Summary of Migratable Targets >MS-JMS1 M S_Module
Configuration editing is enabled. Future changes will automatically be activated as you	Messages						
modify, add or delete items in this domain.	Contraction and Contraction	have been activated. ment created successfu		tems must l	e restarte	d for the changes to t	ake effect.
×	Settings for JM	15_Module					
Environment Deployments	Configuration	Subdeployments	Targets	Security	Notes		
JMS ServersStore-and-Forward AgentsJMS ModulesPath Services B-BridgesData SourcesPersistent Stores	topics, and co	this table	grouped ar	id targeted	to a server	resource (such as JM	IS servers, server instances, or duster).
Foreign JNDI Providers	New De	elete					Showing 1 to 1 of 1 Previous Next
How do I	Name •	~		Resour	ces		Targets
Configure subdeployments in JMS system	JMS_SU	B					Cluster-JMS
modules Configure JMS system modules	New De	elete					Showing 1 to 1 of 1 Previous Next
System Status							

4.3 **Resource Creation**

4.3.1 <u>Queue Creation</u>

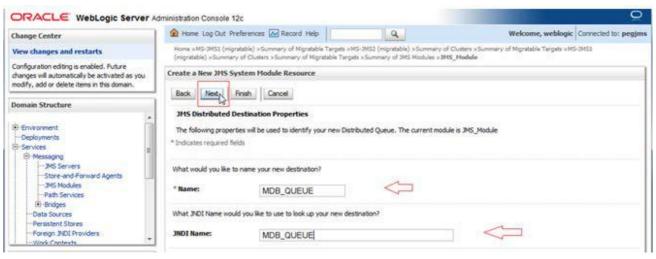
1) In JMS_MODULE Click on New

	dministration Conso	ole 12c						Q	
Change Center	Home Log Ou	it Preferences 🚺	Record He	alp		Q	W	elcome, weblogic Connected to: pegjn	
View changes and restarts							ummary of Clusters >Summary of M odules > 3MS_Module	ligratable Targets >MS-JMS1	
Configuration editing is enabled. Future changes will automatically be activated as you	Settings for JMS	Module							
modify, add or delete items in this domain.	Configuration	Subdeployments	Targets	Security	Notes				
Domain Structure	1								
Environment	This page displa resources.	iys general informat	ion about a	JMS system	module and	its resources	. It also allows you to configure n	ew resources and access existing	
Services H-Messaging H-Messaging H-Messaging	Name:			JMS_Modul	e		The name of this JMS	system module. More Info	
Store-and-Forward AgentsJMS ModulesPath Services Path Services	This page summ	Descriptor File Name: jms/jms_module-jms.xml The name of the JMS module descriptor file. More Info This page summarizes the JMS resources that have been created for this JMS system module, including queue and topic destinations, connection factories,							
Data Sources Persistent Stores Pereign JNDI Providers Work Contexts	Customize th	is table	s, desunau	on quota, a	stributed de	sunauons, ro	reign servers, and store-and-forw	laru parameters.	
How do L	Summary of R	lesources							
No task help found.	New Dele	te						Showing 0 to 0 of 0 Previous Next	
System Status	🗐 Name 🏟	ту	pe	JNDI N	ame		Subdeployment	Targets	
Health of Running Servers					There	are no items	to display		
Failed (0) Critical (0) Overloaded (0)	Nev Dele	te						Showing 0 to 0 of 0 Previous Next	

2) Select Distributed Queue and Click on Next

hange Center	🔒 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connecte	ed to: pegjm
/iew changes and restarts	Home >MS-JMS1 (migratable) >Summary of Migratable Targets > (migratable) >Summary of Clusters >Summary of Migratable Targ			
Configuration editing is enabled. Future hanges will automatically be activated as you nodify, add or delete items in this domain.	Create a New JMS System Module Resource			
omain Structure	Back Next Finish Cancel Choose the type of resource you want to create.			
- Environment - Deployments - Services - Messaging - JMS Servers - Store-and-Forward Agents - JMS Modules - Path Services	Use these pages to create resources in a JMS system module Depending on the type of resource you select, you are prom stand-alone queues and topics, connection factories, distribu targeting pages for selecting appropriate server targets. You mechanism for grouping JMS module resources and the memb	oted to enter basic information fo ted queues and topics, foreign so can also associate targetable re	r creating the resource. For targetable resources, l ervers, and JMS SAF destinations, you can also pro	ceed to
El-Bridges Data Sources Persistent Stores	Connection Factory		Defines a set of connection configuration paramete are used to create connections for JMS clients. M	
	O Queue		Defines a point-to-point destination type, which are for asynchronous peer communications. A message delivered to a queue is distributed to only one consumer. More Info	
Configure quotas for destinations Configure JMS templates Configure destination keys Configure topics Configure queues	© Topic		Defines a publish/subscribe destination type, which used for asynchronous peer communications. A me delivered to a topic is distributed to all topic consumers, More Info	
Configure queues Configure connection factories Configure uniform distributed topics	Distributed Queue		Defines a set of queues that are distributed on mul servers, but which are accessible as a single, logica to JMS dients. More Info	

3) Enter the queue name and Click on Next



4) Click on Advance Targeting

ORACLE WebLogic Server A	dministration Console 12c		<u>o</u>
Change Center	🌒 Home Log Out Preferences 🔛 Record Help	Q	Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home LOC_2HS_Tamplate-0 x Summary of Servers x Summary of Targets x Summary of 2HS Hoddes x 3HS_HODDLE	l'Highitable Targets - Summary of JHS Servers (altitiseven Listianmary of 2015 Servers satisfierven Listianmary of Highdelin
to pending changes exist. Click the Release Configuration button to allow others to edit the	Create a New JHS System Hodule Resource		
donan.	Back Net Frish Advanced Targeting C	ancel	
Release Configuration	The following properties will be used to target your	new JMS system module resource	
Somain Structure	Use this page to view and accept the default targets where accept the default targets, then cick Advanced Targetin		At targets are based on the parent 345 system module targets. If you do not want to argeting this resource.
Onwannent Servers Caters Onters Server Templates Otherence Casters Migratable Targets Coherence Casters Machines	The following JMS module targets will be used as the default t appropriately. Tangets :	targets for your new JMS system module reso	wroe. If the module's targets are changed, this resource will also be retargeted
- Virtual Hosts - Work Managers	Clusters		
- Startup and Shutdown Classes - Deployments B Services B: Messagen	Cluster JHS All servers in the cluster		
How do L. 🕄	Back Next Finish Advanced Targeting Co	ancel	

5) Select Subdeployement as JMS_SUB and Click on Finish

ORACLE WebLogic Server	dministration Console 12c	0
Change Center	😰 Home: Log Out: Profesences: 🐼 Record Help	Welcome, weblogic Converted to: FOUESDomain
View changes and restarts	Roma +OC_2R5_Tampleted +Summary of Servers +Summary of Republic Tampets +Summary of 2R5 Servers + Tampets +Summary of 2R5 Modules +2R55 5600048	stHilderver-1 stummery of tHS Servers stHStlerver-1 stummery of Highlattle
No pending changes exist. Cloit the Release Configuration button to allow others to edit the domain. Lock & Ealt Release Configuration	Create a New JHS System Hodule Resource 	
Constant Structure	Use this page to select a subdeployment to assign this system module resource. A subdeployment is a ne- Saf agent. If necessary, you can create a new subdeployment by doing the Create a New Subdeplo module's subdeployment management page.	
-Sever Templates Mignitable Targets -Coherence Custers -Nachares	Select the subdeployment you want to use. If you select (nove), no targeting will occur. Subdeployments: JMS_SUB • Create a New Subdeployment	
- Wrtuel Hearts - Work Managers - Startup and Shutdown Classes - Depkyments B Services	What targets do you want to assign to this subdicityment? Targets :	
A Messager	Servers	
How do L. 🛛	AdminServer	
Configure quotes for destinations Configure 3HS templates	Oasters	
Configure destination keys Configure tooks Configure tooks	Chaster 3HS # All servers in the cluster	

6) MDB_QUEUE is created

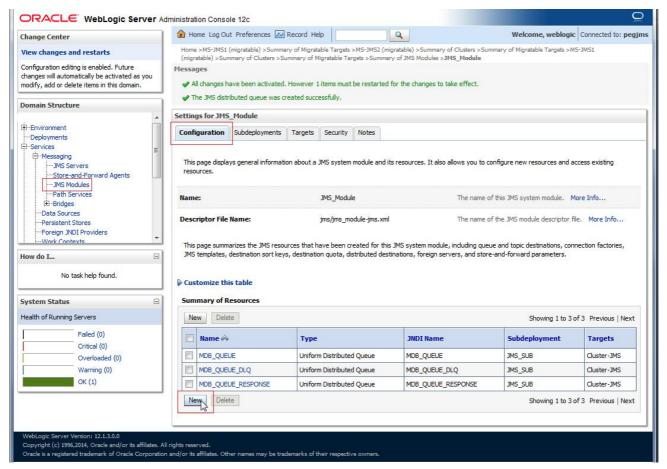
Change Center	Home Log Out	Preferences	Record Help		Q	Welcome, w	eblogic Connected to: pegjm
View changes and restarts					152 (migratable) >Summary o Summary of JMS Modules > J №	f Clusters >Summary of Migratable Ta 1S_Module	rgets >MS-JMS1
Configuration editing is enabled. Future changes will automatically be activated as you	Messages						
modify, add or delete items in this domain.	All changes have	ve been activated.	However 1	items must be res	tarted for the changes to ta	ike effect.	
Domain Structure	🖌 🛷 The JMS distrib	uted queue was cr	eated succe	ssfully.			
	Settings for JMS_	Module					
-Environment Deployments	Configuration	Subdeployments	Targets	Security Not	s		
MessagingJMS ServersStore-and-Forward AgentsStore-and-Forward Agents	This page displays resources.	s general informatio	on about a J	MS system modul	e and its resources. It also a	Illows you to configure new resource	es and access existing
JMS Modules Path Services	Name:			JMS_Module		The name of this JMS system mo	lule. More Info
⊕-Bridges Data Sources Persistent Stores Foreign JNDI Providers	Descriptor File N	ame:	j	ims/jms_module-j	ns.xml	The name of the JMS module des	criptor file. More Info
Work Contexts						including queue and topic destination	
	JMS templates, de	estination sort keys	s, destination	n quota, distribut	ed destinations, foreign serv	vers, and store-and-forward parame	ters.
How do I	1						
How do I 🖂	Customize this	table					
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
No task help found.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	sources				Showing	1 to 1 of 1 Previous Next
No task help found.	Summary of Re	sources			JNDI Name	Showing Subdeployment	1 to 1 of 1 Previous Next Targets

