Configuring JMS on Weblogic Server 12c Oracle Banking Enterprise Limits and Collateral Management Release 14.7.2.0.0 Part No. F98472-01 [December] [2023]

FINANCIAL SERVICES

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1. Introduction

1.1 Introduction

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

1.2 Purpose

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

- 1) OBELCM 12.1
- 2) WebLogic Server 12.1.3.0.0

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

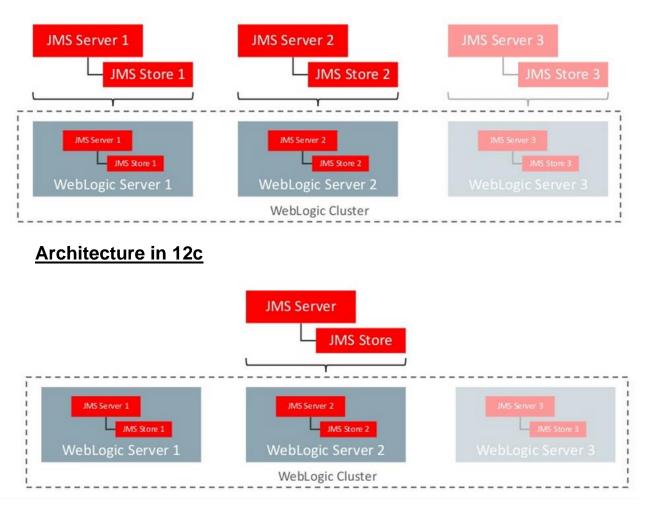
- 1) File based persistence store -> Message is stored in a file
- 2) DB based persistence store -> Message is stored in Database.

1.3 Weblogic 12c New Features

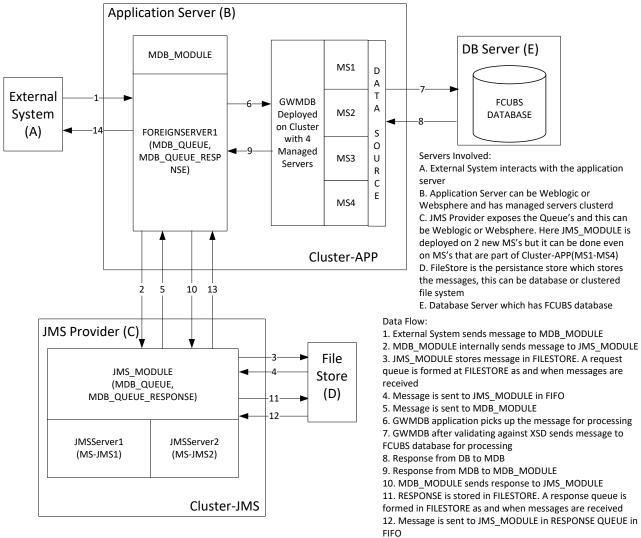
Before weblogic 12c JMS Servers and stores are targeted to individual WLS Servers. Scaling up requires configure the JMS server, the store and target it to new WLS Server

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 <u>Machines</u>

MAC-1 & MAC-2

ORACLE WebLogic Server Administration Console 12c					
Change Center	🔒 Home Log Out Preferences 🖂 Record Help	Welcome, weblogic Connected to: pegjms			
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.	A machine is the logical representation of the computer that hosts one or more WebLogic Server instances (optimum server in a cluster to which certain tasks, such as HTTP session replication, are delegated. The Adm Manager to start remote servers.				
🛱 - Environment	This page displays key information about each machine that has been configured in the current WebLogic Se	erver domain.			
Servers					
ClustersCoherence Clusters	Customize this table				
	V Customize this table				
	Machines				
Work Managers Startup and Shutdown Classes	New Clone Delete	Showing 1 to 2 of 2 Previous Next			
Deployments Services	🔲 Name 🗞 Ty	уре			
Security Realms Journal Strength Strengt Strength Strength Strength Strength Strengt	MAC-1 Ma	chine			
+-Diagnostics	MAC-2	chine			
How do I	New Clone Delete	Showing 1 to 2 of 2 Previous Next			
Create and configure machines					
 Assign server instances to machines 					

2.2 Dynamic Clusters and Managed Servers

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

eblogic Connected to: FCUBSDo
malatan Communiat
implates > Summary or
Showing 1 to 2 of 2 Previous Nex
t Channel Servers
DC_FCUBS_1, DC_FCUBS_2, DC_FCUBS_3, DC_FCUBS_4
DC_JMS_1,
DC_JMS_2



	ministration Console 12c						Õ
Change Center	館 Home Log Out Preferences 🖂	Record Help	Q			Welcome, we	blogic Connected to: FCUBSDomai
View changes and restarts	Home > Summary of Server Templates > Summary of Clusters > Summary of Clusters > Summary of Servers > Summary of S						
Click the Lock & Edit button to modify, add or delete items in this domain.	Summary of Servers						
Lock & Edit	Configuration Control						
Release Configuration							
Domain Structure	A server is an instance of WebLogic				guration.		
	This page summarizes each server t	hat has been configured in t	he current WebLogic Ser	ver domain.			
E-Environment	<u>2</u> 5						
ClustersServer Templates	Customize this table						
Migratable Targets	-						
Coherence Clusters Machines	Servers (Filtered - More Colum Click the Lock & Edit button in the		all the huttens on this on				
Virtual Hosts Work Managers		Change Center to activate	all the buttons on this pa	ye.			
Startup and Shutdown Classes	New Clone Delete					Sho	owing 1 to 7 of 7 Previous Next
Deployments	🔲 Name 🗞	Туре	Cluster	Machine	State	Health	Listen Port
Security Realms	AdminServer(admin)	Configured			RUNNING	🖋 ок	7001
How do I 🗉	DC_FCUBS_1	Dynamic	Cluster-App	MAC-1	SHUTDOWN	Not reachable	7101
Create Managed Servers	DC_FCUBS_2	Dynamic	Cluster-App	MAC-2	SHUTDOWN	Not reachable	7102
Clone servers	DC_FCUBS_3	Dynamic	Cluster-App	MAC-1	SHUTDOWN	Not reachable	7103
Delete Managed Servers Delete the Administration Server	DC_FCUBS_4	Dynamic	Cluster-App	MAC-2	SHUTDOWN	Not reachable	7104
Start and stop servers	DC_JMS_1	Dynamic	Cluster-JMS	MAC-1	SHUTDOWN	Not reachable	7106
	DC_JMS_2	Dynamic	Cluster-JMS	MAC-2	SHUTDOWN	Not reachable	7107
System Status	New Clone Delete					She	owing 1 to 7 of 7 Previous Next
Health of Running Servers							
Failed (0)							

2.3 DataSource

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

	Administration Console	Q		
Change Center	🕜 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: base_domai		
View changes and restarts	Home >JMS Modules >JMS_MODULE >MDB_QUEUE >Summary of JMS Messages >JMS Modules >JMS_MODULE >MDB_QUEUE Sources	E >Summary of JMS 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 Configuration Monitoring			
Domain Structure Services -Servers -Store-and-Forward Agents -Path Services B-Bridges -Data Sources -Persistent Stores	A JDBC data source is an object bound to the JNDI tree that provides database connectivity through a pool of JDBC borrow a database connection from a data source. This page summarizes the JDBC data source objects that have been created in this domain. Customize this table Data Sources (Filtered - More Columns Exist)	connections. Applications can look up a data source on the JNDI tree and then		
Foreign JNDI Providers Work Contexts	New Delete Showing 1 to 3 of 3 Previous Next			
XML Registries XML Entity Caches	🗌 Name 🔅 Type JNDI Name	Targets		
-jCOM -	FLEXTEST.WORLD Generic FLEXTEST.WORLD	Cluster-App		
·······	idhe/feidauDC Conste idhe/feidauDC	AdminEquer		

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 🖂 Record 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. Domain Structure U:="-UUSTERS	Home >Summary of Servers >Summary of Persistent Stores Messages C Create operation cancelled - no file store created. Summary of Persistent Stores A persistent store is a physical repository for storing subsystem data, such as persistent JMS messages. It can be a JDBC-accessible database, disk-based file, or replicated memory storage. This page summarizes the persistent stores that have been created for this domain.					
Hou mess Work Managers Startup and Shutdown Classes Deployments B-Services B+Messaging	Customize this table Persistent Stores	Jeared for this domain.				
Data Sources	New v Delete	Showing 0 to 0 of 0 Previous Next				
<u>Persistent Stores</u> Foreign JN_Providers	🖸 Name 🗞 Type	Target				
XML Registries	These are no items to diamage					
How do I	New - Delete	Showing 0 to 0 of 0 Previous Next				
Create File Stores						

ORACLE WebLogic Server Administration Console 12c						
Change Center	🚹 Home Log Out Preferences 🔤 R	ecord Help	Welcome, weblogic Connected to: pegj			
View changes and restarts	Home >Summary of Servers >Summary	of Persistent Stores				
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 file store created.					
	Summary of Persistent Stores					
Domain Structure er-ousters →Coherence Clusters →Machines →Work Managers →Startup and Shutdown Classes →Deployments ⊖Services		ory for storing subsystem data, such as persisten s page summarizes the persistent stores that hav	JMS messages. It can be a JDBC-accessible database, disk-based been created for this domain.			
Messaging Data Sources	New 🗸 Delete		Showing 0 to 0 of 0 Previous Next			
Persistent Stores Foreign JNDI Providers Work Contexts	Create FileStore	Туре	Target			
XML Registries	Create ReplicatedStore (Exalogic) There are no items to display					
How do I	New V Delete		Showing 0 to 0 of 0 Previous Next			
Create File Stores						



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

	dministration Console 12	c			Q
Change Center	Home Log Out Pre	ferences 🔤 Record Help	٩		Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home >Summary of Clu of Persistent Stores	sters >Summary of Servers >Su	ummary of Clusters >Summary of Ser	rvers >Summary of Clusters >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 Sto	re			
domain. Lock & Edit Release Configuration	OK Cancel File Store Propertie The following propertie	≥s ≥s will be used to identify you	r new file store.		
Domain Structure	* Indicates required field				
Environment Servers Clusters Viserver Templates Wigratable Targets	What would you like to * Name:	name your new file store? FileStore-1			
Coherence Clusters Machines	Select a server instance	e for this file store.			
Virtual Hosts Work Managers Startup and Shutdown Classes	Target:	Cluster-JMS -			
Deployments	The pathname to the d	rectory on the file system wh	ere the file store is kept. This direc	tory must exist on your system, so	be sure to create it before completing this tab.
-Services	Directory:	/scratch/work_area/	JMS_FILESTORE		
How do I 🗉	OK Canad				
Create File Stores	OK Cancel				
 Monitor persistent stores 					

3) FileStore-1 is created

ORACLE WebLogic Server Administration Console 120						
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: FCUBSDomain			
View changes and restarts	Home >Summary of Clusters >Summary of Servers >Summary of Cluster of Persistent Stores	s >Summary of Servers >Summary of Clusters >Cluster-JMS >	Summary of Servers >Summary of Clusters >Summary of Servers > Summary			
Click the Lock & Edit button to modify, add or delete items in this domain.	Messages					
Lock & Edit	All changes have been activated. No restarts are necessary.					
Release Configuration	Summary of Persistent Stores					
Domain Structure ServersOustersMigratable TargetsCoherence ClustersMignesMachines E	A persistent store is a physical repository for storing subsystem dat summarizes the persistent stores that have been created for this de Customize this table Persistent Stores		ssible database, disk-based file, or replicated memory storage. This page			
Virtual Hosts Work Managers	Click the Lock & Edit button in the Change Center to activate all th	e buttons on this page.				
Startup and Shutdown Classes	New ~ Delete		Showing 1 to 1 of 1 Previous Next			
⊟-Services ⊞-Messaging	🔲 Name 🔅	Туре	Target			
Data SourcesPersistent Stores	FileStore-1	FileStore	Cluster-JMS			
How do I	New ~ Delete		Showing 1 to 1 of 1 Previous Next			
Create File Stores						



3.2 JMS Server Creation

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

ORACLE WebLogic Server Administration Console 12c							
Change Center	🔒 Home Log Out Preferences 🔤 Record Help						
View changes and restarts	Home >Summary of Servers >Summary of Persistent Stores >Summary of JMS Servers						
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	changes will automatically be activated as you 🔗 Create operation cancelled - no JMS Servers created.						
	Summary of JMS Servers						
Domain Structure							
⊡-Services ⊡-Messaging JMS Servers	📄 Name 🗞 Persistent Store	Target	Current Target	Health			
Store-and-Forward Agents							
How do I 🗆	New Delete Showing 0 to 0 of 0 Previous Next						
Configure JMS servers							
Configure JMS system modules							

