Configuring JMS on Weblogic Server 12c Oracle Banking Corporate Lending Release 14.7.4.0.0 Part No. F98076-01 [May] [2024]

FINANCIAL SERVICES

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1. Introduction

1.1 Introduction

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

1.2 Purpose

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

- 1) FCUBS 12.1
- 2) WebLogic Server 12.1.3.0.0

JMS Server

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

JMS Module

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

Subdeployment

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

JMS Resources

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



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

Persistence store

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

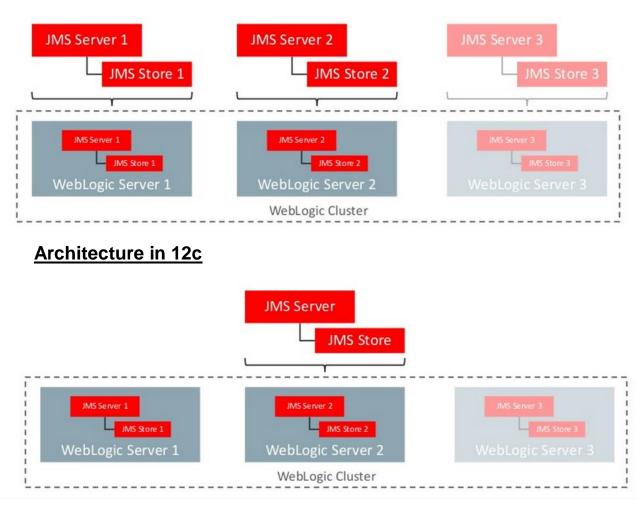
- 1) File based persistence store -> Message is stored in a file
- 2) DB based persistence store -> Message is stored in Database.

1.3 Weblogic 12c New Features

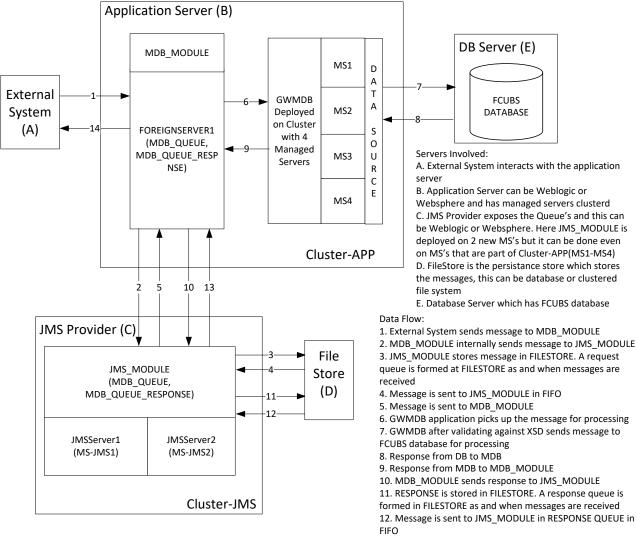
Before weblogic 12c JMS Servers and stores are targeted to individual WLS Servers. Scaling up requires configure the JMS server, the store and target it to new WLS Server

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

Architecture previous to 12c







1.4 Components Diagram & Data Flow

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

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



2. Pre-Requisites

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

2.1 <u>Machines</u>

MAC-1 & MAC-2

ORACLE WebLogic Server Ac	ministration 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.	
E-Environment	This page displays key information about each machine that has been configured in the current WebLog	jic Server domain.
Servers		
Clusters		
Coherence Clusters	Customize this table	
Machines		
Virtual Hosts 🗉	Machines	
Work Managers	New Clone Delete	Showing 1 to 2 of 2 Previous Next
Startup and Shutdown Classes	New Clone Delete	Showing I to 2 of 2 Previous Next
Deployments Deployments	Name 🚸	Туре
Security Realms		
Interoperability	MAC-1	Machine
+-Diagnostics	MAC-2	Machine
How do I • Create and configure machines	New Cone 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)

ORACLE WebLogic Server A	dministration Console 12c						ç
Change Center	Home Log Out Preferences	Record Help	Q			Welcome, weblogic Co	nnected to: FCUBSDoma
View changes and restarts	Home >Summary of Servers >Summ Clusters >Summary of Servers >Sum	ary of Clusters >Summary of Server Te	mplates >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.	n to modify, add or n.						
Release Configuration	Summary of Clusters						
Domain Structure	This page summarizes the dusters	s that have been configured in the cu	rrent WebLogic Serv	er domain.			
Environment Servers Clusters Server Templates Migratable Targets Coherence Clusters	Customize this table	ogic Server servers that work togeth mns Exist) e Change Center to activate all the b				Showing 1 to	2 of 2 Previous Next
Startup and Shutdown ClassesDeployments Services	🔲 Name 🐟 🛛 Cluster Add	ress Cluster Messaging Mode	Migration Basis	Default Load Algorithm	Replication Type	Cluster Broadcast Channel	Servers
How do I	Cluster-App	Unicast	Database	Round Robin	(None)		DC_FCUBS_1, DC_FCUBS_2, DC_FCUBS_3, DC_FCUBS_4
Assign server instances to dusters	Cluster-JMS	Unicast	Database	Round Robin	(None)		DC_JMS_1, DC_JMS_2
Configure server migration in a duster Configure cross-duster replication Oreate dynamic dusters						Showing 1 to	2 of 2 Previous Next



	Administration Console 12c						ç
Change Center	Home Log Out Preferences	Record Help	Q			Welcome, we	blogic Connected to: FCUBSDom
View changes and restarts	Home >Summary of Server Template Clusters >Summary of Servers	s >Summary of Clusters >Sumn	ary 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	A server is an instance of WebLog	ic Server that runs in its own	Java Virtual Machine (JVN	1) and has its own conf	iguration.		
omain Structure	This page summarizes each server	that has been configured in t	he current WebLogic Ser	ver domain.			
-Environment -Servers -Clusters -Server Templates	₹2						
LMigratable Targets E Coherence Clusters	Servers (Filtered - More Colu Click the Lock & Editbutton in the		all the buttons on this pa	ae.			
Virtual Hosts Work Managers Startup and Shutdown Classes	New Clone Delete					Sh	owing 1 to 7 of 7 Previous Next
Deployments B-Services	🔲 Name 🗞	Туре	Cluster	Machine	State	Health	Listen Port
Security Realms	AdminServer(admin)	Configured			RUNNING	🖋 ок	7001
ow 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
ystem Status 🖂	New Clone Delete					Sh	owing 1 to 7 of 7 Previous Next
lealth of Running Servers							
Failed (0)							

2.3 DataSource

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

ORACLE WebLogic Server®	Administration Console	9
Change Center	🕜 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: base_doma
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 → Serves → Messaging → Store-and-Forward Agents → Path Services → Path Ser	A JDBC data source is an object bound to the JNDI tree that provides database connectivity through a pool of JDBC co 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)	onnections. Applications can look up a data source on the JNDI tree and then
Foreign JNDI Providers Work Contexts	New v 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
	Course shulledung	A desire frames

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	٩	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 ter-custers	Home >Summary of Servers >Summary of Persistent : Messages Create operation cancelled - no file store created Summary of Persistent Stores A persistent store is a physical repository for storing	L	messages. It can be a JDBC-accessible database, disk-based			
MachinesVirtual HostsVirtual Hosts	file, or replicated memory storage. This page summarizes the persistent stores that have been created for this domain. E Customize this table Persistent Stores					
-Messaging Data Sources	New ~ Delete		Showing 0 to 0 of 0 Previous Next			
<u>Persistent Stores</u> Foreign JN. <u>Providers</u> Work Contexts	🔲 Name 🏟	Туре	Target			
Work Contexts	There are no items to display					
How do I	New v 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 Connect	ed to: pegjms			
View changes and restarts	Home >Summary of Servers >Summary	of Persistent Stores					
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Messages Create operation cancelled - no file store created.						
	Summary of Persistent Stores						
Domain Structure er-ousters →Coherence Clusters →Machines →Work Managers →Startup and Shutdown Classes →Deployments ⊖Services		ory for storing subsystem data, such as persist is page summarizes the persistent stores that h	ent JMS messages. It can be a JDBC-accessible database, disk ave been created for this domain.	-based			
Messaging Data Sources	New - Delete		Showing 0 to 0 of 0 Previ	ious Next			
Persistent Stores Foreign JNDI Providers Work Contexts	Create FileStore	Туре	Target				
XML Registries	Create ReplicatedStore (Exalogic)	There are no items to	display				
How do I	New V Delete		Showing 0 to 0 of 0 Previ	ious Next			
Create File Stores							



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

	Iministration Console 12	c		Q
Change Center	Home Log Out Pre	ferences 📐 Record Help	٩	Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home >Summary of Clu of Persistent Stores	sters >Summary of Servers >Su	ummary of Clusters >Summary of Server	rs >Summary of Clusters >Cluster-JMS >Summary of Servers >Summary of Clusters >Summary of Servers > Summary
No pending changes exist. Click the Release Configuration button to allow others to edit the	Create a New File Stor	re		
domain. Lock & Edit Release Configuration	OK Cancel File Store Propertie The following propertie	≥s s will be used to identify your	r new file store.	
Domain Structure	* Indicates required field			
Environment Servers Clusters Server Templates Unioratable Targets	What would you like to * Name:	name your new file store? FileStore-1		
Coherence Clusters Machines	Select a server instance	e for this file store.		
	Target:	Cluster-JMS 💌		
Deployments	The pathname to the di	rectory on the file system whe	ere the file store is kept. This directory	ry must exist on your system, so be sure to create it before completing this tab.
-Services	Directory:	/scratch/work_area/	JMS_FILESTORE	
How do I 🖂				
Create File Stores Monitor persistent stores	OK Cancel			

3) FileStore-1 is created

	dministration Console 12c			õ	
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogi	c Connected to: FCUBSDomain	
View changes and restarts	Home >Summary of Clusters >Summary of Servers > of Persistent Stores	Summary of Clusters >Summary of Servers >Summary	of Clusters >Cluster~JMS >Summary of Servers >Summary of Clusters >Su	ummary of Servers > Summary	
Click the Lock & Edit button to modify, add or delete items in this domain.	Messages All changes have been activated. No restarts a	are necessary.			
Lock & Edit Release Configuration	Summary of Persistent Stores				
Domain Structure	A persistent store is a physical repository for stor summarizes the persistent stores that have been Customize this table		es. It can be a JDBC-accessible database, disk-based file, or replicated	d memory storage. This page	
Migratable TargetsCoherence ClustersMachinesMachines	Persistent Stores				
Virtual Hosts Work Managers	Click the Lock & Editbutton in the Change Center to activate all the buttons on this page.				
Startup and Shutdown Classes	New ~ Delete		Showing	g 1 to 1 of 1 Previous Next	
⊖-Services ⊕-Messaging	🔲 Name 🗞	Туре	Target		
Data Sources	FileStore-1	FileStore	Cluster-JMS		
How do I	New v Delete		Showing	g 1 to 1 of 1 Previous Next	
Create File Stores					



3.2 JMS Server Creation

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

ORACLE WebLogic Server Administration Console 12c							
Change Center	🚹 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblo	gic Connected to: pegjms			
View changes and restarts	Home >Summary of Servers >Summary of Persistent Stores >Sur	mary of JMS Servers					
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Messages Create operation cancelled - no JMS Servers created.						
Domain Structure	Summary of JMS Servers						
Environment Servers D-Clusters Coherence Clusters Virtual Hosts Virtual Hosts Virtual Hosts Startup and Shutdown Classes Deployments D-Services	JMS servers act as management containers for the queues a This page summarizes the JMS servers that have been creat Customize this table JMS Servers (Filtered - More Columns Exist)		domain.	0 of 0 Previous Next			
E-Messaging	📄 Name 🗞 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						
Configure JMS servers							
Configure JMS system modules							

2) .Select FileStore-1 , Click Next

	dministration Console 12c		Q
Change Center	🏠 Home Log Out Preferences 🔤 Record H	Help	Welcome, weblogic Connected to: FCUBSDoma
View changes and restarts	Home >Summary of Servers >Summary of Cluste Stores >Summary of JMS Servers	ers >Summary of Servers >Summary of Clusters >Cluster-J	MS >Summary of Servers >Summary of Clusters >Summary of Servers >Summary of Persistent
No pending changes exist. Click the Release Configuration button to allow others to edit the	Create a New JMS Server		
domain.	Back Next Finish Cancel		
Release Configuration	JMS Server Properties		
Domain Structure	The following properties will be used to identif * Indicates required fields	y your new JMS Server.	
E-Environment	What would you like to name your new JMS Ser	rver?	
	🏀 * Name:	JMSServer-1	
Coherence Clusters Machines	Specify persistent store for the new JMS Serve	۲.	
Virtual Hosts Work Managers	Persistent Store:	FileStore-1 Create a New Store	
Startup and Shutdown ClassesDeploymentsServices	Back Next Finish Cancel	(none) FileStore-1	
E-Messaninn			