7) Similarly Create MDB_QUEUE_RESPONSE and MDB_QUEUE_DLQ

hange Center	Home Log Ou	ut Preferences 📐	Record Help	Q			Welcome, weblogic	Connected to: FCUBSDor
View changes and restarts	Home >DC_JMS_ JMS Modules >JM		y of Servers >9	Summary of Migratable Targets >S	ummary of JMS Servers >JMSServer-1 >	Summary of JMS Servers >JM	ISServer-1 >Summary of I	Migratable Targets >Summary (
Click the Lock & Edit button to modify, add or lelete items in this domain.								
Lock & Edit	All changes h	lave been activated	. No restarts a	re necessary.				
Release Configuration	Settings for JMS	_MODULE						
	Configuration	Subdeployments	Targets !	Security Notes				
omain Structure								
-Environment Servers E-Clusters	E Name:	iys general informat		JMS_MODULE	es. It also allows you to configure new	The name of this JMS syst		
Server Templates				Shid_hobotc		The finance of this ship syste	christen riore more	
LMigratable Targets	Descriptor Cile	Descriptor File Name: jms/jms_module-jms.xml The name of the JMS module descriptor file. More Info						
Coherence Clusters	Descriptor rile	nume.		jins/jins_nodule-jins.	Ann	The name of the JMS moo	ule descriptor file. More	100
Machines Virtual Hosts Vork Managers Startup and Shutdown Classes Deployments	This page summ	arizes the JMS reso			tem module, including queue and topic			
Machines Virtual Hosts Vork Managers Startup and Shutdown Classes Deployments Services	This page summ	arizes the JMS reso ta, distributed desti		e been created for this JMS sys	tem module, including queue and topic			
MachinesVirtual HostsVirtual HostsWork ManagersStartup and Shutdown ClassesDeploymentsServicesDenomentsDenomentsMessaninn	This page summ destination quo	arizes the JMS reso ta, distributed destir is table		e been created for this JMS sys	tem module, including queue and topic			
Machines Virtual Hosts Vork Managers Startup and Shutdown Classes Deployments Services	This page summ destination quo Customize th Summary of R	narizes the JMS reso ta, distributed destin is table Resources	nations, foreig	e been created for this JMS sys	tem module, including queue and topic d parameters.			
Machines Virtual Hosts Work Managers Startup and Shutdown Classes Deployments Services Fi-Messaninn	This page summ destination quo Customize th Customize th Click the Lock &	arizes the JMS reso ta, distributed destir is table Lesources & <i>Edit</i> button in the	nations, foreig	e been created for this JMS sys n servers, and store-and-forwa	tem module, including queue and topic d parameters.		ctories, JMS templates, d	lestination sort keys,
-Machines -Virtual Hosts -Virtual Hosts -Virtual Hosts -Virtual Hosts -Virtual Hosts -Services -P-Messarino -Wessarino -Wessarino -Wessarino	Customize th Summary of R Cick the Lock 8 New Dele	arizes the JMS reso ta, distributed destri is table lesources & Editbutton in the te	nations, foreig	e been created for this JMS sys n servers, and store-and-forwa r to activate all the buttons on t	ten module, including queue and topic id parameters. his page.	destinations, connection fac	ctories, JMS templates, d Showing	lestination sort keys, 1 to 3 of 3 Previous Next
Machines Virtual Hosts Virtual Hosts Virtual Hosts Deployments D	This page summ destination quo Customize th Summary of R Cick the Lock & New Dele	arizes the JMS reso ta, distributed destri is table lesources & Editbutton in the te	nations, foreig	e been created for this JMS sys n servers, and store-and-forwa	tem module, including queue and topic d parameters.	destinations, connection fac	ctories, JMS templates, d	lestination sort keys,
Machines Wirk Managers Sarup and Shutdown Classes Deployments Services Messaninn w do L No task help found. rstem Status ealth of Running Servers	Customize th Summary of R Cick the Lock 8 New Dele	arizes the JMS reso ta, distributed destri is table tesources & Editbutton in the te	nations, foreig Change Cente	e been created for this JMS sys n servers, and store-and-forwa r to activate all the buttons on t	ten module, including queue and topic id parameters. his page.	destinations, connection fac	ctories, JMS templates, d Showing	lestination sort keys, 1 to 3 of 3 Previous Nex
MachinesVirtual HostsVirtual HostsDeployments	This page summ destination quo Customize th Summary of R Click the Lock & New Dele Name	arizes the JMS reso ta, distributed destri is table tesources & Editbutton in the te	Change Cente	e been created for this JMS sys n servers, and store-and-forwa r to activate all the buttons on t Type	tem module, including queue and topic d parameters. his page.	destinations, connection fac	ctories, JMS templates, d Showing	lestination sort keys, 1 to 3 of 3 Previous Nex Targets
MachinesWachinesWark ManagersStartup and Shutdown ClassesDeploymentsServicesMessaninn w do I No task help found. stem Status alth of Running Servers		arizes the JMS reso ta, distributed destri is table tesources & Editbutton in the te	Change Cente	e been created for this JMS sys n servers, and store-and-forwa r to activate all the buttons on t Type Uniform Distributed Queue	ten module, including queue and topic id parameters. his page. JNDI Name MDB_QUEUE	destinations, connection factors Sub JMS_ JMS_	ctories, JMS templates, d Showing odeployment SUB	lestination sort keys, 1 to 3 of 3 Previous Nex Targets Cluster-JMS

4.3.2 Connection Factory Creation

1) In JMS_MODULE, Click on New



2) Select Connection Factory and click on **Next**

hange Center	🔒 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic	Connected to: pegjm
/iew changes and restarts	Home >M5-JMS1 (migratable) >Summary of Migratable Targets : (migratable) >Summary of Clusters >Summary of Migratable Tar			>MS-JMS1
onfiguration editing is enabled. Future langes will automatically be activated as you	Create a New JMS System Module Resource			
odify, add or delete items in this domain.	Back Next Finish Cancel			
omain Structure	Choose the type of resource you want to create.			
-Environment -Deployments Services ⊡-Messaging IJMS Servers JMS Modules JMS Modules JMS Modules	Use these pages to create resources in a JMS system modul Depending on the type of resource you select, you are pror stand-alone queues and topics, connection factories, distrib targeting pages for selecting appropriate server targets. Yo mechanism for grouping JMS module resources and the mer	npted to enter basic information for uted queues and topics, foreign se u can also associate targetable res	r creating the resource. For targetable re rvers, and JMS SAF destinations, you ca	in also proceed to
Bridges Data Sources Persistent Stores	Connection Factory		Defines a set of connection configuration are used to create connections for JMS c	
Foreign JNDI Providers	© Queue		Defines a point-to-point destination type for asynchronous peer communications.	

3) Enter the Name and Click on **Next**

ORACLE WebLogic Serve				
Change Center	Home Log Out Preference	ces 🔤 Record Help	Q	Welcome, weblogic Connected to: pegjms
View changes and restarts			AS-JMS2 (migratable) >Summary of C ets >Summary of JMS Modules > JMS_	lusters >Summary of Migratable Targets >MS-JMS1 Module
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create a New JM5 System Back Next, Finish	Module Resource		
Domain Structure				
⊕-Environment Deployments ⊟-Services ⊕-Messaging	Connection Factory Prop The following properties will * Indicates required fields		nection factory. The current module	is JMS_Module.
JMS Servers Store-and-Forward Agents	What would you like to name	your new connection factory?		
JMS Modules Path Services	* Name:	MDBQCF		
EBridges Data Sources Persistent Stores	What JNDI Name would you li	ike to use to look up your new co	nnection factory?	
Foreign JNDI Providers	JNDI Name:	MDBQCF		

4) Click on Advance Targeting

Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: FCUBSDom
View changes and restarts	Home >DC_JMS_Template-0 >Summary of Servers >Summary of Migratable Targets >Summary of JMS Servers >J/ Targets >Summary of JMS Modules >JMS_MODULE	MSServer-1 >Summary of JMS Servers >JMSServer-1 >Summary of Migratable
to pending changes exist. Click the Release Configuration button to allow others to edit the	Create a New JM5 System Module Resource	
lomain.	Back Next Finish Advanced Targeting Cancel	
Release Configuration	The following properties will be used to target your new JMS system module resource	
omain Structure	Use this page to view and accept the default targets where this JMS resource will be targeted. The default accept the default targets, then click Advanced Targeting to use the subdeployment mechanism for targ	
- Environment Servers Clusters Server Templates	The following JMS module targets will be used as the default targets for your new JMS system module resour appropriately.	ce. If the module's targets are changed, this resource will also be retargeted
	Targets :	
Virtual Hosts	Clusters	
-Startup and Shutdown Classes -Deployments -Services	 ✓ Cluster-JMS 	
iow do I 🖂	Back Next Finish Advanced Targeting Cancel	