2) .Select FileStore-1 , Click Next

	dministration Console 12c		Q
Change Center	🏠 Home Log Out Preferences 🔤 Record He	elp Q	Welcome, weblogic Connected to: FCUBSDoma
View changes and restarts	Home >Summary of Servers >Summary of Clusters Stores >Summary of JMS Servers	s >Summary of Servers >Summary 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	Create a New JMS Server		
domain.	Back Next Finish Cancel		
Release Configuration	JMS Server Properties		
Domain Structure	The following properties will be used to identify * Indicates required fields	your new JMS Server.	
EnvironmentServers =	What would you like to name your new JMS Serv	ver?	
	🎳 * Name:	JMSServer-1	
Coherence Clusters Machines	Specify persistent store for the new JMS Server		
Virtual Hosts Work Managers	Persistent Store:	FileStore-1 Create a New Store	
Startup and Shutdown ClassesDeploymentsServices	Back Next Finish Cancel	(none) FileStore-1	
- Messaning -			

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

ORACLE' WebLogic Server Administration Console 12c							
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 Stores > Summary of JMS Servers	Home > Summary of Servers > Summary of Clusters > Summary of Servers > Summary of Clusters > Cluster JMS > Summary of Servers > Summary of Clusters > Summary of Servers > Servers > Servers > Servers > Servers > Servers					
No pending changes exist. Click the Release Configuration button to allow others to edit the	Create a New JMS Server						
domain.	Back Next Finish Cancel						
Release Configuration	Select targets						
Domain Structure	Select the server instance or migratable target on which you would like to deploy this JMS Server.						
Domain Structure	Target: (none)						
Environment Servers Clusters Server Templates Migratable Targets	Back Next Finish Cancel (none) AdminServer Cluster-App Cluster-JMS						



	dministration Console 12c		Q
Change Center	Home Log Out Preferences [Record Help	Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home >Summary of Servers >Sum Stores >Summary of JMS Servers		ter-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	Create a New JMS Server		
domain.	Back Next Finish C	Cancel	
Release Configuration	Select targets		
	Select the server instance or mig	ratable target on which you would like to deploy this JMS Server	r.
Domain Structure	Target:	Cluster-JMS 💌	
Environment Servers Clusters Server Templates Mingatable Targets	Back Next Finish C	Cancel	

4) JMS-Server-1 is created

-					
	Administration Console 12c				õ
Change Center	🔒 Home Log Out Preferences 🔤 R	Record Help		Welcon	ne, weblogic Connected to: FCUBSDomain
View changes and restarts	Home >Summary of Servers >Summary Stores >Summary of JMS Servers	of Clusters >Summary of Servers >Summary of Clu	sters >Cluster-JMS >Summary of	f Servers >Summary of Clusters >Summary o	f Servers >Summary of Persistent
Click the Lock & Edit button to modify, add or delete items in this domain.	Messages				
Lock & Edit	All changes have been activated. I	No restarts are necessary.			
Release Configuration	Summary of JMS Servers				
Domain Structure	JMS servers act as management cont	tainers for the queues and topics in JMS modules	that are targeted to them.		
-Environment -Servers -Clusters	This page summarizes the JMS server	rs that have been created in the current WebLogi	c Server domain.		
Server Templates	Customize this table				
Machines	JMS Servers (Filtered - More Col	umns Exist)			
Virtual Hosts Work Managers	Click the Lock & Edit button in the C	hange Center to activate all the buttons on this p	age.		
Startup and Shutdown Classes	New Delete				Showing 1 to 1 of 1 Previous Next
Services B-Messaging	🔲 Name 🗞	Persistent Store	Target	Current Target	Health
JMS Servers 🔻	JMSServer-1	FileStore-1	Cluster-JMS	Cluster-JMS	
How do I	New Delete				Showing 1 to 1 of 1 Previous Next
Configure JMS servers					
 Configure JMS system modules 					

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	Home Log Out	Preferences	Recor	d Help		Q		Welcome, we	eblogic Connec	ted to: pegjm
View changes and restarts		Home >Summary of Servers >Summary of Penistent Stores >Summary of JMS Servers >Summary of Clusters >Summary of Highstable Targets >Summary of Clusters >Cluster-JMS >Summary of Highstable Targets >Summary of Clusters								
Configuration editing is enabled. Puture changes will automatically be activated as you modify, add or delete items in this domain.	Summary of Clust	iummary of Clusters								
Domain Structure						ment Webkogic Servi				
8-Environment	A cluster defines	groups or wes	kogic serv	er servers that	t work togethe	r to increase scalabi	ity and relability.			
Ousters Coher Sce Clusters	© Customize this	table rd - More Co	homes Friday							
Mach Chusters, Level 2, Collapsed, 2 of 7, Witual roma Work Managers	New v Oor			mu)				Showing	1 to 2 of 2 Prev	ious Next
Startup and Shutdown Classes Deployments B-Services	🔲 Name 🙃	Cluster Ad	dress (Juster Hessa	ging Hode	Higration Basis	Default Load Alg	porithm Rep	plication Type	Cluster Bri
Security Realms	Custer-App		U	nicast		Database	Round Robin	(Nor	ne)	
How do L. B	Custer-345		U	nicast		Database	Round Robin	(Nor	ne)	
2) Click on Mig CRACLE WebLogic Server A Change Center View changes and restarts	dministration Conso	t Preferences of Servers >Su	mmary of P	ersistent Stores :			y of Clusters >Summar		eblogic Connect	
Configuration editing is enabled. Future changes will automatically be activated as you	Clusters >Cluster-J		of Migratat	ble Targets >Sun	nmary of Cluste	rs >Cluster-JMS				
modify, add or delete items in this domain.	Configuration Monitoring Control Deployments Services Notes									
Domain Structure	General JTA	Messaging	Servers	Replication	Migration	Singleton Services	Scheduling Ov	verload Heal	Ith Monitoring	нттр
Er-Environment	Coherence					-				
Servers ÐClusters Coherence Clusters	Save									
Change Migra	ation Basis	to Con	sensi	us and (Click o	n Save				

1) Click on Environment \rightarrow Clusters \rightarrow Cluster-JMS



4. JMS Module Creation

4.1 Module Creation

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

	ORACLE WebLogic Server Administration Console 12c						
Change Center	🟦 Home Log Out Preferences 🔤 Record Help	ed to: pegjms					
View changes and restarts	Home >Summary of Migratable Targets >MS-JMS1 (migratable) >Summary of Migratable Targets >MS-JMS2 (migratable) >Summary of Clusters >Summary of I Targets >MS-JMS1 (migratable) >Summary of Clusters >Summary of Migratable Targets > Summary of JMS Modules	Migratable					
Configuration editing is enabled. Future changes will automatically be activated as you	Messages						
modify, add or delete items in this domain.	The JMS module configuration was canceled.						
Domain Structure	Summary of JMS Modules						
B-Environment Deployments B-Services MS Servers MS Servers MS Servers	JMS system resources are configured and stored as modules similar to standard J2EE modules. Such resources include queues, topics, connection far 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. This page summarizes the JMS system modules that have been created for this domain. Customize this table JHS Modules	ictories,					
Persistent Stores Foreign JNDI Providers	New Delete Showing 0 to 0 of 0 Previo	ous Next					
How do L	☐ Name ↔ Type						
Configure JMS system modules	There are no items to display						
Configure resources for JMS system modules	New Delete Showing 0 to 0 of 0 Previous	ous Next					
System Status 🖂							

2) Enter name as JMS_MODULE and Click on Next

	ministration Console 12c	Q
Change Center	🔒 Home Log Out Preferences 🖂 Record Help	Welcome, weblogic Connected to: pegjms
View changes and restarts	Home >Summary of Migratable Targets >MS-JMS1 (migratable) >Summary of Migratable Targets > Targets >MS-JMS1 (migratable) >Summary of Clusters >Summary of Migratable Targets > Summa	
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 Nrth Cancel	
	The following properties will be used to identify your new module.	
B Environment →Deployments Services = → Messaging → JMS Servers → JMS Modules	JMS system resources are configured and stored as modules similar to standard J2EE modul templates, destination keys, quota, distributed queues, distributed topics, foreign servers, administratively configure and manage JMS system modules as global system resources. * Indicates required fields	
Path Services Path Services Data Sources Persistent Stores Foreign JNDI Providers	What would you like to name your System Module? * Name: JMS_Module	
Work Contexts	What would you like to name the descriptor file name? If you do not provide a name, a defau	ult will be assigned.
How do I • Configure JMS system modules	Descriptor File Name:	
Configure JMS servers	Where would like to place the descriptor for this System Module, relative to the jms configura	ation sub-directory of your domain?
System Status	Location In Domain:	
Health of Running Servers	Back Next Finish Cancel	
Failed (0)		

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



ORACLE WebLogic Server A	dministration Console 12c		Q
Change Center	🙆 Home Log Out Preferences 📈 Record Help	Q.	Welcome, weblogic Connected to: FCU8SDomai
View changes and restarts	Home >Summery of Server Templates >DC_3HS_Template-0 >So Mignitude Targets >Summary of 3HS Hodules	mmary of Servers xSummary of Highstable	Targals >Summary of 3HS Servers >3HSServer3 >Summary of 3HS Servers >3HSServer3 >Summary of
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit	Create JHS System Hodale		
Release Configuration	The following properties will be used to target your	new JHS system module.	
Domain Structure	Use this page to select the server or duster on which you w	ould like to deploy this JMS system module	e. You can reconfigure targets later if you wish.
Environment Servers Ousters	Targets :		
Server Templates Migratable Targets	Servers		
- Coherence Clusters - Machines - Wrbail Hosts	AdminServer		
Work Managers Startup and Shutdown Classes	Clusters		
Deployments Diservices Differences	Clester-App O All servers in the cluster		
How do I 🛛	Cluster-JHS		
Configure 345 system modules Configure 345 servers	All servers in the cluster		

4) Select the checkbox and Click on Finish

ORACLE WebLogic Server Ad	ninistration Console 12c	Q					
Change Center	🏠 Home Log Out Preferences 🖂 Record Help	Welcome, weblogic Connected to: pegjms					
View changes and restarts	Home >Summary of Migratable Targets >MS-JMS1 (migratable) >Summary of Migratable Targets >M Targets >MS-JMS1 (migratable) >Summary of Clusters >Summary of Migratable Targets > Summary						
Configuration editing is enabled. Future changes will automatically be activated as you	Create JMS System Module						
modify, add or delete items in this domain.	Back Next Finish Cancel						
Domain Structure	Add resources to this JMS system module						
B-Environment →Deployments B-Services D-Messaging	Use this page to indicate whether you want to immediately add resources to this JMS system n connection factories, etc.	module after it is created. JMS resources include queues, topics,					
JMS Servers Store-and-Forward Agents	Would you like to add resources to this JMS system module?						
JMS Modules Path Services ⊡Bridges	Back Next Finipp Cancel						
Data Sources Persistent Stores Foreign JNDI Providers							

5) JMS_MODULE is created

	r Administration Console 12c		Q
Change Center	Home Log Out Preferences 🔤 Record Hel	P	Welcome, weblogic Connected to: pegjn
View changes and restarts	Home >MS-JMS1 (migratable) >Summary of Migratal (migratable) >Summary of Clusters >Summary of Mi		v of Clusters >Summary of Migratable Targets >MS-JMS1 JMS Module
Configuration editing is enabled. Future changes will automatically be activated as yo	Messages		
modify, add or delete items in this domain.	 All changes have been activated. However 1 is The JMS module was created successfully. 	items must be restarted for the changes to	take effect.
Jomain Structure	Settings for JMS_Module		
-Environment Deployments	Configuration Subdeployments Targets	Security Notes	
È-Services È-Messaging →-JMS Servers →-Store-and-Forward Agents →-JMS Modules	E This page displays general information about a J resources.	MS system module and its resources. It also	allows you to configure new resources and access existing
Path Services Path Services	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
Foreign JNDI Providers Work Contexts	 This page summarizes the JMS resources that ha JMS templates, destination sort keys, destination 		e, including queue and topic destinations, connection factories, ervers, and store-and-forward parameters.