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

	fministration Console 12c			õ
Change Center	🔒 Home Log Out Preferences 🔤 Record Help		Welcome, weblogic	Connected to: FCUBSDomain
View changes and restarts	Home >Summary of Servers >Summary of Clusters >S Stores >Summary of JMS Servers	ummary of Servers >Summary of Clusters >Cluster-JMS >Summary of Servers	>Summary of Clusters >Summary of Servers >Sun	nmary 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 migratable target on	which you would like to deploy this JMS Server.		
Domain Structure	Back Next Finish Cancel A	ione) children children		



	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		A Home Log Out Preferences	Record Help	Q	Welcom	e, weblogic Connected to: FCUBSDor			
iew changes and restarts		Home > Summary of Servers > Summary of Clusters > Summary of Servers > Summary of Clusters > Cluster-JMS > Summary of Servers > Summary of Servers > Summary of Persistent Stores > Summary of JMS Servers							
lick the Lock & Edit button to modify, add or elete items in this domain.		Messages							
Lock & Edit		All changes have been activ	ated. No restarts are necessary.						
Release Configuration		Summary of JMS Servers							
omain Structure		JMS servers act as management	nt containers for the queues and topics in	JMS modules that are targeted to the	iem.				
Servers	^	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 - Mo	re Columns Exist)						
Virtual Hosts Work Managers		Click the Lock & Edit button in	the Change Center to activate all the but	ttons on this page.					
		New Delete				Showing 1 to 1 of 1 Previous Next			
-Services -Messaging		🗌 Name 🗞	Persistent Store	Target	Current Target	Health			
JMS Servers	Ŧ	JMSServer-1	FileStore-1	Cluster-JMS	Cluster-JMS				
ow do I		New Delete				Showing 1 to 1 of 1 Previous Next			

5) In NFS below filestores can be seen

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



3.3 Cluster Configuration for Service Migration

Change Center	Home Log Out	Preferences	Recon	d Help		Q	w	ekcome, weblogic	Connected to: peg	jms
View changes and restarts	Home >Summary of Outlers >Outler-3						of Custers >Summary of	of Migratable Targets >	Summary of	
Configuration editing is enabled. Puture changes will automatically be activated as you modify, add or delete items in this domain.	Summary of Clust	ers		-						
Domain Structure	This page summarizes the clusters that have been configured in the current WebLogic Server domain. A cluster defines groups of WebLogic Server servers that work together to increase scalability and reliability.									
Environment Servers										
Coher Conters	yee Custers									
Model Chusters, Level 2, Collapsed, 2 of 7, Selected Proceed - Hore Columnas Exist) What reveal Showing 1 to 2 of 2 Previous Next										
-Startup and Shutdown Classes -Deployments -Services	🔲 Name 🙃	Cluster Ad	dress (luster Hessa	ging Hode	Higration Basis	Default Load Algor	thm Replication	Type Cluster B	
Security Realms	Custer-App		U	nicast		Database	Round Robin	(None)		
How do L. B	Custer-345		U	nicast		Database	Round Robin	(None)		1
2) Click on Mig ORACLE WebLogic Server A Change Center View changes and restarts	Administration Conso	t Preferences of Servers >Sur	mmary of Pe	ersistent Stores :			Vi y of Clusters >5ummary (e lcome, weblogic of Migratable Targets >:	Connected to: pegj) jms
Configuration editing is enabled. Future changes will automatically be activated as you	Settings for Clust		or ringrature	in targets y sain	indi y or oldsk					
modify, add or delete items in this domain.	Configuration	Monitoring	Control	Deployments	Services	Notes				
Domain Structure	General JTA Coherence	Messaging	Servers	Replication	Migration	Singleton Services	Scheduling Over	oad Health Monito	ring HTTP	
-Servers -Clusters -Coherence Clusters	Save									_
3) Change Migr	ration Basis	to Con	sensi	us and (Click o	n Save				

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



4. JMS Module Creation

4.1 Module Creation

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

	ORACLE WebLogic Server Administration Console 12c								
Change Center	The Home Log Out Preferences Record Help Connected to: p	egjms							
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	le							
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Messages The JMS module configuration was canceled.								
Domain Structure	Summary of JMS Modules								
B-Environment Deployments B-Services Messaging MS Servers Store-and-Forward Agents Path Services B-Philiges Data Sources Data Sources	JMS system resources are configured and stored as modules similar to standard J2EE modules. Such resources indude 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 Ne	ext							
How do I	□ 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 Ne	ext							
System Status									

2) Enter name as JMS_MODULE and Click on Next

	ministration Console 12c	Q
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: pegjms
View changes and restarts	Home >Summary of Migratable Targets >MS-JMS1 (migratable) >Summary of Migratable Targets Targets >MS-JMS1 (migratable) >Summary of Clusters >Summary of Migratable Targets > Summa	
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create JMS System Module Back Nrg Finish Cancel	
Domain Structure	The following properties will be used to identify your new module.	
E Environment →Deployments C→Services C→-Messaging →-MS Servers →-Store-and-Forward Agents →-JMS Modules	JMS system resources are configured and stored as modules similar to standard J2EE modu templates, destination keys, quota, distributed queues, distributed topics, foreign servers, administratively configure and manage JMS system modules as global system resources. * Indicates required fields	
Path Services Path ServicesData SourcesPersistent StoresPersign JNDI ProvidersForeign JNDI Providers	What would you like to name your System Module? * Name: JMS_Module	
Wark Contexts	What would you like to name the descriptor file name? If you do not provide a name, a defa	ult will be assigned.
How do I Configure JMS system modules	Descriptor File Name:	
Configure JMS servers	Where would like to place the descriptor for this System Module, relative to the jms configure	ration sub-directory of your domain?
System Status 😑	Location In Domain:	
Health of Running Servers	Back Next Finish Cancel	
Failed (0)		

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



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

4) Select the checkbox and Click on **Finish**

	ninistration Console 12c	Q
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: pegjms
View changes and restarts	Home >Summary of Migratable Targets >MS-JMS1 (migratable) >Summary of Migratable Targets >MS-JJ Targets >MS-JMS1 (migratable) >Summary of Clusters >Summary of Migratable Targets > Summary of 2	
Configuration editing is enabled. Future changes will automatically be activated as you	Create JMS System Module	
modify, add or delete items in this domain.	Back Next Finish Cancel	
Domain Structure	Add resources to this JMS system module	
B-Environment →Deployments B-Services B-Messaging	Use this page to indicate whether you want to immediately add resources to this JMS system mod connection factories, etc.	dule after it is created. JMS resources include queues, topics,
JMS Servers Store-and-Forward Agents	Would you like to add resources to this JMS system module?	
JMS Modules Path Services B-Bridges	Back Next Finith Cancel	
Data Sources Persistent Stores Foreign JNDI Providers		

5) JMS_MODULE is created

Change Center	Home Log Out Preferences 🔤	Record Help	Welcome, weblogic Connected to: pegjm						
View changes and restarts		Home >MS-JMS1 (migratable) >Summary of Migratable Targets >MS-JMS2 (migratable) >Summary of Clusters >Summary of Migratable Targets >MS-JMS1 (migratable) >Summary of Clusters >Summary of Migratable Targets >Summary of JMS Modules >JMS_Module							
Configuration editing is enabled. Future changes will automatically be activated as you	Messages								
modify, add or delete items in this domain.		 All changes have been activated. However 1 items must be restarted for the changes to take effect. The JMS module was created successfully. 							
Domain Structure	Colling for the hole								
	Settings for JMS_Module								
E-Environment	Configuration Subdeployments	Targets Security Notes							
⊖-Services →-Messaging →-JMS Servers →-Store-and-Forward Agents →-JMS Modules	This page displays general informat resources.	tion about a JMS system module and its resources. It	also allows you to configure new resources and access existing						
Path Services Paridges	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						
Work Contexts		purces that have been created for this JMS system mo ys, destination quota, distributed destinations, foreign	dule, including queue and topic destinations, connection factories, n servers, and store-and-forward parameters.						



4.2 Sub Deployment Creation

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

	r Administration Console 12c				Ç				
Change Center	Home Log Out Preferen	ces 📐 Record Help	Q	Welcome, wel	ologic Connected to: pegj				
View changes and restarts		Home >M5-JM51 (migratable) >Summary of Migratable Targets >M5-JM52 (migratable) >Summary of Clusters >Summary of Migratable Targets >MS-JMS1 migratable) >Summary of Clusters >Summary of Migratable Targets >Summary of JM5 Modules > JMS_Module							
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	All changes have been a	✓ All changes have been activated. However 1 items must be restarted for the changes to take effect.							
Domain Structure									
	Settings for JMS_Module								
D-Environment →Deployments →Services →Messaging →JMS Servers →Store-and-Forward Agents →JMS Modules		ubdeployments- Ta		es. It also allows you to configure new resources	and access existing				
Path Services	Name:	זכ	1S_Module	The name of this JMS system modu	The name of this JMS system module. More Info				
Data Sources Persistent Stores Foreign JNDI Providers	Descriptor File Name: This page summarizes the J		is/jms_module-jms.xml e been created for this JMS syste		The name of the JMS module descriptor file. More Info				
low do I No task help found.	JMS templates, destination Customize this table	sort keys, destination	quota, distributed destinations, 1	oreign servers, and store-and-forward paramete	rs.				
ystem Status	Summary of Resources								
ealth 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)	Į Į	There are no items to display							
Warning (0) OK (1)	New Delete Showing 0 to 0 of 0 Previous Next								
VebLogic Server Version: 12.1.3.0.0									
Copyright (c) 1996,2014, Oracle and/or its affiliate Oracle is a registered trademark of Oracle Corpor		av be trademarks of the	r respective owners.						

2) Enter name as JMS_SUB and click on Next

	Administration Console 12c	Õ
Change Center	🔒 Home Log Out Preferences 🖾 Record Help	ne, weblogic Connected to: pegjms
View changes and restarts	Home >MS-JMS1 (migratable) >Summary of Migratable Targets >MS-JMS2 (migratable) >Summary of Clusters >Summary of Migrata (migratable) >Summary of Clusters >Summary of Migratable Targets >Summary of JMS Modules > JMS_Module	ble 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 New Finish Cancel Subdeployment Properties	
⊕-Environment ⊡eployments ⊖-Services ⊖-Messaging	The following properties will be used to identify your new subdeployment. * Indicates required fields	
JMS Servers Store-and-Forward Agents JMS Modules Path Services E) Bridges Data Sources Parsistent Stores	* Subdeployment Name: JMS_SUB	



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

	iministration Console 12c	Q
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home >DC_JMS_Template-0 >Summary of Servers >Summary of Migratable Targets > JMS Modules >JMS MODULE	Summary of JMS Servers >JMSServer-1 >Summary of JMS Servers >JMSServer-1 >Summary of Migratable Targets >Summary of
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New Subdeployment	
Lock & Edit Release Configuration	Back Next Finish Cancel	
Domain Structure	Please select targets for the Subdeployment Servers	
È-Environment ├Servers ÈClusters	AdminServer	
Server Templates Migratable Targets Coherence Clusters	Clusters	
Machines Virtual Hosts Work Managers	Cluster-JMS O All servers in the cluster	
LStartup and Shutdown Classes	JMS Servers	
⊖-Services — — — — — — — — — — — — — — — — — — —	JMSServer-1	
How do I • Configure subdeployments in JMS system modules	Back Next Finish Cancel	-

4) Sub-Deployment is created

	dministration Con-	2010 120						0	
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-JMS2 (migratable) >Summary of JMS Modules							
Configuration editing is enabled. Future changes will automatically be activated as you	Messages	annury of clusters you	initially of this	jiuuone rury	co / Summary				
modify, add or delete items in this domain.		 All changes have been activated. However 1 items must be restarted for the changes to take effect. Subdeployment created successfully. 							
Domain Structure	Settings for JM	IS_Module							
Environment Deployments	Configuration	Subdeployments	Targets	Security	Notes				
Services Messaging Messaging MS Servers JMS Servers JMS Modules JMS Modules Path Services	Hessaging This page displays subdeployments created for a JMS system module. A subdeployment is a mechanism by which JMS module resources (such as queues, topics, and connection factories) are grouped and targeted to a server resource (such as JMS servers, server instances, or duster). JMS Modules								
⊕-Bridges Data Sources Persistent Stores	Subdeploym								
	New De	lete					Showing 1	to 1 of 1 Previous Next	
How do I 😑	🔲 Name 4	~		Resour	es		Targets		
Configure subdeployments in JMS system modules		3					Cluster-JMS		
Configure JMS system modules	New De	lete					Showing 1	to 1 of 1 Previous Next	
System Status 🗉									