5) Select JMS_SUB and Click on Finish

hange Center	😰 Home Log Out Preferences 🔛 Record Help	Welcome, weblogic Connected to: FCUBSDom
iew changes and restarts	Home >DC_JMS_Template-0 >Summary of Servers >Summary of Migratable Targets >Summary of JMS Servers >JMSServer-1 >Sum Targets >Summary of JMS Modules >JMS_MODULE	mary of JMS Servers >JMSServer-1 >Summary of Migratable
o pending changes exist. Click the Release onfiguration button to allow others to edit the	Create a New JM5 System Module Resource	
main.	Back Next Finish Cancel	
Release Configuration	The following properties will be used to target your new JMS system module resource	
enain Structure	Use this page to select a subdeployment to assign this system module resource. A subdeployment is a mechanism by which J SAF agent. If necessary, you can create a new subdeployment by clicking the Create a New Subdeployment button. Yo module's subdeployment management page.	
Clusters	Select the subdeployment you want to use. If you select (none), no targeting will occur. Subdeployments: JMS_SUB Create a New Subdeployment	
Machines Virtual Hosts Work Managers Startup and Shutdown Classes Deployments	What targets do you want to assign to this subdeployment? Targets :	
-Services -Messaninn	Servers	
w do I E	AdminServer	
Configure quotas for destinations Configure JMS templates	Clusters	
Configure destination keys Configure topics Configure queues	Cluster-JM5 ⓐ All servers in the cluster	
Configure connection factories Configure uniform distributed topics	JMS Servers	
onfigure uniform distributed queues onfigure foreign servers	DJMSServer-1	
Configure JMS SAF	Back Next Finish Cancel	

6) Connection Factory is **Created**

Change Center	Home Log Ou	it Preferences 📐	Record Help	Q		Welcome, weblogi	Connected to: pegjm		
View changes and restarts						Summary of Migratable Targets >N	IS-JMS1		
Configuration editing is enabled. Future	Messages	(migratable) >Summary of Clusters >Summary of Migratable Targets >Summary of JMS Modules >JMS_Module Messages							
changes will automatically be activated as yo modify, add or delete items in this domain.		ave been activated	However 1 items must	t be restarted for	the changes to take effect.	1			
	Connection f	actory created succ	essfully.						
Domain Structure	Settings for JMS	Module							
+-Environment				1					
Deployments Services	Configuration	Subdeployments	Targets Security	Notes					
JMS Modules Path Services III-Bridges	Name:		JMS_Modu	le	The nan	The name of this JMS system module. More Info			
	This page displa	iys general informati	on about a JMS system	n module and its re	source <mark>s</mark> . It also allows you t	to configure new resources and a	access existing		
⊕-Bridges									
					The name of the JMS module descriptor file. More Info				
Persistent Stores	Descriptor File	Name:	jms/jms_m	odule-jms.xml	The nan	ne of the JMS module descriptor 1	file. More Info		
Persistent Stores Foreign JNDI Providers Work Contexts	-					· · · · · · · · · · · · · · · · · · ·			
Foreign JNDI Providers Work Contexts	This page summ	arizes the JMS reso	urces that have been c	reated for this JM!	S system module, including o	ne of the JMS module descriptor t queue and topic destinations, cor tore-and-forward parameters.			
Foreign JNDI Providers	This page summ	arizes the JMS reso destination sort key	urces that have been c	reated for this JM!	S system module, including o	queue and topic destinations, cor			
Foreign JNDI Providers Work Contexts How do I	This page summ JMS templates,	arizes the JMS reso destination sort key is table	urces that have been c	reated for this JM!	S system module, including o	queue and topic destinations, cor			
Foreign JNDI Providers Work Contexts How do I	This page summ	arizes the JMS reso destination sort key is table	urces that have been c	reated for this JM!	S system module, including o	queue and topic destinations, cor			
Foreign JNDI Providers Work Contexts How do I No task help found.	This page summ JMS templates,	arizes the JMS resord destination sort key is table desources	urces that have been c	reated for this JM!	S system module, including o	queue and topic destinations, cor tore-and-forward parameters.			
How do I No task help found. System Status Health of Running Servers Failed (0)	This page summ JMS templates, Customize th Summary of R	arizes the JMS resord destination sort key is table acesources	urces that have been c	reated for this JM!	S system module, including o	queue and topic destinations, cor tore-and-forward parameters.	nnection factories,		
Foreign JNDI ProvidersWork Contexts How do I No task help found. System Status Health of Running Servers Failed (0) Critical (0)	This page summ JMS templates, Customize th Summary of R New Dele	arizes the JMS resord destination sort key is table te	urces that have been c	reated for this JM istributed destinat	S system module, including ions, foreign servers, and s	ueue and topic destinations, cor tore-and-forward parameters. Showing 1 to 4	of 4 Previous Next		
Foreign JNDI ProvidersWork Contexts How do I No task help found. System Status Health of Running Servers Failed (0)	This page summ JMS templates, Customize th Summary of R	arizes the JMS resordestination sort key is table tesources	urces that have been c s, destination quota, d	reated for this JM istributed destinat	S system module, including ions, foreign servers, and s JNDI Name	ueue and topic destinations, cor tore-and-forward parameters. Showing 1 to 4 Subdeployment	of 4 Previous Next		
-Foreign JNDI ProvidersWork Contexts tow do I No task help found	This page summ JMS templates, Customize th Summary of R Name & MDBQCF	arizes the JMS reso destination sort key is table tesources te	Type Connection Factor	reated for this JM istributed destinat ry d Queue	S system module, including ions, foreign servers, and s JNDI Name MDBQCF	ueue and topic destinations, cor tore-and-forward parameters. Showing 1 to 4 Subdeployment JMS_SUB	of 4 Previous Next Targets Cluster-JMS		

5. Server Restart

1) Increase the heap size of both DC_JMS_1 and DC_JMS_2 cluster

hange Center	Home Log Out Preferences	Record Help	Q			Welcome, we	blogic Connected to: FCUBSD
liew changes and restarts	Home >Summary of JMS Servers >JI Modules >JMS_MODULE >Connection			mmary of Migratable Tar	gets >Summary of JMS		
ick the Lock & Edit button to modify, add or elete items in this domain.	Summary of Servers						
Lock & Edit	Configuration Control						
Release Configuration	A server is an instance of WebLog	gic Server that runs in its own	Java Virtual Machine (JVI	1) and has its own conf	iguration.		
omain Structure	This page summarizes each serve	r that has been configured in t	the current WebLogic Ser	ver domain.			
Environment	52						
	Customize this table Servers (Filtered - More Colu	umns Exist)					
Server Templates Migratable Targets Coherence Clusters Machines Virtual Hosts	-		all the buttons on this pa	ige.			
Server Templates Migratable Targets Coherence Clusters Machines	Servers (Filtered - More Colu		all the buttons on this pa	ige.		Sh	owing 1 to 7 of 7 Previous Nex
Server Templates Migratable Targets Coherence Clusters Wachines Wrual Hosts Work Managers Startup and Shutdown Classes -Deployments Services	Servers (Filtered - More Colu Click the <i>Lock & Edit</i> button in t		all the buttons on this pa	ige. Machine	State	Sh	owing 1 to 7 of 7 Previous Nex Listen Port
Server Templates Migratable Targets Coherence Clusters Wach Managers Work Managers Work Managers Work Managers Startup and Shutdown Classes -Deployments Services 	Servers (Filtered - More Cold Click the Lock & Editbutton in t New Gone Delete Name & AdminServer(admin)	he Change Center to activate			State RUNNING		
Server Templates Migratable Targets Coherence Clusters Wachines Warki Managers Work Managers Startup and Shutdown Classes Deployments Services Ch-Messaninn	Servers (Filtered - More Cold Click the Lock & Editbutton in t New Gone Delete Name & AdminServer(admin)	he Change Center to activate				Health	Listen Port
Server TemplatesMigratable TargetsCoherence ClustersWirbuil HostsWirbuil HostsWirbuil HostsWork ManagersStartup and Shutdown Classes Deployments Services	Servers (Filtered - More Colu Click the Lock & Editbutton in the New Clone Delete Name & AdminServer(admin)	he Change Center to activate Type Configured	Cluster	Machine	RUNNING	Health V OK	Listen Port 7001
Gerver Templates Gerver Templates Gerver Clusters Machines Wirtual Hosts Work Managers Startup and Shutdown Classes Deployments Services Gervers done servers	Servers (Filtered - More Colu Click the Lock & Editbutton in t New Cone Delete Name @ AdminServer(admin) DC_FCUBS_1	he Change Center to activate Type Configured Dynamic	Cluster Cluster-App	Machine MAC-1	RUNNING SHUTDOWN	Health VK Not reachable	Listen Port 7001 7101
Server Templates	Servers (Filtered - More Colu Click the Lock & Edit/button in the New Cone Delete Name @ AdminServer(admin) DC_FCUBS_1 DC_FCUBS_2	he Change Center to activate Type Configured Dynamic Dynamic	Cluster Cluster-App Cluster-App	Machine MAC-1 MAC-2	RUNNING SHUTDOWN SHUTDOWN	Health Vok Not reachable Not reachable	Listen Port 7001 7101 7102
Server Templates Migratable Targets Coherence Clusters Midual Hosts	Servers (Filtered - More Cold Click the Lock & Editbutton in th New Cone Delete Name & AdminServer(admin) Dc_FCUBS_1 Dc_FCUBS_2 Dc_FCUBS_3	he Change Center to activate Type Configured Dynamic Dynamic Dynamic	Cluster App Cluster App Cluster App Cluster App	Machine MAC-1 MAC-2 MAC-1	RUNNING SHUTDOWN SHUTDOWN SHUTDOWN	Health Image: Work of the exclusion of the exc	Listen Port 7001 7101 7102 7103
Server Templates Server Templates Migratable Targets Coherence Clusters Wirtual Hosts Wirtual Hosts Work Managers Strub, and Shutdown Classes Deployments Services	Servers (Filtered - More Cold Click the Lock & Editbutton in th New Clone Delete Name & AdminServer(admin) Dc_FCUBS_1 Dc_FCUBS_2 Dc_FCUBS_3 Dc_FCUBS_3 Dc_FCUBS_4 Dc_FCUBS_4 Dc_FCUBS_4	he Change Center to activate Type Configured Dynamic Dynamic Dynamic Dynamic	Cluster -App Cluster -App Cluster -App Cluster -App Cluster -App Cluster -App	Machine MAC-1 MAC-2 MAC-1 MAC-2	RUNNING SHUTDOWN SHUTDOWN SHUTDOWN SHUTDOWN	Health CK Not reachable Not reachable Not reachable Not reachable	Listen Port 7001 7101 7102 7103 7104