4.2 Sub Deployment Creation

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

	dministration Console 12c				Q			
Change Center	Home Log Out Preference	s 📐 Record Help	Q	Welcome, we	blogic Connected to: pegjms			
View changes and restarts			e Targets >MS-JMS2 (migratable) > ratable Targets >Summary of JMS N	Summary of Clusters >Summary of Migratable Targ Modules >JMS_Module	gets >MS-JMS1			
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.		Messages ✔ All changes have been activated. However 1 items must be restarted for the changes to take effect.						
Domain Structure		ed successfully.						
	Settings for JMS_Module							
Environment Deployments	Configuration Subdeploym	nents Targets	Security Notes					
Services Messaging Mossaging Servers Servers		bdeployments- Ta formation about a JM		es. It also allows you to configure new resources	and access existing			
Path Services Bridges	Name:	נ	4S_Module	The name of this JMS system modu	le. More Info			
Data SourcesPersistent StoresForeign JNDI ProvidersWork ContextsWork Contexts	Descriptor File Name:	Descriptor File Name: jms/jms_module-jms.xml The name of the JMS module descriptor file. More Info						
How do I				em module, including queue and topic destination foreign servers, and store-and-forward paramet				
No task help found.	Customize this table							
System Status 🖂	Summary of Resources							
Health of Running Servers	New Delete			Showing	0 to 0 of 0 Previous Next			
Failed (0) Critical (0)	🔲 Name 🗞	Туре	JNDI Name	Subdeployment	Targets			
Overloaded (0)	Ţ,		There are no item	s to display				
Warning (0) OK (1)	New Delete			Showing	0 to 0 of 0 Previous Next			
WebLogic Server Version: 12.1.3.0.0								
Copyright (c) 1996,2014, Oracle and/or its affiliates. A Oracle is a registered trademark of Oracle Corporatio		be trademarks of the	r respective owners.					

2) Enter name as JMS_SUB and click on Next

	dministration Console 12c Q
Change Center	Home Log Out Preferences 🗠 Record Help Welcome, weblogic Connected to: pegjm
View changes and restarts	Home >MS-JMS1 (migratable) >Summary of Migratable Targets >MS-JMS2 (migratable) >Summary of Clusters >Summary of Migratable Targets >MS-JMS1 (migratable) >Summary of Clusters >Summary of Migratable Targets >Summary of JMS Modules >JMS_Module
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create a New Subdeployment Back Inish Cancel Subdeployment Properties Subdeployment Properties
Deployments Services Messaging	The following properties will be used to identify your new subdeployment. * Indicates required fields
JMS Servers Store-and-Forward Agents JMS Modules Path Services B-Bridges Data Sources Persistent Stores	* Subdeployment Name: JMS_SUB Back Next Finish Cancel



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

	dministration Console 12c	Q
Change Center	🏦 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home >DC_JMS_Template-0 >Summary of Servers >Summary of Migratable Targets > JMS Modules >JMS MODULE	iummary of JMS Servers >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 domain.	Create a New Subdeployment	
Lock & Edit	Back Next Finish Cancel	
Release Configuration	Targets	
Domain Structure	Please select targets for the Subdeployment	
	Servers	
⊖-Environment Servers ⊖-Clusters	AdminServer	
Server Templates	Clusters	
Coherence Clusters Machines	☑ Cluster-JMS ◎ All servers in the cluster	
Virtual Hosts Work Managers	• All servers in the cluster	
LStartup and Shutdown Classes	JMS Servers	
-Services	JM55erver-1	
How do I 🗉	Back Next Finish Cancel	
 Configure subdeployments in JMS system modules 	Back Next Finish Cancel	

4) Sub-Deployment is created

ORACLE WebLogic Server Ad	Iministration Conso	le 12c				Q	
Change Center	Home Log Out	t Preferences 📐 Re	ecord Help		Q	Welcome, weblogic Connected to: pegjms	
View changes and restarts		(migratable) >Summary imary of Clusters >Sumi				ummary of Clusters >Summary of Migratable Targets >MS-JMS1 vdules > JMS_Module	
Configuration editing is enabled. Future	Messages	lessages					
changes will automatically be activated as you modify, add or delete items in this domain.	All changes ha	ave been activated. He	owever 1 item	is must be res	tarted for the chang	iges to take effect.	
	Subdeploymer	nt created successfully	<i>.</i>				
Domain Structure							
	Settings for JMS	_Module					
-Environment Deployments	Configuration 5	5ubdeployments	Targets S	ecurity Not	es		
Services Messaging Messaging Missaging Missaging Missaging Missaging Store-and-Forward Agents Missaging Missaging		ection factories) are g s table				ent is a mechanism by which JMS module resources (such as queues, ch as JMS servers, server instances, or duster).	
Foreign JNDI Providers	New Delet	e				Showing 1 to 1 of 1 Previous Next	
How do I 🗆	🔲 Name 🗞			Resources		Targets	
Configure subdeployments in JMS system	JMS_SUB					Cluster-JMS	
modules Configure JMS system modules 	New Delet	e V				Showing 1 to 1 of 1 Previous Next	
System Status							



4.3 **Resource Creation**

4.3.1 Queue Creation

1) In JMS_MODULE Click on New

ORACLE WebLogic Server Ad	ministration Conso	le 12c							Q
Change Center	🔒 Home Log Out	t Preferences 📐	Record Hel	p		Q	Welcome, w	eblogic	Connected to: pegjms
View changes and restarts		ie >MS-JMS1 (migratable) >Summary of Migratable Targets >MS-JMS2 (migratable) >Summary of Clusters >Summary of Migratable Targets >MS-JMS1 ratable) >Summary of Clusters >Summary of Migratable Targets >Summary of JMS Modules > JMS_Module							
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	This page display resources.	ys general informat	ion about a J	MS system	module an	d its resources.	It also allows you to configure new resourc	es and ac	cess existing
E-Services	Name:			JMS_Module	e		The name of this JMS system mo	dule. Mo	ore Info
JMS Servers Store-and-Forward Agents JMS Modules Path Services	Descriptor File	Name:	1	jms/jms_ma	dule-jms.x	ml	The name of the JMS module des	criptor fil	e. More Info
Yath Services B-FidgesData SourcesPersistent StoresForeign JND2 ProvidersWork Contexts		lestination sort key					module, including queue and topic destinati eign servers, and store-and-forward param		ection factories,
How do I	Summary of R	esources							
No task help found.	New Delet	е					Showin	g 0 to 0 o	f 0 Previous Next
System Status	🔲 Name 🐟	Ту	/pe	JNDI N	ame		Subdeployment	Tar	jets
Health of Running Servers					There	are no items t	o display		
Failed (0) Critical (0) Overloaded (0)	Nev Delet	е					Showin	g 0 to 0 o	f0 Previous Next

2) Select Distributed Queue and Click on Next

	dministration Console 12c	Q
Change Center	🟦 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: pegjms
View changes and restarts	Home >MS-JMS1 (migratable) >Summary of Migratable Targets >MS-JMS2 (migra (migratable) >Summary of Clusters >Summary of Migratable Targets >Summary i	
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain. Domain Structure Domain Structure Deployments -Services -MS Servers -MS Forvers -MS Modules -Path Services B-Brdges -Data Sources	Create a New JMS System Module Resource Back Next Fnish Cancel Choose the type of resource you want to create. Use these pages to create resources in a JMS system module, such as queue Depending on the type of resource you select, you are prompted to enter the second	ues, topics, templates, and connection factories. basic information for creating the resource. For targetable resources, like nd topics, foreign servers, and JMS SAF destinations, you can also proceed to ciate targetable resources with subdeployments, which is an advanced
Persistent StoresForeign JNDI ProvidersWork Contexts How do L	🔘 Queue	are used to create connections for JMS clients. More Info 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
Configure quotas for destinations Configure JMS templates Configure destination keys Configure topics Configure queues	© Topic	Defines a publish/subscribe destination type, which are used for asynchronous peer communications. A message delivered to a topic is distributed to all topic consumers. More Info
Configure connection factories Configure uniform distributed topics Configure uniform distributed queues	Distributed Queue	Defines a set of queues that are distributed on multiple JMS servers, but which are accessible as a single, logical queue to JMS clients. More Info

3) Enter the queue name and Click on Next



	dministration Console 12c	Q
Change Center	😰 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: pegjms
View changes and restarts	Home >MS-3MS1 (migratable) >Summary of Migratable Targets >MS-3MS2 (migratable) >Summary (migratable) >Summary of Clusters >Summary of Migratable Targets >Summary of 3MS Modules >	
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain. Domain Structure Berwironment Deployments Berwiros Store-and-Forward Agents JNS Modules Path Services Berlidges Data Sources Persistent Stores Persistent Stores Work Contexts	Create a New JHS System Module Resource Back Finish Cancel JHS Distributed Destination Properties The following properties will be used to identify your new Distributed Queue. The current m * Indicates required fields	odule is JMS_Module
	What would you like to name your new destination? * Name: MDB_QUEUE What JNDI Name would you like to use to look up your new destination? JNDI Name: MDB_QUEUE	

4) Click on Advance Targeting

ORACLE WebLogic Server A	iministration Console 12c		Q
Change Center	1 Home Log Out Preferences 🔛 Record Help	Q	Welcome, weblogic Connected to: PCUBSDomain
View changes and restarts	None xDC_3NS_Template-0 xSummary of Servers xSummary of Tempts xSummary of 2NS Hodgies x3NS_HODULE	Ettgratable Targets > Summary of 245 Servers >	303Server-1 xSummery of 3MS Servers x30SServer-1 xSummery of Nigratable
to pending changes exist. Click the Release configuration button to allow others to edit the	Create a New JHS System Hodule Resource		
tack & Edt	Back Next Finsh Advanced Targeting C	ancel	
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 accept the default targets, then dick Advanced Targetin		It targets are based on the parent 245 system module targets. If you do not want to rgeting this resource.
Environment Sources Sources Mostable Targets -Coherence Clusters Moders	The following 245 module targets will be used as the default appropriately. Targets :	targets for your new 345 system module reso	urce. If the module's targets are changed, this resource will also be retargeted
- Virtual Hosts - Work Managers	Clusters		
Startup and Shutdown Classes Deployments Services	Cluster-3HS		
How do L. 8	Back Next Finish Advanced Targeting C	ancel	

5) Select Subdeployement as JMS_SUB and Click on Finish

ORACLE WebLogic Server	dministration Console 12c	0
Change Center	😰 Home Log Cut. Preferences 💭 Record Help	Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Huma xOC_3HS_Tanglate1 xSummary of Servers a Summary of Highdatia Tangati xSummary of 3HS Servers x3HSDerver1 Tangati xSummary of 3HS Multilia x3HS_H0006.8	sSummary of 3HS Servers s3HSServer 5 cSummary of Highdable
No pending changes exist. Click the Release Configuration button to allow others to edit the	Create a New JHS System Hodule Resource	
domain.	Back, Net Anah, Cancel	
Release Configuration	The following properties will be used to target your new 2HS system module resource	
Domain Structure	Use this page to select a subdiployment to assign this system module resource. A subdiployment is a mechanism by of SAP agent. If recessary, you can create a new subdiployment by clicking the Create a New Subdiployment bufflo module's subdiployment management page.	
Servers a Ousters Server Terglates Migratoble Tergets Oblewood Ousters	Select the subdeployment you want to use. If you select (none), no targeting will occur. Subdeployments: JANS_SUB Cente a New Subdeployment	
- Nachines - Virtuel Hosts - Work Managers - Startup and Shutdown Classes - Deployments	What targets do you want to assign to this subdeployment? Targets :	
8-Services .	Servers	
How do L. 🛛	AdminiServer	
Configure quotas for destinations Configure 345 templates	Cleaters	
Configure destination keys Configure topics Configure topics	Chatter JHS	

6) MDB_QUEUE is created



	Iministration 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 Targets >MS-JMS2 (migratable) >Summary of Clusters >Summary of Migratable Targets >MS-JMS1 (migratable) >Summary of Clusters >Summary of Migratable Targets >Summary of JMS Modules > JMS Module						
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	All changes have been activated. However 1 items must be restarted for the changes to take effect.							
Domain Structure	The JMS distributed queue was created successfully.							
A	Settings for JMS_Module							
-Environment Deployments	Configuration Subdeployments Targets	Security Notes						
Services Messaging Messaging Messaging Store-and-Forward Agents Store-and-Forward Agents Data Sources Data Sources	Name:	IS system module and its resources. It also allows y MS_Module The	ou to configure new resources and an name of this JMS system module. M	-				
Persistent StoresForeign JNDI ProvidersWork Contexts How do L	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, JMS templates, destination sort keys, destination quota, distributed destinations, foreign servers, and store-and-forward parameters.							
No task help found.	Customize this table							
System Status	Summary of Resources							
Health of Running Servers	New Delete		Showing 1 to 1 o	of 1 Previous Next				
Failed (0) Critical (0)	🔲 Name 🗞 🛛 Туре	JNDI Name	Subdeployment	Targets				
Overloaded (0)	MDB_QUEUE Uniform Distributed	Queue MDB_QUEUE	JMS_SUB (Cluster-JMS				
Warning (0) OK (1)	New Delete		Showing 1 to 1 o	of 1 Previous Next				