4.3 **Resource Creation**

4.3.1 Queue Creation

1) In JMS_MODULE Click on New

	Iministration Consol	e 12c								õ
Change Center	🔒 Home Log Out	Home Log Out Preferences 🔊 Record Help								
View changes and restarts							ummary of Clusters >Summary o odules > JMS_Module	of Migratable Targel	s >MS-JMS1	
Configuration editing is enabled. Future changes will automatically be activated as you	Settings for JMS	Module								
modify, add or delete items in this domain.	Configuration	Subdeployments	Targets	Security	Notes					
Domain Structure	-[]									
E -Environment → Deployments E -Services	This page display resources.	s general informat	ion about a J	MS system r	nodule and	its resources	. It also allows you to configur	e new resources a	nd access existing	
E 	Name:	1	JMS_Module			The name of this J	The name of this JMS system module. More Info			
	Descriptor File Name:			jms/jms_module-jms.xml		The name of the J	MS module descrip	tor file. More Info.	••	
Path Services Data SourcesPersistent StoresForeign JNDI ProvidersWork Contexts	Data Sources JMS templates, destination sort keys, destination quota, distributed destinations, foreign servers, and store-and-forward parameters. Foreign JNDI Providers							s,		
How do I	Summary of Re	sources								
No task help found.	New Delete	e						Showing 0	to 0 of 0 Previous	Next
System Status 🖂	🔲 Name 🐟	Ту	pe	JNDI Na	me		Subdeployment		Targets	
Health of Running Servers					There	are no items t	to display			
Failed (0)	Nev Delete	e						Showing 0	to 0 of 0 Previous	Next
Critical (0)										
Overloaded (0)										

2) Select Distributed Queue and Click on Next

	Iministration 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	nigratable) >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 Choose the type of resource you want to create. 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, stand-alone queues and topics, connection factories, distributed queues and topics, foreign servers, and JMS SAF destinations, you can also protargetable resources with subdeployments, which is an advance mechanism for grouping JMS module resources and the members to server resources.					
Bridges Data Sources Persistent Stores	Connection Factory	Defines a set of connection configuration parameters that are used to create connections for JMS clients. More Info				
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	 Ø 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



	Iministration Console 12c	Q
Change Center	A Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: pegims
View changes and restarts	Home >MS-JMS1 (migratable) >Summary of Migratable Targets >MS-JMS (migratable) >Summary of Clusters >Summary of Migratable Targets >Su	452 (migratable) >Summary of Clusters >Summary of Migratable Targets >MS-JMS1 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. Domain Structure Berwironment - Oceployments - Store-and-Forward Agents - Mis Services Bervices Bervices Bervices Bervices Bervices Bervices Bervices Bervices Bervices Bervices Bervices Bervices Bervices	Create a New JHS System Hodule Resource Back Finish Cancel JHS Distributed Destination Properties The following properties will be used to identify your new Distributed * Indicates required fields	ed Queue. The current module is JMS_Module
	What would you like to name your new destination? * Name: MDB_QUEUE What JNDI Name would you like to use to look up your new destination JNDI Name: MDB_QUEUE	50n?

4) Click on Advance Targeting

Change Center	A Home Log Out Preferences 🔛 Record Help	Q	Welcome, weblogic Connected to: PCUBSDomain			
View changes and restarts			Server 1 >Summery of 3HS Servers >3HSServer 1 >Summery of Highstable			
No pending changes exist. Click the Release Configuration button to allow others to edit the	Create a New JHS System Hodule Resource					
domain.	Back Next Finish Advanced Targeting	Cancel				
Release Configuration	The following properties will be used to target y	rour new 3M5 system module resource				
Domain Structure	Use this page to view and accept the default targets wh accept the default targets, then dick Advanced Targets		rgets are based on the parent 3MS system module targets. If you do not want to ting this resource.			
Environment Servers Servers Server Templates Migratable Targets Coherence Dusters Madress	The following IMG module targets will be used as the defination appropriately. Targets:	wit targets for your new 345 system module resource	. If the module's targets are changed, this resource will also be retargeted			
- Virtual Hosts Work Managers	Clusters					
Startup and Stutdown Clesoes Deployments Envices El Messacion	Cluster-JHS M All servers in the cluster					

5) Select Subdeployement as JMS_SUB and Click on Finish

ORACLE WebLogic Server A	dministration Console 12c	0
Change Center	😭 Hane Lop Cut Preferences 🔛 Record Help	Welcome, weblogic Connected to: FCUESDomain
View changes and restarts	Huma xOC_3HS_Tenglated xSummery of Servers s Summary of Hightable Targets xSummary of JHS Servers x3HSSer Targets xSummary of JHS Midules x3HS_HIGD06L8	variat sourceary of 345 Servers s345Derver 5 countery of Highdable
No pending changes exist. Click the Release Configuration button to allow others to edit the	Create a New JHS System Hodule Resource	
doman.	Back, Net Inneh Carcel	
Release Configuration	The following properties will be used to target your new 2HS system module resource	
Domain Structure	Use this page to select a subdiployment to assign this system module resource. A subdiployment is a mechanism SM ² agent: University, you can create a new subdiployment by didiing the Create a New Subdiployment module's subdiployment management page.	
Servers 8 O Custers 5 Server Templates Migratoble Tempets - Otherwood Custers	Select the subdeployment you want to use. If you select (none), no targeting will occur. Subdeployments: JMS_SUB [*] Create a New Subdeployment.	
Hadrees Whad Heats Whad Heats Softwares Startup and Shuddown Cleases Deployments Softwares	What targets do you want to assign to this subdeployment? Targets :	
Fi Messanne *	Servers	
How do L.	Administerver	
Configure quotes for destinations Configure 3HS templates	Oasters	
Configure destination keys Configure topics Configure topics	Claster 3HS # All servers in the cluster	

6) MDB_QUEUE is created



	Iministration Console 12c				Õ			
Change Center	🔒 Home Log Out Preferences 🔤 Recor	d Help	٩	Welcome, weblog	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 modify, add or delete items in this domain.	editing is enabled. Future sutomatically be activated as you 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								
+-Environment	Settings for JMS_Module							
Deployments	Configuration Subdeployments Targ	ets Security Notes						
Services Servers Servers Servers Store-and-Forward Agents Song Modules	This page displays general information about a JMS system module and its resources. It also allows you to configure new resources and access existing resources.							
Path Services Path Services	Name:	JMS_Module	The	name of this JMS system module.	More Info			
Data Sources Persistent Stores Foreign JNDI Providers Work Contexts	Descriptor File Name: jms/jms_module-jms.xml The name of the JMS module descriptor file. More Info							
How do I	This page summarizes the JMS resources t JMS templates, destination sort keys, desi				nnection factories,			
No task help found.	Customize this table							
System Status	Summary of Resources							
Health of Running Servers	New Delete			Showing 1 to :	l of 1 Previous Next			
Failed (0) Critical (0)	🔲 Name 🗞 🛛 Type		JNDI Name	Subdeployment	Targets			
Overloaded (0)	MDB_QUEUE Uniform Distr	ibuted Queue	MDB_QUEUE	JMS_SUB	Cluster-JMS			
Warning (0) OK (1)	New Delete			Showing 1 to :	l of 1 Previous Next			

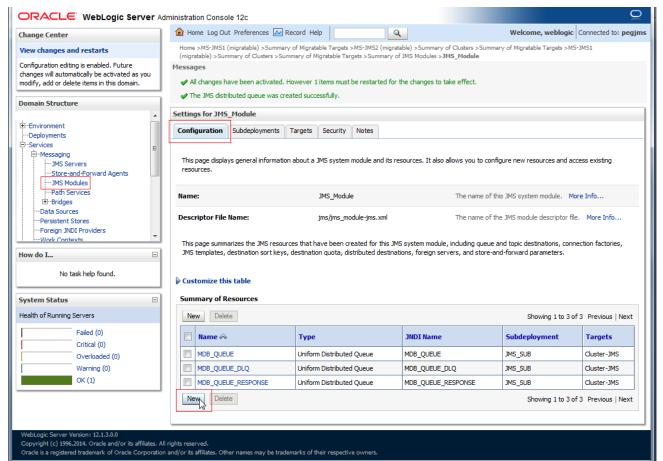
7) Similarly Create MDB_QUEUE_RESPONSE and MDB_QUEUE_DLQ

ninistration Conso	le 12c							õ
🟦 Home Log Ou	t Preferences 📐	Record Help	p	٩			Welcome, weblogi	c Connected to: FCUBSDomain
	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							
Messages All channer have been activated. No restants are percessary								
Configuration	Subdeployments	Targets	Security	Notes				
This page displa	ys general informati	on about a J	IMS system i	module and its res	ources. It also allo	ws you to configure new resourc	es and access existing resources.	
Name:				JMS_MODULE		The na	me of this JMS system module. More Info	
Descriptor File Name: jms/jms_module-jms.xml The name of the JMS module descriptor file. More Info								
							ions, connection factories, JMS templates,	destination sort keys,
Customize th	s table							
Summary of R	esources							
Click the Lock &	<i>Edit</i> button in the (Change Cent	ter to activa	ate all the buttons	on this page.			
New Dele	te						Showing	g 1 to 3 of 3 Previous Next
Name 🔿			Туре			JNDI Name	Subdeployment	Targets
	JE		Uniform D	Distributed Oueue		MDB QUEUE	JMS SUB	Cluster-JMS
				· · ·		MDB_QUEUE_DLQ	JMS_SUB	Cluster-JMS
MDB_QUE	JE_RESPONSE		Uniform D	Distributed Queue		MDB_QUEUE_RESPONSE	JMS_SUB	Cluster-JMS
New Dele	te					·	Showing	g 1 to 3 of 3 Previous Next
	Home Log OU Home SDC_JMS_T JMS Modules >JM Hessages All changes h Settings for JMS Configuration This page displa Name: Descriptor File This page summ destination quol Customize thi Summary of R Click the Lock as New Delee Name MD8_QUE MD8_QUE MD8_QUE	Home >DC_UMS_Template-0 >Summar JMS Modules >JMS_MODULE Messages	Home Log Out Preferences Record Hell Home >DC_JMS_Template-0 >Summary of Servers : JMS Modules >JMS_MODULE Messages All changes have been activated. No restarts Settings for JMS_MODULE Configuration Subdeployments Targets This page displays general information about a 2 Name: Descriptor File Name: This page summarizes the JMS resources that his destination quota, distributed destinations, fore Customize this table Summary of Resources Click the Lock & Editbutton in the Change Cent New Delete MoB_QUEUE MoB_QUEUE_RESPONSE	Alone Log Out Preferences Record Help Home >DC_JMS_Template 0 >Summary of Servers >Security This page displays general information about a JMS system Name: Descriptor File Name: This page summarizes the JMS resources that have been or destination quota, distributed destinations, foreign servers Customize this table Summary of Resources Click the Lock & Editbutton in the Change Center to activate MDB_QUEUE MDB_QUEUE Uniform file MDB_QUEUE_PLQ Uniform file MDB_QUEUE_PLQ Uniform file	Anne Log Out Preferences Record Help Home SOC_JMS_Template-0 >Summary of Servers >Summary of Migratable Targets JMS Modules >JMS_MODULE Hessages All changes have been activated. No restarts are necessary. Settings for JMS_MODULE Configuration Subdeployments Targets Security Notes This page displays general information about a JMS system module and its reso Name: JMS_MODULE Descriptor File Name: JMS_MODULE Descriptor File Name: JMS_MODULE Descriptor File Name: JMS_MODULE Descriptor File Name: JMS_MODULE Customize this table Summary of Resources Click the Lock & Editbutton in the Change Center to activate all the buttons of Note, QUEUE Uniform Distributed Queue MDB_QUEUE_INCE MDB_QUEUE_INCE MDB_QUEUE_INCE MDB_QUEUE_INCE MDB_QUEUE_INCE MDB_MOBLE MDB	Anne Log Out Preferences Record Help Home >DC_JMS_Template-0 - Summary of Servers >Summary of Migratable Targets >Summary of JMS Modules >JMS_MODULE Hessages All changes have been activated. No restarts are necessary. Settings for JMS_MODULE Configuration Subdeployments Targets Security Notes This page displays general information about a JMS system module and its resources. It also allo Name: JMS_MODULE Descriptor File Name: JMS_module-jms.xml This page summarizes the JMS resources that have been created for this JMS system module, in destination quota, distributed destinations, foreign servers, and store-and-forward parameters. Customize this table Summary of Resources Click the Lock & Editbutton in the Change Center to activate all the buttons on this page. New Delete MOB_QUEUE Uniform Distributed Queue MDB_QUEUE_PLQ Uniform Distributed Queue MDB_QUEUE_PLQ Uniform Distributed Queue MDB_QUEUE_PLS	Home Log Out Preferences Record Help Addes >JMS_HonOULE Home Log Out Preferences Record Help Addes >JMS_HODULE Home solc_JMS_Template-0 >Summary of Servers >Summary of Mgratable Targets >Summary of JMS Servers >JMSServer-1 >Summary MS Modules >JMS_MODULE Hessages Ad changes have been activated. No restarts are necessary. Settings for JMS_MODULE Configuration Subdeployments Targets Security Notes This page displays general information about a JMS system module and its resources. It also allows you to configure new resource Name: JMS_MODULE The na Descriptor File Name: jms/jms_module-jms.xml The na This page summarizes the JMS resources that have been created for this JMS system module, including queue and topic destinate destination quota, distributed destinations, foreign servers, and store-and-forward parameters. Customize this table Summary of Resources Click the Lock & Editbutton in the Change Center to activate all the buttons on this page. New Delete NoB_QUEUE Uniform Distributed Queue MDB_QUEUE_DIQ MDB_QUEUE_EQU MDB_QUEUE_EQU MDB_QUEUE_EQU MDB_QUEUE_RESPONSE Uniform Distributed Queue MDB_QUEUE_RESPONSE	Image: Image:



4.3.2 Connection Factory Creation

1) In JMS_MODULE, Click on New



2) Select Connection Factory and click on Next

ORACLE' WebLogic Server Administration Console 12c									
Change Center	🚹 Home Log Out Preferences 🖂	Record Help	Welcome, weblogic	Connected to: pegjms					
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 JMS Modules > JM5 Module							
Configuration editing is enabled. Future changes will automatically be activated as you	Create a New JMS System Module	Create a New JMS System Module Resource							
modify, add or delete items in this domain. Domain Structure	Back Next Finish Can Choose the type of resource you Use these pages to create resource		lates, and connection factories.						
Horessaging Horessagi	stand-alone queues and topics, con targeting pages for selecting approp	you select, you are prompted to enter basic information nection factories, distributed queues and topics, foreign oriate server targets. You can also associate targetable resources and the members to server resources.	servers, and JMS SAF destinations, you can	also proceed to					
H-Bridges Data Sources Persistent Stores	R Connection Factory		Defines a set of connection configuration p are used to create connections for JMS die						
Foreign JNDI Providers	Queue		Defines a point-to-point destination type, for asynchronous peer communications. A						



3) Enter the Name and Click on Next

	dministration Console 12c			Q	
Change Center	Home Log Out Preferen	ces 📐 Record Help	٩	Welcome, weblogic Connected to: pegjms	
View changes and restarts			Targets >MS-JMS2 (migratable) >Summary table Targets >Summary of JMS Modules >	/ 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 Module Resource				
modify, add or delete items in this domain.	Back Next Finish	Cancel			
Domain Structure	Connection Factory Pro	perties			
Environment Copployments G-Services G-Messaging	The following properties will * Indicates required fields	be used to identify your	r new connection factory. The current m	odule is JMS_Module.	
JMS Servers Store-and-Forward Agents	What would you like to name	your new connection fa	ctory?		
JMS Modules Path Services	* Name:	MDBQCF	<		
⊕-Bridges Data Sources Persistent Stores	What JNDI Name would you like to use to look up your new connection factory?				
Foreign JNDI Providers	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 Finish 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 Mignatable Stargets 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 HostsVork ManagersStrutup and Shutdown ClassesDeploymentsServicesTi-Messaring	Clusters Cluster-JMS Image: All servers in the cluster
How do I	Back Next Finish Advanced Targeting Cancel
Configure quotas for destinations	



5) Select JMS_SUB and Click on Finish

	ninistration Console 12c							
Change Center	Home Log Out Preferences Record Help Welcome, weblogic Connected to: FCUBSDomai	in						
View changes and restarts	Home >DC_JMS_Template-0 >Summary of Servers >Summary of Migratable Targets >Summary of JMS Servers >JMSServer-1 >Summary of JMS Servers >JMSServer-1 >Summary of Migratable Targets >Summary of JMS Modules >JMS_MODULE							
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New JMS System Module Resource							
Lock & Edit	Back Next Finish Cancel	Ш						
Release Configuration	The following properties will be used to target your new JMS system module resource	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 diding the Create a New Subdeployment button. You can also reconfigure subdeployment targets later by using the parent	Ш						
E-Environment	module's subdeployment management page.	Ш						
E-Clusters	Select the subdeployment you want to use. If you select (none), no targeting will occur.	Ш						
Migratable Targets Coherence Clusters	Subdeployments: JMS_SUB Create a New Subdeployment	Ш						
Machines Virtual Hosts Work Managers	What targets do you want to assign to this subdeployment?	Ш						
	Targets :	Ш						
-Services	Servers	=						
How do I	AdminServer	Ш						
Configure quotas for destinations		ш						
Configure JMS templates	Clusters	ш						
Configure destination keys	∛ Cluster-JHS	ш						
Configure topics	All servers in the cluster	ш						
Configure queues Configure connection factories		ш						
Configure connection factories Configure uniform distributed topics	JMS Servers	ш						
Configure uniform distributed queues		ш						
Configure foreign servers	JMSServer-1							
Configure JMS SAF								
	Back Next Finish Cancel							
System Status 😑		내						

6) Connection Factory is **Created**



	ministration Console 12c				Q			
Change Center	🔒 Home Log Out Preferences 🔤	Record Help	2	Welcome, weblogic	Connected to: pegjm			
View changes and restarts		Home >MS-JMS1 (migratable) >Summary of Migratable Targets >MS-JMS2 (migratable) >Summary of Clusters >Summary of Migratable Targets >MS-JMS1 (migratable) >Summary of Clusters >Summary of Migratable Targets >Summary of JMS Modules >JMS Module						
Configuration editing is enabled. Future changes will automatically be activated as you	Messages	,						
modify, add or delete items in this domain.	 All changes have been activated. Connection factory created succession 	However 1 items must be restarted for ssfully.	r the changes to take effect.					
	Settings for JMS_Module							
Environment Deployments	Configuration Subdeployments	Targets Security Notes						
□-Services □-Messaging JMS Servers JMS Store-and-Forward Agents JMS Modules Path Services	This page displays general information resources.	n about a JMS system module and its r JMS_Module	•	figure new resources and ac				
Henidges Data Sources Parsistent Stores Foreign JNDI Providers Work Contexts How do I			MS system module, including queue	The name of the JMS module descriptor file. More Info tem module, including queue and topic destinations, connection factories, foreign servers, and store-and-forward parameters.				
No task help found.	Customize this table							
System Status	Summary of Resources							
Health of Running Servers	New Delete			Showing 1 to 4 o	f 4 Previous Next			
Failed (0) Critical (0)	🔲 Name 🗞	Туре	JNDI Name	Subdeployment	Targets			
Overloaded (0)		Connection Factory	MDBQCF	JMS_SUB	Cluster-JMS			
Warning (0)	MDB_QUEUE	Uniform Distributed Queue	MDB_QUEUE	JMS_SUB	Cluster-JMS			
OK (1)	MDB_QUEUE_DLQ	Uniform Distributed Queue	MDB_QUEUE_DLQ	JMS_SUB	Cluster-JMS			
	MDB_QUEUE_RESPONSE	Uniform Distributed Queue	MDB_QUEUE_RESPONSE	JMS_SUB	Cluster-JMS			
	New Delete			Showing 1 to 4 o	f 4 Previous Next			



5. Server Restart

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

	Adminis	tration Console 12c						Õ
Change Center		Home Log Out Preferences 📐	Record Help	Q			Welcome, we	blogic Connected to: FCUBSDomai
View changes and restarts		ome >Summary of JMS Servers >JM Iodules >JMS_MODULE >Connection			mmary of Migratable Tar	gets >Summary of JMS		
Click the Lock & Edit button to modify, add or delete items in this domain.		nmary of Servers	, , ,	,				
Lock & Edit	C	onfiguration Control						
Release Configuration		A server is an instance of WebLogi	Server that runs in its	; own Java Virtual Machine (JVM	1) and has its own confi	iguration.		
Domain Structure		This page summarizes each server	hat has been configur	ed in the current WebLogic Ser	ver domain.			
Environment Servers Coluters Server Templates Congratable Targets Coherence Clusters	1	ک Customize this table Servers (Filtered - More Colur	nns Exist)					
Machines Virtual Hosts Work Managers Startup and Shutdown Classes		Click the <i>Lock & Edit</i> button in the	Change Center to ac	tivate all the buttons on this pa	ge.		Sh	owing 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
How do I 😑		DC_FCUBS_1	Dynamic	Cluster-App	MAC-1	SHUTDOWN	Not reachable	7101
Create Managed Servers		DC_FCUBS_2	Dynamic	Cluster-App	MAC-2	SHUTDOWN	Not reachable	7102
Clone servers		DC_FCUBS_3	Dynamic	Cluster-App	MAC-1	SHUTDOWN	Not reachable	7103
Delete Managed Servers Delete the Administration Server		DC_FCUBS_4	Dynamic	Cluster-App	MAC-2	SHUTDOWN	Not reachable	7104
Start and stop servers		DC_JMS_1	Dynamic	Cluster-JMS	MAC-1	SHUTDOWN	Not reachable	7106
		DC_JMS_2	Dynamic	Cluster-JMS	MAC-2	SHUTDOWN	Not reachable	7107
System Status		New Clone Delete	1			I	Sh	owing 1 to 7 of 7 Previous Next
Health of Running Servers								
Eailed (0)								

2) Select the cluster 'DC_JMS_Template-0' and

	dministration Console 12c				Ŏ
Change Center	🔒 Home Log Out Preferences 🔤 Record	Help			Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home >JMSServer-1 >Summary of Migratable T Templates >DC JMS Template-0 >Summary of		DULE >ConnectionFactory-0 :	>placeholder >Summary of Ser	vers >Summary of Server
Click the Lock & Edit button to modify, add or delete items in this domain.	Summary of Server Templates				
Lock & Edit Release Configuration Domain Structure	This page summarizes each server template A server template contains common, non-de manage configuration for a group of server i	fault attributes that you can apply to a se	-	then inherit the template conf	iguration. Server templates enable you to easily
Environment Servers Clusters Gever Templates Coherence Clusters Magnatable Targets Coherence Clusters Machines	Customize this table Server Templates Click the Lock & Editbutton in the Change of New Clone Delete	Center to activate all the buttons on this p	bage.		Showing 1 to 2 of 2 Previous Next
Virtual Hosts Work Managers	□ Name ↔	Cluster	Machine	Listen Port	Listen Address
Startup and Shutdown Classes Deployments	DC_FCUBS_Template	Cluster-App		7100	
-Services	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

Home scharge and restarts borned outputs solutions allow others to edited outputs allow others to edited outputs solutions allow others to edited outputs solutions allow others to edited outputs allow others allo	ORACLE WebLogic Server	r Administration Console 12c	Ģ
And Comparing Change exist. Clock the Release configuration button allow others to edit main. Server Template = 00000000000000000000000000000000000	Change Center	🔒 Home Log Out Preferences 📈 Record Help	Welcome, weblogic Connected to: FCUBSDoma
Settings for IV_JHS_Template_0 Image: Instructure	View changes and restarts		lder >Summary of Servers >Summary of Server Templates >DC_JMS_Template-0 >Summary of
Lock & Edit Configuration Petwoment General Cutter Services Services Services Services Configuration Services Services <td>No pending changes exist. Click the Release Configuration button to allow others to edit the</td> <td></td> <td></td>	No pending changes exist. Click the Release Configuration button to allow others to edit the		
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Image: Server Templates Migratable Targets Migratable Targets Migratable Targets With Meangers Start Managed Servers from the Administration Console Shut down a server instance Start Managed Servers form the Administration Console Shut down a server instance		=	
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Back Home: The BEA home directory (back hon the machine running Node Manager) to use when starting this server. More Info Beaviews: The directory (back hon the machine running Node Manager) to use when starting this server. More Info Configure startup anguments for Managed servers from the diministration Console shart Managed Servers from the diministration Console shart Managed Servers in that console shart Managed Servers from the diministration Console shart Managed Servers from the diministration Console shart Managed Servers in the diministration Console shart Managed Servers in the diministration Console shart Managed Servers from the diministration Console shart Managed Servers in the diministration Console shart Managed Servers in the diministration Console shart Managed Servers in the diministration Console shart Managed Servers from the diministration Console shart Managed Servers from the diministration Console shart Managed Servers in the diministration Console shart Managed Servers from the diministration Console shart Managed Servers from the diministration Console shart Managed Servers in the diministration Console shart Managed Servers from the diministration Console shart Managed Servers from the diministration Console shart Managed Servers in the diministration Console shart Managed Servers in the diministration Console shart Managed Servers from the diministration Console shart Managed Servers in the dimension server in the dimension server in the dimension server. More Info Arguments:			
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Shut down a server instance Image: Server instance alth of Running Servers	Servers	Class Path:	
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alth of Running Servers	Shut down a server instance		
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Critical (0) -XX: XMAXFSINSize=512m	Failed (0)		The arguments to use when starting this server. More Info
		-XX:MaxPermSize=512m	
	Overloaded (0)		

