Configuring JMS on Weblogic Server 12c Oracle FLEXCUBE Universal Banking Release 12.87.7.0.0 [May] [2021]



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1 Introduction

1.1 Purpose

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

- 1) FCUBS 12.1
- 2) WebLogic Server 12.1.3.0.0

1.2 Introduction

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

JMS Server

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

JMS Module

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

Subdeployment

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

JMS Resources

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



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

Persistence store

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

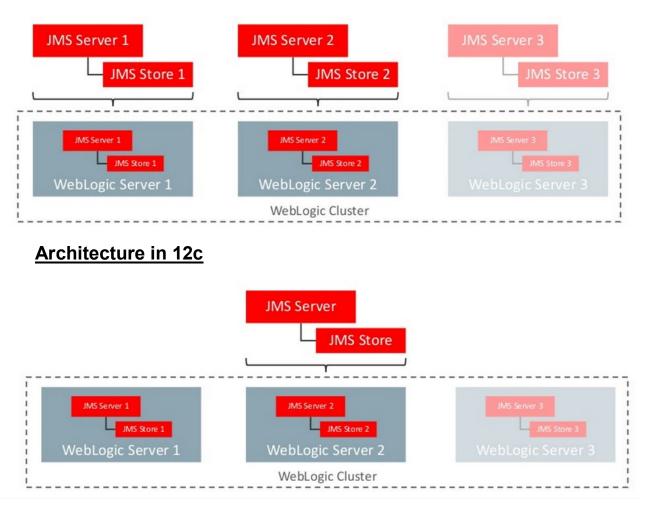
- 1) File based persistence store -> Message is stored in a file
- 2) DB based persistence store -> Message is stored in Database.

1.3 Weblogic 12c New Features

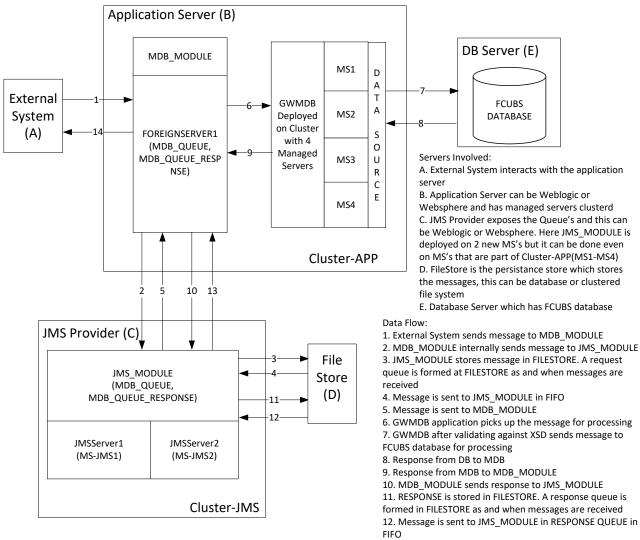
Before weblogic 12c JMS Servers and stores are targeted to individual WLS Servers. Scaling up requires configure the JMS server, the store and target it to new WLS Server

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

Architecture previous to 12c







1.4 Components Diagram & Data Flow

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

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



2. Pre-Requisites

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

2.1 <u>Machines</u>

MAC-1 & MAC-2

ORACLE WebLogic Server Ad	Iministration Console 12c	Q			
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 instan optimum server in a cluster to which certain tasks, such as HTTP session replication, are delegated. The Manager to start remote servers.				
🖻 - Environment	This page displays key information about each machine that has been configured in the current WebLog	gic Server domain.			
Servers					
Clusters Coherence Clusters					
Conerence Clusters	Customize this table				
Virtual Hosts	Machines				
Work Managers					
LStartup and Shutdown Classes	New Clone Delete	Showing 1 to 2 of 2 Previous Next			
Deployments Services	📄 Name 🗇	Туре			
Security Realms	MAC-1	Machine			
+-Diagnostics	MAC-2	Machine			
How do I	New Clone Delete	Showing 1 to 2 of 2 Previous Next			
 Assign server instances to machines 					

2.2 Dynamic Clusters and Managed Servers

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

	Administration Console 12c						Ç	
Change Center	🔒 Home Log Out Preferences 🖂	Record Help	Q			Welcome, weblogic	onnected to: FCUBSDoma	
View changes and restarts	Home >Summary of Servers >Summary Clusters >Summary of Servers > Summ		emplates >Summary of	Clusters >Summary of Servers	>Summary of Clusters >	Summary of Server Templates >Su	mmary of	
Click the Lock & Edit button to modify, add or delete items in this domain.	Messages							
Lock & Edit Release Configuration	Summary of Clusters							
Domain Structure	This page summarizes the dusters the	at have been configured in the cu	rrent WebLogic Serv	er domain.				
Environment Servers Server Templates Machines Virtual Hosts Work Managers	A duster defines groups of WebLogi Customize this table Clusters (Filtered - More Column Click the Lock & Editbutton in the C New OCone Delete	ıs Exist)				Showing 1 to	2 of 2 Previous Next	
Startup and Shutdown Classes	🗌 Name 🐟 🛛 Cluster Addres	s Cluster Messaging Mode	Migration Basis	Default Load Algorithm	Replication Type	Cluster Broadcast Channel	Servers	
Services Services How do I	Cluster-App	Unicast	Database	Round Robin	(None)		DC_FCUBS_1, DC_FCUBS_2, DC_FCUBS_3, DC_FCUBS_4	
Configure dusters Assign server instances to dusters Configure dusters	Cluster-JMS	Unicast	Database	Round Robin	(None)		DC_JMS_1, DC_JMS_2	
Configure server migration in a duster Configure cross-duster replication Create dynamic dusters	New v Clone Delete					Showing 1 to	2 of 2 Previous Next	



ORACLE WebLogic Server Adr	ministration Console 12c						Ç
Change Center	🚹 Home Log Out Preferences 🔤	Record Help	Q			Welcome, we	blogic Connected to: FCUBSDoma
View changes and restarts	Home >Summary of Server Templates Clusters >Summary of Servers	>Summary of Clusters >Sumn	nary of Servers >Summary	of Clusters >Summary o	of Servers >Summary of Cl	usters >Cluster-JMS >Summary	of Servers >Summary of
Click the Lock & Edit button to modify, add or delete items in this domain.	Summary of Servers						
Lock & Edit	Configuration Control						
Release Configuration							
omain Structure	A server is an instance of WebLogi	ic Server that runs in its own	Java Virtual Machine (JVM	 and has its own confi 	iguration.		
	This page summarizes each server	that has been configured in t	the current WebLogic Ser	ver domain.			
E-Environment	25						
	Customize this table						
Migratable Targets 😑							
Coherence Clusters	Servers (Filtered - More Colur						
Virtual Hosts	Click the Lock & Edit button in th	e Change Center to activate	all the buttons on this pa	ge.			
Work Managers Startup and Shutdown Classes	New Clone Delete					Sh	owing 1 to 7 of 7 Previous Next
Deployments Services	🔲 Name 🗇	Туре	Cluster	Machine	State	Health	Listen Port
Security Realms	AdminServer(admin)	Configured			RUNNING	✓ ОК	7001
low 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	DC FCUBS 4	Dynamic	Cluster-App	MAC-2	SHUTDOWN	Not reachable	7104
Delete the Administration Server 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
						1	
ystem Status 🖂	New Clone Delete					Sh	owing 1 to 7 of 7 Previous Next
Fystem Status Health of Running Servers	New Clone Delete					Sh	owing 1 to 7 of 7 Previous Next

2.3 DataSource

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

ORACLE WebLogic Server® Administration Console					
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	Summary of JMS Messages >Summary of Deployments >Summary of JDBC Data			
Configuration editing is enabled. Future changes will automatically be activated as you	Summary of JDBC Data Sources				
modify, add or delete items in this domain.	Configuration Monitoring				
Domain Structure	A JDBC data source is an object bound to the JNDI tree that provides database connectivity through a pool of JDBC connections. Applications can look up a data source on the JNDI tree and then borrow a database connection from a 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)				
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			
11	idhe/feidauDC Conarie idhe/feidauDC	AdminEquar			

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 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	nie, or replicated memory storage. This page summarizes the persistent stores that have been created for this domain. Customize this table Persistent Stores					
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	There are no items to display					
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: pegjn				
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.	tomatically be activated as you 🛛 🛇 Create operation cancelled - no file store created.						
	Summary of Persistent Stores						
Domain Structure the -Ousters							
	New - Delete		Showing 0 to 0 of 0 Previous Next				
Persistent Stores Foreign JNDI Providers Work Contexts	Create FileStore	Туре	Target				
	Create ReplicatedStore (Exalogic) There are no items to display						
How do I	New - Delete		Showing 0 to 0 of 0 Previous Next				
Create File Stores							



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

	Iministration Console 120				Q
Change Center	🔒 Home Log Out Pref	erences 📐 Record Help	٩		Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home >Summary of Clus of Persistent Stores	ers >Summary of Servers >Sur	nmary of Clusters >Summar	y of Servers >St	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 domain.	Create a New File Stor	2			
Release Configuration	File Store Propertie	s will be used to identify your	new file store.		
Domain Structure	* Indicates required field	3			
- EnvironmentServersClusters E	What would you like to r	ame your new file store?			
Server Templates Migratable Targets Coherence Clusters Machines	Select a server instance	FileStore-1			
Virtual Hosts Work Managers Startup and Shutdown Classes	Target:	Cluster-JMS -			
Deployments Services	The pathname to the dir	ectory on the file system whe	re the file store is kept. Th	is directory mus	ust exist on your system, so be sure to create it before completing this tab.
- Messaning -	Directory:	/scratch/work_area/J	MS_FILESTORE		
How do I 🗆	OK Cancel				
Create File Stores Monitor persistent stores	Cancel				