2) Select the cluster 'DC_JMS_Template-0' and

Change Center	🔒 Home Log Out Preferences 🔤 Recor	d Help			Welcome, weblogic Connected to: FCUBSDom
View changes and restarts	Home >JMSServer-1 >Summary of Migratable Templates >DC_JMS_Template-0 >Summary of		_MODULE >ConnectionFactory	v-0 >placeholder >Summary of Serv	ers >Summary of Server
Click the Lock & Edit button to modify, add or delete items in this domain.	Summary of Server Templates				
Lock & Edit Release Configuration	This page summarizes each server templat A server template contains common, non- manage configuration for a group of serve	efault attributes that you can apply to		ich then inherit the template confi	guration. Server templates enable you to easily
Environment Servers Clusters Migratable Targets	Customize this table Server Templates Click the Lock & Editbutton in the Change	e Center to activate all the buttons on t	his page.		Showing 1 to 2 of 2 Previous Next
Coherence Clusters Machines	New Clone Delete				
Coherence Clusters Machines Virtual Hosts Work Managers	New Clone Delete	Cluster	Machine	Listen Port	Listen Address
Coherence Clusters Machines Virtual Hosts		Cluster Cluster-App	Machine	Listen Port 7100	Listen Address
Coherence Clusters Machines Virtual Hosts Work Managers Startup and Shutdown Classes	Name 🔅		Machine		Listen Address

3) Click on Server Start Tab and in Arguments Section enter **-XX:MaxPermSize=512m**

hange Center	🕜 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: FCUBSDom
iew changes and restarts	Home >Summary of Migratable Targets >Summary of JMS Modules >JMS_MODULE >ConnectionFactory-0 >plac Server Templates >DC_JMS_Template-0	wholder >Summary of Servers >Summary of Server Templates >DC_JMS_Template-0 >Summary o
pending changes exist. Click the Release nfiguration button to allow others to edit the	Settings for DC_JMS_Template-0	
main.	Configuration Protocols Logging Debug Notes	
Lock & Edit	General Cluster Services Keystores SSL Federation Services Deployment Migration	Tuning Overload Health Monitoring Server Start Web Services Coherence
Release Configuration		
	Save	
ain Structure		
vironment -Servers -Clusters		
Server Templates	Java Home:	The Java home directory (path on the machine running Node Manager) to use when starting this server. More Info
Machines Virtual Hosts Work Managers	Java Vendor:	The Java Vendor value to use when starting this server. More Info
Startup and Shutdown Classes eployments	BEA Home:	The BEA home directory (path on the machine running Node Manager) to use when starting this server. More Info
ervices Messaging	Root Directory:	The directory that this server uses as its root directory. This directory must
do I E	•	be on the computer that hosts Node Manager. If you do not specify a Root
		Directory value, the domain directory is used by default. More Info
infigure startup arguments for Managed rvers	Class Path:	The classpath (path on the machine running Node Manager) to use when
tart Managed Servers from the dministration Console		starting this server. More Info
hut down a server instance		
tem Status 🛛		
Ith of Running Servers		
Failed (0)	Arguments:	The arguments to use when starting this server. More Info
Critical (0)	-XX:MaxPermSize=512m	
Overloaded (0)		

4) **Restart** the AdminServer and DC_JMS_1 and DC_JMS_2 managed servers.

6. Foreign Server Creation

6.1 Module Creation

1) JMS_Modules and Click on New

Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: pegim
View changes and restarts	Home >Summary of Servers >MS-JMS2 >Summary of Virtual Hosts >Summary of Servers >Summa Deployments >Summary of JMS Modules	ry of Clusters >Summary of Migratable Targets >Summary of Servers >Summary of
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Summary of JMS Modules	
Domain Structure	JMS system resources are configured and stored as modules similar to standard JZEE module quota, distributed queues, distributed topics, foreign servers, and JMS store-and-forward (S global system resources. This page summarizes the JMS system modules that have been created for this domain.	
	© Customize this table	
	JMS Modules	Showing 1 to 1 of 1 Previous Next
	JMS Modules	Showing 1 to 1 of 1 Previous Next Type
	JMS Modules Selected	

2) Enter name as MDB_MODULE and click on Next

	ninistration Console 12c	Q
Change Center	Home Log Out Preferences Record Help Generation Connected to:	pegjms
View changes and restarts	Home >Summary of Migratable Tarnete -MG-IMG1 (minratable) <gummany (minratable)="" -mg-img2="" <gummary="" minratable="" of="" olusters="" tarnete="">Summary of Migratable Targets >MS-JMS1 (migratable) >S</gummany>	ole
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create JMS System Module Back Ned Finish Cancel	
Domain Structure	Back Nrgt Finish Cancel The following properties will be used to identify your new module. Image: Cancel Image: Cancel <td< td=""><td></td></td<>	
	JMS system resources are configured and stored as modules similar to standard J2EE 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. * Indicates required fields	
→Path Services →Bridges →Data Sources →Persistent Stores →Foreign JNDI Providers	What would you like to name your System Module? * Name: MDB_MODULE	
How do I	What would you like to name the descriptor file name? If you do not provide a name, a default will be assigned. Descriptor File Name:	
Configure JMS servers	Where would like to place the descriptor for this System Module, relative to the jms configuration sub-directory of your domain?	
System Status	Location In Domain:	
Failed (0)	Back Next Finish Cancel	

3) Select target as Cluster-App and click on Next

	dministration Console 12c		0
Change Center	A Home Log Out Preferences 🐼 Record Help	Q	Welcome, weblogic Connected to: FCU8SDomain
View changes and restarts	Home - placeholder +Summary of Servery e Summary of Server Hodules +3HS MODULE +Summary of 3HS Hodules	Templates >OC_3H5_Template 0 >Summary of Service	er Templates » OC_3HS_Template © » Summary of Servers » Summary of 3HS
No pending changes exist. Clok the Release Configuration buttion to allow others to edit the domain.	Create JHS System Hodule		
Look & Edit	Back Next Finish Cancel		
Release Configuration	The following properties will be used to target your	new 2015 system module.	
Domain Structure	Use this page to select the server or duster on which you w	auld like to deploy this JMS system module. You c	en neconfigure tangeta later if you wish.
B Brvironment - Servers B Ousters	Targets :		
Server Templates	Servers		
-Coherence Ousters -Machines	AdminServer		
Work Managers Startup and Shutdown Classes	Ousters		
Opplyments Services FLMesedicit	Cluster-App All servers in the cluster		
Now do L. 🗄	Cluster-JHS		
Configure 345 system modules Configure 345 servers	All servers in the duster		

4) Select CheckBox and Click on Finish

	dministration Console 12c	Q
Change Center	Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: pegjms
View changes and restarts	Home >Summary of Servers >MS-JMS2 >Summary of Virtual Hosts >Summary of Servers >Summary of Clusters > Deployments > Summary of JMS Modules	>Summary of Migratable Targets >Summary of Servers >Summary of
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create JMS System Module Back Next Finish Cancel	
Domain Structure	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 Would you like to add resources to this JMS system module? Back Next Finish Cancel	it is created. JMS resources include queues, topics, connection factories, etc.