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



6. Foreign Server Creation

6.1 Module Creation

1) JMS_Modules and Click on New

	ministration Console 12c	Q
Change Center	🏦 Home Log Out Preferences 🚵 Record Help	Welcome, weblogic Connected to: pegjms
View changes and restarts	Home >Summary of Servers >MS-JMS2 >Summary of Virtual Hosts >Summary of Servers >Summary of Clusters >Summa Deployments >Summary of JMS Modules	ry of Migratable Targets >Summary of Servers >Summary of
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Summary of JMS Modules	
Domain Structure Work ManagersStartup and Shutdown ClassesDeploymentsDeployments	 JMS system resources are configured and stored as modules similar to standard JZEE modules. Such resources inc quota, distributed queue, distributed topics, foreign servers, and JMS store-and-forward (SAF) parameters. You global system resources. This page summarizes the JMS system modules that have been created for this domain. Customize this table JMS Modules 	
	lected Delete	Showing 1 to 1 of 1 Previous Next
Data Sources Persistent Stores Foreign JNDI Providers	Image: Name in the second s	Type System
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

	Iministration Console 12c Q
Change Center	🏦 Home Log Out Preferences 🔤 Record Help
View changes and restarts	Home >Summary of Migratable Tarnets <mc-1mc1 (minratable)="" <cummany="" <cummary="" <mc-1mc2="" minratable="" of="" olusters="" tarnets="">Summary of Migratable Targets >MS-1MS1 (migratable) >S</mc-1mc1>
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 Nrg Finish Cancel
Environment Deployments G-Services G-Messaging G-Messagin	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
-→Path Services E)-Bridges -→Data Sources -→Persistent Stores -→Foreign JNDI Providers	What would you like to name your System Module? * Name: MDB_MODULE
How do I	What would you like to name the descriptor file name? If you do not provide a name, a default will be assigned. Descriptor File Name:
Configure JMS servers	Where would like to place the descriptor for this System Module, relative to the jms configuration sub-directory of your domain?
System Status 😑	Location In Domain:
Health of Running Servers Failed (0)	Back Next Finish Cancel



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

ORACLE WebLogic Server A	dministration Console 12c		9		
Change Center	Home Log Out Preferences Record Help	Q	Welcome, weblogic Connected to: FCUBSDomain		
View changes and restarts	Home splaceholder sSummary of Servers sSummary of Server Ter Modules s3HS_MODULE sSummary of 3HS Hodules	pietes >DC_3MS_Template-0 >Summary of Server	Templetes +OC_3HS_Templete-0 +Summary of Servers +Summary of 3HS		
No pending changes exist. Click the Release Configuration button to allow others to edit the	Create JHS System Hodale				
domain.	Back Ned First Cancel				
Release Configuration	The following properties will be used to target your ne	w JHS system module.			
Domain Structure	Use this page to select the server or duster on which you would	d like to deploy this JMS system module. You car	n reconfigure targets later if you wish.		
Brownoment Servers Dictors	Targets :				
Server Templates	Servers				
Coherence Ousters Machines Witual Hosts	AdminServer				
- Work Managers - Startup and Stutidown Classes	Gusters				
Deployments Services R: Messager	Cluster-App All servers in the cluster				
How do L	Cluster-JHS				
Configure IMS system modules Configure IMS servers	O All servers in the cluster				

4) Select CheckBox and Click on Finish

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

5) MDB_MODULE is created

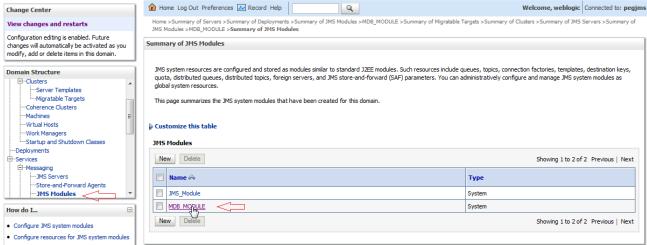
	ministration Console 12c	Q					
Change Center	🟦 Home Log Out Preferences 🖂 Record Help						
View changes and restarts	Home >Summary of Clusters >Summary of Migratable Targets >Summary of Servers >Summary of Deployments >Summary of JMS Modules >MDB_MODULE >Summary of Migratable Targets >Summary of Clusters >Summary of JMS Servers > Summary of JMS Modules						
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	iummary of JMS Modules						
Domain Structure Clusters Server Templates Migratable Targets Coherence Clusters Machines Wirkual Hosts Work Managers Strutup 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 EServices	New Delete	Showing 1 to 2 of 2 Previous Next					
Messaging JMS Servers JMS Servers	Name Module MDB_MODULE	Type System System					
How do I • Configure JMS system modules • Configure resources for JMS system modules	New Delete	Showing 1 to 2 of 2 Previous Next					



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 \rightarrow New

	Iministration Conso	le 12c				Q		
Change Center	🔒 Home Log Ou	t Preferences 🔤 Reco	d Help	Q		Welcome, weblogic Connected to: pegjms		
View changes and restarts		Home >Summary of Deployments >Summary of JMS Modules >MDB_MODULE >Summary of Migratable Targets >Summary of Clusters >Summary of JMS Servers >Summary of JMS Modules >MDB_MODULE >Summary of JMS Modules >MDB_MODULE						
Configuration editing is enabled. Future changes will automatically be activated as you	Settings for MDB	MODULE						
modify, add or delete items in this domain.	Configuration	Subdeployments Tar	gets Security	Notes				
Domain Structure								
É-Environment	This page displa	ys general information ab	out a JMS system	n module and its resources. It also allo	ws you to configure new resources an	d access existing resources.		
Servers	Name:		MD	B_MODULE	The name of this JMS	system module. More Info		
Migratable Targets Coherence Clusters	Descriptor File Name: jm			/mdb_module-jms.xml	The name of the JMS 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 Services	₽ Customize this table							
How do I 🖃	Summary of R	esources						
No task help found.	New Delet	te				Showing 0 to 0 of 0 Previous Next		
	🔲 Name 🗇	Тур	e	JNDI Name	Subdeployment	Targets		
System Status				There are no item	is to display			
Health of Running Servers	New Delet	te				Showing 0 to 0 of 0 Previous Next		
Failed (1) Critical (0)	~1							



 \bigcirc

2) Select Foreign Server and Click on Next

hange Center	🔒 Home Log Out Preferences 🔤 Record Help	Q Welcome, weblogic Connected to: pe					
iew 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						
nfiguration editing is enabled. Future							
anges will automatically be activated as you odify, add or delete items in this domain.	Create a New JMS System Module Resource						
odity, 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 as qu	eues, topics, templates, and connection factories.					
⊡-Clusters	Depending on the type of resource you select, you are promoted to enter	er basic information for creating the resource. For targetable resources, like stand-alone queues and topics,					
Server Templates Migratable Targets		JMS SAF destinations, you can also proceed to targeting pages for selecting appropriate server targets. Yo					
Coherence Clusters	can also associate targetable resources with subdeployments, which is an	n advanced mechanism for grouping JMS module resources and the members to server resources.					
Machines							
Virtual Hosts	Connection Factory	Defines a set of connection configuration parameters that are used to					
Work Managers Startup and Shutdown Classes		create connections for JMS clients. More Info					
-Deployments							
Services	O Queue	Defines a point-to-point destination type, which are used for					
Messading		asynchronous peer communications. A message delivered to a queue is distributed to only one consumer. More Info					
		is distributed to only one consumer. More Info					
w do I E	© Торіс	is distributed to only one consumer. More Info Defines a publish/subscribe destination type, which are used for					
w do I E		is distributed to only one consumer. More Info Defines a publish/subscribe destination type, which are used for					
w do I E Configure quotas for destinations Configure JMS templates		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					
w do I E Configure quotas for destinations Configure JMS templates Configure destination keys		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,					
w do I E Configure quotas for destinations Configure JMS templates Configure destination keys Configure topics	💿 Торіс	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,					
w do I E Configure quotas for destinations Configure JMS templates Configure destination keys Configure topics Configure queues	💿 Торіс	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					
w do I E Configure quotas for destinations Configure JMS templates Configure destination keys Configure topics Configure queues Configure queues	💿 Торіс	is distributed to only one consumer. More Info Defines a publish/subscribe destination type, which are used for asynchronous peer communications. A message delivered to a topic is distributed to all topic consumers. More Info Defines a set of queues that are distributed on multiple JMS servers, but which are accessible as a single, logical queue to JMS clients. Mor Info Defines a set of topics that are distributed on multiple JMS servers,					
w do I E Configure quotas for destinations Configure JMS templates Configure destination keys Configure topics Configure queues Configure connection factories Configure uniform distributed topics	 Topic Distributed 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 IMS servers, but which are accessible as a single, logical queue to JMS dients. Mor Info Defines a set of topics that are distributed on multiple IMS servers, but which are accessible as a single, logical topic to IMS dients. More Info					
w do L E Configure quotas for destinations Configure JMS templates Configure destination keys Configure topics Configure queues Configure connection factories Configure inform distributed topics Configure uniform distributed queues	 Topic Distributed Queue 	is distributed to only one consumer. More Info Defines a publish/subscribe destination type, which are used for asynchronous peer communications. A message delivered to a topic is distributed to all topic consumers. More Info Defines a set of queues that are distributed on multiple JMS servers, but which are accessible as a single, logical queue to JMS dients. Mor Info Defines a set of topics that are distributed on multiple JMS servers,					
	 Topic Distributed Queue 	is distributed to only one consumer. More Info Defines a publish/subsorbe 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					

3) Enter name and Click on Next

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



4) Click on Advanced Targeting

	Iministration Console 12c Q
Change Center	🏦 Home Log Out Preferences 🗟 Record Help
View changes and restarts	Home >DC_JMS_Template-0 >Summary of Server Templates >DC_JMS_Template-0 >Summary of Servers >Summary of JMS Modules >JMS_MODULE >Summary of JMS Modules >MDB_MODULE >Summary of JMS Modules >JMS_MODULE >Summary of JMS Modules >MDB_MODULE >Summary of JMS Modules >JMS_MODULE >Summary of JMS Modules >MDB_MODULE >Summary of JMS Modules >JMS_MODULE >Summary of JMS Modules >JMS_MODULE >Summary of JMS_MODULE
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration Domain Structure	Create a New JMS System Module Resource Back Next Fnish Advanced Targeting Cancel The following properties will be used to target your new JMS system module resource Use this page to view and accept the default targets where this JMS resource will be targeted. The default targets are based on the parent JMS system module targets. If you do not want to accept the default targets, then dick Advanced Targeting to use the subdeployment mechanism for targeting this resource.
B-Environment Servers G-Clusters Migratable Targets Coherence Clusters Migratable Targets Coherence Clusters Magratable Targets	Targets :
Work Managers Work Managers Work Managers Structure and Shutdown Classes Deployments Services Attension	Clusters Cluster-App @ All servers in the cluster Back Next Finish Advanced Targeting Cancel

5) Click on Create New SudDeployment

ORACLE' WebLogic Server Administration Console 12c							
Change Center	🟦 Home Log Out Preferences 🖾 Record Help	ms					
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	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 which JMS resources are grouped and targeted to a server instance, duster, or SAF agent. If necessary, you can create a new subdeployment by clicking the Create a New Subdeployment button. You can also reconfigure subdeployment targets later by using the parent module's subdeployment management page.						
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 🔤 Reco	rd Help	Welcome, weblogic Connected to: pegjms
View changes and restarts	Home >Summary of Deployments >Summary Modules >MDB_MODULE >Summary of JMS		atable Targets >Summary of Clusters >Summary of JMS Servers >Summary of JMS
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain. Domain Structure	Create a New Subdeployment OK Cancel Subdeployment Properties		
É-Environment	The following properties will be used to ide	entify your new subdeployment.	
Servers E ClustersServer Templates	Subdeployment Name:	MDB_SUB	
LMigratable Targets Coherence Clusters Machines Virtual Hosts Work Managers Startup and Shutdown Classes	OK Cancel		