3) FileStore-1 is created

DRACLE WebLogic Server Administration Console 120						
Change Center	🚹 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: FCUBSDoma			
View changes and restarts	Home >Summary of Clusters >Summary of Servers >Summ of Persistent Stores	mary of Clusters >Summary of Servers >Summary of	f 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 not	ecessary.				
Release Configuration	Summary of Persistent Stores					
Domain Structure	A persistent store is a physical repository for storing s summarizes the persistent stores that have been creat Customize this table Persistent Stores Click the Lock & Editbutton in the Change Center to a	ted for this domain.	s. It can be a JDBC-accessible database, disk-based file, or replicated memory storage. This page			
	New v Delete Showing 1 to 1 of 1 Previou					
E-Services	🔲 Name 🌣	Туре	Target			
Data SourcesPersistent Stores	s FleStore-1 FleStore 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**

	ministration Console 12c				õ		
Change Center	Home Log Out Preferences	🏦 Home Log Out Preferences 🔊 Record Help					
View changes and restarts Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Home >Summary of Servers >Summary of Persistent Stores >Summary of JMS Servers Messages © Create operation cancelled - no JMS Servers created.						
Domain Structure	And the set of the set						
Deployments	Delete			Showing 0	to 0 of 0 Previous Next		
⊡-Services ⊡-Messaging JMS Servers		Persistent Store	Target	Current Target	Health		
Store-and-Forward Agents	There are no items to display						
How do I	New Delete			Showing 0	to 0 of 0 Previous Next		

2) .Select FileStore-1 , Click Next

ORACLE WebLogic Server Ad	Iministration Console 12c		Q
Change Center	🚹 Home Log Out Preferences 🔤 Record Help	p Q	Welcome, weblogic Connected to: FCUBSDoma
View changes and restarts	Home >Summary of Servers >Summary of Clusters : Stores >Summary of JMS Servers	>Summary of Servers >Summary of Clusters >Clus	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 Cancel		
Release Configuration	JMS Server Properties The following properties will be used to identify y	VOLIT DAWL TMS Sanuar	
Domain Structure	* Indicates required fields		
E-Environment Servers	What would you like to name your new JMS Serve	er?	
ClustersServer TemplatesMigratable Targets	登 * 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	
LStartup and Shutdown Classes Deployments Services	Back Next Finish Cancel	(none) FileStore-1	
-Messaring 🔻			

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

	ministration Console 12c	Q
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home >Summary of Servers >Summary of Clusters >Summary of Servers >Summary of Clusters >Summary of JMS Servers	sters >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	Select targets	
Domain Structure	Select the server instance or migratable target on which you would like to deploy this	MS Server.
Domain Structure	Target: (none)	
Environment Servers Clusters Server Templates Migratable Targets	Back Next Finish Cancel (none) AdminServer Cluster-App Cluster-MS	



	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 >Sur Stores >Summary of JMS Serve		uster-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	Select targets		
	Select the server instance or m	igratable target on which you would like to deploy this JMS Serv	er.
Domain Structure	Target:	Cluster-JMS 💌	
Environment Servers Clusters Server Templates Minatable Targets	Back Next Finish	Cancel	

4) JMS-Server-1 is created

hange Center		Home Log Out Preferences	Record Help	Q	Wel	Icome, weblogic Connected to: FCUBSDon			
iew changes and restarts		Home >Summary of Servers >Sun Stores >Summary of JMS Serve		mmary of Clusters >Cluster-JMS >Su	mmary of Servers >Summary of Clusters >Summa	ury of Servers >Summary of Persistent			
lick the Lock & Edit button to modify, add or elete items in this domain.		Messages							
Lock & Edit	1.	All changes have been activ	vated. No restarts are necessary.						
Release Configuration	4	Summary of JMS Servers							
omain Structure	1	JMS servers act as managemer	nt containers for the queues and topics in :	MS modules that are targeted to t	nem.				
- Environment	This page summarizes the JMS servers that have been created in the current WebLogic Server domain.								
Server Templates Migratable Targets	=	Customize this table							
Coherence Clusters Machines		JMS Servers (Filtered - More Columns Exist)							
Virtual Hosts Work Managers		Click the Lock & Edit button in	n the Change Center to activate all the but	ons on this page.					
	L	New Delete				Showing 1 to 1 of 1 Previous Next			
-Services		🗌 Name 🗇	Persistent Store	Target	Current Target	Health			
JMS Servers	-	JMSServer-1	FileStore-1	Cluster-JMS	Cluster-JMS				
		New Delete				Showing 1 to 1 of 1 Previous Next			

5) In NFS below filestores can be seen

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



3.3 Cluster Configuration for Service Migration

hange Center	A Home Log Out	Preferences	Recor	d Help		Q	Welco	me, weblogic Corner	thed to: peggin		
New changes and restarts		Hone xSummary of Servers xSummary of Penistert Stone xSummary of JMS Servers xSummary of Outlets xSummary of Highlable Targets xSummary of Outlets xSummary of Highlable Targets xSummary of Outlets									
Configuration editing is enabled. Puture hanges will automatically be activated as you rodify, add or delete items in this domain.		Summary of Clusters									
omain Structure	This page summar	This page summarizes the dusters that have been configured in the current WebLogic Server domain.									
Environment Servers	A duster defines	groups of Wel	blogic Sen	er servers that	t work togethy	er to increase scalabi	ity and reliability.				
Ousters Cohe Costers	© Customize this	table									
Machi Clusters, Level 2, Collapsed, 2 of	7, Selected I's (Filtere	d - More Co	lumns Ex	ist)							
-Work Managers	New v. Con	e Delete					1	howing 1 to 2 of 2 Pre	vious Next		
-Startup and Shutdown Gasses Deployments Services	🔲 Name 🙃	Cluster Ad	Idress (Juster Hessa	ging Hode	Higration Basis	Default Load Algorithm	Replication Type	Cluster Bri		
Security Realms	Custer-App		U	ncest		Detabase	Round Robin	(None)			
w do L. 🛛	Cater-36	<u>n</u>		inicant		Database	Round Robin	(None)	-		
2) Click on Mi	gration Tab					100000	100000				
,	-								0		
Change Center	Administration Conso		: 📐 Reco	ord Help		Q	Welco	me, weblogic Connec			
View changes and restarts	Home >Summary Clusters >Cluster-J						y of Clusters >Summary of Mi	gratable Targets >Summar	y of		
Configuration editing is enabled. Future changes will automatically be activated as you	Settings for Clust	ter-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 Overload	Health Monitoring	нттр		
⊐-Environment	Coherence										
Servers ⊕-Clusters Coherence Clusters	Save										
	ration Basis	to Con	sensi	us and (Click o	n Savo					

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



and course	Alter Contraction				- International					
View changes and restarts		FServers >Summary IS >Summary of Hig				d Outen >Su	nmary of Hig	ratable Tarpets »Summa	ryd	
Configuration editing is enabled. Future thanges will automatically be activated as you	Settings for Cluste	Settings for Cluster-3HS								
modify, add or delete items in this domain.	Configuration	Monitoring Contr	of Deployments	Services	Notes					
Domain Structure	General JTA	Messaging Serve	rs Replication	Higration	Singleton Services	Scheduling	Overload	Health Monitoring	HTTP	
9 Environment	Coherence									
-Servers 8-Ousters Coherence Ousters	Save	Save								
-Machines -Virtual Hosts 5 -Work Managers -Startup and Shutdown Classes					server and its service specify the data source			page alows you to spr on.	eofy the	
Orgloyments Services Security Realms	Candidate Ha	achines For Higr	table Servers: Chosen:		The set of machines (and order of preference) on which Node Manager will restart failed servers. (Requires you to					
Intersperability Ri-Characteristics	MAC-1		2			enable each i	verver for au	tonatic migration.) N	tore Info	
How do L	2		30							
Configure dusters			4							
 Configure server migration in a duster 			42		2					
Create 308C generic data sources Configure cross-duster replication			1 10 10							
System Status	Higration Bar	sist		Databas	and the second s	Controls the migration.		sed for server and ser	vice	
Contraction and the second				Databas	14					



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 Q									
Change Center	🟦 Home Log Out Preferences 🖾 Record Help								
View changes and restarts	Home >Summary of Migratable Targets >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								
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Messages								
Domain Structure	Summary of JMS Modules								
B - Environment Deployments Services	JMS system resources are configured and stored as modules similar to standard JZEE modules. Such resources include queues, topics, connection factories, templates, destination keys, quota, distributed queues, distributed topics, foreign servers, and JMS store-and-forward (SAF) parameters. You can administratively configure and manage JMS system modules as global system resources. This page summarizes the JMS system modules that have been created for this domain. Customize this table JMS Modules								
Persistent Stores Foreign JNDI Providers	New Delete Showing 0 to 0 of 0 Previous Next								
How do L	Image: 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 Next								
System Status	L								

2) Enter name as JMS_MODULE and Click on Next

	inistration Console 12c
Change Center	🟦 Home Log Out Preferences 🖾 Record Help
View changes and restarts	Home >Summary of Migratable Targets >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
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 Image: Trinish Cancel
Deployments Deployments	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, topics, connection factories, templates, destination keys, quota, distributed queues, distributed topics, foreign servers, and JMS store-and-forward (SAF) parameters. You can administratively configure and manage JMS system modules as global system resources. * Indicates required fields
iPath Services IPath Services Data Sources Persistent Stores Foreign JNDI Providers Work Contexts	What would you like to name your System Module? * Name: JMS_Module What would you like to name the descriptor file name? If you do not provide a name, a default 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 configuration sub-directory of your domain?
System Status	Location In Domain:
Failed (0)	Back Next Finish Cancel

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



ORACLE WebLogic Server A	dministration Console 12c		\odot
Change Center	😭 Home Log Out Preferences 🖂 Record Help	Q	Welcome, weblogic Connected to: FCU8SDomain
View changes and restarts	Home >Summary of Server Templates >DC_3HS_Template/0 >So Highstatile Targets >Summary of 3HS Hodules	unnary of Servers >Summary of Higratable	Targets >Summary of JHS Servers >JHSServer-1 >Summary of JHS Servers >JHSServer-1 >Summary of
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit	Create JHS System Hodule Back Net Frish Cancel		
Release Configuration	The following properties will be used to target your	new 3HS system module.	
Domain Structure	Use this page to select the server or duster on which you w	ould like to deploy this JMS system moduli	e. You can reconfigure targets later if you wish.
Environment Servers Ousters	Targets :		
Server Templates	Servers		
-Coherence Ousters Machines	AdminServer		
Work Managers	Clusters		
Ceployments Services Services Services	Claster-App All servers in the cluster		
How do L. 🛛	Cluster-JHS		
Configure 3MS system modules Configure 3MS servers	All servers in the cluster		

4) Select the checkbox and Click on Finish

	dministration Console 12c Q
Change Center	🟦 Home Log Out Preferences 🔤 Record Help
View changes and restarts	Home >Summary of Migratable Targets >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
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
⊕-Environment ⊖Opployments ⊖-Services ⊖-Messaging	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.
JMS Servers Store-and-Forward Agents	Would you like to add resources to this JMS system module?
Path Services Path Services Pathges	Back Next Finish Cancel
Data Sources Persistent Stores Foreign JNDI Providers	