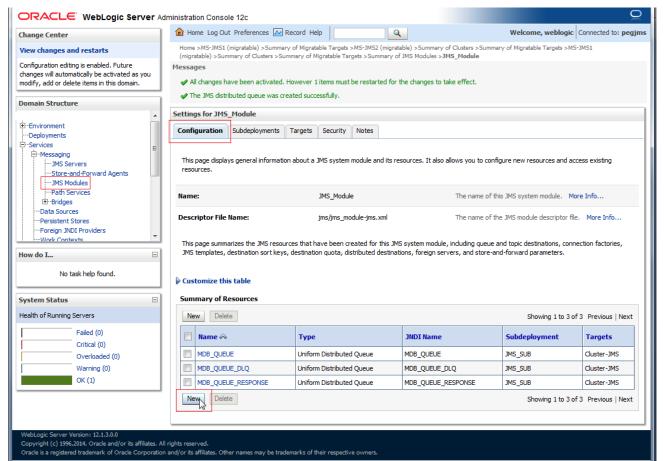
7) Similarly Create MDB_QUEUE_RESPONSE and MDB_QUEUE_DLQ

	ministration Conso	le 12c							õ
Change Center	Home Log Ou	t Preferences 🔤	Record Help	P	Q			Welcome, weblogic	Connected to: FCUBSDomain
View changes and restarts		Home >DC_JMS_Template-0 >Summary of Servers >Summary of Migratable Targets >Summary of JMS Servers >JMSServer-1 >Summary of JMS Servers >JMSServer-1 >Summary of JMS replate-0 >Summary of Migratable Targets >Summary of JMS_MODULE							
Click the Lock & Edit button to modify, add or delete items in this domain.	Messages	-							
Lock & Edit	All changes have been activated. No restarts are necessary.								
Release Configuration	Settings for JMS	_MODULE							
	Configuration	Subdeployments	Targets	Security I	Notes				
Domain Structure	This page displa	ys general informatio	on about a JM	MS system mo	odule and its resources. It also	o allows you to configure new re	esources and acces	is existing resources.	
EClusters	Name:			1	IMS_MODULE	т	he name of this J№	IS system module. More Info	
LMigratable Targets Coherence Clusters Machines Wirtual Hosts	Descriptor File Name: jms/jms_module-jms.xml The name of the JMS module descriptor file. More Info								
Work Managers Startup and Shutdown Classes Deployments					ted for this JMS system modu nd store-and-forward parame		stinations, connec	ion factories, JMS templates, des	thation sort keys,
-Services	Customize thi	s table							
How do I	Summary of R	esources							
No task help found.	Click the Lock 8	Edit button in the C	Change Cent	ter to activate	all the buttons on this page.				
	New Dele	te						Showing 1	to 3 of 3 Previous Next
System Status	🔲 Name 🐟			Туре		JNDI Name		Subdeployment	Targets
Health of Running Servers	MDB QUE	JE		Uniform Dis	tributed Queue	MDB QUEUE		JMS SUB	Cluster-JMS
Failed (0)	MDB_QUE				tributed Queue	MDB_QUEUE_DLQ		JMS_SUB	Cluster-JMS
Critical (0) Overloaded (0)	MDB_QUE	JE_RESPONSE		Uniform Dis	tributed Queue	MDB_QUEUE_RESPONSE		JMS_SUB	Cluster-JMS
Warning (0) OK (5)	New Dele	te				1		Showing 1	to 3 of 3 Previous Next



4.3.2 Connection Factory Creation

1) In JMS_MODULE, Click on New



2) Select Connection Factory and click on Next

ORACLE' WebLogic Server Administration Console 12c								
Change Center	🔒 Home Log Out Preferences 🔤 Record Hel	p	Welcome, weblogic Connected to: pegjms					
View changes and restarts	Home >MS-JMS1 (migratable) >Summary of Migratable Targets >MS-JMS2 (migratable) >Summary of Clusters >Summary of Migratable Targets >MS-JMS1 (migratable) >Summary of Clusters >Summary of Migratable Targets >Summary of JMS Modules >JMS Modu							
Configuration editing is enabled. Future changes will automatically be activated as you Create a New JMS System Module Resource								
modify, add or delete items in this domain. Domain Structure	Back Next Finish Cancel Choose the type of resource you want to	create.						
Environment Deployments Services JMS Servers JMS Servers JMS Modules JMS Modules	stand-alone queues and topics, connection factor	rou are prompted to enter basic information for ories, distributed queues and topics, foreign se targets. You can also associate targetable res	es, and connection factories. r creating the resource. For targetable resources, like ervers, and JMS SAF destinations, you can also proceed to sources with subdeployments, which is an advanced					
B-Bridges Data Sources Persistent Stores	Connection Factory		Defines a set of connection configuration parameters that are used to create connections for JMS clients. More Info					
Foreign JNDI Providers	Queue		Defines a point-to-point destination type, which are used for asynchronous peer communications. A message					



3) Enter the Name and Click on Next

	dministration Console 12c			Q		
Change Center	Home Log Out Preferen	ces 📐 Record Help	٩	Welcome, weblogic Connected to: pegjms		
View changes and restarts			Targets >MS-JMS2 (migratable) >Summary table Targets >Summary of JMS Modules >J	of Clusters >Summary of Migratable Targets >MS-JMS1 J MS_Module		
Configuration editing is enabled. Future changes will automatically be activated as you	Create a New JMS System Module Resource					
modify, add or delete items in this domain.	Back Next Finish	Cancel				
	Connection Factory Pro	perties				
-Environment -Deployments -Services -Messaging	The following properties will * Indicates required fields	be used to identify you	r new connection factory. The current me	odule is JMS_Module.		
	What would you like to name	your new connection fa	actory?			
JMS Modules Path Services	* Name:	MDBQCF	<			
⊡-Bridges Data Sources	What JNDI Name would you like to use to look up your new connection factory?					
Persistent StoresForeign JNDI ProvidersWork Contexts	JNDI Name:	MDBQCF				

4) Click on Advance Targeting

	dministration Console 12c	Q
Change Center	🏦 Home Log Out Preferences 🗟 Record Help	SDomain
View changes and restarts	Home >DC_JMS_Template-0 >Summary of Servers >Summary of Migratable Targets >Summary of JMS Servers >JMSServer-1 >Summary of JMS Servers >JMSServer-1 >Summary of Migratable Targets >Summary of JMS Modules >JMS_MODULE	
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New JMS System Module Resource	
Lock & Edit	Back Next Advanced Targeting Cancel	
Release Configuration	The following properties will be used to target your new JMS system module resource	
Domain Structure	Use this page to view and accept the default targets where this JMS resource will be targeted. The default targets are based on the parent JMS system module targets. If you do not want to accept the default targets, then click Advanced Targeting to use the subdeployment mechanism for targeting this resource.	
Environment Servers Clusters G-Clusters Migratable Targets	The following JMS module targets will be used as the default targets for your new JMS system module resource. If the module's targets are changed, this resource will also be retargeted appropriately.	
Coherence Clusters Machines	Targets :	
Virtual Hosts Work Managers	Clusters	
Startup and Shutdown ClassesDeploymentsServices	Image: Cluster-JMS Image: Cluster sin the cluster	
How do I 🖂	Back Next Finish Advanced Targeting Cancel	
Configure quotas for destinations		



5) Select JMS_SUB and Click on Finish

	Iministration Console 12c
Change Center	🏦 Home Log Out Preferences 🗁 Record Help
View changes and restarts	Home >DC_JMS_Template=0 - Summary of Servers > Summary of Migratable Targets > Summary of JMS Servers > JMSServer-1 > Summary of JMS Servers > JMSServer-1 > Summary of Migratable Targets > Summary of JMS Modules > JMS_MODULE
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration	Create a New JMS System Module Resource Back Next Fnish Cancel The following properties will be used to target your new JMS system module resource Image: Cancel Cancel
Domain Structure	Use this page to select a subdeployment to assign this system module resource. A subdeployment is a mechanism by which 'MS resources are grouped and targeted to a server instance, cluster, or SAF agent. If necessary, you can create a new subdeployment by clicking the Create a New Subdeployment button. You can also reconfigure subdeployment targets later by using the parent module's subdeployment management page.
Govers Govers Govers Goverse Gove	Select the subdeployment you want to use. If you select (none), no targeting will occur. Subdeployments: JMS_SUB Create a New Subdeployment
Work Managers Startup and Shutdown Classes Deployments Serices	What targets do you want to assign to this subdeployment? Targets :
- Hessaring	Servers
How do I	AdminServer
Configure quotas for destinations Configure JMS templates	Clusters
Configure destination keys Configure topics Configure queues	Image: Cluster-JMS Image: All servers in the cluster
Configure connection factories Configure uniform distributed topics	JM5 Servers
Configure uniform distributed queues Configure foreign servers	JMSServer-1
Configure JMS SAF System Status	Back Next Finish Cancel
System stores	

6) Connection Factory is **Created**



	ministration Console 12c				Q			
Change Center	🔒 Home Log Out Preferences 🔤	Record Help	2	Welcome, weblogic	Connected to: pegjm			
View changes and restarts		Home >MS-JMS1 (migratable) >Summary of Migratable Targets >MS-JMS2 (migratable) >Summary of Clusters >Summary of Migratable Targets >MS-JMS1 (migratable) >Summary of Clusters >Summary of Migratable Targets >Summary of JMS Modules > JMS . Module						
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. Connection factory created succession 	However 1 items must be restarted for ssfully.	r the changes to take effect.					
	Settings for JMS_Module							
Environment Deployments	Configuration Subdeployments	Targets Security Notes						
□-Services □-Messaging JMS Servers JMS Store-and-Forward Agents JMS Modules Path Services	This page displays general information resources.	n about a JMS system module and its r JMS_Module	•	figure new resources and ac				
Henidges Data Sources Parsistent Stores Foreign JNDI Providers Work Contexts How do I		jms/jms_module-jms.xml rces that have been created for this JI , destination quota, distributed destina	MS system module, including queue					
No task help found.	Customize this table							
System Status	Summary of Resources							
Health of Running Servers	New Delete			Showing 1 to 4 o	f 4 Previous Next			
Failed (0) Critical (0)	🔲 Name 🗞	Туре	JNDI Name	Subdeployment	Targets			
Overloaded (0)		Connection Factory	MDBQCF	JMS_SUB	Cluster-JMS			
Warning (0)	MDB_QUEUE	Uniform Distributed Queue	MDB_QUEUE	JMS_SUB	Cluster-JMS			
OK (1)	MDB_QUEUE_DLQ	Uniform Distributed Queue	MDB_QUEUE_DLQ	JMS_SUB	Cluster-JMS			
	MDB_QUEUE_RESPONSE	Uniform Distributed Queue	MDB_QUEUE_RESPONSE	JMS_SUB	Cluster-JMS			
	New Delete			Showing 1 to 4 o	f 4 Previous Next			



5. Server Restart

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

	dministrati	on Console 12c						Ď
Change Center	Hor	me Log Out Preferences 🔼	Record Help	٩			Welcome, we	blogic Connected to: FCUBSDoma
View changes and restarts		>Summary of JMS Servers >JM es >JMS_MODULE >Connection				e Targets >Summary of JMS		
Click the Lock & Edit button to modify, add or delete items in this domain.		ary of Servers		,				
Lock & Edit	Config	juration Control						
Release Configuration	A ser	ver is an instance of WebLogi	c Server that runs i	n its own Java Virtual Mach	ine (JVM) and has its own	configuration.		
Domain Structure	This p	oage summarizes each server	that has been conf	igured in the current WebL	ogic Server domain.			
⊖-Environment Servers ⊖-Clusters	62							
Server Templates	Customize this table							
	Servers (Filtered - More Columns Exist) Click the Lock & Editbutton in the Change Center to activate all the buttons on this page.							
Startup and Shutdown Classes	Ne	ew Clone Delete					Sh	owing 1 to 7 of 7 Previous Next
-Services		Name 🗇	Туре	Cluster	Machine	State	Health	Listen Port
Messaninn		AdminServer(admin)	Configu	red		RUNNING	🖋 ОК	7001
How do I 🖃		DC_FCUBS_1	Dynami	c Cluster-Ap	p MAC-1	SHUTDOWN	Not reachable	7101
Create Managed Servers		DC_FCUBS_2	Dynami	c Cluster-Ap	p MAC-2	SHUTDOWN	Not reachable	7102
Clone servers		DC_FCUBS_3	Dynami	c Cluster-Ap	p MAC-1	SHUTDOWN	Not reachable	7103
Delete Managed Servers		DC_FCUBS_4	Dynami	c Cluster-Ap	p MAC-2	SHUTDOWN	Not reachable	7104
Delete the Administration Server Start and stop servers		DC_JMS_1	Dynami	c Cluster-JM	S MAC-1	SHUTDOWN	Not reachable	7106
Start and stop servers		DC_JMS_2	Dynami		S MAC-2	SHUTDOWN	Not reachable	7107
System Status 🖂	Ne		- /					owing 1 to 7 of 7 Previous Next
Health of Running Servers								
Eailed (0)								