5) MDB_MODULE is created

Change Center	🕜 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected t	o: pegjn
View changes and restarts	Home >Summary of Clusters >Summary of Migratable Targets >Summary of Servers >Summary of Deployn Targets >Summary of Clusters >Summary of JMS Servers >Summary of JMS Modules	nents >Summary of JMS Modules >MDB_MODULE >Summary of Migratable	
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Summary of JMS Modules		
Domain Structure	JMS system resources are configured and stored as modules similar to standard J2EE modules. Such quota, distributed queues, distributed topics, foreign servers, and JMS store-and-forward (SAF) par- global system resources.		
	This page summarizes the JMS system modules that have been created for this domain. Customize this table JMS Modules		
Coherence ClustersMachines EWrtual HostsWork ManagersStartup and Shutdown ClassesDeploymentsServicesServices	₽ Customize this table	Showing 1 to 2 of 2 Previous	Next
Coherence ClustersMachines EWirkual HostsWork ManagersWork ManagersStartup and Shutdown ClassesDeploymentsServicesMessagingMessagingMessagingMessagingMesserves	© Customize this table JH5 Modules	Showing 1 to 2 of 2 Previous	Next
Coherence ClustersMachines EVirtual HostsVirtual HostsWork ManagersStartup and Shutdown ClassesDeploymentsServicesServices	Customize this table IHS Hodules New Delete		Next
Coherence ClustersMachinesWrital HostsWrital HostsWork ManagersStartup and Shutdown ClassesDeploymentsServicesServices3MS Servers3MS Serv	Customize this table JH5 Modules New Delete Mame JM5_Module JM5_Module	Туре	Next

6.2 Foreign Server Creation

1) In MDB_MODULE, Click on New Resource, Select Foreign Server

ORACLE WebLogic Server	dministration Console 12c	Q
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: pegjm
View changes and restarts	Home >Summary of Servers >Summary of Deployments >Summary of JMS Modules >MDB_MODULE > JMS Modules >MDB_MODULE >Summary of JMS Modules	Summary of Migratable Targets >Summary of Clusters >Summary of JMS Servers >Summary of
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Summary of JMS Modules	
Domain Structure	JMS system resources are configured and stored as modules similar to standard JZEE modules. S quota, distributed queues, distributed topics, foreign servers, and JMS store-and-forward (SAF) global system resources. This page summarizes the JMS system modules that have been created for this domain. Customize this table JMS Modules	
Deployments Services	New Delete	Showing 1 to 2 of 2 Previous Next
	📄 Name 🗞	Туре
JMS Modules	JMS_Module	System
How do I		System
Configure JMS system modules	New Delete	Showing 1 to 2 of 2 Previous Next
Configure resources for JMS system modules		

2) Click on Configuration \rightarrow New

ORACLE WebLogic Server A		t Preferences 🞑	Deres d Had				Websers with the Constant sector
Change Center		18-16			Q		Welcome, weblogic Connected to: pegjn
View changes and restarts		of Deployments >Sur ODULE >Summary of				of Migratable Targets >Summary of Clusters >Sum	mary of JMS Servers >Summary of JMS
Configuration editing is enabled. Future changes will automatically be activated as you	Settings for MDE						
modify, add or delete items in this domain.	Configuration	Subdeployments	Targets	Security	Notes		
Domain Structure		-					
Environment	This page displa	ys general informatio	on about a J	MS system	module and its resources	s. It also allows you to configure new resources a	and access existing resources.
E-Clusters	Name:			MDI	MODULE	The name of this JM	IS system module. More Info
	Descriptor File	Name:		jms	/mdb_module-jms.xml	The name of the JM	S module descriptor file. More Info
Virtual Hosts Virtual Hosts Vork Managers Startup and Shutdown Classes Deployments					eated for this JMS syster gn servers, and store-an		, connection factories, JMS templates, destination
Deployments	Customize th	is table					
How do I	Summary of R	esources					
No task help found.	New Dele	te					Showing 0 to 0 of 0 Previous Next
No task help found.	🔲 Name 🐟		Туре		JNDI Name	Subdeployment	Targets
System Status 🖂					There	are no items to display	
Health of Running Servers	New Dele	te					Showing 0 to 0 of 0 Previous Next
Failed (1)							
Critical (0)							

3) Select Foreign Server and Click on Next

Change Center	🟦 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: pegju
View changes and restarts	Home >Summary of Deployments >Summary of JMS Modules >MDB_MODU Modules >MDB_MODULE >Summary of JMS Modules >MDB_MODULE	ILE >Summary of Migratable Targets >Summary of Clusters >Summary of JMS Servers >Summary of JMS
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create a New JMS System Module Resource	
Domain Structure	Back Next Finish Cancel	
	Choose the type of resource you want to create.	
Environment HServers Clusters H-Server Templates Migratable Targets Coherence Clusters Machines	connection factories, distributed queues and topics, foreign servers, a	queues, topics, templates, and connection factories. Iter basic information for creating the resource. For targetable resources, like stand-alone queues and topics, nd JMS SAF destinations, you can also proceed to targeting pages for selecting appropriate server targets. You an advanced mechanism for grouping JMS module resources and the members to server resources.
Virtual Hosts Work Managers Startup and Shutdown Classes	Connection Factory	Defines a set of connection configuration parameters that are used to create connections for JMS clients. More Info
Deployments ⊡-Services ⊖-Messaning	√ © Queue	Defines a point-to-point destination type, which are used for asynchronous peer communications. A message delivered to a queue is distributed to only one consumer. More Info
How do I	Поріс	Defines a publish/subscribe destination type, which are used for
Configure quotas for destinations Configure JMS templates	U Topic	asynchronous peer communications. A message delivered to a topic is distributed to all topic consumers. More Info
Configure destination 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 dients. More Info
Configure connection factories 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

4) Enter name and Click on Next

	dministration Console 12c	Q
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: pegime
View changes and restarts	Home >Summary of Deployments >Summary of JMS Modules >MDB_MODULE >Summary of Migratable Targets >Sum Modules >MDB_MODULE >Summary of JMS Modules >MDB_MODULE	nmary of Clusters >Summary of JMS Servers >Summary of JMS
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create a New JM5 System Module Resource Back Next Finish Cancel	
Domain Structure	Foreign Server Properties	
Environment Servers Clotetrs Clotetrs Wigratable Targets Wigratable Targets Wichines Wichines Wichines Wichines Startup and Shutdown Classes Deployments	The following properties will be used to identify your new foreign server. The current module is MDB_MODULE. * Indicates required fields * Name: ForeignServer-1 Back New Finish Cancel	
E-Services		

5) Click on Advanced Targeting

View changes and restarts	Home Log Out Preferences 🚵 Record Help	Welcome, weblogic Connected to: FCUBSDomain
		Televine, webogie connected to recobsolution
	iome >DC_JMS_Template-0 >Summary of Server Templates >DC_JMS_Template-0 >Summary of Server MS Modules >MDB_MODULE	s >Summary of JMS Modules >JMS_MODULE >Summary of JMS Modules >MDB_MODULE >Summary of
domain.	cate a New JMS System Module Resource Sack Nex Finish Advanced Targeting Cancel The following properties will be used to target your new JMS system module resour	nce
Domain Structure	Use this page to view and accept the default targets where this JMS resource will be targeted. Th accept the default targets, then click Advanced Targeting to use the subdeployment mechanis ne following JMS module targets will be used as the default targets for your new JMS system mod propriately.	m for targeting this resource.
Machines	Ilusters I Cluster-App I All servers in the cluster	
How do I	Back Next Finish Advanced Targeting Cancel	

6) Click on Create New SudDeployment

	Administration Console 12c	Q
Change Center	🟦 Home Log Out Preferences 🖾 Record Help	Welcome, weblogic Connected to: pegjms
View changes and restarts	Home >Summary of Deployments >Summary of JMS Modules >MDB_MODULE >Summary of Migratable Targe Modules >MDB_MODULE >Summary of JMS Modules >MDB_MODULE	ts >Summary of Clusters >Summary of JMS Servers >Summary of JMS
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create a New JMS System Module Resource Back Next Frish Cancel	
Domain Structure	The following properties will be used to target your new JMS system module resource	
	Use this page to select a subdeployment to assign this system module resource. A subdeployment is a r cluster, or SAF agent. If necessary, you can create a new subdeployment by clicking the Create a Ne later by using the parent module's subdeployment management page.	
Coherence Clusters Machines Virtual Hosts	Select the subdeployment you want to use. If you select (none), no targeting will occur.	
Work Managers Startup and Shutdown Classes Deployments	Subdeployments: (none) Create a New Subdeployment What targets do you want to assign to this subdeployment?	
E-Services	mat alige do you mane to daugh to an babacpioyinent:	

7) Enter Name as MDB_SUB and Click on OK

	Iministration Console 12c	Q
Change Center	🔒 Home Log Out Preferences 🖂 Record Help	Welcome, weblogic Connected to: pegime
View changes and restarts	Home >Summary of Deployments >Summary of JMS Modules >MDB_MODULE >Summary of Mig Modules >MDB_MODULE >Summary of JMS Modules >MDB_MODULE	atable Targets >Summary of Clusters >Summary of JMS Servers >Summary of JMS
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create a New Subdeployment	
Domain Structure	Subdeployment Properties	
Environment	The following properties will be used to identify your new subdeployment.	
E-Clusters	Subdeployment Name: MDB_SUB	
Migratable Targets Coherence Clusters Machines	OK Cancel	
Virtual Hosts Work Managers Startup and Shutdown Classes		[⋧

8) Select Target as Cluster-App and Click on Finish

Change Center			
	🔒 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: FCUBSDoma
View changes and restarts	Home >DC_JMS_Template-0 >Summary of Server Template JMS Modules >MDB_MODULE	is >DC_JMS_Template-0 >Summary of Servers >Sum	mary of JMS Modules $\mbox{>}JMS_MODULE$ $\mbox{>}Summary of JMS Modules \mbox{>}MDB_MODULE\mbox{>}Summary of$
Pending changes exist. They must be activated to take effect.	Create a New JMS System Module Resource		
Activate Changes	Back Next Finish Cancel		
Undo All Changes	The following properties will be used to target	your new JMS system module resource	
Domain Structure			echanism by which JMS resources are grouped and targeted to a server instance, cluster, or oyment button. You can also reconfigure subdeployment targets later by using the parent
Clusters Server Templates Migratable Targets Coherence Clusters Machines	Select the subdeployment you want to use. If you select Subdeployments: MDB_S	t (none), no targeting will occur.	
Work Managers Startup and Shutdown Classes Deployments Services	What targets do you want to assign to this subdeployme Targets:	ent?	
How do I	Servers		
Configure quotas for destinations	AdminServer		
Configure JMS templates Configure destination keys	Clusters		
Configure topics	Cluster-App		
Configure queues	All servers in the cluster		
Configure connection factories			
Configure uniform distributed topics	JMS Servers		
Configure uniform distributed queues			
Configure foreign servers	JMSServer-1		
Configure JMS SAF	1		
System Status	Back Next Finish Cancel		