5) JMS_MODULE is created

Change Center	Home Log Out P	Preferences 🔤 I	Record Hel	lp		Q	Welcome, weblogic Connected to: pegjm
View changes and restarts	Home >MS-JMS1 (mig (migratable) >Summa						nmary of Clusters >Summary of Migratable Targets >MS-JMS1 Jles >J MS_Module
Configuration editing is enabled. Future	Messages	,	,		,	,	
changes will automatically be activated as you modify, add or delete items in this domain.	 ✓ All changes have ✓ The JMS module 			items must l	oe restarte	d for the change	es to take effect.
Domain Structure	Settings for JMS_M	lodule					
Environment Deployments	Configuration S	ubdeployments	Targets	Security	Notes		
⊖-Services ⊡-Messaging JMS Servers Store-and-Forward Agents Store-Store-Store-Store Store S	E This page displays gresources.	general informatic	n about a 1	JMS system r	t also allows you to configure new resources and access existing		
Path Services	Name:	Name:			•		The name of this JMS system module. More Info
Data Sources Persistent Stores	Descriptor File Na	me:		jms/jms_mo	dule-jms.xr	ml	The name of the JMS module descriptor file. More Info
Foreign JNDI Providers Work Contexts This page summarizes the JMS resources that have been created for this JMS system module, including queue and topic destinations, connection fact JMS templates, destination sort keys, destination quota, distributed destinations, foreign servers, and store-and-forward parameters.							nodule, including queue and topic destinations, connection factories,



4.2 Sub Deployment Creation

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

	r Administration Console 12c				õ				
Change Center	Home Log Out Preference	es 🟊 Record Help	Q	Welc	come, weblogic Connected to: pegjms				
View changes and restarts	Home >MS-JMS1 (migratable) > (migratable) >Summary of Clus) >Summary of Clusters >Summary of Migr 5 Modules > JMS_Module	atable Targets >MS-JMS1				
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	s will automatically be activated as you add or delete items in this domain.								
Domain Structure	The JMS module was creat	ted successfully.							
	Settings for JMS_Module								
Deployment Services Hessaging		ıbdeployments- Tal		rces. It also allows you to configure new	resources and access existing				
	Name:		IS_Module		stem module. More Info				
EWork Contexts	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								
	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)			There are no its	ems 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 affiliate Oracle is a registered trademark of Oracle Corport		y be trademarks of thei	respective owners.						

2) Enter name as JMS_SUB and click on Next

	dministration Console 12c
Change Center	🟦 Home Log Out Preferences 🔤 Record Help
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 >MS-JMS1
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain. Domain Structure	Create a New Subdeployment Back Next, Finish Cancel Subdeployment Properties Subdeployment Properties Subdeployment Properties
Deployments Deployments Deployments Deployments Deployments	The following properties will be used to identify your new subdeployment. * Indicates required fields
Hessaging Hessaging	* Subdeployment Name: JMS_SUB
Persistent Stores	



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

	dministration Console 12c		Q
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home >DC_JMS_Template-0 >Summary of Servers >Summary of Migrat JMS Modules >JMS_MODULE	able Targets >Summary of JMS Servers >JMSServe	er-1 >Summary of JMS Servers >JMSServer-1 >Summary of Migratable Targets >Summary of
No pending changes exist. Click the Release Configuration button to allow others to edit the	Create a New Subdeployment		
domain.	Back Next Finish Cancel		
Release Configuration	Targets		
Domain Structure	Please select targets for the Subdeployment		
-Environment	Servers		
Servers □-Clusters	AdminServer		
Server Templates	Clusters		
Coherence Clusters Machines	Cluster-JMS		
Virtual Hosts Work Managers	All servers in the cluster		
Startup and Shutdown Classes	JMS Servers		
-Services	JM5Server-1		
How do I 🗆	Back Next Finish Cancel		
 Configure subdeployments in JMS system modules 			

4) Sub-Deployment is created

n.

ORACLE WebLogic Server Ad	Iministration Con	sole 12c							Q
Change Center	Home Log	Dut Preferences 📐 R	lecord Help		(2	We	elcome, weblogic	Connected to: pegjms
View changes and restarts						atable) >Summary of Cluster of JMS Modules > JMS_Mod		igratable Targets >MS	-JMS1
Configuration editing is enabled. Future changes will automatically be activated as you	Messages								
modify, add or delete items in this domain.	All changes	have been activated. H	However 1 ite	ems must be i	estarted for	r the changes to take effe	ct.		
	Subdeployr	nent created successful	ly.						
Domain Structure			-						
	Settings for JN	IS_Module							
	Configuration	Subdeployments	Targets	Security 1	otes				
Services Services Servers Servers Servers Store-and-Forward Agents Services B-Bridges Data Sources Services Services		nnection factories) are				bdeployment is a mechanis ource (such as JMS server			uch as queues,
Foreign JNDI Providers	New De	lete						Showing 1 to 1 o	f1 Previous Next
How do I 🗆	Name «	~		Resource			Targets		
Configure subdeployments in JMS system	MS_SU	3					Cluster-JM	IS	
modules Configure JMS system modules 	New De	lete						Showing 1 to 1 o	f 1 Previous Next
System Status									



4.3 Resource Creation

4.3.1 Queue Creation

1) In JMS_MODULE Click on New

	ministration Consol	le 12c							Q
Change Center	Home Log Out	Home Log Out Preferences 🔤 Record Help						ic 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	Settings for JMS	_Module							
modify, add or delete items in this domain.	Configuration	Subdeployments	Targets	Security	Notes				
Domain Structure	This page display resources.	vs general informat	tion about a J	MS system r	nodule an	d its resources	. It also allows you to configure	new resources and	access existing
-Messaging	Name:		:	IMS_Module			The name of this JM	S system module.	More Info
JMS Servers Store-and-Forward Agents JMS Modules Path Services Path Services				ns/jms_module-jms.xml The name of the JMS we been created for this JMS system module, including queue and top					
How do I	JMS templates, of Customize this	s table	ys, destinatior	n quota, dis	tributed d	estinations, for	reign servers, and store-and-for	rward parameters.	
No task help found.	New Delet							Showing 0 to	0 of 0 Previous Next
System Status 🖂	🔲 Name 🗞	Ту	/pe	JNDI Na	me		Subdeployment	Т	argets
Health of Running Servers					There	e are no items t	to display		
Failed (0) Critical (0) Overloaded (0)	Nev Delet	e						Showing 0 to (0 of 0 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 (r (migratable) >Summary of Clusters >Summary of Migratable Targets >Summ	migratable) >Summary of Clusters >Summary of Migratable Targets >MS-JMS1 ary 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 JMS System Module Resource Back Next Finish Cancel	
Domain Structure	Choose the type of resource you want to create.	
⊕-Environment ·Deployments ⊖-Services ⊖-Messaging ·JMS Servers ·Store-and-Forward Agents ·JMS Modules ·Path Services	stand-alone queues and topics, connection factories, distributed queue	ter basic information for creating the resource. For targetable resources, like is and topics, foreign servers, and JMS SAF destinations, you can also proceed to associate targetable resources with subdeployments, which is an advanced
Persistent Stores	Connection Factory	Defines a set of connection configuration parameters that are used to create connections for JMS clients. More Info
How do I	💿 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
Configure quotas for destinations Configure JMS templates Configure destination keys Configure topics Configure queues	© Торіс	Defines a publish/subscribe destination type, which are used for asynchronous peer communications. A message delivered to a topic is distributed to all topic consumers. More Info
Configure queues Configure connection factories Configure uniform distributed topics Configure uniform distributed queues	O Distributed Queue	Defines a set of queues that are distributed on multiple JMS servers, but which are accessible as a single, logical queue to JMS clients. More Info

3) Enter the queue name and Click on Next



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Change Center	Prome Log Out Pre	ferences 🔜 Record Help	Q	welcome, weblogic	Connected to: pegjm	
View changes and restarts		stable) >Summary of Migratable Targets : of Clusters >Summary of Migratable Tar		Clusters >Summary of Migratable Targets >M _Module	5-3MS1	
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.		stem Module Resource				
Domain Structure						
€nvironment ⊡Deployments Services ⊡Messaging		estimation Properties les will be used to identify your new Di ds	stributed Queue. The current module	e is JMS_Module		
JMS Servers Store-and-Forward Agents	What would you like to name your new destination?					
	* Name:	MDB_QUEUE	$\langle \neg$			
-Data Sources	What JNDI Name would	d you like to use to look up your new d	estination?	~		
-Foreign JNDI Providers	JNDI Name:	MDB_QUEUE		$\langle \neg \rangle$		

4) Click on Advance Targeting

A STATE OF	
Home Log Out Preferences M Record Help	Welcome, weblogic Connected to: FCUBSDomain
Home >DC_3HS_Template-0 >Summary of Servers >Summary of Highstable Targets >Summary of 3HS Servers >3HSS Targets >Summary of 3HS Hodules >3HS_HODULE	Server-1 > Summary of JMS Servers > JMSServer-1 > Summary of Highelible
Create a New JHS System Hodule Resource	
Back Next Finah Advanced Targeting Cancel	
The following properties will be used to target your new JHS system module resource	
Use this page to view and accept the default targets where this JMS resource will be targeted. The default tan accept the default targets, then cick Advanced Targeting to use the subdeployment mechanism for targets	
The following JMS module targets will be used as the default targets for your new JMS system module resource. appropriately. Targets :	If the module's targets are changed, this resource will also be retargeted
Ousters	
Chuster-3HS All servers in the cluster	
	Targets >Summary of 2HS Modules >3HS, MOdule >3HS, MOdule >3HS, MOdule >3HS, MOdule >3HS, Module Alexance Back Net Prish Advanced Targeting Cancel The following properties will be used to target your new 3HS system module resource Use this page to view and accept the default targets where this 3HS resource will be targeted. The default tar accept the default targets, then click Advanced Targeting to use the subdisployment mechanism for target The following 3HS module targets will be used as the default targets for your new 3HS system module resource appropriately. Targets : Clusters Cluster-3HS