2) Select the cluster 'DC_JMS_Template-0' and

	dministration Console 12c				Q
Change Center	Home Log Out Preferences 🖂 Record Help	Q		We	Icome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home >JMSServer-1 >Summary of Migratable Targets Templates >DC JMS Template-0 >Summary of Serv		LE >ConnectionFactory-0 >pla	aceholder >Summary of Servers >Sum	mary of Server
Click the Lock & Edit button to modify, add or delete items in this domain.	Summary of Server Templates				
Lock & Edit Release Configuration Domain Structure	This page summarizes each server template that l A server template contains common, non-default manage configuration for a group of server instar	attributes that you can apply to a set o	-	n inherit the template configuration.	Server templates enable you to easily
Environment Servers Clusters Coherence Clusters Coherence Clusters Magnatable Targets Machines	Customize this table Server Templates Click the Lock & Editbutton in the Change Cente New Clone Delete	er to activate all the buttons on this pag	e.		Showing 1 to 2 of 2 Previous Next
Virtual Hosts Work Managers Startup and Shutdown Classes	🗌 Name 🔅	Cluster	Machine	Listen Port	Listen Address
Deployments	DC_FCUBS_Template	Cluster-App		7100	
-Services -Messaning -	DC_JMS_Template-0	Cluster-JMS		7105	
How do I	New Clone Delete				Showing 1 to 2 of 2 Previous Next
Create server templates					



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

		Ο
-		
Change Center	Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home >Summary of Migratable Targets >Summary of JMS Modules >JMS_MODULE >ConnectionFactory-0 >pi Server Templates >DC_JMS_Template-0	laceholder >Summary of Servers >Summary of Server Templates >DC_JMS_Template-0 >Summary of
No pending changes exist. Click the Release Configuration button to allow others to edit the	Settings for DC_JMS_Template-0	
domain.	Configuration Protocols Logging Debug Notes	
Lock & Edit		
Release Configuration	General Cluster Services Keystores SSL Federation Services Deployment Migration	Tuning Overload Health Monitoring Server Start Web Services Coherence
3	Save	
Domain Structure		
⊖-Environment ├Servers ⊖-Clusters └Server Templates	Node Manager is a WebLogic Server utility that you can use to start, suspend, shut down, and restart is that Node Manager will use to start this server on a remote machine. Java Home:	servers in normal or unexpected conditions. Use this page to configure the startup settings The Java home directory (path on the machine running Node Manager) to
Migratable Targets		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
	BEA Home:	The BEA home directory (path on the machine running Node Manager) to use when starting this server. More Info
E-Messaning	Root Directory:	The directory that this server uses as its root directory. This directory must
How do I	3	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
Configure startup arguments for Managed Servers	Class Path:	The classpath (path on the machine running Node Manager) to use when starting this server. More Info
 Start Managed Servers from the Administration Console 		
Shut down a server instance		
System Status E	a	
Health of Running Servers		
Failed (0)	Arguments:	The arguments to use when starting this server. More Info
Critical (0)	-XX: <u>MaxPermSize</u> =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

	Iministration Console 12c	Q				
Change Center	🏦 Home Log Out Preferences 🔝 Record Help	Welcome, weblogic Connected to: pegjme				
View changes and restarts	Home > Summary of Servers > MS-IMS2 > Summary of Virtual Hosts > Summary of Servers > Summary of Clusters > Summary of Migratable Targets > Summary of Servers > Summary of Deployments > Summary of JMS Modules					
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 Work ManagersStartup and Shutdown ClassesDeploymentsDeplo	JMS system resources are configured and stored as modules similar to standard J2EE modules. Such resources include quota, distributed queues, distributed topics, foreign servers, and JMS store-and-forward (SAF) parameters. You can global system resources. This page summarizes the JMS system modules that have been created for this domain. Customize this table JMS Modules					
Path Vices Bridg JMS Modules, Level 3, 3 of 5,	elected	Showing 1 to 1 of 1 Previous Next				
Data Sources Persistent Stores Foreign JNDI Providers	□ Name ↔ 1	Type ystem				
How do I	New Delete	Showing 1 to 1 of 1 Previous Next				
Configure resources for JMS system modules						

2) Enter name as MDB_MODULE and click on Next

	Iministration Console 12c	Q
Change Center	Anne Log Out Preferences Record Help Q Welcome, web Welcome, web	logic Connected to: pegjms
View changes and restarts	Home >Summary of Migratable Tarnete \MG-1MG1 (minratable) \Gummany of Minratable Tarnete \MG-1MG1 (minratable) \Gummary of Oluste Targets >MG-1MG1 (migratable) >S	rs >Summary of Migratable
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	
Environment Deployments Services	The following properties will be used to identify your new module. JMS system resources are configured and stored as modules similar to standard J2EE modules. Such resources include queues, topic templates, destination keys, quota, distributed queues, distributed topics, foreign servers, and JMS store-and-forward (SAF) param administratively configure and manage JMS system modules as global system resources. * Indicates required fields	
iPath Services	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:	
Health of Running Servers	Back Next Finish Cancel	
Failed (0)		



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

	dministration Console 12c		9		
Change Center	Home Log Out Preferences Record Help	Q	Welcome, weblogic Connected to: FCUBSDomain		
View changes and restarts	Home splaceholder sSummary of Servers sSummary of Server Ten Hodules s3HS_HODULE sSummary of 2HS Hodules	pieles >DC_3HS_Template-0 >Summary of Server	Templetes +OC_3HS_Templete-0 +Summary of Servers +Summary of 3HS		
No pending changes exist. Click the Release Configuration button to allow others to edit the	Create JHS System Hodule				
domain.	Back, Neet Front Cancel				
Release Configuration	The following properties will be used to target your ne	w JHS system module.			
Domain Structure	Use this page to select the server or duster on which you would	d like to deploy this JMS system module. You car	n reconfigure targets later if you wish.		
Environment -Servers Dictors	Targets :				
Server Templates	Servers				
-Coherence Ousters -Machines	AdminServer				
Wirtual Hosts Work Managers Startup and Shutdown Classes	Gusters				
Deployments Services R: Message	Cluster-App © All servers in the cluster				
How do L	Chuster-JHS				
Configure IMS system modules Configure IMS servers	O All servers in the cluster				

4) Select CheckBox and Click on Finish

	tministration Console 12c	2
Change Center	🏦 Home Log Out Preferences 🔤 Record Help	ıs
View changes and restarts	Home >Summary of Servers >MS-JMS2 >Summary of Virtual Hosts >Summary of Servers >Summary of Clusters >Summary of Migratable Targets >Summary of Servers >Summary of Deployments >Summary of JMS Modules	
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create JHS System Highlule Back Next Rnish Cancel	1
	Add resources to this JMS system module	
Environment Servers Clusters	Use this page to indicate whether you want to immediately add resources to this JMS system module after it is created. JMS resources include queues, topics, connection factories, etc.	
Server Templates Migratable Targets Coherence Clusters	Would you like to add resources to this JMS system module?	
Machines Virtual Hosts	Back Next Finish Cancel	
Work Managers		L

5) MDB_MODULE is created

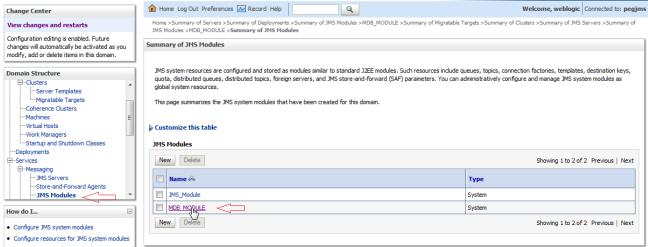
ORACLE' WebLogic Server Administration Console 12c						
Change Center	🏠 Home Log Out Preferences 🖂 Record Help	Welcome, weblogic Connected to: pegjms				
View changes and restarts	Home >Summary of Clusters >Summary of Migratable Targets >Summary of Servers >Summary of Deployments >Summary of JMS Modules >MDB_MODULE >Summary of Migratable Targets >Summary of Clusters >Summary of JMS Servers >Summary of JMS Modules					
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 Custers -Clusters -Migratable Targets -Coherence Clusters -Machines -Writual Hosts -Work Managers -Startup and Shutdown Classes	Image: System resources are configured and stored as modules similar to standard J2EE modules. Such resources include queues, topics, connection factories, templi quota, distributed queues, distributed topics, foreign servers, and JMS store-and-forward (SAF) parameters. You can administratively configure and manage JMS global system resources. This page summarizes the JMS system modules that have been created for this domain. Customize this table JMS Modules					
Deployments	New Delete	Showing 1 to 2 of 2 Previous Next				
	Image: Name ↔ Image: JMS_Module	Type System				
How do I	MDB_MODULE	System Showing 1 to 2 of 2 Previous Next				
Configure resources for JMS system modules						



6.2 Foreign Server Creation

In MDB_MODULE, Click on New Resource, Select Foreign Server

ORACLE' WebLogic Server Administration Console 12c



1) Click on Configuration → New

ORACLE WebLogic Server Ad	dministration Console 12c Q						
Change Center	Home Log Out	t Preferences 📐 Record He	elp	Q		Welcome, weblogic Connected to: pegjms	
View changes and restarts		Home >Summary of Deployments >Summary of JMS Modules >MDB_MODULE >Summary of Migratable Targets >Summary of Clusters >Summary of JMS Servers >Summary of JMS Modules >MDB_MODULE >Summary of JMS Modules >MDB_MODULE					
Configuration editing is enabled. Future changes will automatically be activated as you	Settings for MDB	MODULE					
modify, add or delete items in this domain.	Configuration	Subdeployments Targets	Security No	tes			
Domain Structure							
-Environment	This page display	ys general information about a	JMS system mod	le and its resources. It also allov	s you to configure new resources and a	ccess existing resources.	
Servers	Name:		MDB_MC	DULE	The name of this JMS sys	The name of this JMS system module. More Info	
Migratable Targets Coherence Clusters	Descriptor File	Descriptor File Name: jms/mdb_module-jms.xml			The name of the JMS mo	dule descriptor file. More Info	
Machines Virtual Hosts Work Managers Startup and Shutdown Classes	This page summarizes the JMS resources that have been created for this JMS system module, including queue and topic destinations, connection factories, JMS ten sort keys, destination quota, distributed destinations, foreign servers, and store-and-forward parameters.					nection factories, JMS templates, destination	
Deployments Services Messaning	Customize this table						
How do I	Summary of Resources						
No task help found.	New Delet	e				Showing 0 to 0 of 0 Previous Next	
	🔲 Name 🗞	Туре	DNC	I Name	Subdeployment	Targets	
System Status 😑				There are no items	to display		
Health of Running Servers	New Delet	e				Showing 0 to 0 of 0 Previous Next	
Failed (1)	63						
Critical (0)							