9) Foreign Server is created

	dministration Conso	le 12c							Q
Change Center	Home Log Ou	t Preferences 🔤 F	Record Hel	p		2		Welcome, weblo	gic Connected to: pegjm
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Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Messages	ave been activated. I	No restarts	-					
Domain Structure	V The foreign s	erver was created su	Iccessfully.						
*	Settings for MDB	MODULE							
E-Environment	Configuration	Subdeployments	Targets	Security	Notes				
Server Templates Migratable Targets Coherence Clusters Machines	This page displa	ys general informatio	n about a 3		n module and its i B_MODULE	resources. It also allows	you to configure new resources a	and access existing resources	
Virtual Hosts Work Managers Startup and Shutdown Classes Deployments Services	Descriptor File		rcer that hi	6. 3	/mdb_module-jm		The name of the JM ding queue and topic destinations	IS module descriptor file. Mo	
I I-Messaninn						store-and-forward para		, connection raciones, sets to	emplates, descributor
How do I									
No task help found.	Customize thi	and the second se							
System Status Health of Running Servers	New Delet							Showing 1 to	o 1 of 1 Previous Next
Failed (1)	📃 Name 🚕		Ту	pe		JNDI Name	Subdeployment	Та	rgets
Critical (0)		ver-1	Fore	eign Server	r	N/A	MDB SUB	Clu	ster-App
Overloaded (0) Warning (0)	New Delet	e		-				Showing 1 to	1 of 1 Previous Next
ОК (3)									

6.3 Foreign Server Configuration

1) Click on ForeignServer-1

ORACLE WebLogic Server	Administration Conso	le 12c							
hange Center	Home Log Ou	t Preferences 🔤	Record Hel	р 📃	9			Welcome, weblogic	Connected to: pe
/iew changes and restarts		of Deployments >Sun ODULE >Summary of				ummary of Migratable Tar	gets >Summary of Clusters >Summary	y of JMS Servers >Summary o	f JMS
onfiguration editing is enabled. Future hanges will automatically be activated as you wodify, add or delete items in this domain.	Messages	ave been activated.	No restarts	-					
omain Structure	The foreign se	erver was created su	uccessfully.						
-	Settings for MDB	MODULE							
- Environment	Configuration	Subdeployments	Targets	Security	Notes				
Work Managers Startup and Shutdown Classes Deployments Services Messaninn ow do I	sort keys, destin	arizes the JMS resou		ave been cro			ng queue and topic destinations, co	odule descriptor file. More : nnection factories, JMS temp	
No task help found.	Customize thi								
ystem Status	Summary of Re								
ealth of Running Servers	New Delet	e						Showing 1 to 1 of	of 1 Previous Ne
Failed (1)	🔲 Name 🗇	Д	Тур	be		JNDI Name	Subdeployment	Targe	ets
Critical (0)	E Foreignfier	ver-1	Fore	eign Server		N/A	MDB_SUB	Cluster	-Арр
Overloaded (0) Warning (0)	New Delet	e						Showing 1 to 1	of 1 Previous Ne

2) Enter the JNDI URL as Cluster URL(JMS Managed Servers) and Click on Save

ORACLE WebLogic Server	Administration Console 12c			9		
Change Center	A Home Log Out Preferences 🐼 R	ecard Help	9	Welcome, weblogic Connected to: FCUBSDomain		
View changes and restarts	Home Summary of Outlans Summary Modules > MDB_MODULE > ForeignServ		y of Servers >Summary of 3H3 Modules >H0	0_MODULE + Ponegrifience=1 + Summary of Servers + Summary of SMS		
Click the Lock & Edit button to modify, add or delete items in this domain.	Messages All changes have been activated. N	lo restarts are necessary.				
Lock & Edit	Settings for ForeignServer-1					
Pielesse Configuration	Configuration Subdeployment N	iotes				
Domain Structure	General Destinations Connection	n Factories				
8 Environment Servers	Old: the Leck & Editbutton in the O	ange Center to modify the	ettings on this page.			
Ousters Server Templates Monatable Targets	[Save]					
Coherence Clusters Machines Virtual Hosts			WebLogic Server. It contains information t be defined on one JHOI directory. Use this	bat alons WebLog: Server to reach the remote JRDI provider. This way, a number of page to configure a foreign server.		
- Work Managers - Startup and Shutdown Classes	de Name:	ForeignServer-1		The name of this foreign server. More brifs		
E Services	. MDI Initial Context Factory:	weblogic indi W	Unital(The name of the class that must be instantiated to access the JKOI provider. This class name depends on the JKOI provider and the vendor		
How do L.	8			that are being used. More Info		
Create foreign connection factories Create foreign destinations	JHDI Connection URL:	[G://10.184.148.1	85 7106 10 184 148 189 7107	The URL that WebLogs Server will use to contact the JPDI provider. The syntax of the URL depends on which JPDI provider is being used. For WebLogs JPDI, lawse this field bank if you are referencing WebLogs JPDI objects within the same cluster. More Sets.		
System Status	a			autors were serve custers - ware anteurs		
Health of Running Servers	MDI Properties Credentiak			Any Gredentals that must be set for the JMDI provider. These Gredentals		

3) Click on Connection Factories

Change Center	Home Log Ou	ut Preferences	Record Help		2		Welcome, weblogi	Connected to: pegjm
View changes and restarts			y of Migratable Target InServer-1 > Configur		Summary of JMS Servers >	Summary of JMS Modules >MDB_N	10DULE >Summary of JMS	
Configuration editing is enabled. Future changes will automatically be activated as you	Settings for For	eignServer-1	-					
nodify, add or delete items in this domain.	Configuration	Subdeployme	ent Notes					
Domain Structure	General Dest	inations Con	nection Factories					
ServersClustersServer Templates	another instance	ce of WebLogic S	Server running in a d	lifferent cluster or serve	r, or a foreign provider, a	iich is accessible via JNDI. A remo s long as that provider supports .		used to refer to
-Clusters -Server Templates -Migratable Targets -Coherence Clusters -Machines -Wirtual Hosts -Work Managers -Startup and Shutdown Classes	another instanc This page summ Customize th Foreign Conne	e of WebLogic S narizes the forei nis table ection Factoria	Server running in a d	lifferent duster or serve ries that have been crea	r, or a foreign provider, a		INDI.	
Olusters Services	another instance This page summ Customize th	e of WebLogic S narizes the forei nis table ection Factoria	Server running in a d	lifferent duster or serve ries that have been crea	r, or a foreign provider, a		INDI.	of 0 Previous Next
Ousters Server Templates Migratable Targets Coherence Clusters Machines Work Managers Startup and Shutdown Classes Deployments Services Coherence Clusters	another instanc This page summ Customize th Foreign Conne	te of WebLogic S narizes the forei nis table ection Factoria	Server running in a d ign connection factor es (Filtered - More	lifferent duster or serve ries that have been crea	r, or a foreign provider, a		INDI.	
-Clusters -Server Templates -Migratable Targets Coherence Clusters Wachines Virtual Hosts Virtual Hosts Virtual Astutdown Classes Deployments Services	another instanc This page summ Customize th Foreign Conne	te of WebLogic S narizes the forei nis table ection Factoria	Server running in a d ign connection factor es (Filtered - More	lifferent duster or serve ries that have been crea e Columns Exist)	r, or a foreign provider, a	Remote JNDI Name	INDI.	

4) Create MDBQCF Connection Factory

ORACLE WebLogic Server	dministration Console 12c				0
Change Center	😭 Home Log Out Preferences 🖂 R	ecord Help	8		Welcome, weblogic Connected to: pegims
View changes and restarts	None LHDR HODULE vSummery of Hig Hostulas LHDR HODULE >Persignaliary		ry of Queters - Submary of 345 1	Servers - Summary of IMS Modules - HD	R, HOOULE > Summary of INS
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create a New Foreign JHS Connecto				
Domain Structure	Foreign Connection Factory Prop	and then			
Brurgement Servers Conterns Conterns Conterns Conterns Conterns Conterns Conternes Conternes Conternes	The following properties will be used to * Indicates required fields		ign connection factory.		
- Machines Wrbuil Horts	* Name:	MDBQCF			
-Work Managers -Startup and Shutdown Classes -Deployments	Local 3001 Name:	MDBQCF			
B-Services El Messatrot	Remote 3NDI Name:	MDBQCF[<	
Haw do L.	OK Canos				