5) Select Subdeployement as JMS_SUB and Click on ${\bf Finish}$

ORACLE WebLogic Server A	dministration Console 12c	0
Change Center	🔞 Hone Log Out Preferences 🔛 Record Help	Welcome, weblogic Connected to: FCUBSDomail
View changes and restarts	Hone xOC_3HS_Template-0 xSummary of Servers xSummary of Mgnatable Targets xSummary of JHS Servers xJHSServer Targets xSummary of JHS Modules xJHM, MODBLE	ent >Summary of JHS Servers >3HSServent >Summary of Migratable
No pending changes exist. Click the Release Configuration button to allow others to edit the	Create a New JHS System Hodule Resource	
Lock & Edit	Back, Net Frah. 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 subdeployment to assign this system module resource. A subdeployment is a mechanism b SAF agent. If necessary, you can create a new subdeployment by clicking the Create a New Subdeployment b module's subdeployment management page.	
Servers 8 Custers 8 Server Tenplates 8 Migratable Targets 8 -Coherence Quaters 8	Select the subdeployment you want to use. If you select (none), no targeting will occur. Subdeployments: JMS_SUB Ceste a New Subdeployment.	
Machines Virtual Hosts Work Managers	What targets do you want to assign to this subdeployment?	
Startup and Shutdown Classes Deployments (8) Services	Targets :	
R Messanin *	Servers	
How do L. B	AdminServer	
Configure quotes for destinations Configure 3MS templates	Clusters	
Configure destination keys Configure topics Configure topics	Cluster 3HS All servers in the cluster	

6) MDB_QUEUE is created



	Iministration Console 12c				Q	
Change Center	🔒 Home Log Out Preferences 🛽	Record Help	2	Welcome, weblogi	c 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.	Messages All changes have been activated. However 1 items must be restarted for the changes to take effect. The JMS distributed queue was created successfully.					
Domain Structure		s created successiony.				
+-Environment	Settings for JMS_Module Configuration Subdeployments	ts Targets Security Notes				
Deployments Services	Configuration Subdeployments	ts Targets Security Notes				
Services -Messaging JMS Servers JMS Servers Store-and-Forward Agents JMS Modules	This page displays general inform resources.	ation about a JMS system module and its re	esources. It also allows yo	ou to configure new resources and	access existing	
Path Services Pridges	Name: JMS_Module The name of this JMS system module.				More Info	
Data Sources Persistent Stores Foreign JNDI Providers	Descriptor File Name: jms/jms_module-jms.xml The name of the JMS module descriptor file. More Info					
How do I	Image:					
No task help found.	Customize this table					
System Status	Summary of Resources					
Health of Running Servers	New Delete			Showing 1 to 1	of 1 Previous Next	
Failed (0) Critical (0)	🔲 Name 🗞 🛛 Typ	pe	JNDI Name	Subdeployment	Targets	
Overloaded (0)	MDB_QUEUE Unif	form Distributed Queue	MDB_QUEUE	JMS_SUB	Cluster-JMS	
Warning (0) OK (1)	New Delete			Showing 1 to 1	of 1 Previous Next	

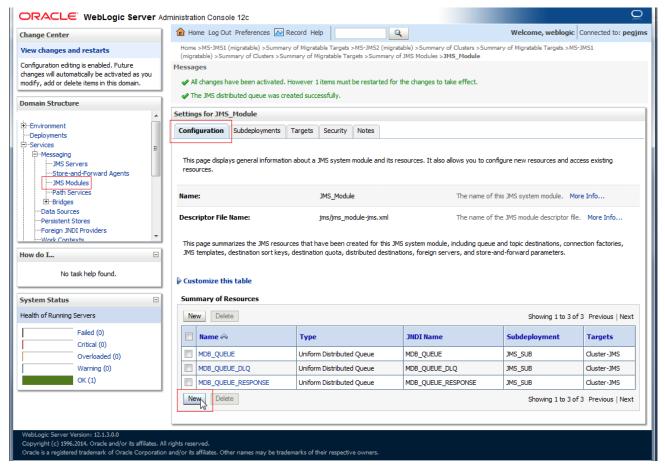
7) Similarly Create MDB_QUEUE_RESPONSE and MDB_QUEUE_DLQ

							õ	
Change Center	Home Log Ou	it Preferences 📐	Record Help		Q		Welcome, weblog	ic Connected to: FCUBSDomain
View changes and restarts		me >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 IS Modules >JMS_MODULE						Migratable Targets >Summary of
Click the Lock & Edit button to modify, add or delete items in this domain.	Messages	essages						
Lock & Edit Release Configuration		triggering construction of the set include of						
Domain Structure	Configuration	Subdeployments	Targets S	ecurity Notes				
Environment Servers	This page displa	iys general information	on about a JMS	system module	and its resources. It also allo	ws you to configure new resource	s and access existing resources.	
Clusters Server Templates	Name:		JMS_M	JMS_MODULE The na		name of this JMS system module. More Info		
LMigratable Targets Coherence Clusters Machines Virtual Hosts		Descriptor File Name: jms./jms_module-jms.xml The name of the				ame of the JMS module descriptor file. More Info		
					rr this JMS system module, ir ore-and-forward parameters		ns, connection factories, JMS templates,	destination sort keys,
-Services	Customize th	is table						
How do I 🖂	Summary of R							
No task help found.	Click the Lock 8	& Edit button in the	Change Center	to activate all th	e buttons on this page.			
	New Dele	te					Showin	g 1 to 3 of 3 Previous Next
System Status	🔲 Name 🗇	,		Туре		JNDI Name	Subdeployment	Targets
Health of Running Servers	MDB_QUE	UE	l	Jniform Distribut	ed Queue	MDB_QUEUE	JMS_SUB	Cluster-JMS
Failed (0) Critical (0)	MDB_QUE	UE_DLQ	l	Jniform Distribut	ed Queue	MDB_QUEUE_DLQ	JMS_SUB	Cluster-JMS
Overloaded (0)	MDB_QUE	UE_RESPONSE	L. L	Jniform Distribut	ed Queue	MDB_QUEUE_RESPONSE	JMS_SUB	Cluster-JMS
Warning (0) OK (5)	New Dele	te					Showin	g 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

	dministration Console 12c			Q			
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 >MS-JMS1					
Configuration editing is enabled. Future changes will automatically be activated as you							
modify, add or delete items in this domain.	Back Next Finish Cancel	Back Next Finish Cancel					
Domain Structure	Choose the type of resource you want to o	reate.					
Environment Deployments Services Services Store-and-Forward Agents JMS Modules Path Services	Use these pages to create resources in a JMS system module, such as queues, topics, templates, and connection factories. Depending on the type of resource you select, you are prompted to enter basic information for creating the resource. For targetable resources, like stand-alone queues and topics, connection factories, distributed queues and topics, foreign servers, and JMS SAF destinations, you can also proc targeting pages for selecting appropriate server targets. You can also associate targetable resources with subdeployments, which is an advanced mechanism for grouping JMS module resources and the members to server resources.						
El-Bridges	R Connection Factory		Defines a set of connection configuration are used to create connections for JMS c				
Foreign JNDI Providers	🔘 Queue		Defines a point-to-point destination type for asynchronous peer communications.	·			



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

	dministration Console 12c			Q			
Change Center	ᢙ Home Log Out Preferences [Necord Help	٩	Welcome, weblogic Connected to: pegjms			
View changes and restarts			Targets >MS-JMS2 (migratable) >Summary able Targets >Summary of JMS Modules >	y of Clusters >Summary of Migratable Targets >MS-JMS1 JMS Module			
Configuration editing is enabled. Future changes will automatically be activated as you	Create a New JMS System Mod	lule Resource		-			
modify, add or delete items in this domain. Domain Structure	Back Next Finish Connection Factory Propert	Cancel					
-Environment -Deployments -Services -Hessaging			new connection factory. The current m	iodule is JMS_Module.			
	What would you like to name your new connection factory?						
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
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 Back Net Fnish 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 dick Advanced Targeting to use the subdeployment mechanism for targeting this resource.
Environment -Servers Clusters -Migratable Targets Coherence Clusters Migratable Targets Coherence Clusters Machines	The following JMS module targets will be used as the default targets for your new JMS system module resource. If the module's targets are changed, this resource will also be retargeted appropriately. Targets:
Virtual Hosts Work Managers	Clusters
Startup and Shutdown Classes Deployments Services	Image: Cluster-3MS Image: Optimized and the cluster
How do I	Back Next Fnish Advanced Targeting Cancel
Configure quotas for destinations	



5) Select JMS_SUB and Click on ${\bf Finish}$

ORACLE WebLogic Server Ad	ministration 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 >Summary of JMS Servers >JMSServer-1 >Summary of JMSServer-1 >Summary of JMS Servers >JMSServer-1 >Summary of JMS Servers >JMSServers >
No pending changes exist. Click the Release Configuration button to allow others to edit the	Create a New JMS System Module Resource
domain.	Back Next Finish Cancel
Release Configuration	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, duster, or SAF agent. If necessary, you can create a new subdeployment by clicking the Create a New Subdeployment button. You can also reconfigure subdeployment targets later by using the parent
Environment Servers	module's subdeployment management page.
E)-Clusters	Select the subdeployment you want to use. If you select (none), no targeting will occur.
Migratable Targets Coherence Clusters	Subdeployments: JMS_SUB Create a New Subdeployment
Machines Virtual Hosts	What targets do you want to assign to this subdeployment?
Work Managers Startup and Shutdown Classes Deployments	Targets :
E-Services	
! I-I-Messaning	Servers
How do I	AdminServer
Configure quotas for destinations	
Configure JMS templates	Clusters
Configure destination keys	☑ Cluster-JHS
Configure topics	Ousder 2013 Ousder 20
Configure queues	
Configure connection factories	JMS Servers
Configure uniform distributed topics	
Configure uniform distributed queues	JMSServer-1
Configure foreign servers	
Configure JMS SAF	Back Next Finish Cancel
System Status	