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

	Iministration Console 12c	Õ					
Change Center	🔒 Home Log Out Preferences 🖾 Record Help	SDomain					
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 >MD8_MODULE >Summary of JMS Modules >M	ry of					
Pending changes exist. They must be activated to take effect.	Create a New JMS System Module Resource						
Activate Changes	Back Next Finish Cancel						
Undo All Changes	The following properties will be used to target your new JMS system module resource						
Domain Structure	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, cluste	er, or					
Environment	SAF agent. If necessary, you can create a new subdeployment by dicking the Create a New Subdeployment button. You can also reconfigure subdeployment targets later by using the par module's subdeployment management page.	rent					
	Select the subdeployment you want to use. If you select (none), no targeting will occur.						
Machines	Subdeployments: MDB_SUB Create a New Subdeployment						
Work Managers Startup and Shutdown Classes	What targets do you want to assign to this subdeployment?						
Deployments Services Messaging	Targets :						
How do I	Servers						
Configure quotas for destinations	AdminServer						
Configure JMS templates Configure destination keys	Clusters						
Configure topics	Cluster-App						
Configure queues Configure connection factories	All servers in the cluster						
Configure uniform distributed topics	JMS Servers						
Configure uniform distributed queues	J.1.5 SERVERS						
Configure foreign servers	JMSServer-1						
Configure JMS SAF							
System Status	Back Next Finish Cancel						

8) Foreign Server is created

	ministration Console 12c				Q			
Change Center	🏦 Home Log Out Preferences 🔤 Record	rd Help		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 been activated. No re- The foreign server was created success							
Domain Structure	Settings for MDB_MODULE							
É-Environment	Configuration Subdeployments Targ	aets Security Notes						
Servers Servers Server TemplatesMigratable TargetsCoherence ClustersMaines			ources. It also allows you to conf	gure new resources and access existing reso	urces.			
Virtual Hosts	Name:	MDB_MODULE		The name of this JMS system module. Mor	e Info			
Work Managers Startup and Shutdown Classes Deployments EServices	Descriptor File Name: jms/mdb_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,							
How do I	sort keys, destination quota, distributed d				no capacoj destadon			
No task help found.	Customize this table							
System Status	Summary of Resources							
	New Delete			Showing	g 1 to 1 of 1 Previous Next			
Health of Running Servers Failed (1)	🔲 Name 🗞	Туре	JNDI Name	Subdeployment	Targets			
Critical (0)	ForeignServer-1	Foreign Server	N/A	MDB_SUB	Cluster-App			
Overloaded (0) Warning (0)	New Delete							



6.3 Foreign Server Configuration

1) Click on ForeignServer-1

ORACLE WebLogic Server Ad	ministration Console 12c					õ	
Change Center	Home Log Out Prefer	rences 🔤 Record He	lp Q		Welcome, w	eblogic Connected to: pegjms	
View changes and restarts		Home >Summary of Deployments >Summary of JMS Modules >MDB_MODULE >Summary of Migratable Targets >Summary of Clusters >Summary of JMS Servers >Summary of JMS Modules >MDB_MODULE >Summary of JMS Modules >MDB_MODULE					
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Messages All changes have been activated. No restarts are necessary.						
Domain Structure	The foreign server was	as created successfully.					
	Settings for MDB_MODU	JLE					
Environment Servers	Configuration Subde	ployments Targets	Security Notes				
Ousters Ousters Ousters Outrights Out	This page displays gener	al information about a	JMS system module and its reso MDB_MODULE	urces. It also allows you to confi	gure new resources and access existing resources and access existi		
Work Managers Startup and Shutdown Classes	Descriptor File Name:		jms/mdb_module-jms.x	nl	The name of the JMS module descriptor file. More Info		
How do I	This page summarizes the JMS resources that have been created for this JMS system module, including queue and topic destinations, connection factories, JMS templates, destination sort keys, destination quota, distributed destinations, foreign servers, and store-and-forward parameters.						
No task help found.	Customize this table						
	Summary of Resource	25					
System Status Health of Running Servers	New Delete				Showing	1 to 1 of 1 Previous Next	
Failed (1)	□ Name ↔ , Type JNDI Name Subdeployment Targets				Targets		
Critical (0)	Foreignfierver-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

ORACLE WebLogic Server	Administration Console 12c									
Change Center	A Hone Log Out Preferences 🐼 R	ecard Help	Welcome, weblogic Connected to: FCUBSDomain							
View changes and restarts		Home >Summary of Dutters >Summary of Server Templates >Summary of Servers >Summary of 3HS Mobiles >MDB_MODULE >ForeignBerver-1 >Summary of Servers >Summary of 3HS Mobiles >MDB_MODULE >ForeignBerver-1								
Click the Lock & Edit button to modify, add or seleter items in this domain.										
Release Configuration										
Contract on edge and	Configuration Subdeployment 1	Notes								
Domain Structure	General Destinations Connection	n Factories								
Onvironment Servers Outers Outers	A foreign server represents a 3/00 pr	ange Center to modify the settings on this page. swider that resides outside a WebLogic Server. It contains information getts (gausses or topics) can be defined on one JPDC directory. Use the PoreignServer-1	that allows WebLogic Server to reach the remote JKOI provider. This way, a number of is page to configure a foreign server.							
Ceployments Services Services How do L.	JMDI Initial Context Factory:	weblogic pidi WLInitiaK	The name of the class that must be instantiated to access the 3401 provider. This class name depends on the 3400 provider and the vendor that are being used. More brild							
			The LRL that WebLog: Server will use to contact the JRDI provider. The							
Oreate foreign connection factories Oreate foreign destinations involvem Status	JNDI Connection URL:	13,//10.184.145.185.7106,10.184.148.189.7107	syntax of the URL depends on which 3/CC provide is being used. For WebLog: 29G, laws this field blank if you are referencing WebLog: 3/IG objects within the same duster. More Info							



3) Click on Connection Factories

	dministration Cons	ole 12c						Q	
Change Center	Home Log O	🔒 Home Log Out Preferences 🔤 Record Help 🛛 🔍 🤐 Welcome, weblogic Connected to: pegji						Connected to: pegjm	
View changes and restarts		Home >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 >ForeignServer1 > 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 Connect	ion Factories						
	another instand This page sum Customize th	ce of WebLogic Serve narizes the foreign co	r running in a differ	ent duster or server, or a fo	reign provider, as long a	ccessible via JNDI. A remote co s that provider supports JNDI.		used to refer to	
Deployments =Services		ete					Showing 0 to 0 d	of 0 Previous Next	
	Name 🖉	\$	Local JNDI I	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 d	of 0 Previous Next	
System Status									

4) Create MDBQCF Connection Factory

ORACLE WebLogic Server A	dministration Console 12c			ç	5
Change Center	A Home Log Out Preferences	Record Help	Q.	Welcome, weblogic Connected to: pegi	ns
View changes and restarts	Home >MDB_HOOULE >Summar Modules >HOB_MOOULE >Foreig		sary of Ousters >Summary of 3HS Serv	rvers >Summary of 3HS Modules >MDB_MODULE >Summary of 3HS	
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create a New Foreign JHS Co				1
Domain Structure	Foreign Connection Factor	y Properties			
Server Templates	The following properties will be * Indicates required fields	used to identify your new fo	reign connection factory.		
Coherence Clusters Machines Virtual Hosts	* Name:	MDBQCF			
	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			9		
Change Center	🔞 Hone Log Cut Welerences 🔛 Record 1	40 Q		Welcome, weblogic Connected in: pegge		
View changes and restarts	Home HOR, HODULE - Summery of Highelide 1 Healure (MOR, HODULE - Foreignlander 5 (Kar		many of 2MS Servers is Summary of 2MS Hoskules (HDB)	NODULE charmery of IMS		
Configuration editing is enabled. Puture changes will automatically be activisted as you modify, add or delete items in this domain.	Hessages VI charges have been activated. However		changes to take effect.			
Domain Structure	Settings for ForeignServer-1					
Bitrygment	Configuration Subdeployment Notes					
-Servers P-Clusters	General Designations Connection Factories					
- Server Tampitins - Migratole Yangets - Cohemic Quaters - Machines - Witail Horse - Witail Horse		mection factory that resides on an in a different duster or server, or	other server, and which is accessible via 34DL A ren a foreign provider, as that provider supports for this domain.			
-Startup and Shutdown Classes Opployments	© Customize this table					
Services .	Foreign Connection Factories (Filtered	Hore Columns Exist)				
How do L. 🗄	New Datate			Showing 1 to 1 of 1 Previous Next		
Configure foreign servers	👩 Name 🗛 🛛 Lo	cal 2001 Name	Remote JNDI Name			
Onate foreign destinations	MORQON MO	103	MDBQO ⁴			
System Status B	New Dview		Test test	Showing 1 to 1 of 1 Previous Next		



6) Create MDB_QUEUE

View changes and restarts	Home >JMS Modules >MDB. MODULE >ForeionServer-1 >MDB. MODULE >ForeionServer-1 >Summary of Servers >JMS Modules >MDB. MODULE >ForeionServer-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 No	tes				
Domain Structure	General Destinations Connection	Factories				
Environment Servers Clusters Virtual Hosts Wirtual Hosts Coherence Servers Coherence Clusters Coherence Clusters Work Managers Startup and Shutdown Classes Deployments Deployments	directory, and the object will be returne	an be found on a remote server. When this destination is looked up on the I d from that directory. nations that have been created for this domain.	ocal server, a look-up will be performed automatically on the remote JNDI Showing 0 to 0 of 0 Previous Next			
Services D-Messaning	🔲 Name 🗇	Local JNDI Name	Remote JNDI Name			
How do I		There are no items to display				
Configure foreign servers	New Delete		Showing 0 to 0 of 0 Previous Next			
Create foreign connection factories						
System Status						
Health of Running Servers						

Change Center View changes and restarts	🔒 Home Log Out Preferences 📐	Record Help					
View changes and restarts		· · · · · ·		Q	Welcome, w	eblogic	Connected to: pegjn
	Home >MDB_MODULE >Summary of N Modules >MDB_MODULE >ForeignSer			rs >Summary of JMS Servers >Sur	nmary of JMS Modules >MDB_MODULE >Summary of J	45	
Configuration editing is enabled. Future changes will automatically be activated as you	Create a New Foreign JMS Destina	ation					
modify, add or delete items in this domain.	OK						
Domain Structure	Foreign Destination Properties						
⊖-Environment →Servers ⊖-Clusters →Server Templates →Migratable Targets	The following properties will be used * Indicates required fields	to identify your n	new foreign destin	ation.			
Coherence Clusters Machines Virtual Hosts	*Name:	MDB_QUE	UE				
Work Managers Startup and Shutdown Classes	Local JNDI Name:	MDB_QUE	UE				
-Services	Remote JNDI Name:	MDB_QUE	UE				
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	Welcome, weblogic Connected to: pegjms
View changes and restarts	Home >MDB_MODULE >Summar Modules >MDB_MODULE >Foreig	y of Migratable Targets >Summary of Clusters >Summary of JMS Servers >Summary inServer-1 > Configuration	y of JMS Modules >MDB_MODULE >Summary of JMS
Configuration editing is enabled. Future changes will automatically be activated as you	Create a New Foreign JMS De	stination	
modify, add or delete items in this domain. Domain Structure	OK		
	Foreign Destination Prope	rties	
Environment Servers Clusters Gevent remplates Migratable Targets	The following properties will be * Indicates required fields	used to identify your new foreign destination.	
Coherence Clusters Machines Virtual Hosts	* Name:	MDB_QUEUE_RESPC	
Work Managers Startup and Shutdown Classes	Local JNDI Name:	MDB_QUEUE_RESPONSE	
Deployments Services Messaning	Remote JNDI Name:	MDB_QUEUE_RESPONSE	
How do I	O,K Cancel		
Configure foreign servers	OK Cancel		
 Create foreign connection factories 			
Custom Chattan	1		