5) Click on Destination

ORACLE WebLogic Server	dministration Console 12c				0
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View changes and restarts Configuration editing is enabled. Future changes will automatically be activated as you nodify, add or delete items in this domain.	Holden shall, Hoddel she Messages			vers «Summery of INE Hoddas «HOB, HODGE »Summery of INEs a effect.	
Domain Structure	Settings for ForeignServer	1			
B Environment -Servers B Cuaters -Server Templates -Majastalie Targets -Coherence Cuaters -Machines -Machines -Witch Reagens -Startup and Shutdown Classes -Copplyments -Server	A foregt corrector factory another instance of Webug This page summarizes the fo	connection Factories	r server, or a foreign prov en created for this domain	nd which is accessible via 3601. A nemote connection factory can b der, as long as theil provider supports 3600.	e used to refer to
How do 1	New Debts			Showing 1 to	1 of 1 Previous Next
Configure foreign servers	E Name in	Local JNDI Name		Remote 3001 Name	
Oreale foreign destinations	MDBQC7	HDBQCF		HORQOY	
System Status 🛛	New Donts			Showing 1 to	1of1 Previous Next

6) Create MDB_QUEUE

View changes and restarts	Home >JMS Modules >MDB_MOD	ULE >ForeignServer-1 >MD8_MODULE >ForeignServer-1 >Sur	nmary of Servers >JMS Modules >MDB_MODULE >ForeignServer-1 >Configuration
Configuration editing is enabled. Future	Settings for ForeignServer-1		
changes will automatically be activated as you modify, add or delete items in this domain.	Configuration Subdeploym	ent Notes	
Domain Structure	General Destinations Co	onnection Factories	
P=Environment Servers Clusters Clusters Wind Hosts Migratable Targets Coherence Servers Coherence Servers Machines Work Managers Startup and Shutdown Classes Deployments	directory, and the object will b	queue) can be found on a remote server. When this dest e returned from that directory. eign destinations that have been created for this domain.	ination is looked up on the local server, a look-up will be performed automatically on the remote JNDI Showing 0 to 0 of 0 Previous Next
Deployments D-Services	🔲 Name 🌣	Local JNDI Name	Remote JNDI Name
How do I		Th	ere are no items to display
Configure foreign servers	New Delete		Showing 0 to 0 of 0 Previous Next
Create foreign connection factories			
System Status			
Health of Running Servers			

Change Center	Home Log Out Preference	es 🛃 Record Help	Welcome, weblogic Connected to: pegjms
View changes and restarts	Home >MDB_MODULE >Summa Modules >MDB_MODULE >Fore		ervers >Summary of JMS Modules >MDB_MODULE >Summary of JMS
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create a New Foreign JMS D		
Domain Structure	Foreign Destination Prop	ortion	1941-1012 M. 2010-06-06-06 - Provide - No. 2010-06 - 01-2010 - 11-2010-01 - 11-2010-01 - 2010-010-010-010-010-00-00-00-00-00-00-00
Environment Servers Clusters Coherence Clusters Coherence Clusters Coherence Clusters Coherence Clusters Work Managers Startup and Shutdown Classes Deployments Ervices Chessaning Chartessaning Chartessaning	The following properties will b * Indicates required fields * Name: Local JNDI Name: Remote JNDI Name:	MDB_QUEUE MDB_QUEUE MDB_QUEUE MDB_QUEUE	
How do I	OK Cancel		
Configure foreign serversCreate foreign connection factories			

7) Similarly Create MDB_QUEUE_RESPONSE, MDB_QUEUE_DLQ

ORACLE WebLogic Server	Administration Console 12c			Q
Change Center	Home Log Out Preference	s 🔤 Record Help	Q	Welcome, weblogic Connected to: pegjm
View changes and restarts	Home >MDB_MODULE >Summa Modules >MDB_MODULE >Forei		mary of Clusters >Summary of JMS !	Servers >Summary of JMS Modules >MDB_MODULE >Summary of JMS
Configuration editing is enabled. Future changes will automatically be activated as you	Create a New Foreign JMS D	estination		
modify, add or delete items in this domain.	OK Cancel			
Domain Structure	Foreign Destination Prope	erties		
⊖-Environment →Servers ⊖-Clusters →Server Templates →Migratable Targets	The following properties will be * Indicates required fields	e used to identify your new t	foreign destination.	
Coherence Clusters Machines Virtual Hosts	* Name:	MDB_QUEUE	_RESPC	
Work Managers Startup and Shutdown Classes	Local JNDI Name:	MDB_QUEUE	RESPONSE	
-Services	Remote JNDI Name:	MDB_QUEUE	RESPONSE	
How do I	OK Cancel			
Configure foreign serversCreate foreign connection factories				
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nodify, add or delete; tems in this domain.	🖉 A design have been also and respect to been suit	be restanted for the changes to take effect.	
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-Servera P-Oastera	General Destinations Corrector Factores		
Coherence Clusters Hodered Highar Horb High Manaders	. NET directory, and the object will be returned from that d This page summarizes the foreign destinations that have be	ectory.	n the local server, a look-up will be performed, automatically on the remote
Starte and Shakken Cases - Shakken Cases	© Customize this table Foreign Destinations		
Startup and Shutdown Classes Opployments Services		Sec.	Stewing 1 to 2 of 2 (Ferrique Texit
Startur and Studiour Division Sectors Sectors with Sectors with	Foreign Destinations	Local 2001 Name	Storing 1 to 2 of 2, Previous Heat Remote 3NDI Name
Startus and Shutdown Classes Startus and Shutdown Classes Startus and Shutdown Classes International Startus and Shutdown Classes With the Startus and Shutdown Classes Startus and Shutdown Classes Startus and Shutdown Classes Shutdown Classes S	Farrign Destinations	The second se	
Startur and Studiour Division Sectors Sectors with Sectors with	Foreign Destinations	Local 3NDI Name	Remote JIDI Name

ORACLE. WebLogic Server Administration Console 120 😭 Home Log Out Preferences 🐼 Record Help Welcome, weblogic Connected to: pegim Change Center Harts a MCR_MCDDLD schwarzy of Migratelia Targeta a Sur Hadalas a MCR_MCDDLD a Forsignilarvar-1 a Gaellyseraitae ny el 245 farran a Sarrary el 245 Hadaia a 468, HOBBE a Sarrary el 245 View changes and restarts inth a filmer Configuration editing is enabled. Future charges will automatically be activated as you modify, add or delete items in the domain. Create a New Foreign 3HS Destination OK Cancel Domain Structure **Foreign Destination Properties** Bervickinnent
 Seriers
 Seriers 1 The following properties will be used to identify your new foreign destination. Ľ. *Indicates (equired fields ^e Name: MDB_QUEUE_DLQ Local 3ND1 Name: MDB_QUEUE_DLQ Carloss Carloss Remote JNDI Name: MOB_QUEUE_DLQ How do I____ Cancel Configure foreign servers

× (🖿

ORACLE WebLogic Server	dministration Console 12p		0						
Change Center	A Home Log Out Preferences 🖾 Record Help	100	Welcome, weblogic Connected to: pegims						
West changes and restarts	tions villé, Milletil v Guenney el Mynikie Gegels skuenney el Balan v Guenney el 195 Guenn v Guenney el 195 Yolden villé, Milletil v Guenney el 195 Nadula villé, Milletil v Fongelienne i v Gueligensian								
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Domain Structure	Settings for ForeignServer 1								
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- Gener Terchates - Mychiath Carpts - Golmma Chattes - Nachres - Hadres - Hadres	A foreign destination (topic or queue) can be found on a 2KDI directory, and the object will be returned from that This page summarizes the foreign destinations that have () Customize this table Foreign Destinations	dentay.	on the local server, a look up will be performed automatically on the remote						
How do Las	(Time) Control	ι.	Shawing 1 to Dail 2 Previous (Next)						
Carfgine foreign servers Create foreign correction factories	🔟 Rame 🙃	Local JHDI Name	Remote 3HDI Name						
Create tarego corrector factores	E Me cont	HER QUELE	NOR QUELT						
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Health of Running Servers	CONTRACTOR OF CONTRACTOR	HER_QUELE_RESPONSE	NGE_QUELE_RESPONSE						
Faled (1)	New Coler		Showing 1 to 2 of 2. Previous (Next						

8) After all the resources are created, **Restart** the Admin and Managed Servers.

7. Application Deployment

1) Deploy the EAR with Target as Cluster-App

Change Center	A COLORED TO COLORED	Log Out Preferences		· .		Q	-			Welcome, weblogic Connected to: base_don
View changes and restarts	Home >JM	IS Modules >MDB_MOD	ULE >ForeignServe	er-1 >JMS M	odules >Sum	mary of Dep	oloyments >!	Summary of Ser	vers >Summa	ary of Deployments >Summary of Servers >Summary of Deployments >GWMDB
Configuration editing is enabled. Future	Settings fo	or GWMDB								
changes will automatically be activated as you modify, add or delete items in this domain.	Overview	Deployment Plan	Configuration	Security	Targets	Control	Testing	Monitoring	Notes	
Domain Structure	startup ti		/ebLogic Server ir	istances an	d clusters to	which you	ı want to de	ploy this Ente	rprise applic	ation. These settings determine where the application is deployed at server
Virtual Hosts Migratable Targets	Change	e Targets								Showing 1 to 1 of 1 Previous Next
Coherence Servers	Co	mponent 🚕				Туре				Current Targets
Machines Work Managers		GWMDB				Enterprise Application				Cluster-App
Startup and Shutdown Classes		GW_MDB_Bean.jar				EJB				(None specified)
Deployments Services Messaging	Change	Targets								Showing 1 to 1 of 1 Previous Next
How do I 🗉	ı —									
 Start and stop a deployed Enterprise application 										

2) Health Should be OK if JMS is configured properly, otherwise Warning will be displayed