 \circ

2) Select Foreign Server and Click on Next

	Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: peg
nange Center		
iew changes and restarts	Home >Summary of Deployments >Summary of JMS Modules >MDB_MODU Modules >MDB_MODULE >Summary of JMS Modules >MDB_MODULE	ULE >Summary of Migratable Targets >Summary of Clusters >Summary of JMS Servers >Summary of JMS
onfiguration editing is enabled. Future	Create a New JMS System Module Resource	
anges will automatically be activated as you odify, add or delete items in this domain.	Create a new 5H3 System House Resource	
any, and of delete remain and domain.	Back Next Finish Cancel	
main Structure		
	Choose the type of resource you want to create.	
Environment		
Servers	Use these pages to create resources in a JMS system module, such as	queues, topics, templates, and connection factories.
⊡-Clusters	Depending on the type of resource you select, you are promoted to en	nter basic information for creating the resource. For targetable resources, like stand-alone queues and topics,
Server Templates Migratable Targets		and JMS SAF destinations, you can also proceed to targeting pages for selecting appropriate server targets. You
Coherence Clusters	can also associate targetable resources with subdeployments, which is	s an advanced mechanism for grouping JMS module resources and the members to server resources.
Machines		
Virtual Hosts	Connection Factory	Defines a set of connection configuration parameters that are used to
Work Managers		
Charten and Chutdown Classes		create connections for JMS clients. More Info
LStartup and Shutdown Classes -Deployments		
-Deployments -Services	© Queue	Defines a point-to-point destination type, which are used for
LStartup and Shutdown Classes -Deployments -Services IMessaning	• Queue	Defines a point-to-point destination type, which are used for asynchronous peer communications. A message delivered to a queue
-Deployments -Services		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
Deployments Services I Messarinn w do I		Defines a point-to-point destination type, which are used for asynchronous peer communications. A message delivered to a queue is distributed to only one consumer. More Info Defines a publish/subscribe destination type, which are used for
Deployments Services In Messaninn w do L Configure quotas for destinations		Defines a point-to-point destination type, which are used for asynchronous peer communications. A message delivered to a queue is distributed to only one consumer. More Info Defines a publish/subscribe destination type, which are used for asynchronous peer communications. A message delivered to a topic is
Deployments Services M-Messaninn w do I Configure quotas for destinations Configure JMS templates		Defines a point-to-point destination type, which are used for asynchronous peer communications. A message delivered to a queue is distributed to only one consumer. More Info Defines a publish/subscribe destination type, which are used for
Deployments Services in Messacion w do I Configure quotas for destinations Configure JMS templates Configure destination keys		Defines a point-to-point destination type, which are used for asynchronous peer communications. A message delivered to a queue is distributed to only one consumer. More Info Defines a publish/subscribe destination type, which are used for asynchronous peer communications. A message delivered to a topic is
Deployments Services I th -Messarina W of L Configure quotas for destinations Configure JMS templates Configure destination keys Configure topics	Topic	Defines a point-to-point destination type, which are used for asynchronous peer communications. A message delivered to a queue is distributed to only one consumer. More Info Defines a publish/subscribe destination type, which are used for asynchronous peer communications. A message delivered to a topic is distributed to all topic consumers. More Info Defines a set of queues that are distributed on multiple JMS servers, but which are accessible as a single, logical queue to JMS clients. Mor
Deployments Services (c): Messavinn Configure quotas for destinations Configure and templates Configure etaplates Configure topics Configure queues	Topic	Defines a point-to-point destination type, which are used for asynchronous peer communications. A message delivered to a queue is distributed to only one consumer. More Info Defines a publish/subscribe destination type, which are used for asynchronous peer communications. A message delivered to a topic is distributed to all topic consumers. More Info Defines a set of queues that are distributed on multiple JMS servers,
Deployments Services (F1-Messaninn w do I Configure quotas for destinations Configure Quotas for destinations Configure destination keys Configure topics Configure queues Configure queues	Topic Distributed Queue	Defines a point-to-point destination type, which are used for asynchronous peer communications. A message delivered to a queue is distributed to only one consumer. More Info Defines a publish/subscribe destination type, which are used for asynchronous peer communications. A message delivered to a topic is distributed to all topic consumers. More Info Defines a set of queues that are distributed on multiple JMS servers, but which are accessible as a single, logical queue to JMS clients. More Info
Deployments Services (E)-Messaninn w do I Configure quotas for destinations Configure quotas for destinations Configure dustination keys Configure dustination keys Configure dust Configure queues Configure queues Configure queues	Topic	Defines a point-to-point destination type, which are used for asynchronous peer communications. A message delivered to a queue is distributed to only one consumer. More Info Defines a publish/subscribe destination type, which are used for asynchronous peer communications. A message delivered to a topic is distributed to all topic consumers. More Info Defines a set of queues that are distributed on multiple JMS servers, but which are accessible as a single, logical queue to JMS dients. Mor Info Defines a set of topics that are distributed on multiple JMS servers, but which are accessible as a single, logical topic to JMS dients. Mor
Deployments Services In Messanin A do L Configure quotas for destinations Configure JMS templates Configure destination keys Configure topics Configure topics Configure uniform distributed topics Configure uniform distributed queues	Topic Distributed Queue	Defines a point-to-point destination type, which are used for asynchronous peer communications. A message delivered to a queue is distributed to only one consumer. More Info Defines a publish/subscribe destination type, which are used for asynchronous peer communications. A message delivered to a topic is distributed to all topic consumers. More Info 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 Defines a set of topics that are distributed on multiple JMS servers,
-Deployments -Services I=Messaning	Topic Distributed Queue	Defines a point-to-point destination type, which are used for asynchronous peer communications. A message delivered to a queue is distributed to only one consumer. More Info Defines a publish/subscribe destination type, which are used for asynchronous peer communications. A message delivered to a topic is distributed to all topic consumers. More Info Defines a set of queues that are distributed on multiple JMS servers, but which are accessible as a single, logical queue to JMS clients. More Info Defines a set of topics that are distributed on multiple JMS servers, but which are accessible as a single, logical queue to JMS clients. More

3) Enter name and Click on Next

	dministration 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 Targets >Summary Modules >MDB_MODULE >Summary of JMS Modules >MDB_MODULE	of Clusters >Summary of JMS Servers >Summary of JMS
Configuration editing is enabled. Future changes will automatically be activated as you	Create a New JMS System Module Resource	
modify, add or delete items in this domain.	Back Next Finish Cancel	
Domain Structure	Foreign Server Properties	
-EnvironmentServers -Clusters	The following properties will be used to identify your new foreign server. The current module is MDB_MODULE.	
Server Templates	* Indicates required fields	
Coherence Clusters Machines Virtual Hosts	* Name: ForeignServer-1	
Work Managers Startup and Shutdown Classes Deployments	Back Neg Finish Cancel	
E-Services		



4) Click on Advanced Targeting

	Iministration Console 12c Q
Change Center	🏦 Home Log Out Preferences 🗟 Record Help
View changes and restarts	Home >DC_JMS_Template-0 >Summary of Server Templates >DC_JMS_Template-0 >Summary of Servers >Summary of JMS Modules >JMS_MODULE >Summary of JMS Modules >MDB_MODULE >Summary of JMS Modules >JMS Modules >JMS_MODULE >Summary of JMS Modules >MDB_MODULE >Summary of JMS Modules >MDB_MODULE >Summary of JMS Modules >MDB_MODULE >Summary of JMS Modules >JMS_MODULE >Summary of JMS Modules >JMS_MODULE >Summary of JMS Modules >MDB_MODULE >Summary of JMS Modules >MDB_MODULE >Summary of JMS Modules >JMS_MODULE >SUMMARY MODULE >SUMMARY OF JMS_MODULE >SUMMARY OF JMS_
No pending changes exist. Click the Release Configuration button to allow others to edit the	Create a New JMS System Module Resource
domain.	Back Next Advanced Targeting Cancel
Release Configuration	The following properties will be used to target your new JMS system module resource
Domain Structure	Use this page to view and accept the default targets where this JMS resource will be targeted. The default targets are based on the parent JMS system module targets. If you do not want to accept the default targets, then click Advanced Targeting to use the subdeployment mechanism for targeting this resource.
Environment Servers Ousters Server Templates	The following JMS module targets will be used as the default targets for your new JMS system module resource. If the module's targets are changed, this resource will also be retargeted appropriately.
LMigratable Targets Coherence Clusters Machines	Targets :
Virtual Hosts Work Managers	Clusters
LStartup and Shutdown Classes Deployments D-Services Messaging	 ✓ Cluster-App ● All servers in the cluster
How do I 🖂	Back Next Finish Advanced Targeting Cancel
Configure quotas for destinations	

5) Click on Create New SudDeployment

	dministration 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 Targets >Summa Modules >MDB_MODULE >Summary of JMS Modules >MDB_MODULE	ary of Clusters >Summary of JMS Servers >Summary of JMS
Configuration editing is enabled. Future changes will automatically be activated as you	Create a New JMS System Module Resource	
modify, add or delete items in this domain.	Back Next Finish Cancel	
Domain Structure	The following properties will be used to target your new JMS system module resource	
Environment Servers Clusters Server Templates Migratable Targets	Use this page to select a subdeployment to assign this system module resource. A subdeployment is a mechanism cluster, or SAF agent. If necessary, you can create a new subdeployment by clicking the Create a New Subdep later by using the parent module's subdeployment management page.	
Coherence Clusters	Select the subdeployment you want to use. If you select (none), no targeting will occur.	
Virtual Hosts Work Managers Startup and Shutdown Classes	Subdeployments:	
Deployments	What targets do you want to assign to this subdeployment?	

6) Enter Name as MDB_SUB and Click on OK

	dministration Console 12c		Q
Change Center	🔒 Home Log Out Preferences 🔤 Record	d Help	Welcome, weblogic Connected to: pegjms
View changes and restarts	Home >Summary of Deployments >Summary of Modules >MDB_MODULE >Summary of JMS M		table Targets >Summary of Clusters >Summary of JMS Servers >Summary of JMS
Configuration editing is enabled. Future changes will automatically be activated as you	Create a New Subdeployment	-	
modify, add or delete items in this domain. Domain Structure	OK Cancel Subdeployment Properties		
Environment	The following properties will be used to iden	ntify your new subdeployment.	
Servers E ClustersServer Templates	Subdeployment Name:	MDB_SUB	
LMigratable Targets Coherence Clusters Machines	OK Cancel		
Virtual Hosts Work Managers Startup and Shutdown Classes			G



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

ORACLE WebLogic Server Ad	ministration Console 12c Q	
Change Center	🕜 Home Log Out Preferences 🔤 Record Help	
View changes and restarts	Home >DC_JMS_Template-0 >Summary of Server Templates >DC_JMS_Template-0 >Summary of Servers >Summary of JMS Modules >JMS_MODULE >Summary of JMS Modules >MDB_MODULE >Summary o	
Pending changes exist. They must be activated to take effect.	Create a New JMS System Module Resource	1
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	Use this page to select a subdeployment to assign this system module resource. A subdeployment is a mechanism by which JMS resources are grouped and targeted to a server instance, cluster, or	
	SAF agent. If necessary, you can create a new subdeployment by clicking the Create a New Subdeployment button. You can also reconfigure subdeployment targets later by using the parent module's subdeployment management page.	
Server Templates	Select the subdeployment you want to use. If you select (none), no targeting will occur.	
Coherence Clusters Machines	Subdeployments: MDB_SUB Create a New Subdeployment	
Virtual Hosts Work Managers	What targets do you want to assign to this subdeployment?	
LStartup and Shutdown Classes	Targets :	
-Services		
How do I	Servers	
Configure quotas for destinations	AdminServer	
Configure JMS templates Configure destination keys	Clusters	
Configure topics	Cluster-App	
Configure queues	Output in the duster	
Configure connection factories		1
Configure uniform distributed topics	JMS Servers	1
Configure uniform distributed queues	JHSServer-1	1
Configure foreign servers Configure JMS SAF		
- Comigare 3M3 3M1		1
System Status	Back Next Finish Cancel	1

8) Foreign Server is created

	ministration Console 12c				Q
Change Center	🏠 Home Log Out Preferences 🗟 Record Help				
View changes and restarts	Home >Summary of Deployments >Summary of Modules >MDB_MODULE >Summary of JMS M		nmary of Migratable Targets >Sum	mary of Clusters >Summary of JMS Servers >Su	mmary of JMS
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Messages All changes have been activated. No res The foreign server was created success				
Domain Structure	<u></u>	indiy.			
·	Settings for MDB_MODULE				
E-Environment	Configuration Subdeployments Target	ets Security Notes			
-Clusters -Server Templates -Migratable Targets -Coherence Clusters	This page displays general information abo	ut a JMS system module and its reso	urces. It also allows you to confi	gure new resources and access existing resou	urces.
Machines Virtual Hosts	Name:	MDB_MODULE		The name of this JMS system module. More	e Info
Work Managers Startup and Shutdown Classes Deployments	Descriptor File Name:	jms/mdb_module-jms.x	nl	The name of the JMS module descriptor file.	More Info
How do I	This page summarizes the JMS resources that have been created for this JMS system module, including queue and topic destinations, connection factories, JMS templates, destination sort keys, destination quota, distributed destinations, foreign servers, and store-and-forward parameters.				
No task help found.	Customize this table				
	Summary of Resources				
System Status	New Delete			Showing	1 to 1 of 1 Previous Next
Health of Running Servers					
Failed (1)	🔲 Name 🐟	Туре	JNDI Name	Subdeployment	Targets
Critical (0)	ForeignServer-1	Foreign Server	N/A	MDB_SUB	Cluster-App
Overloaded (0) Warning (0)	New Delete			Showing	g 1 to 1 of 1 Previous Next
OK (3)					