Change Center	🕜 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: pegin
View changes and restarts	Home >ND8_MODULE >Summary of Mignitable Targets >Sun Modules >ND8_MODULE >ForeignServer-1 >Configuration	many of Quaters >Summary of IMS Servers >Summ	ry of JMS Nodules >MOB_MODULE >Summary of JMS
Configuration editing is enabled. Puture changes will automatically be activated as you modify, add or delete items in this domain.	Hessages All changes have been activated. However 1 items mus	at be restarted for the changes to take effect.	
Domain Structure	Settings for ForeignServer-1		
B Environment	Configuration Subdeployment Notes		
-Servers E B-Ousters	General Destinations Connection Factories		
- Coherence Clusters - Machines - Virtual Hosts	JPDI directory, and the object will be returned from that This page summarizes the foreign destinations that have		
Machines			
Machines Hirbuil Hosts Hirbuil Hosts Surfuge and Shutdown Classes Deployments Provides Services	This page summarizes the foreign destinations that have © Customize this table		Showing 1 to 2 of 2 Previous Next
Machines Michael Nots Michael Nots Michael Nutdown Classes Deployments Provices Configure foreign servers	This page summarizes the foreign destinations that have © Customize this table Foreign Destinations		Showing 1 to 2 of 2 Previous Next Remote JNDI Name
Machines - Winuel Hosts - Work Managers - Startup and Shutdown Classes - Deployments - Services - Riversance	This page summarizes the foreign destinations that have Customize this table Foreign Destinations	been created for this domain.	and a second sec
Machines Minute Hosts Work Managers Startup and Shutdown Classes Services Services Services Ordepumentation Kow do L. Configure foreign servers Create foreign connection factories	This page summarizes the foreign destinations that have Customize this table Foreign Destinations New Coloria Hame &	been created for this domain.	Remote JIIDI Name

ORACLE WebLogic Server Administration Console 12c A Home Log Out Preferences Record Help Welcome, weblogic Connected to: pegime Change Center Home >ND8_MODULE >Summary of Migratable Targets >Sun Modules >ND8_MODULE >ForeignServer 1 >Configuration of Chatters ki FADB_NODULE>Sum ary of 3MS View changes and restarts 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 Destination OK Cancel Domain Structure **Foreign Destination Properties** . . Briving ment
 Servers
 Server Templates
 Magnatable Targets
 Madaves
 Madaves The following properties will be used to identify your new foreign destination. * Indicates required fields * Name: MDB_QUEUE_DLQ --Virtual Hosta --Work Managers --Startup and Shutdown Classes Local JNDI Names MDB_QUEUE_DLQ Deployments B-Services B-Metsanion Remote JNDI Name: MDB_QUEUE_DLQ . How do L. - E OK Cancel Configure foreign servers

Change Center	A Home Log Out Preferences 🐼 Record Help	Q	Welcome, weblogic Connected to: pegin
View changes and restarts	Home >MDB_MODULE >Summary of Highstable Targets Modules >MDB_MODULE >ForeignServer 1 > Coeffigure	sSurinary of Outers >Summary of 2HS Servers >Summa dise	ry of 3HS Modules >MDB_MODULE >Summary of 3HS
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Messages All changes have been activated. However 1 item		
Domain Structure	Settings for ForeignServer-1		
B-Enveronment	Configuration Subdeployment Notes		
-Severs a	General Destinations Connection Factories		
Server Templates Migratable Targets			in the local server, a look up will be performed automatically on the remote
	A foreign destination (topic or queue) can be found 3kDI directory, and the object will be returned from This page summarizes the foreign destinations that I () Customize this table Foreign Destinations	that directory.	n the local server, a look up will be performed automatically on the remote
Migratable Targets Coherence Clusters Modified Modifi	2001 directory, and the object will be returned from This page summarizes the foreign destinations that I @ Customize this table Foreign Destinations	that directory.	in the local server, a look up will be performed automatically on the remote Showing 1 to 3 of 3 Previous Next
How do L. Configure foreign servers	2001 directory, and the object will be returned from This page summarizes the foreign destinations that I @ Customize this table Foreign Destinations	that directory.	
How do L. Configure foreign servers	PIDI directory, and the object will be returned from This page summarizes the foreign destinations that I Customize this table Foreign Destinations	that directory.	Showing I to J of J Previous Next
Migratable Targets Coherence Clusters Modules Work Managers Startup and Shutdown Classes Deployments Services Detection New do L.	PDI directory, and the object will be returned from This page summarizes the foreign destinations that I Customize this table Foreign Destinations New, Destinations New, Destinations New, Destinations New, Destinations	that directory. have been created for this domain.	Showing 1 to 3 of 3 Previous Next Remote JNDI Name

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



7. Application Deployment

1) Deploy the EAR with Target as Cluster-App

Change Center	Home Log Out P	references 🔤 Record H	lelp		9					Welcome, weblog	ic Connected to: bas	e_dom
View changes and restarts	Home >JMS Modules >	MDB_MODULE >ForeignSen	ver-1 >JMS Moo	dules >Sumr	nary of Dep	oyments >S	iummary of Serv	ers >Sum	mary of Deployments >	Summary of Servers >Summary of	Deployments >GWMDI	в
Configuration editing is enabled. Future changes will automatically be activated as you	Settings for GWMDB											
nodify, add or delete items in this domain.	Overview Deploym	ent Plan Configuration	Security	Targets	Control	Testing	Monitoring	Notes				
Domain Structure	startup time.		instances and	clusters to	which you	want to de	ploy this Enter	prise app	lication. These setting	is determine where the applicat		
Migratable Targets	Change Targets									Showing	1 to 1 of 1 Previous	Next
Coherence Servers	Component of	~			Туре					Current Targets		
Machines Work Managers	GWMDB				Enterpri	se Applicat	ion			Cluster-App		
Startup and Shutdown Classes	GW_MDB_I	Bean.jar			EJB					(None specified)		
Deployments Services D-Messaning	Change Targets									Showing	1 to 1 of 1 Previous	Next
ow do I Ξ												
Start and stop a deployed Enterprise application												

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



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

	Adm	ninist	tration Console					õ		
Change Center	1	🔒 Ho	ome Log Out Preferences 🔤 Record Help	Q			Welcome, wel	ologic Connected to: base_domain		
View changes and restarts	1.	Home	Summary of Deployments							
Configuration editing is enabled. Future changes will automatically be activated as you	5	Summary of Deployments								
modify, add or delete items in this domain.		Cont	rol Monitoring							
Domain Structure ⊕ -Environment ⊕ -Depoyments ⊕ -Services ⊕ -Services ⊕ -Services ⊕ -Toragnostics	I .	(red To i Cus	deployed), or deleted from the domain by first se	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 ca	n be started, stopped, updated		
			stall Update Delete Start v Stop v				Sho	wing 1 to 5 of 5 Previous Next		
			Name 🐵		State	Health	Туре	Deployment Order		
			E FCUBSApp (12.0.3.0)		Active	🖋 ок	Enterprise Application	100		
How do I 😑			E GWEJB		Active	🖋 ок	Enterprise Application	100		
Install an Enterprise application Configure an Enterprise application			E GWMDB		Active	A Warning	Enterprise Application	100		
Update (redeploy) an Enterprise application			1)dx-rs(1.1,1:9)		Active		Library	100		
 Start and stop a deployed Enterprise application 			E SWEB		Active	🖋 ок	Enterprise Application	100		
 Monitor the modules of an Enterprise application 		Ins	stall 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
- 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-1 >Configure	ation >MDBQCF >JMS Modules >	JMS_MODULE >MDB	_QUEUE >Summary of JMS Messages >JMS M	odules >JMS_MODULE >MDB_QUEUE	
Configuration editing is enabled. Future	Settings for MDB_QUEUE					
changes will automatically be activated as you modify, add or delete items in this domain.	Configuration Security Mor	nitoring Subdeployment	Notes			
Domain Structure	destination.	ed queue's message managen		I queue. Click on the individual member de e check box next to its name, and then cli		manage the messages on that
Work Managers	Show Messages				1	Showing 1 to 2 of 2 Previous Next
Startup and Shutdown Classes	🔲 Name 🐟			Consumers Current	Consumers High	Consumers Total
-Services -Messaging -	JMS_MODULE!JMSServer-	1@MDB_QUEUE		64	64	64
	JMS_MODULE!JMSServer-	2@MDB_QUEUE		64	64	64
How do I Image distributed queue messages • Manage distributed queue messages • Configure uniform distributed queues	Show Messages					Showing 1 to 2 of 2 Previous Next

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.				e subscriber. Use this page to view message detai r file, import XML formatted message contents fr	
Domain Structure	messages from a destination.	another desunation, export message	contents in AML format to anothe	r nie, import XML formatted message contents fro	om another nie, of drain all the
Environment	Click on a message to view its contents				
Clusters Virtual Hosts Nigratable Targets Coherence Envers Coherence Clusters Vachines Vachines Startup and Shutdown Classes	Message Selector:	nne Evict)		Apply	
Deployments Services					
- Messaning	New Delete V Move V Impo	t 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 dis	play	
Manage distributed queue messages Manage topic durable subscribers	New Delete V Move V Impo	rt Export -			Showing 1 to 0 of 0 Previous Next
System Status					
System Status					



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

Change Center			reccome, replogie connected to: base_domain
View changes and restarts	Home >Configuration >MDBQCF >JMS Modules >JMS_MOD	DULE >MDB_QUEUE >Summary of JMS Messages >JMS Mod	ules >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		
Domain Structure	JMS Message		
-Environment	The following properties will be used to produce a JM:	5 message.	
Servers Clusters	Туре:		
Virtual Hosts Migratable Targets Coherence Servers	Correlation ID:		
Coherence Clusters Machines Work Managers	Expiration:		
Startup and Shutdown Classes	Priority:	4 •	
È-Services È-Messaninn ▼	Delivery Mode:	Persistent •	
How do I	Delivery Time:	-1	
Manage queue messages			
Manage distributed queue messages	Redelivery Limit:	-1	
 Manage topic durable subscribers 			
System Status	Body:		
Health of Running Servers			
Failed (0)			
Critical (0)			
Overloaded (0)	I.		

4) Message is Sent

change center									
View changes and restarts	Home >Configuration >MDBQCF >JMS Modules >JMS_MC	DULE >MDB_C	QUEUE >Summary of JMS Messages >JMS Module	es >JMS_MODULE >MDB_QUEL	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, 	MS message sent successfully.							
	Summary of JMS Messages								
Domain Structure									
Environment Servers Clusters Wirtual Hosts Migratable Targets Coherence Servers	This page summarizes the available messages for a selected messages, move messages to another dest messages from a destination. Click on a message to view its contents.	stand-alone q ination, expor	ueue, a distributed queue, or a topic durable t message contents in XML format to anothe	e subscriber. Use this page to r file, import XML formatted i	view message details, create new message contents from another file	messages, delete a, or drain all the			
Coherence ClustersMachinesWork ManagersStartup and Shutdown ClassesDeployments	Message Selector:			Apply					
Ė-Services	Customize this table					, , , , , , , , , , , , , , , , , , ,			
-Messaging *									
	JMS Messages (Filtered - More Columns Exist)								
How do I 🖃	New Delete V Move V Import Export	~			Showing 1 tr	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 ~ Move ~ Import Export	~			Showing 1 to	to 1 of 1 Previous Next			
Health of Running Servers									
Failed (0) Critical (0)									

5) Verify at backend or in the MDB log if the message is processed successfully.



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

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

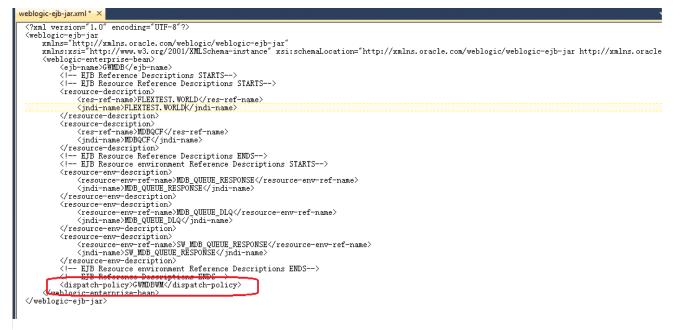
The solution is to create a work manager with a max threads constraint and assign the proxy services dispatch policy to this work manager.