6) Connection Factory is **Created**



ORACLE WebLogic Server Ad	ministration Console 12c						Q
Change Center	🔒 Home Log Out Preferences	🔁 Record He	elp	٩		Welcome, weblogic	Connected to: pegjm
View changes and restarts	Home >M5-JM51 (migratable) >Summary of Migratable Targets >M5-JM52 (migratable) >Summary of Clusters >Summary of Migratable Targets >M5-JM51 (migratable) >Summary of Clusters >Summary of Migratable Targets >Summary of JM5 Modules > JM5_Module						
Configuration editing is enabled. Future changes will automatically be activated as you	Messages						
modify, add or delete items in this domain.							
Domain Structure	Settings for JMS_Module						
+-Environment	Configuration Subdeploymer	nts Targets	Security	Notes			
Deployments	comgaration oubdeploymen	no raigeo	becanty	Hotes			
MessagingJMS ServersStore-and-Forward AgentsJMS Modules	This page displays general inform resources.	mation about a	JMS system	nodule and its res	sources. It also allows you to	o configure new resources and a	ccess existing
Path Services Pridges	Name:		JMS_Module		The name	e of this JMS system module. M	lore Info
Data Sources Persistent Stores Foreign JNDI Providers	Descriptor File Name:		jms/jms_mo	dule-jms.xml	The name	e of the JMS module descriptor fi	le. More Info
How do I	This page summarizes the JMS r JMS templates, destination sort						nection factories,
No task help found.	Customize this table						
System Status	Summary of Resources						
Health of Running Servers	New Delete					Showing 1 to 4 d	of 4 Previous Next
Failed (0) Critical (0)	🔲 Name 🐟	Туре			JNDI Name	Subdeployment	Targets
Overloaded (0)		Conne	ction Factor	,	MDBQCF	JMS_SUB	Cluster-JMS
Warning (0)	MDB_QUEUE	Unifor	m Distributed	Queue	MDB_QUEUE	JMS_SUB	Cluster-JMS
OK (1)	MDB_QUEUE_DLQ	Unifor	m Distributed	Queue	MDB_QUEUE_DLQ	JMS_SUB	Cluster-JMS
	MDB_QUEUE_RESPONSE	Unifor	m Distributed	Queue	MDB_QUEUE_RESPONSE	JMS_SUB	Cluster-JMS
	New Delete					Showing 1 to 4 d	of 4 Previous Next



5. Server Restart

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

	dminis	stration Console 12c						Q
Change Center		Home Log Out Preferences 🔼	Record Help	Q			Welcome, we	blogic Connected to: FCUBSDomain
View changes and restarts		Iome >Summary of JMS Servers >JM Iodules >JMS_MODULE >Connection			mmary of Migratable Targ	gets >Summary of JMS		
Click the Lock & Edit button to modify, add or delete items in this domain.		mmary of Servers		,				
Lock & Edit	C	onfiguration Control						
Release Configuration		A server is an instance of WebLogi	c Server that runs in its own .	Java Virtual Machine (JVN	1) and has its own confi	guration.		
Domain Structure		This page summarizes each server	that has been configured in t	he current WebLogic Ser	ver domain.			
Environment Servers B-Olusters Server Templates		Qustomize this table						
		Servers (Filtered - More Colur Click the <i>Lock & Edit</i> button in th	-	all the buttons on this pa	ge.		Sh	wing 1 to 7 of 7 Previous Next
Deployments Services		🗌 Name 🗞	Туре	Cluster	Machine	State	Health	Listen Port
How do I		AdminServer(admin)	Configured			RUNNING	🖋 ОК	7001
		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 Delete Managed Servers		DC_FCUBS_3	Dynamic	Cluster-App	MAC-1	SHUTDOWN	Not reachable	7103
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					Sh	owing 1 to 7 of 7 Previous Next
Health of Running Servers								
Esiled (0)								

2) Select the cluster 'DC_JMS_Template-0' and

	Iministration Console 12c				Ŏ	
Change Center	Home Log Out Preferences 🔤 Record H	Help			Welcome, weblogic Connected to: FCUBSDomain	
View changes and restarts	Home >JMSServer1 >Summary of Migratable Targets >Summary of JMS Modules >JMS_MODULE >ConnectionFactory-0 >placeholder >Summary of Servers >Summary of Server Templates >DC JMS Template 0 >Summary of Server Templates					
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 the server template the server template contains common, non-defi manage configuration for a group of server in	ault attributes that you can apply to a set	-	nen inherit the template configura	tion. Server templates enable you to easily	
Environment Servers Custers Gevern Templates Migratable Targets Coherence Clusters Machines	Customize this table Server Templates Cick the Lock & Editbutton in the Change C New Cone Delete	enter to activate all the buttons on this p	ige.		Showing 1 to 2 of 2 Previous Next	
Virtual Hosts Work Managers	□ Name ↔	Cluster	Machine	Listen Port	Listen Address	
Startup and Shutdown Classes	DC_FCUBS_Template	Cluster-App		7100		
-Services -Messaging -	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

	ministration Console 12c	Q
Change Center	🏦 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: FCUBSDoma
View changes and restarts	Home >Summary of Migratable Targets >Summary of JMS Modules >JMS_MODULE >ConnectionFactory-0 >placeholder : Server Templates >DC_JMS_Template-0	Summary of Servers >Summary of Server Templates >DC_JM5_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	
lomain.	Configuration Protocols Logging Debug Notes	
	General Cluster Services Keystores SSL Federation Services Deployment Migration Tuning	Overload Health Monitoring Server Start Web Services Coherence
Release Configuration	Save	
main Structure		
-Environment	Node Manager is a WebLogic Server utility that you can use to start, suspend, shut down, and restart servers in that Node Manager will use to start this server on a remote machine.	
Server Templates Migratable Targets Coherence Clusters	Java Home:	The Java home directory (path on the machine running Node Manager) to use when starting this server. More Info
Machines Virtual Hosts Work Managers	Java Vendor:	The Java Vendor value to use when starting this server. More $\ensuremath{Info}\xspace$
	BEA Home:	The BEA home directory (path on the machine running Node Manager) to use when starting this server. More Info
-Messaning *	Root Directory:	The directory that this server uses as its root directory. This directory must 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		
rstem Status		
ealth of Running Servers		
Failed (0) Critical (0) Overloaded (0)	Arguments: -XX:MaxPermSize=512m	The arguments to use when starting this server. More Info

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

	dministration Console 12c	Q				
Change Center	🔒 Home Log Out Preferences 🐼 Record Help					
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	JMS system resources are configured and stored as modules similar to standard JZEE modules. Such resources include o quota, distributed queues, distributed topics, foreign servers, and JMS store-and-forward (SAF) parameters. You can a					
Work ManagersStartup and Shutdown ClassesDeploymentsDeployments	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,	Selected Delete	Showing 1 to 1 of 1 Previous Next				
Data Sources Persistent Stores	Image: Name ↔ Ty	гре				
Foreign JNDI Providers	JMS_Module Sys	stem				
How do I	New Delete	Showing 1 to 1 of 1 Previous Next				
Configure JMS system modules Configure resources for JMS system modules						

2) Enter name as MDB_MODULE and click on Next

	ministration Console 12c	Q
Change Center	Home Log Out Preferences 🔤 Record Help G Welcome, weblogic Connected to: p	pegjms
View changes and restarts	Home >Summary of Migratable Tarnet <mc-1mc1 (minratable)="" <cummany="" <cummary="" <mc-1mc7="" minratable="" of="" olusters="" tarnet="">Summary of Migratable Targets >MC-1MC7 (minratable) >S</mc-1mc1>	ble
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain. Domain Structure	Create JMS System Module Back Image: This in the image: The following properties will be used to identify your new module.	
B Environment ⊡Deployments G Services Messaging I -JMS Servers JMS Modules JMS Modules	JMS system resources are configured and stored as modules similar to standard JZEE modules. Such resources include queues, topics, connection factories, templates, destination keys, quota, distributed queues, distributed topics, foreign servers, and JMS store-and-forward (SAF) parameters. You can administratively configure and manage JMS system modules as global system resources. * Indicates required fields	,
Path Services Path Services Data Sources Persistent Stores Foreign JNDI Providers	What would you like to name your System Module? * Name: MDB_MODULE	
How do I	What would you like to name the descriptor file name? If you do not provide a name, a default will be assigned. Descriptor File Name:	
Configure JMS system modules Configure JMS servers		
System Status	Where would like to place the descriptor for this System Module, relative to the jms configuration sub-directory of your domain?	
Health of Running Servers		
Failed (0)	Back Next Finish Cancel	



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

	dministration Console 12c		Q
Change Center	🙆 Home Log Out Preferences 🖾 Record Help	Q	Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home splaceholder s Summary of Servers s Summary of Server 1 Modules SMS_MODULE in Summary of 3HS Hodules	emplates >DC_IHS_Template-0 >Summary of Serve	r Templates >DC_3H5_Template=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 Nest Frish Cancel		
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 cluster on which you we	uid like to deploy this JMS system module. You ca	n reconfigure targets later if you wish.
B-Environment Servers B-Ousters	Targets :		
-Server Templates	Servers		
Coherence Ousters Machines Withail Hosts	AdminServer		
	Clusters		
Deployments Services R::Messadion	Cluster-App All servers in the cluster		
How do I	Cluster-JHS		
Configure 3MS system modules Configure 3MS servers	All servers in the cluster		

4) Select CheckBox and Click on **Finish**

	dministration Console 12c	õ				
Change Center	🏦 Home Log Out Preferences 🔤 Record Help	: pegjms				
View changes and restarts	Home >Summary of Servers >MS-JMS2 >Summary of Virtual Hosts >Summary of Servers >Summary of Olusters >Summary of Migratable Targets >Summary of Servers >Summary of Declorments >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 JMS System Fidule Back Next Finish Cancel					
A	Add resources to this JMS system module					
Environment Servers E-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, e	etc.				
Server TemplatesMigratable TargetsCoherence ClustersMachinesWittuit Hosts	Would you like to add resources to this JHS system module?					
Work Managers Startup and Shutdown Classes						

5) MDB_MODULE is created

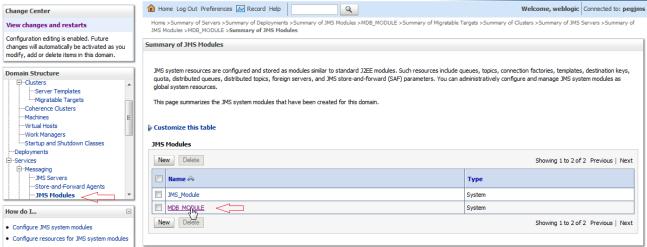
	ministration Console 12c	Q			
Change Center	🏦 Home Log Out Preferences 🔝 Record Help				
View changes and restarts	Home >Summary of Clusters >Summary of Migratable Targets >Summary of Servers >Summary of Deployments >Summary of J Targets >Summary of Clusters >Summary of JMS Servers > Summary of JMS Modules	MS Modules >MDB_MODULE >Summary of Migratable			
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Taiges Journiary of Coules Journiary of JHD Je Ves Journiary of JHD Produces Summary of JMS Modules				
Domain Structure Custers Coherence Clusters Machines Wrtual Hosts Work Managers Startup and Shutdown Classes	JMS system resources are configured and stored as modules similar to standard J2EE modules. Such resources include q quota, distributed queues, distributed topics, foreign servers, and JMS store-and-forward (SAF) parameters. You can a 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			
	🗖 Name 🌣	Туре			
JMS Monules	JMS_Module	System			
How do I		System			
Configure JMS system modules	New Delete	Showing 1 to 2 of 2 Previous Next			
Configure resources for JMS system modules					