6.3 Foreign Server Configuration

1) Click on ForeignServer-1

	Iministration Conso	le 12c					õ
Change Center	Home Log Ou	t Preferences 🔤 Rec	ord Help	٩		Welcome, w	eblogic Connected to: pegjm
View changes and restarts		of Deployments >Summa ODULE >Summary of JM!			mmary of Migratable Targets >Sum	mary of Clusters >Summary of JMS Servers >Su	mmary of JMS
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Messages	ave been activated. No	restarts are nece				
Domain Structure	The foreign set	erver was created succe	essfully.				
A	Settings for MDB	MODULE					
Environment EServers	Configuration	Subdeployments Ta	argets Security	V Notes			
Clusters Server Templates Migratable Targets Coherence Clusters Machines Machines Writhal Hosts	This page display	ys general information a	•	m module and its reso	ources. It also allows you to confi	gure new resources and access existing reso The name of this JMS system module. Mor	
Work Managers Startup and Shutdown Classes Deployments	Descriptor File	Name:	jn	ns/mdb_module-jms.x	ml	The name of the JMS module descriptor file.	More Info
How do I	sort keys, destination quota, distributed destinations, foreign servers, and store-and-forward parameters.						
No task help found.	Customize thi	s table					
System Status	Summary of R	esources					
System Status	New Delet	e				Showin	g 1 to 1 of 1 Previous Next
Failed (1)	🔲 Name 🗞	Л	Туре		JNDI Name	Subdeployment	Targets
Critical (0)	E Foreignfier	ver-1	Foreign Serve	er	N/A	MDB_SUB	Cluster-App
Overloaded (0) Warning (0)	New Delet	e				Showin	g 1 to 1 of 1 Previous Next

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

ORACLE WebLogic Server	Administration Console 12c	<u> </u>					
Change Center	🙆 Hone Log Out Preferences 🐼 🕅	ecard Help	Q	Welcome, weblogic Connected to: FCUBSDomail			
View changes and restarts	Home >Summary of Dueters >Summary of Modules >MDE_MODULE >ForeignBerry	None >Summary of Dutters >Summary of Server Templates >Summary of Servers >Summary of 2HS Modules >ND8_MODULE > Foreignderver1 > Summary of Servers > Summary of 2HS					
Click the Lock & Edit button to modify, add or delete items in this domain.	Hessages						
Lock & Edt	Al changes have been activated. N	to restarts are necessary.					
Release Configuration	Settings for ForeignServer-1						
	Configuration Subdeployment N	iotes					
Domain Structure	General Destinations Connector	n Factories					
B-Environment Servers B-Ousters	Ock the Lock & Editbutton in the On	ange Center to modify the	settings on this page.				
- Server Templates - Migratable Targets - Coherence Clusters - Madrines - Wrbuil Hosts			a WebLogic Server. It contains information i be defined on one JPDI directory. Use this	that allows WebLogic Server to reach the remote 3KDI 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. Hore Info			
E Services El Messarion	JNDI Initial Context Factory:	weblogic jndi V	/LinitiaK	The name of the dass that must be instantiated to access the 3401 provider. This dass name depends on the 3401 provider and the vendor that are being used. More Info			
How do L. 8				and the design of the second			
Oreate foreign connection factories Oreate foreign destinations	BIDI Connection URL:	[13,//10,184,148,1	85.7106.10.184.148.189.7107	The URL that WebLogic Server will use to contact the JICE provider. The syntax of the URL depends on which JICE provider is being used. For WebLogic JICE, leave the field blank if you are referencing WebLogic JICE objects within the same cluster. Hore Srife			
System Status 🗄							
Health of Running Servers	JNDI Properties Credential			Any Credentals that must be set for the 3HDL provider. These Credentals			



3) Click on Connection Factories

	dministration Console 12c	0					
Change Center	🔒 Home Log Out Preferences 🖂 Record Help						
View changes and restarts	Home >MDB_MODULE >Summary of Migratable Targets >Summary of Clusters >Summary of JMS Servers >Summary of JMS Modules Modules >MDB_MODULE >ForeignServer 1 > Configuration	s >MDB_MODULE >Summary of JMS					
Configuration editing is enabled. Future changes will automatically be activated as you	Settings for ForeignServer-1						
modify, add or delete items in this domain.	Configuration Subdeployment Notes						
Domain Structure	General Destinations Connection Factories						
	A foreign connection factory represents a connection factory that resides on another server, and which is accessible via JND another instance of WebLogic Server running in a different duster or server, or a foreign provider, as long as that provider s This page summarizes the foreign connection factories that have been created for this domain. Customize this table Foreign Connection Factories (Filtered - More Columns Exist)						
Deployments		Showing 0 to 0 of 0 Previous Next					
How do I	□ Name ↔ Local JNDI Name Remote JNDI	I Name					
	There are no items to display						
Configure foreign servers Create foreign destinations	New Delete	Showing 0 to 0 of 0 Previous Next					
System Status							

4) Create MDBQCF Connection Factory

ORACLE WebLogic Server A	dministration Console 12c			9	
Change Center	A Home Log Out Preferences	Record Help	Q	Welcome, weblagic Connected to: peg	jms
View changes and restarts	Home >HDB_HODULE >Summar Modules >HDB_HODULE >Foreig		of Clusters >Summary of 3HS Servers	>Summary of 3HS Modules >MD8_HODULE >Summary of 3HS	
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 Foreign JHS Co				
B Environment Servers B Custers Migratable Targets Colorers	Foreign Connection Factor The following properties will be * Indicates required fields	y Properties used to identify your new foreign	connection factory.		
Machines Wrtual Hosts	* Name:	MDBQCF			
	Local JNDI Name:	MDBQCF			
B-Services	Remote 3NDI Name:	MDBQCF[\sim	
How do L	OK Cancel				

5) Click on Destination

ORACLE WebLogic Server A				<u>د</u>	
Change Center	😧 Hone Log Out Weferences 🔛 Record He	ė Q	Welcome, weblogic Com	ected his pegg	
View changes and restarts	Home sHOE,HOOULE >Summery of Highebok To Hostube sHOE,HOOULE >Foregularyer-5 >Dael		Servers s Summary of 245 Hodules +HDB_MODULE +Summary of 245		
Configuration editing is enabled. Puture changes will automatically be activisted as you modify, add or delete items in this domain.	Hessages All changes have been activated. However		take effect.		
Domain Structure	Settings for ForeignServer-1				
D Environment	Configuration Subdeployment Notes				
Servers	General Designations Connection Factories				
Custers Server Templates Migratole Tempts Coherence Custers	Configuration - Destination A foreign connection factory represents a com another instance of WebLogic Server running a	ector factory that resides on another service	r, and which is accessible via JHDL. A remote connection factory can be used to	refer to	
- Machines - Wital Hors - Walk Hanagers	This page summarizes the foreign connection for				
- Startup and Shutdown Classes Opployments 8-Services	© Custowize this table				
El Munació,	Foreign Connection Factories (Filtered - I	tore Columns (xist)			
How do L.	New Dublin		Showing 1 to 1 of 1 Pr	evious Next	
Configure foreign servers	🐑 Name 🗠 🛛 Loca	al 3NDE Name	Remote 3001 Name		
Oreate foreign destinations	E MORQOF MOR	5a,	MDBQC9 ⁴		
System Status 8	Mene Duine		Showing 1 to 1 of 1 Pr		



6) Create MDB_QUEUE

and the second sec	Home >JMS Modules >	>MDB_MODULE >ForeignSe	rver-1 >MDB_MODULE >ForeignServer-1 >Summary of Servers >JMS Module	s >MDB_MODULE >ForeignServer-1 >Configuration		
View changes and restarts			The second s	a crow and crow and crow a conservation of the second second second second second second second second second s		
Configuration editing is enabled. Future changes will automatically be activated as you	Settings for Foreign	Settings for ForeignServer-1				
modify, add or delete items in this domain.	Configuration Su	ubdeployment Notes				
Domain Structure	General Destinat	tions Connection Factor	ories			
EnvironmentServersClustersVirtual HostsWigratable TargetsCoherence ClustersCoherence ClustersMachinesWork Managers	directory, and the o	object will be returned fro zes the foreign destination able		ocal server, a look-up will be performed automatically on the remote JNDI		
Startup and Shutdown Classes	New Delete			Showing 0 to 0 of 0 Previous Next		
DeploymentsServicesMessaning	🔲 Name 🏟		Local JNDI Name	Remote JNDI Name		
How do I			There 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						

	Administration Console 12c			Q
Change Center	Home Log Out Preferences	Record Help	Welcome	, weblogic Connected to: pegjme
View changes and restarts	Home >MDB_MODULE >Summary of Modules >MDB_MODULE >Foreign		S Servers >Summary of JMS Modules >MDB_MODULE >Summary of	of JMS
Configuration editing is enabled. Future changes will automatically be activated as you	Create a New Foreign JMS Dest	-		
modify, add or delete items in this domain.	OK Cancel			
	Foreign Destination Properti	ies		
Environment Servers Custers Moralized Targets Conterne Custers	The following properties will be us * Indicates required fields	sed to identify your new foreign destination.		
Machines	* Name:	MDB_QUEUE		
Work Managers Startup and Shutdown Classes Deployments	Local JNDI Name:	MDB_QUEUE		
El-Services	. Remote JNDI Name:	MDB_QUEUE		
How do I	OK Cancel			
Configure foreign servers				
Create foreign connection factories				
	-			

7) Similarly Create MDB_QUEUE_RESPONSE, MDB_QUEUE_DLQ

	dministration Console 12c		õ
Change Center	Home Log Out Preferences	s 📨 Record Help	Welcome, weblogic Connected to: pegjms
View changes and restarts	Home >MDB_MODULE >Summar Modules >MDB_MODULE >Foreix	ry of Migratable Targets >Summary of Clusters >Summary of JMS Servers >Summar onServer-1 > Configuration	y 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 De		
modify, add or delete items in this domain.	OK Cancel		
Domain Structure	Foreign Destination Prope	rties	
-Environment -Servers -Ousters -Server Templates -Migratable Targets	The following properties will be * Indicates required fields	e used to identify your new foreign destination.	
Coherence Clusters Machines Virtual Hosts	* Name:	MDB_QUEUE_RESPC	
Work Managers Startup and Shutdown Classes Deployments	Local JNDI Name:	MDB_QUEUE_RESPONSE	
E-Services	Remote JNDI Name:	MDB_QUEUE_RESPONSE	
How do I	OK Cancel		
Configure foreign servers			
Create foreign connection factories			
Curture Chatra			



Change Center	😭 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: pegin
View changes and restarts	Home >MD8_MODULE >Summary of Migratable Targets >Sum Modules >MD8_MODULE >ForeignServer 1 > Coefficientities	nary of Oluters >Summary of JMS Servers >Summ	ry of 3HS Nodules >HOB_MODULE >Summary of 3HS
Configuration editing is enabled. Puture changes will automatically be activated as you modify, add or delete items in this domain.	Hessages # All changes have been activated. However 1 items must	be restarted for the changes to take effect.	
Domain Structure	Settings for ForeignServer-1		
	Configuration Subdeployment Notes		
B-Environment	General Destinations Connection Factories		
- Coherence Clusters - Machines	JPCI directory, and the object will be returned from that di This page summarizes the foreign destinations that have be		
Vistual Hosts - Work Managers - Startup and Shutdown Classes - Deployments - Services - Messanon	Customize this table	een created for the domain.	
-Work Managers - Startup and Shutdown Classes - Deployments - Services - St. Messacon	P Customize this table	een created for the domain.	Showing 1 to 2 of 2 Previous Next
Work Managers Startup and Shutdown Classes P-Services B-Services How do L. S • Configure foreign servers	© Customize this table Foreign Destinations	Local JHDI Name	Showing 1 to 2 of 2 Previous Next Remote 3HDI Name
Work Managers Startup and Shutdown Classes P-Services B-Services How do L. S • Configure foreign servers	Customize this table Foreign Destinations New Delete	Transferrer	and the convert
Work Managers Startup and Shutdown Classes Opployments Greaters Greater foreign servers Creater foreign connection factories	© Customize this table Foreign Destinations	Local 30D1 Name	Remote JNDI Name

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 WebLogic Server
 Administration Console 12c

 Change Center
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 Median and B_MODULE a Summary of Monthle Targets a Summary of Outles Summary of 2MS Servers a Summary of 2MS Modules and B_MODULE a Summary of 2MS Servers a Summary of 2MS Modules and B_MODULE a Summary of 2MS
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changes will automatically be activated as you modify, add or delete items in this domain.	Create a New Foreign 3HS Do	stination	
	OK Cancel		
Domain Structure	Foreign Destination Prope	rties	-1
B-Environment			
B-Ousters	The following properties will be	used to identify your new foreign destination.	
Server Templates	* Indicates required fields		1
Machines Virbual Hosta	"Name:	MDB_QUEUE_DLQ	
Work Managers Startup and Shutdown Classes	Local JNDI Name:	MDB_QUEUE_DLQ	
B Services	Remote JMDI Name:	MDB_QUEUE_DLQ	
How do L. 🗐	OK Cancel		_
Configure foreign servers	-13		