Steps to create custom work manager

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

8.6.1 Modify weblogic-ejb-jar.xml

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

WEDLOGIC SEIVER AU	Initiation Console 120			
Change Center	🏦 Home Log Out Preferences 🔤 Record Help		Q	Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home >Summary of Work Managers >MaxThreadsConstrain	t-0 >Summary of Work Mar	nagers >WorkManager-0 >Summary of Work Managers >MaxThreadsCon	straint-0 >Summary of Servers >Summary of
No pending changes exist. Click the Release Configuration button to allow others to edit	Environment >Summary of Servers >Summary of Work M Create a New Work Manager Component	lanagers		
the domain.	Back Next Finish Cancel			
Lock & Edit				
Release Configuration	Select Work Manager Definition type			
Domain Structure	What type of Work Manager, Request Class or Constr	aint do you want to creat	te?	
FCUBSDomain	Work Manager			
Servers	Response Time Request Class			
ClustersCoherence Clusters				
Machines	Fair Share Request Class			
Virtual Hosts Work Managers	Context Request Class			
Startup and Shutdown Classes	Maximum Threads Constraint			
Deployments Services				
Security Realms	Minimum Threads Constraint			
Interoperability Diagnostics	Capacity Constraint			
How do I				
Create application-scoped constraints	Back Next Finish Cancel			
Create application-scoped request classes				
ORACLE WebLogic Server Adr	ninistration Console 12c			ð
Change Center	î Home Log Out Preferences 🔤 Record Help		Q	Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home >Summary of Work Managers >MaxThreadsConstrai	nt-0 >Summary of Work Ma	nagers >WorkManager-0 >Summary of Work Managers >MaxThreadsCon	l.
No pending changes exist. Click the Release	Environment >Summary of Servers >Summary of Work I	fanagers		
Configuration button to allow others to edit the domain.	Create a New Work Manager Component			
Lock & Edit	Back Next Finish Cancel			
Release Configuration	Work Manager Properties			
Demain Structure	The following properties will be used to identify your	new Work Manager.		
Domain Structure FCUBSDomain	* Indicates required fields			
Environment				
EServers	What would you like to name your new Work Manager			
Coherence Clusters	* Name: GWMDBWM			
Virtual Hosts				
Work Managers Startup and Shutdown Classes	Back Next Finish Cancel			
Deployments				
Services Security Realms				
-				
Change Center	🏦 Home Log Out Preferences 🔤 Record Help		٩	Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home >Summary of Work Managers >MaxThreadsConstrain Environment >Summary of Servers >Summary of Work N		nagers >WorkManager-0 >Summary of Work Managers >MaxThreadsCons	straint-0 >Summary of Servers >Summary of
No pending changes exist. Click the Release Configuration button to allow others to edit	Create a New Work Manager Component	lanagers		
Lock & Edit	Back Next Finish Cancel			
Release Configuration	Select deployment targets			
		ol onic Server instances o	or Clusters. Select the same targets on which you will deploy applica	ations that reference the Work Manager
Domain Structure		server matures o		the reserve the work hanager
FCUBSDomain	Available targets :			
Servers Clusters	-			
Coherence Clusters	Servers		-	
Machines Virtual Hosts	AdminServer			
Work Managers	Clusters		_	
Startup and Shutdown Classes			-	
Services	Cluster-App All servers in the cluster			
			-	
Diagnostics	Cluster-JMS			
How do I 😑	All servers in the cluster			
Create application-scoped constraints	Back Next Finish Cancel			
Create application-scoped request classes				
Create application-scoped Work Managers				1



	dministration Console 12c		<u> </u>									
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: FCUBSDomain									
View changes and restarts		Home >Summary of Work Managers >MaxThreadsConstraint:0 >Summary of Work Managers >WorkManager-0 >Summary of Work Managers >MaxThreadsConstraint:0 >Summary of Servers >Summary of Work Managers										
Pending changes exist. They must be activated to take effect.	Messages	Aessages										
Activate Changes												
Undo All Changes	Summary of Work Managers											
Domain Structure FCU850main G-Environment G-Clusters Coherence Clusters Machines Work Managers Startup and Shutdown Classes	and thread constraints defined for this domain.	el. You can also define application-level and module-level V	ic Server instances. This page displays the global Work Managers, request classes ork Managers. Showing 1 to 1 of 1 Previous Next									
Deployments	🔲 Name 🗞	Туре	Targets									
Security Realms	GWMDBWM	Work Manager	Cluster-App									
Diagnostics	New Clone Delete		Showing 1 to 1 of 1 Previous Next									
How do I												
Create application-scoped constraints												

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

WebLogic Server Aam	inistration Console 120			\sim
Change Center	🟦 Home Log Out Preferences 🖂 Record Help	٩	Welcome, weblogic	Connected to: FCUBSDomai
View changes and restarts	Home >Summary of Work Managers >MaxThreadsConstraint-C Environment >Summary of Servers >Summary of Work Mar		ary of Work Managers >MaxThreadsConstraint-0 >Summary of Serve	rs >Summary of
Pending changes exist. They must be activated to take effect.	Create a New Work Manager Component	-		
Activate Changes Undo All Changes	Back Next Finish Cancel			
Domain Structure	What type of Work Manager, Request Class or Constrain	nt do you want to create?		
FCUBSDomain	🔘 Work Manager			
	Response Time Request Class			
Machines Virtual Hosts	Fair Share Request Class			
Work Managers Startup and Shutdown Classes	Context Request Class			
Deployments	Maximum Threads Constraint			
	Minimum Threads Constraint			
How do I	Capacity Constraint			
Create application-scoped constraints	Back Next Finish Cancel			
Create application-scoped request classes				
Create application-scoped Work Managers				

Change Center	🏦 Home Log Out Preferences 🖾 Record Help				
View changes and restarts	Home > Summary of Work Managers >MaxThreadcOnstraint to > Summary of Work Managers > WorkManager-0 > Summary of Work Managers > MaxThreadsConstraint-0 > Summary of Summary of Work Managers > WorkManagers > WorkManage				
Pending changes exist. They must be activated to take effect.	Create a New Work Manager Component				
Activate Changes	Back Next Finish Cancel				
Undo All Changes	Maximum Threads Constraint Properties				
Domain Structure	The following properties will be used to identify your new Max Threads Request Class.				
FCUBSDomain	* Indicates required fields				
Servers	What would you like to name the new Maximum Threads Constraint?				
Coherence Clusters Machines Virtual Hosts	* Name: MaxThreadsConstraint-0				
Work Managers Startup and Shutdown Classes	What is the maximum number of concurrent threads to allocate for requests? Enter either a fixed thread count or the name of a Data Source whose size will be used for the constraint.				
Deployments	Count: 25				
	Data Source:				
How do I	Back Next Finish Cancel				
Create annlication-scoped constraints					



Hestogio ocitei Au	mmaduuun console 126		\sim					
Change Center	î Home Log Out Preferences 🛃 Record Help	٩	Welcome, weblogic Connected to: FCUBSDomain					
View changes and restarts	Home >Summary of Work Managers >MaxThreadsConstraint-0 >Summary of Work Managers >WorkManager-0 >Summary of Work Managers >MaxThreadsConstraint-0 >Summary of Servers >Summary of Work Managers							
Pending changes exist. They must be activated to take effect.	Create a New Work Manager Component							
Activate Changes	Back Next Finish Cancel							
Undo All Changes	Select deployment targets							
Domain Structure	You can target the Work Manager to any of these WebLogic Server instances or Clusters. Select the same targets on which you will deploy applications that reference the Work Manager.							
FCUBSDomain	Available targets :							
Coherence Clusters	Servers							
Virtual Hosts	AdminServer							
Startup and Shutdown Classes	Clusters							
Deployments Services								
Security Realms	Cluster-App All servers in the cluster							
⊕-Interoperability								
	Cluster-JMS							
	All servers in the cluster							
Create application-scoped constraints								
Create application-scoped request classes Create application-scoped Work Managers	Back Next Finish Cancel							
Change Center	Anne Log Out Preferences Preferences Prefere	Q	Welcome, weblogic Connected to: FCUBSDomain					
View changes and restarts	Home >Summary of Work Managers >MaxThreadsConstraint-0 >Summa Environment >Summary of Servers > Summary of Work Managers	ary of Work Managers >WorkManager-0 >Summary of Work Managers >N	MaxThreadsConstraint-0 >Summary of Servers >Summary of					
Pending changes exist. They must be activated to take effect.	Messages							
Activate Changes	S Maximum Threads Constraint created successfully							
Undo All Changes	Summary of Work Managers							
FCUBSDomain FCUBSDomain FCUBSDomain Fcuvronment F-Environment F-Servers	A Work Manager defines a set of request classes and thread constraints that manage work performed by WebLogic Server instances. This page displays the global Work Managers, request classes and thread constraints defined for this domain. Global Work Managers are defined at the domain level. You can also define application-level and module-level Work Managers.							
ClustersCoherence ClustersMachines								
·Virtual Hosts	Global Work Managers, Request Classes and Constraints							
	New Clone Delete Showing 1 to 2 of 2 Previous Next							
Deployments								
Services Security Realms	Name 🗞	Туре	Targets					
Interoperability	GWMDBWM	Work Manager	Cluster-App					
Diagnostics T	MaxThreadsConstraint-0	Maximum Threads Constraint	Cluster-App					
How do I 😑	New Clone Delete Showing 1 to 2 of 2 Previous Next							
Create application-scoped constraints								

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

View changes and restarts	Home - Handbandbandbandbandbandbandbandbandbandb					
Pending changes exist. They must be activated to take effect.	Settings for GWMD8WM					
Activate Changes	Configuration Targets Notes					
Undo All Changes	[See.]					
Dosain Structure PCUEComain Cutern Cutern	Use this page to define the request classes and constraints for the selected global Work Manager.					
	Name:	(No value specified)	The user-specified name of this MBean instance. Here Info			
	de Request Class:	(None configured) (None configured)	A request class associated with this Work Manager. This may be a FairShareRequestClass, ResponseTimeRequestClass, or a ContextRequestClass. Here brfa			
	🕼 Hinimum Threads Constraint:	(None configured) • [Ress]	The minimum number of threads allocated to resolve deadlocks. Here info.			
	🛞 Maximum Threads Constraint:	(None configured) • [New]	The maximum number of concurrent threads that can be allocated to execute requests. Here Info			
in Disconstances	Capacity Constraint:	(None configured) • New	The total number of requests that can be queued or executing before WebLogic Server begins rejecting requests. Place Info			
Create application-scoped constraints Create application-scoped veguest classes Create application-scoped Visirk Managers Create global request classes Create global request classes Create global request classes	Stuck Thread Action:	Use server default behavior	Specify how stuck threads should be detected, and what action to take should they occur. Hore brio			
	Max Stock Thread Time:	0	. This after which a containing thread is declared as stark. Here ${\rm Info}_{-}$			
	Stuck Thread Count:	0	Here of which threads after which the Weithburger's shallows. Here $p_{0}\rho_{m}$			
ystem Status 🛛 🗎	Se Resume When Unstack		Motion is made with range one fie shall break use shared. Here			
Health of Running Servers	Seve					



WebLogic Server Ad	dministration Console 12c					
Change Center	A Home Log Out Preferences 🐼 R	ecord Help		Welcome, weblogic Connected to: FCUBSDom		
Vew changes and restarts	Home sHartTreadsContraint-0 - Summary of Work Managers - WorkManager-0 - Summary of Work Managers - HartTreadsContraint-0 - Summary of Servers - Summary of Environment - Summary of Servers - Summary of Work Monagers - SWMDDIWH					
Pending changes exist. They must be activated to take effect.	Settings for GWHDBWH					
Activate Changes	Configuration Targets Notes					
Undo All Changes	Save					
Domain Structure						
FCUBSDomain -	Use this page to define the request classes and constraints for the selected global Work Manager.					
Converse Service Coherence Ousters Coherence Ousters Coherence Ousters Nork Nanagers Vork Nanagers Service Service Security Realims Interopenability Theocontrus New do LE	Name:	(No value specified)		The user-specified name of this MBean instance. More Info		
	Request Class:	(None configured) • [Hew]		A request class associated with this Work Nanager. This may be a FairShareRequestClass, ReponseTimeRequestClass, or a ContextRequestClass. Hore Info		
	👩 Minimum Threads Constraint:	(None configured) + Hew		The minimum number of threads allocated to resolve deadlocks. More befor-		
	de Haximum Threads Constraint:	MaxThreadsConstraint-0 • Mex	כ	The maximum number of concurrent threads that can be allocated to execute requests. Hore Info		
	👩 Capacity Constraint:	(None configured) * tiese		The total number of requests that can be queued or executing before WebLopic Server begins rejecting requests. More Info		
Create application-scoped constraints Create application-scoped request classes Create application-scoped Work Managers Create global constraints Create global request classes Create global work Managers	B Stuck Thread Action:	Use server default behavior		Specify how stuck threads should be detected, and what action to take should they accur. More $\inf_{t \to \infty}$		
	Max Slack Thread Time:	0		True which which is even string thread is declared as stards. Here $lefs_{-}$		
	Stuck Thread Count:	0		Norther of stack threads after which the broad-basegor is all abless. Here, $bdes_{res}$		
System Status	2 Resame When Unitsch			Multiple to summe with manager and the shall be and seen downed. Here before		
Health of Running Servers						
Failed (0)	Save					

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.
- 4) DB Server:

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



8.8 How to setup for Scheduler/Notifications

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

8.9 What other modules uses JMS Queue's

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

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

8.10 References

Resource To Be Created





Configuring JMS on Weblogic Server 12c [May] [2024] Version 14.7.4.0.0

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