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	Iministration Console 12c				ŏ
Change Center	Home Log Out Preferences	Record Help	٩		Welcome, weblogic Connected to: pegjms
View changes and restarts	Home >Summary of Deployments > Modules >MDB_MODULE >Summar			y of Migratable Targets >Summary of Clusters >Sun	nmary of JMS Servers >Summary of JMS
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 Subdeployment	s Targets Secu	rity Notes		
Domain Structure					
Environment	This page displays general inform	ation about a JMS sy	stem module and its resource	s. It also allows you to configure new resources	and access existing resources.
Servers	Name:		MDB_MODULE	The name of this J	MS system module. More Info
Migratable Targets Coherence Clusters	Descriptor File Name:		jms/mdb_module-jms.xml	The name of the J	MS module 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 templates, destination sort keys, destination quota, distributed destinations, foreign servers, and store-and-forward parameters.				
Deployments D-Services	Customize this table				
How do I	Summary of Resources				
No task help found.	New Delete				Showing 0 to 0 of 0 Previous Next
	🔲 Name 🗞	Туре	JNDI Name	Subdeployment	Targets
System Status 🗉			There	e are no items to display	
Health of Running Servers	New Delete				Showing 0 to 0 of 0 Previous Next
Failed (1) Critical (0)					



 \circ

2) Select Foreign Server and Click on Next

ange Center	🚹 Home Log Out Preferences 📐 Record Help	Q Welcome, weblogic Connected to: per
ew changes and restarts	Home >Summary of Deployments >Summary of JMS Modules >MDB_MOD Modules >MDB_MODULE >Summary of JMS Modules >MDB_MODULE	DULE >Summary of Migratable Targets >Summary of Clusters >Summary of JMS Servers >Summary of JMS
onfiguration editing is enabled. Future	Country a New 2005 Country Markels Decourses	
anges will automatically be activated as you odify, add or delete items in this domain.	Create a New JMS System Module Resource	
dury, add or delete items in this domain.	Back Next Finish Cancel	
omain Structure		
	Choose the type of resource you want to create.	
-Environment		
Servers	Use these pages to create resources in a JMS system module, such a	s queues, topics, templates, and connection factories.
⊟-Clusters	Depending on the type of recourse you select, you are premated to	enter basic information for creating the resource. For targetable resources, like stand-alone gueues and topics,
Server Templates Migratable Targets		enter basic information for creating the resource. For targetable resources, like stand-alone queues and topics, and JMS SAF destinations, you can also proceed to targeting pages for selecting appropriate server targets. Yo
Coherence Clusters		is an advanced mechanism for grouping JMS module resources and the members to server resources.
Machines		
Virtual Hosts	Connection Factory	
Work Managers	Connection ractory	create connections for JMS dients. More Info
Startup and Shutdown Classes		
	© Queue	create connections for JMS clients. More Info Defines a point-to-point destination type, which are used for
LStartup and Shutdown Classes -Deployments		Defines a point-to-point destination type, which are used for asynchronous peer communications. A message delivered to a queue
Startup and Shutdown Classes Deployments Services 白-Messaning		create connections for JMS clients. More Info Defines a point-to-point destination type, which are used for
L-Startup and Shutdown Classes Deployments -Services -Fi-Messaninn ww do I	© Queue	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 Defines a publish/subscribe destination type, which are used for
LStartup and Shutdown Classes Deployments Services (1) Messanin w do I Configure quotas for destinations	© Queue	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 Defines a publish/subscribe destination type, which are used for asynchronous peer communications. A message delivered to a topic is
L-Startup and Shutdown Classes Deployments Services Ch-Messaninn w do I Configure quotas for destinations Configure JMS templates	© Queue	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 Defines a publish/subscribe destination type, which are used for
Startup and Shutdown Classes -Deployments -Services Messaninn w do L Configure quotas for destinations Configure JMS templates Configure destination keys	© Queue	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 Defines a publish/subscribe destination type, which are used for asynchronous peer communications. A message delivered to a topic is
Startup and Shutdown Classes -Deployments	© Queue	create connections for JMS clents. 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 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 clents. More
L-Startup and Shutdown Classes Deployments Services Chi-Meesaninn w do I Configure quotas for destinations Configure quotas for destinations Configure quotas for destinations Configure destination keys Configure topics Configure quotes	© Queue	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 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,
L-Startup and Shutdown Classes Deployments Services (<u>H-Messaninn</u>) Configure quotas for destinations Configure 2MS templates Configure destination keys Configure topics Configure useus Configure connection factories	Queue Topic Distributed Queue	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 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
LStartup and Shutdown Classes Deployments Services Services (-1Messanin w do I Configure quotas for destinations Configure JMS templates Configure destination keys Configure dueues Configure queues Configure queues Configure uniform distributed topics	© Queue	create connections for JMS clents. 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 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 clents. More Info Defines a set of topics that are distributed on multiple JMS servers,
L-Startup and Shutdown Classes Deployments Services Services Configure quotas for destinations Configure JMS templates Configure destination keys Configure topics Configure topics Configure queues Configure connection factories Configure uniform distributed topics Configure uniform distributed topics Configure uniform distributed queues	Queue Topic Distributed Queue	create connections for JMS clents. 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 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 clents. More Info Defines a set of topics that are distributed on multiple JMS servers,
Startup and Shutdown Classes Deployments Services 白-Messaning	Queue Topic Distributed Queue	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 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 topic to JMS clients. More Info

3) Enter name and Click on Next

	Iministration Console 12c	õ			
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 of Clusters > Summary of JMS Servers > Summary of JMS Modules > MDB MODULE > SUMMARY ON PAUNA				
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				
A	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 Next				
-Services					



4) Click on Advanced Targeting

	dministration 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 >MDB_MODULE >Summary of JMS Modules >MDB_MODULE >Summary of Servers >Summary of JMS Modules >JMS_MODULE >Summary of JMS Modules >MDB_MODULE >Summary of JMS Modules >MDB_MODULE >Summary of Servers >Summary of JMS Modules >MDB_MODULE >Summary of JMS Modules >JMS Modules >JMS Modules >JMS Modules >MDB_MO
No pending changes exist. Click the Release Configuration button to allow others to edit the	Create a New JMS System Module Resource
domain.	Back Net Finish Advanced Targeting Cancel The following properties will be used to target your new JMS system module resource
Release Configuration	The following properties will be used to target your new Jris 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 Clusters 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
Startup and Shutdown ClassesDeploymentsServicesMessaninn	Isser-App Isservers in the cluster
How do I 😑	Back Net Fnish 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 >Summary o Modules >MDB_MODULE >Summary of JMS Modules >MDB_MODULE	f 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 by to duster, or SAF agent. If necessary, you can create a new subdeployment by dicking the Create a New Subdeploy later by using the parent module's subdeployment management page.	
Coherence Clusters Machines	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 I	Help	Welcome, weblogic Connected to: pegjms
View changes and restarts	Home >Summary of Deployments >Summary of Modules >MDB_MODULE >Summary of JMS Mod		Targets >Summary of Clusters >Summary of JMS Servers >Summary of JMS
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain. Domain Structure	Create a New Subdeployment OK Cancel Subdeployment Properties		
-Environment	The following properties will be used to identif	fy your new subdeployment.	
Servers E Clusters E Server Templates	Subdeployment Name:	MDB_SUB	
Migratable TargetsCoherence ClustersMachinesVirtual HostsWork ManagersStartup and Shutdown Classes	OK Cancel		Ç,



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

	dministration Console 12c	
Change Center	B Home Log Out Preferences 🗟 Record Help Connected to: FCUBSDoma Welcome, weblogic Connected to: FCUBSDoma	in
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_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	Ш
Undo All Changes	The following properties will be used to target your new JMS system module resource	Ш
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, duster, or	
Environment	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	Ш
Virtual Hosts Work Managers	What targets do you want to assign to this subdeployment?	Ш
Startup and Shutdown Classes Deployments	Targets :	Ш
-Messaninn T	former .	
How do I	Servers	
Configure quotas for destinations	AdminServer	Ш
Configure JMS templates Configure destination keys	Clusters	Ш
Configure topics	✓ Cluster-App	ш
Configure queues Configure connection factories	All servers in the cluster	Ш
Configure uniform distributed topics	JMS Servers	ш
Configure uniform distributed queues	J15 361V615	ш
Configure foreign servers	JMSServer-1	
Configure JMS SAF		
System Status	Back Next Finish Cancel	

8) Foreign Server is created

	ministration Console 12c				Õ
Change Center	🚹 Home Log Out Preferences 🔤 Record	d Help		Welcome, w	eblogic Connected to: pegjm
View changes and restarts	Home >Summary of Deployments >Summary of Modules >MDB_MODULE >Summary of JMS M		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 All changes have been activated. No res The foreign server was created success	starts are necessary.			
Domain Structure					
Environment Servers Clusters	Settings for MDB_MODULE Configuration Subdeployments Targ	ets Security Notes			
Server Templates Migratable Targets Coherence Clusters	This page displays general information abo	ut a JMS system module and its res	ources. It also allows you to conf	igure new resources and access existing reso	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.>	ml	The name of the JMS module descriptor file.	More Info
How do I	This page summarizes the JMS resources the sources the sort keys, destination quota, distributed de			and topic destinations, connection factories, J	MS templates, destination
No task help found.	Customize this table				
System Status	Summary of Resources				
Health of Running Servers	New Delete			Showing	g 1 to 1 of 1 Previous Next
Failed (1)	🔲 Name 🐟	Туре	JNDI Name	Subdeployment	Targets
Critical (0)	ForeignServer-1	Foreign Server	N/A	MDB_SUB	Cluster-App
Overloaded (0) Warning (0) OK (3)	New Delete	1	1	Showing	g 1 to 1 of 1 Previous Next