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	De	>Summary of Environment >Summary of Servers >Summary oloyments	of Deployments >JMS Modules >MDB_MODULE >Summa	ary of Environme	nt >Summary of Servers >Summa	ry of Deployments >GWMDB > Summary
changes will automatically be activated as you modify, add or delete items in this domain.						
		ry of Deployments				
	ontr	ol Monitoring				
Domain Structure						
	Fo ir Cust	ployed), or deleted from the domain by first selecting th stall a new application or module for deployment to targ omize this table overants all Update Delete Start Stop Stop Stop		ige.		Showing 1 to 5 of 5 Previous Next
Foreign JNDI Providers		Name 🗠	State	Health	Туре	Deployment Order
How do L		E FCUBSApp	Active	🖋 ок	Enterprise Application	100
		E GWEJB	Active	🖋 ОК	Enterprise Application	100
		E GWMDB	Active	🖋 ок	Enterprise Application	100
Update (redeploy) an Enterprise application Start and stop a deployed Enterprise	3	f jax-rs(1.1,1.9)	Active		Library	100
application		E SWEJB	Active	🖋 ОК	Enterprise Application	100
Monitor the modules of an Enterprise		-0				

8. Frequently Asked Questions

8.1 Application and JMS Cluster Deployed on Same Cluster

Application and JMS Module can be deployed on the same cluster. In this document both are on different clusters, however it is possible to deploy on the one cluster. When it is deployed on same cluster then

- 1) Foreign Server Creation is not required
- 2) Targets should be given accordingly during SubDeployment Creation

8.2 <u>Application Shows Warning upon Restart of</u> <u>Managed Servers</u>

Managed Servers Start Order

- 1) Stop all managed servers.
- 2) Start only the JMS Cluster managed servers.
- 3) After these are started then start the App Cluster managed servers.

Even after proper JMS setup when the managed servers are restarted Health of the Application is Warning

Change Center	6	Home	e Log Out Preferences 🔤 Record Help	Q			Welcome, v	veblogic Connected to: base_dom
View changes and restarts		-lome >5	umma ry of Deployments					
Configuration editing is enabled. Future	Su	mmary	of Deployments					
changes will automatically be activated as you modify, add or delete items in this domain.	C	ontrol	Monitoring					
Domain Structure								
Environment Deployments Services Security Realms Interoperability Diagnostics		(redep	ge displays a list of Java EE applications and oyed), or deleted from the domain by first so all a new application or module for deployme nize this table ments	electing the application name and using	the controls on this page	his domain. Insta ge.	led applications and modules	can be started, stopped, updated
		Instal						5howing 1 to 5 of 5 Previous Next
		matan			1			Showing 1 to 5 or 5 Previous Next
			ame 🖗		State	Health	Туре	Deployment Order
			FCUBSApp (12.0.3.0)		Active	🛩 ок	Enterprise Application	100
How do I 🗉			GWEDB		Active	🖋 ок	Enterprise Application	100
Install an Enterprise application Configure an Enterprise application	ſ		GWMDB		Active	A Warning	Enterprise Application	100
Update (redeploy) an Enterprise application			Jax-rs(1.1,1.9)		Active		Library	100
Start and stop a deployed Enterprise application	6		SWEJB		Active	🖋 ок	Enterprise Application	100
Monitor the modules of an Enterprise application		Instal	Update Delete Start V Stop V					5howing 1 to 5 of 5 Previous Next
Deploy EJB modules								
Deproy EDB modules								

- 1) Force Stop the Application
- 2) Then Start the Application, this would resolve the Warning and the Health of Deployment is changed to OK.

8.3 Securing File Store Data

In order to properly secure file store data, set appropriate directory permissions on all file store directories. If data encryption is required, use appropriate third-party encryption software.

8.4 t3s Protocol

To secure the communication with the JMS Server use t3s protocol instead of t3. This is applicable when connecting to the connection factory to send or receive messages and also in the JNDI Connection URL provided in foreign server creation.

NOTE: when using the t3s protocol SSL Listen Port Enabled should be checked in server template and the port number used in the URL should be secure port.

8.5 How to Test the Deployment

1) Navigate to Services → JMS Modules → JMS_MODULE → MDB_QUEUE → MONITORING

A CARDON CONTRACTOR AND A CONTRACTOR OF THE										
Configuration editing is enabled. Future changes will automatically be activated as you	Settings for MDB_QUEUE									
modify, add or delete items in this domain.	Configuration	Security	Monitoring	Subdeployment	Notes					
Domain Structure	destination.						nember destination name in the table b d then click the Show Messages butt	elow to manage the messages on that		
Clusters Virtual Hosts Migratable Targets	🖗 Customize t									
Coherence Servers Coherence Clusters	Destinations	(Filtered -	More Column	is Exist)						
Coherence Clusters Machines	Destinations Show Messa		More Column	is Exist)				Showing 1 to 2 of 2 Previous		
Coherence Clusters		iges	More Column	is Exist)		Consumers Current	Consumers High	Showing 1 to 2 of 2 Previous Consumers Total		
Coherence ClustersMachinesWork ManagersStartup and Shutdown ClassesDeploymentsServices	Show Messa	iges A	More Column			Consumers Current	Consumers High 64			
Coherence Clusters Machines Work Managers Startup and Shutdown Classes	Show Messa Name of JMs_MC	iges A DDULE!JMSSe		QUEUE				Consumers Total		

2) Select any one Server and Click on Show Messages

Configuration editing is enabled. Future changes will automatically be activated as you	Summary of JMS Messages				
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Manage distributed queue messages Manage topic durable subscribers	New Delete v Move v In	nport Export v			Showing 1 to 0 of 0 Previous Next
System Status					

3) Click on New and enter the Message in Body and Click on OK

Change Center			Hereonic, Hebogic connected to, base_donian
View changes and restarts	Home >Configuration >MDBQCF >JMS Mod	ules >JMS_MODULE >MDB_QUEUE >Summary of JMS Messages >JMS Mod	ules >JMS_MODULE >MDB_QUEUE >Summary of JMS Messages
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4) Message is Sent

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Manage distributed queue messages	🔲 ID 🐟	CorrId	Time Stamp	State String	JMS Delivery Mode	Message Size
Manage topic durable subscribers	D:<257876.1411126889162.0>		Fri Sep 19 17:11:29 IST 2014	receive transaction	Persistent	472
System Status	New Delete V Move V Import E	¢port ✓			Showin	g 1 to 1 of 1 Previous Next
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5) Verify at backend or in the MDB log if the message is processed successfully.

8.6 <u>Increase maximum number of message-driven bean</u> <u>threads</u>

Default number of consumers for an MDB is 16. To increase or restrict this number create Custom Work Manager with a Max Threads Constraint in conjunction with MDBs.

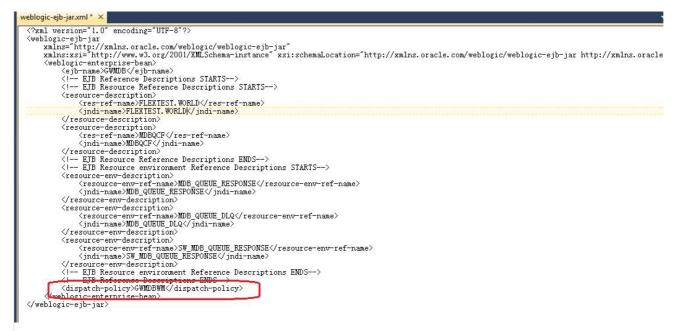
The solution is to create a work manager with a max threads constraint and assign the proxy services dispatch policy to this work manager.

Steps to create custom work manager

- 1) Modify the MDB deployment description and redploy the EAR
- 2) Create Custom Workmanager and add constraints to limit the number of the max MDB threads

8.6.1 Modify weblogic-ejb-jar.xml

1) Add below line to the weblogic-ejb-jar.xml of the MDB Ear <dispatch-policy>GWMDBWM</dispatch-policy>



2) Remove if any of the below tags present in weblogic-ejbjar.xml max-beans-in-free-pool and initial-beans-in-free-pool

3) Save the ear file and redeploy the EAR file.

8.6.2 Work Manager Creation

 Login into weblogic console, navigate to Domain → Environment → WorkManager Create new workmanager with the name GWMDBWM(as mentioned in property file) by following below steps

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Coherence Clusters Machines	Fair Share Request Class			
Virtual Hosts	Context Request Class			
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2) Create new Max Thread Constraint and in the Count field give the desired thread count

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3) Modify the newly created workmanager and assign the Maximum Thread Constraint that is created in above step.

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4) Restart managed servers and notice the change in the number of consumers for the QUEUE's.

8.7 How High Availability is achieved

1) Application Server:

MDB_MODULE and the GWEJB ear are deployed in a cluster. Cluster has 4 managed servers, if any server goes down then the messages are processed by other managed servers.

2) JMS Provider:

JMS is deployed on 2 managed servers, JMSServer1 and JMSServer2, if any one goes down other will handle the messages.

- FileStore: File store is a cluster file system or database where if one node goes down then other will handle the requests.
- 4) DB Server:

Database is installed in RAC mode where it has more than 1 node, if a node goes down then other nodes will handle messages.

8.8 How to setup for Scheduler/Notifications

The above document can be used for setting up JMS for scheduler/notifications but additional queues and connection factory needs to be created.

8.9 What other modules uses JMS Queue's

JMS is used by following modules, relevant queues and factories needs to be created additionally

- 1) EMS for swift messages
- 2) GI for upload
- 3) ELCM
- 4) BIP

8.10 <u>References</u>

- 1) FCUBS_12.1_Weblogic12c_Middleware_Practices.doc
- 2) GATEWAY_Applications_WL.doc
- 3) Resource_Creation_WL.doc



Oracle Banking Payments Weblogic Configuration [June] [2024] Version 14.7.4.0.0

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