Change Center	Ame Log Out Preferences 🔝 Record Help	Q	Welcome, weblogic Connected to: pegin		
View changes and restarts	Home > MDB_MODULE > Summary of Mignatable Targets > Sur Modules > MDB_MODULE > ForeignServer-1 > Coeffiguration	imery of Clusters >Summery of 2HS Servers >Summe	ry of 3HS Modules >MDB_MODULE >Summary of 3HS		
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Messages All changes have been activated. However 1 items mu	It be restarted for the changes to take effect.			
Domain Structure	Settings for ForeignServer-1				
B-Enveronment	Configuration Subdeployment Notes				
-Servers a	General Destinations Connection Factories				
Machines	This same a summittee the factors destination that have				
Virtual Hosts Viox Managers Startup and Shutdown Classes 	This page summarizes the foreign destinations that have ir Customize this table Foreign Destinations	seen created for this domain.			
- Work Managers - Startup and Shutdown Classes - Deployments B-Services - Cuttersactorn 	© Customize this table	seen created for this domain.	Showing I to 3 of 3 Previous Next		
Work Managers Startup and Shutdown Classes Deskyments Senices More do L. B Configure foreign servers	© Customize this table Foreign Destinations	Local JHDI Name	Showing 1 to 3 of 3 Previous Next Remote JHD1 Name		
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Hork Managers Startup and Shutdown Classes Deployments Primers Demonstrate New do L Configure foreign servers Create foreign connection factories	Customize this table Foreign Destinations Them. Definit Rame &	Local JHDI Name	Remote JNDI Name		
Work Managers Startup and Shutdown Classes Opployments Services Anthessanon Know do L. Configure foreign services Create foreign connection factories	Customize this table Foreign Destinations Name +k Name +k MOB_QUEUE	Local JIDI Name MCG_QUEUE	Remote JNDI Name NDB_QUEUE		

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	🙆 Home Log Out Preferenc	es 🔤 Record Help		Q				Welcome, weblogic	Connected to: base_domain
View changes and restarts	Home >JMS Modules >MDB_MO	Home >JMS Modules >MDB_MODULE >ForeignServer-1 >JMS Modules >Summary of Deployments >Summary of Deployment							
Configuration editing is enabled. Future changes will automatically be activated as you	Settings for GWMDB								
modify, add or delete items in this domain.	Overview Deployment Plan	Configuration Security	Targets C	ontrol Testing	Monitoring	Notes			
Domain Structure	startup time.	WebLogic Server instances a	nd clusters to wh	ch you want to d	ploy this Ente	rprise applic	ation. These settings	determine where the application	n is deployed at server
Clusters Virtual Hosts Migratable Targets	Target Assignments Change Targets						Showing 1	to 1 of 1 Previous Next	
Coherence Servers	🔲 Component 🗞			Гуре				Current Targets	
Wachines	GWMDB		1	Interprise Applica	ion			Cluster-App	
Startup and Shutdown Classes	GW_MDB_Bean.jar		1	EJB				(None specified)	
Deployments 曰-Services 白-Messaning	Change Targets							Showing 1	to 1 of 1 Previous Next
How do I Start and stop a deployed Enterprise application									

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



Change Center	🟦 Home Log Out Preferences 🔤 Record Help		Welcome, weble	ogic Connected to: base_do
View changes and restarts	Home >Summary of Environment >Summary of Servers >Summary of Deployments >JMS Modules >MDB_MODUL of Deployments	E >Summary of Environmen	t >Summary of Servers >Summary of De	ployments >GWMDB > Summar
Configuration editing is enabled. Future hanges will automatically be activated as you nodify, add or delete items in this domain.	Summary of Deployments Control Monitoring			
omain Structure				
Green and a services Services Services Services Services Services Store-and-Forward Agents T-3MS Modules HPath Services B-Bridges T-Data Sources	This page displays a list of Java EE applications and stand-alone application modules that have been ins (redeployed), or deleted from the domain by first selecting the application name and using the controls To install a new application or module for deployment to targets in this domain, click the Install button. Customize this table Deployments Install Update Delete Start Stop >	talled to this domain. Inst on this page.		e started, stopped, updated
Persistent Stores Foreign JNDI Providers	Name 🗇	State Health	Туре	Deployment Order
w do I	FCUBSApp	Active 🖋 OK	Enterprise Application 1	00
Install an Enterprise application	GWEB	Active 🖋 OK	Enterprise Application 1	00
Configure an Enterprise application		Active 🖋 OK	Enterprise Application 1	00
Jpdate (redeploy) an Enterprise application	a sjax-rs(1.1,1.9)	Active	Library 1	00
pplication	E TR SWEIB	Active V OK		00
 Start and stop a deployed Enterprise application Monitor the modules of an Enterprise application 			Enterprise Application 1	

Showing 1 to 5 of 5 Previous Next



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 Managed</u> <u>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

	Admi	inistrati	ion Console					õ
Change Center	1	Home	Log Out Preferences 🔤 Record Help	Q			Welcome, web	logic Connected to: base_domain
View changes and restarts	-	Home >Su	ummary of Deployments					
Configuration editing is enabled. Future changes will automatically be activated as you	Su	ımma ry (of Deployments					
modify, add or delete items in this domain.	C	Control	Monitoring					
Domain Structure	Þ	(redeplo	yed), or deleted from the domain by first se Il a new application or module for deployme nize this table	I stand-alone application modules that have been in electing the application name and using the control ent to targets in this domain, click the Install buttor	s on this pag	nis domain. Installe le.	ed applications and modules car) be started, stopped, updated
		Install	Update Delete Start v Stop v				Sho	wing 1 to 5 of 5 Previous Next
		🔲 Na	ame 🕎		State	Health	Туре	Deployment Order
	1	III 🗉	FCUBSApp (12.0.3.0)		Active	🗸 ок	Enterprise Application	100
How do I 😑		•	GWEIB		Active	🖋 ок	Enterprise Application	100
Install an Enterprise application Configure an Enterprise application		•	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 		•	G SWEIB		Active	🖋 ок	Enterprise Application	100
 Monitor the modules of an Enterprise application 		Install Update Delete Starty Stopy Showing 1 to 5 of 5 Previous Next						
Deploy EJB modules	11.							
Install a Web application	<u> </u>							
System Status	1							

- 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

Home >ForeignServer-1 >Configuration >MDBQCF >JMS Modules >JMS_MODULE >MDB_QUEUE >Summary of JMS Messages >JMS Modules >JMS_MODULE >MDB_QUEUE						
Use this page to view statistics about all of the members of a uniform distributed queue. Click on the individual member destination name in the table below to manage the messages on that destination. To access the uniform distributed queue's message management page, select the check box next to its name, and then click the Show Messages button. Customize this table Destinations (Filtered - More Columns Exist)						
s Next						
Show Messages Showing 1 to 2 of 2 Previous Next						
us						

2) Select any one Server and Click on Show Messages

Configuration editing is enabled. Future	Summary of JMS Messages				
changes will automatically be activated as you modify, add or delete items in this domain.				subscriber. Use this page to view message deta r file, import XML formatted message contents fr	
Environment	Click on a message to view its contents				
Custers Custers Clusters Contract Forces Contract Custers Contract Custers Contract Custers Contract Custers Contract Custers	Message Selector:			Apply	
Work Managers Startup and Shutdown Classes Deployments	Customize this table	mns Exist)			
-Services	New Delete V Move V Impo	rt Export v			Showing 1 to 0 of 0 Previous Next
How do I 🖂	🔲 ID 🐟 🛛 CorrId	Time Stamp	State String	JMS Delivery Mode	Message Size
Manage queue messages			There are no items to dis	play	
Manage distributed queue messages Manage topic durable subscribers	New Delete v Move v Impo	rt Export 🗸			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		<u>~</u>	recome, reploye connected to, base_domain				
View changes and restarts	Home >Configuration >MDBQCF >JMS Modules >JMS_MOD	DULE >MDB_QUEUE >Summary of JMS Messages >JMS Modules :	>JMS_MODULE >MDB_QUEUE >Summary of JMS Messages				
Configuration editing is enabled. Future	Produce JMS Message						
changes will automatically be activated as you modify, add or delete items in this domain.	OK						
Domain Structure	JMS Message						
È-Environment	The following properties will be used to produce a JM:	5 message.					
Servers Clusters	Туре:						
Virtual Hosts Migratable Targets Coherence Servers	Correlation ID:						
····Coherence Clusters ····Machines ····Work Managers	Expiration:						
Startup and Shutdown Classes	Priority:	4 •					
E-Services	Delivery Mode:	Persistent •					
How do I 😑	Delivery Time:	-1					
Manage queue messages		-1					
Manage distributed queue messages	Redelivery Limit:	-1					
 Manage topic durable subscribers 							
	Body:						
System Status							
Health of Running Servers							
Failed (0)							
Critical (0)							
Overloaded (0)							

4) Message is Sent

change center		L					
View changes and restarts	Home >Configuration >MDBQCF >JMS Modules >JMS_MO	DULE >MDB_C		es >JMS_MODULE >MDB_QUEU	JE >Summary of JMS Messages		
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Messages #JMS message sent successfully.						
	Summary of JMS Messages						
Domain Structure	1						
Environment Servers Clusters Virtual Hosts Wingrabile Targets Coherence Servers Coherence Clusters Work Managers Startup and Shutdown Classes Deployments Environments Environments	 This page summarizes the available messages for a stand-alone queue, a distributed queue, or a topic durable subscriber. Use this page to view message details, create new messages, move messages to another destination, export message contents in XHL format to another file, import XHL formatted message contents from another file, or drain a messages for a destination. Click on a message to view its contents. Message Selector: Customize this table 						
	JMS Messages (Filtered - More Columns Exist)						
How do I	New Delete V Move V Import Export	~			Showing 1 t	o 1 of 1 Previous Next	
 Manage queue messages 		-					
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 Export	New Delete Move Import Export Showing 1 to 1 of 1 Previous Next					
Health of Running Servers							
Failed (0) Critical (0)							

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.

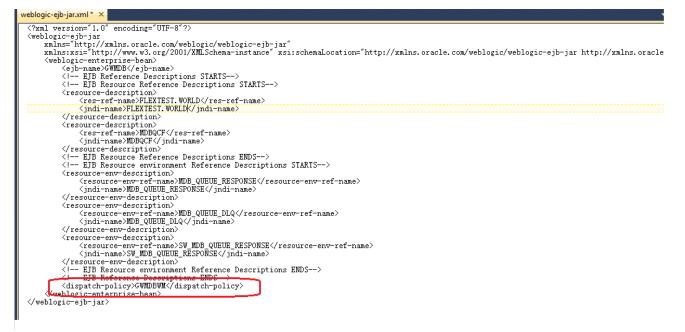
The solution is to create a work manager with a max threads constraint and assign the proxy services dispatch policy to this work manager.

Steps to create custom work manager

- 1) Modify the MDB deployment descriptior 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-ejb-jar.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

WEDLOUIC SEIVEL AU	IIIIstration Console 120			\sim				
Change Center	🏦 Home Log Out Preferences 🔤 Record Help		Q	Welcome, weblogic Connected to: FCUBSDomain				
View changes and restarts	Home >Summary of Work Managers >MaxThreadsConstrain	t-0 >Summary of Work M	anagers >WorkManager-0 >Summary of Work Managers >MaxThreadsCon	l l				
No pending changes exist. Click the Release Configuration button to allow others to edit	Environment >Summary of Servers >Summary of Work M Create a New Work Manager Component							
the domain.	Back Next Finish Cancel	ack Next Finish Cancel						
Lock & Edit Release Configuration		Select Work Manager Definition type						
	What type of Work Manager, Request Class or Constr	aint do you want to crea	ate?					
Domain Structure								
FCUBSDomain A	le Work Manager							
Servers ⊕-Clusters	Response Time Request Class							
Coherence Clusters	Fair Share Request Class							
····Virtual Hosts	Context Request Class							
Work Managers Startup and Shutdown Classes								
Deployments Services	Maximum Threads Constraint							
Security Realms	Minimum Threads Constraint							
Interoperability The operation of the operation	Capacity Constraint							
How do I	Back Next Finish Cancel							
Create application-scoped constraints	Back Next Finish Cancel							
Create application-scoped request classes								
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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 a

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 References

- 1) OBELCM_12.1_Weblogic12c_Middleware_Practices.doc
- 2) GATEWAY_Applications_WL.doc
- 3) Resource_Creation_WL.doc





Configuring JMS on Weblogic Server 12c [December] [2023] Version 14.7.2.0.0

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