6.3 Foreign Server Configuration

1) Click on ForeignServer-1

ORACLE WebLogic Server Ad	ministration Console 12	c				õ
Change Center	Home Log Out Pre	ferences 🔤 Record He	lp Q		Welcome, w	eblogic Connected to: pegjm
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 modify, add or delete items in this domain.	Messages All changes have be	een activated. No restarts	s are necessary.			
Domain Structure	The foreign server	was created successfully.				
	Settings for MDB_MO	DULE				
Environment Servers	Configuration Sub	deployments Targets	Security Notes			
-Custers -Server Templates -Migratable Targets -Coherence Clusters -Machines -Virtual Hosts -Virtual Hosts	This page displays ger	neral information about a .	JMS system module and its reso	urces. It also allows you to confi	gure new resources and access existing r	
Work Managers Startup and Shutdown Classes Deployments	Descriptor File Name	e:	jms/mdb_module-jms.x	ni	The name of the JMS module descriptor file.	More Info
How do I			ave been created for this JMS ations, foreign servers, and sto		and topic destinations, connection factories, J	MS templates, destination
No task help found.	Customize this tab	le				
	Summary of Resou	rces				
System Status Health of Running Servers	New Delete				Showing	1 to 1 of 1 Previous Next
Failed (1)	🔲 Name 🗠 🞵	Ту	pe	JNDI Name	Subdeployment	Targets
Critical (0)	Eoreignfierver-1	For	eign Server	N/A	MDB_SUB	Cluster-App
Overloaded (0) Warning (0)	New Delete				Showing	1 to 1 of 1 Previous Next

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

DIRACLE WebLogic Server	Administration Console rac		
hange Center	A Home Log Out Preferences 🐼 F	lecord Help	Welcome, weblogic Connected to: FCUBSDoma
iew changes and restarts	Home >Summary of Custers >Summary Modules >MDE_MODULE >ForeignServ		ND8_MODULE >ForeignServer-1 >Summary of Servers >Summary of 3HS
ck the Lock & Edit button to modify, add or lete items in this domain.	Messages All changes have been activated. 1	No restarts are necessary.	
Release Configuration	Settings for ForeignServer-1		
revease consguration	Configuration Subdeployment	Notes	
main Structure	General Destructions Connector	on Factories	
Orthingtonent Servers Outers Mayatable Targets Coherence Ousters Machines What Notes	A foreign server represents a 3/DL p	hange Center to modify the settings on this page. rovider that resides outside a WebLogic Server. It contains informats ignets (queues or topics) can be defined on one JADI directory. Use I	on that allows WebLogic Server to reach the remote 3NDI provider. This way, a number of this page to configure a foreign server.
Work Managers Startup and Shutdown Classes Deployments	den Name:	ForeignServer-1	The name of this foreign server. More Info
Services	. JNDI Initial Context Factory:	weblogic indi WLInitiaK	The name of the class that must be instantiated to access the JRDI provider. This class name dispends on the JRDI provider and the vendor that are being used. More Info
Create foreign connection factories	🛃 JNDI Connection URL:	13://10.184.148.185:7106.10.184.148.189:7107	The LRL that WebLogic Server will use to contact the JHCI provider. The syntax of this LRL depends on which JHCI provider is being used. For WebLogic JMS, leave this field blank if you are referencing WebLogic JMS
Create foreign destinations			objects within the same cluster. More Info



3) Click on Connection Factories

	Iministration Cons	ole 12c						õ
Change Center	Home Log O	ut Preferences 🔼	Record Help	Q			Welcome, weblogic	Connected to: pegjm
View changes and restarts		ome >MDB_MODULE >Summary of Migratable Targets >Summary of Clusters >Summary of JMS Servers >Summary of JMS Modules >MDB_MODULE >Summary of JMS odules >MDB_MODULE >ForeionServer1 • Configuration						
Configuration editing is enabled. Future changes will automatically be activated as you	Settings for For	eignServer-1	-					
modify, add or delete items in this domain.	Configuration	Subdeployment	Notes					
Domain Structure	General Dest	tinations Conne	tion Factories					
Henvironment Servers Clusters Henvironment Server Templates Henvironment Hordeneous Hordeneou	another instand This page sumn Customize th	ce of WebLogic Ser narizes the foreign nis table	er running in a di		r a foreign provider, as long a	ccessible via JNDI. A remote conn s that provider supports JNDI.	ection factory can be u	sed to refer to
Deployments	New Dele	ete					Showing 0 to 0 o	of 0 Previous Next
-Messanino	Name 🔗	\$	Local JN	NDI Name		Remote JNDI Name		
How do I					There are no items to display			
Configure foreign servers Create foreign destinations	New Dele	ete					Showing 0 to 0 o	of 0 Previous Next
System Status								

4) Create MDBQCF Connection Factory

ORACLE WebLogic Server	dministration Console 12c			0
Change Center	A Home Log Out Preferences	Record Help	9	Welcome, weblogic Connected to: pegjms
View changes and restarts	Home >HDB_HODULE > Summary Modules >HDB_HODULE > Poreign		ry of Ousters >Summary of 3HS Servers >S	immary of 3HS Modules > HDB_MODULE > Summary of 3HS
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create a New Foreign 3HS Cor			
Domain Structure	Foreign Connection Factory	Panonation		
8-Environment Servers B-Ousters - Migratable Tangets - Coherens Clusters	The following properties will be a "Indicates required fields		eign connection factory.	
- Machines Virtual Hosts	* Name:	MDBQCF		
Work Managers Startup and Shutdown Classes	Local JNDI Name:	MDBQCF		
B-Services	Remote 3NDI Name:	MDBQCF[
How do L.	OK Cancel			

5) Click on Destination

ORACLE WebLogic Server	dministration Console 12c			Q
Change Center	A Home Log Out Preferences	Record Help	Wekome, weblogic	Connected for pegijms
View changes and restarts Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Holdes HOE,HOOULE -Fore Hessages		y of 2HS Servers >Summary of 2HS Modules >HDB_MODULE >Summary of 2HS anges to take effect.	
Domain Structure	Settings for ForeignServer-1			
Orieronant -Servers Outers Outers	Configuration A foreign connection factory in another instance of WebLoge This page summarizes the fore & Customize this table Foreign Connection Factor	enection Factories	er server, and which is accessible via 3KDL. A remote connection factory can be us pregn provider, as long as that provider supports 3KCL. this domain.	id to refer to
How do I	New Delate		Showing 1 to 1 of	1 Previous Next
Configure foreign servers Create foreign destinations	Mane A	Local 30DI Name	Remote JNDI Name	
System Status 🛛		Level 1.		1 Previous Next



6) Create MDB_QUEUE

View changes and restarts	Home >JMS Modules >MDB_MODUL	E >ForeignServer-1 >MDB_MODULE >ForeignServer-1 >Su	ummary of Servers >JMS Modules >MDB_MODULE >ForeignServer-1 >Configuration
Configuration editing is enabled. Future	Settings for ForeignServer-1		
changes will automatically be activated as you modify, add or delete items in this domain.	Configuration Subdeployment	t Notes	
Domain Structure	General Destinations Con	nection Factories	
Environment Servers Cutsers Cutsers Cutsers Coherence Survers Coherence Survers Work Managers Startup and Shutdown Classes Services Deployments Devences Deflowments Deflowments	directory, and the object will be		stination is looked up on the local server, a look-up will be performed automatically on the remote JNDI to Showing 0 to 0 of 0 Previous Next Remote JNDI Name
How do I		Th	here are no items to display
Configure foreign servers Create foreign connection factories	New Delete		Showing 0 to 0 of 0 Previous Next
System Status	Ì		
Health of Running Servers			

	Administration Console 12c				Q
Change Center	Home Log Out Preferences	Record Help		Welcome, weblogic	Connected to: pegjm
View changes and restarts	Home >MDB_MODULE >Summary Modules >MDB_MODULE >Foreign		imary of JMS Servers >Summar	y of JMS Modules >MDB_MODULE >Summary of JMS	
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create a New Foreign JMS Des	tination			
Domain Structure	Foreign Destination Proper	ties			
Environment Servers Clusters Migratable Targets Concerne Clusters	The following properties will be a * Indicates required fields	used to identify your new foreign destination.			
Machines	* Name:	MDB_QUEUE			
Virtual Hosts Work Managers Startup and Shutdown Classes Deployments	Local JNDI Name:	MDB_QUEUE			
-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				Q
Change Center	Home Log Out Preferences	Record Help	Q		Welcome, weblogic Connected to: pegjms
View changes and restarts	Home >MDB_MODULE >Summary Modules >MDB_MODULE >Foreig			ervers >Summary o	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	ties			
D-Environment Servers D-Custers Migratable Targets Conterne Clusters	The following properties will be * Indicates required fields	used to identify your nev	w foreign destination.		
Machines Virtual Hosts	* Name:	MDB_QUEU	E_RESPC		
	Local JNDI Name:	MDB_QUEU	E_RESPONSE		
-Services	Remote JNDI Name:	MDB_QUEU	E_RESPONSE		
How do I	OK Cancel				
Configure foreign servers					
Create foreign connection factories					
Contras Status					



Change Center	😭 Home Log Out Preferences 🔛 Record Help	Q	Welcome, weblogic Connected to: pegin
View changes and restarts	Home >MDB_MODULE >Summary of Migratable Targets >Sum Modules >MDB_MODULE >ForeignServer-1 > Coefiguration	nary of Clusters >Summary of IMS Servers >Summ	ary of INS Modules >MDB_MODULE >Summary of IMS
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	Settings for ForeignServer-1		
Environment	Configuration Subdeployment Notes		
-Servers E	General Destinations Connection Factories		
-Coherence Ousters	JNDI directory, and the object will be returned from that d	rectory.	
-Machines -Wexal Hosts -Wexal Managers -Startup and Shutdown Classes -Deployments -Services -R:Messadon -	This page summarizes the foreign destinations that have b Customize this table Foreign Destinations		
- Machines - Virtual Hosts - Work Managers - Startup and Shutdown Classes - Deployments - Services	This page summarizes the foreign destinations that have b © Customize this table		Showing 1 to 2 of 2 Previous Next
-Machines -Vick Managers -Startup and Shutdown Classes -Deployments -Services -Messanion	This page summarizes the foreign destinations that have b © Customize this table Foreign Destinations		Showing 1 to 2 of 2 Previous Next Remote JHDI Name
Machines Hirbus Hosts Work Managers Startup and Shutdown Classes Deployments Services Antwesseries tow do L.	This page summarizes the foreign destinations that have b Customize this table Foreign Destinations New Delete	een created for this domain.	
-Machines -Michael Hosts -Work Managers -Startup and Shutdown Classes -Deployments -Services -Messacion tow do L. Configure foreign servers Create foreign connection factories	This page summarizes the foreign destinations that have be Customize this table Foreign Destinations New Delete Hame &	een created for this domain.	Remote JHDI Name

Change Center & Welcome, weblogic Connected to: pegims

Change Center			
View changes and restarts	Home >MD8_MODULE >Summa Modules >MD8_MODULE >Fore	ry of Migratable Targets >Summary of Clusters >Summary of JMS Servers >Sum orServer-1 >Coefiguration	mary of INS Modules > MD8_MODULE > Summary of IMS
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create a New Foreign JHS D		
Domain Structure	OK Cancel	rties	
Environment -Servers Ousters Server Templates Moratable Targets	The following properties will be * Indicates required fields	used to identify your new foreign destination.	
Coherence Clusters Machines Wrtual Hosts Work Managers	* Name:	MDB_QUEUE_DLQ	
Startup and Shutdown Classes	Local JNDI Name:	MDB_QUEUE_DLQ	
B-Services	, Remote JNDI Name:	MDB_QUEUE_DLQ	
How do I	OK Cancel		
Configure foreign servers	4		

	Administration Console 12c		ç
Change Center	A Home Log Out Preferences 🖂 Record	Help	Welcome, weblogic Connected to: peg
New changes and restarts	Home > MDB_MODULE > Summary of Migratable Modules > MDB_MODULE > ForeignServer-1 > Co	 Targets >Summary of Clusters >Summary of 2MS Servers >Sum onliguration 	mary of JHS Modules >MD8_MODULE >Summary of JHS
Configuration editing is enabled. Future hanges will automatically be activated as you rodify, add or delete items in this domain.	Messages	er 1 items must be restarted for the changes to take effect.	
omain Structure	Settings for ForeignServer-1		
	Configuration Subdeployment Notes		
-Servers Servers Ousters	General Destinations Connection Pact	tories	
Coherence Clusters Machines Virtual Hosts	3401 directory, and the object will be returne This page summarizes the foreign destination		
- Machines - Virbual Hosts - Work Managers - Startup and Shutdown Classes - Deployments			
Machines Machines Wark Managers 	This page summarizes the foreign destination		Showing 1 to 3 of 3 Previous Next
Machines Wathal Hosts Work Maragers Work Maragers 	This page summarizes the foreign destination Customize this table Foreign Destinations		Showing 1 to 3 of 3 Previous Next Remote JHDI Name
Machines Wathal Hosts Work Maragers Work Maragers 	This page summarizes the foreign destination Customize this table Foreign Destinations Foreign Destinations	ns that have been created for this domain.	
Machines	This page summarizes the foreign destination Customize this table Foreign Destinations Foreign Destinations Rame A	ns that have been created for this domain.	Remote JHDI Name
-Machines -Minthal Hosts -Work Managers -Startup and Shutdown Classes -Deployments -Services -Demloses -Demloses -Demlogrametry -Services -Configure foreign servers -Configure foreign servers -Context foreign connection factories	This page summarizes the foreign destination Customize this table Foreign Destinations Foreign Destinations New Delete Name & New Delet	Ins that have been created for this domain.	MDB_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	A Home Log Out Preferences	Record Help	Q		Welcome, weblogic Connected	to: base_domain
View changes and restarts	Home >JMS Modules >MDB_MODUL	LE >ForeignServer-1 >JMS Module	s >Summary of Deployments >	Summary of Servers >Summary of	Deployments >Summary of Servers >Summary of Deployments >	GWMDB
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Settings for GWMDB Overview Deployment Plan	Configuration Security Ta	rgets Control Testing	Monitoring Notes		
Domain Structure	Use this page to specify the Wel startup time. Target Assignments	bLogic Server instances and clu	sters to which you want to c	leploy this Enterprise application.	These settings determine where the application is deployed	1 at server
Virtual Hosts Migratable Targets	Change Targets				Showing 1 to 1 of 1 P	revious Next
Coherence Servers	🔲 Component 🗞		Туре		Current Targets	
Machines Work Managers			Enterprise Applica	ation	Cluster-App	
Startup and Shutdown Classes	GW_MDB_Bean.jar		EJB		(None specified)	
Deployments EServices	Change Targets				Showing 1 to 1 of 1 P	revious 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 '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
		Instal Update Delete Start Stop Showing 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 Start v Stop v				Sho	wing 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

View changes and restarts	Home >ForeignServer-	Home >ForeignServer-1 >Configuration >MDBQCF >JMS Modules >JMS_MODULE >MDB_QUEUE >Summary of JMS Messages >JMS Modules >JMS_MODULE >MDB_QUEUE					
Configuration editing is enabled. Future	Settings for MDB_Q	UEUE					
changes will automatically be activated as you modify, add or delete items in this domain.	Configuration Sect	urity Monitoring	Subdeployment	Notes			
Domain Structure	destination. To access the unifor Customize this ta Destinations (Filte	orm distributed queue's	: message manager		d queue. Click on the individual member de		
Work Managers Startup and Shutdown Classes	Show Messages						Showing 1 to 2 of 2 Previous Next
Deployments	🔲 Name 🐟				Consumers Current	Consumers High	Consumers Total
-Services	JMS_MODULE	IJMSServer-1@MDB_Q	UEUE		64	64	64
	JMS_MODULE	IJMSServer-2@MDB_Q	UEUE		64	64	64
How do I 😑	Show Messages						Showing 1 to 2 of 2 Previous Next
 Manage distributed queue messages 							
Configure uniform distributed queues							
	1						

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.					
Domain Structure	This page summarizes the available m selected messages, move messages to messages from a destination.	essages for a stand-alone que another destination, export r	ue, a distributed queue, or a topic o nessage contents in XML format to a	durable subscriber. Use this page to view mess another file, import XML formatted message co	age details, create new messages, delete ontents from another file, or drain all the
₽-Environment	Click on a message to view its content	i.			
ServersVirtual HostsVirtual HostsV	Message Selector:	imns Exist)		Apply	
Green Services Green Services Green Services The Service Ser	New Delete v Move v Imp	Export ~			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 display	
Manage distributed queue messages Manage topic durable subscribers	New Delete V Move V Imp	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	a nome bog out mercinees - record hep	<u> </u>	recome, reploge connected to: base_domain				
View changes and restarts	Home >Configuration >MDBQCF >JMS Modules >JMS_MOD	OULE >MDB_QUEUE >Summary of JMS Mes	sages >JMS Modules >JMS_MODULE >MDB_QUEUE >Summary of JMS Messages				
Configuration editing is enabled. Future changes will automatically be activated as you	Produce JMS Message						
modify, add or delete items in this domain.	OK Cancel						
Domain Structure	JMS Message						
È-Environment	The following properties will be used to produce a JM	5 message.					
Servers Clusters Virtual Hosts	Туре:						
Migratable Targets Coherence Servers	Correlation ID:						
Coherence Clusters Machines Work Managers	Expiration:						
Startup and Shutdown Classes	Priority:	4 🔻					
⊡-Services ⊡⊡-Messaning ▼	Delivery Mode:	Persistent •					
How do I	Delivery Time:	-1					
Manage queue messages							
Manage distributed queue messages	Redelivery Limit:	-1					
Manage topic durable subscribers	Body:						
System Status							
Health of Running Servers							
Failed (0)							
Critical (0) Overloaded (0)		1					
Overloaded (0)	1						

4) Message is Sent

change center					1	
View changes and restarts	Home >Configuration >MDBQCF >JMS Modules >JMS_M	ODULE >MDB_O	QUEUE >Summary of JMS Messages >JMS Module	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						
Orbitation Clusters Observers Outsters O	This page summarizes the available messages for a selected messages, move messages to another desi messages from a destination. Click on a message to view its contents. Message Selector: Customize this table JMS Messages (Filtered - More Columns Exist)	tination, expor	ueue, a distributed queue, or a topic durable t message contents in XML format to anothe	subscriber. Use this page to r file, import XML formatted Apply	view message details, create new message contents from another fil	messages, delete e, or drain all the
How do I						
	New Delete V Move V Import Export	×			Showing 1 t	to 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	×		,	Showing 1 t	to 1 of 1 Previous Next
Health of Running Servers						
Failed (0) Critical (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> threads

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.

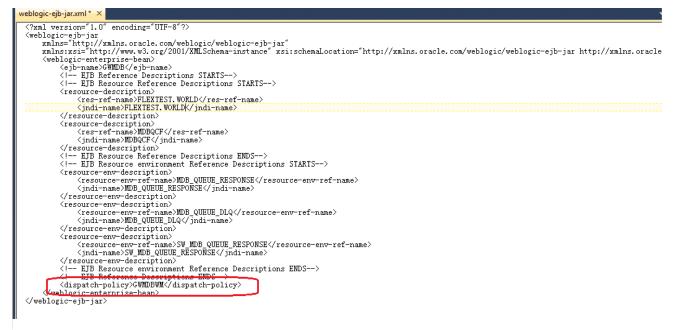
The solution is to create a work manager with a max threads constraint and assign the proxy services dispatch policy to this work manager.

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 </br/>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

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Virtual Hosts Work Managers	Context Request Class			
Startup and Shutdown Classes	Maximum Threads Constraint			
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How do I	An servers in the cluster			
Create application-scoped constraints	Back Next Finish Cancel			
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Create application-scoped constraints			

2) Create new Max Thread Constraint and in the Count field give the desired thread count

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→ Deployments ⊕ -Services → Security Realms → Composition → Co	Targets
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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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Settings for GWHDBWH					
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👩 Haximum Threads Constraint:	(None configured)	The maximum number of concurrent threads that can be allocated to execute requests. More Drfo			
Capacity Constraint:	(None configured)	The total number of requests that can be queued or executing before WebLogic Server begins rejecting requests. Hore Info			
😸 Stuck Thread Action:	Use server default behavior	Specify how stuck threads should be detected, and what action to take should they occur. Here Info			
Max Stuck Thread Time:	0	True after which a executing thread is declared as stack. Here $Defo_{exe}$			
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System Status 🛛	🗹 Resume When Unstuck			Whether to resume work manager once the stack threads were cleared. Here $3\pi f_{0\to i}$			
Health of Running Servers	Save						
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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.

- JMS Provider: JMS is deployed on 2 managed servers, JMSServer1 and JMSServer2, if any one goes down other will handle the messages.
- FileStore: File store is a cluster file system or database where if one node goes down then other will handle the requests.
- 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) FCUBS_12.1_Weblogic12c_Middleware_Practices.doc
- 2) GATEWAY_Applications_WL.doc
- 3) Resource_Creation_WL.doc





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