Configuring JMS on Weblogic Server 12c Oracle FLEXCUBE Universal Banking Release 12.5.0.0.0 [September] [2017]



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1. Introduction

1.1 Purpose

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

- 1) FCUBS 12.1
- 2) WebLogic Server 12.1.3.0.0

1.2 Introduction

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

JMS Server

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

JMS Module

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

Subdeployment

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

JMS Resources

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

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

Persistence store

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

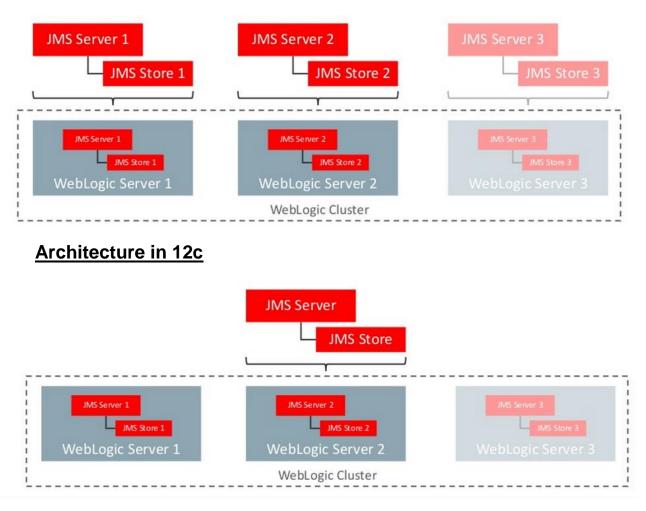
- 1) File based persistence store -> Message is stored in a file
- 2) DB based persistence store -> Message is stored in Database.

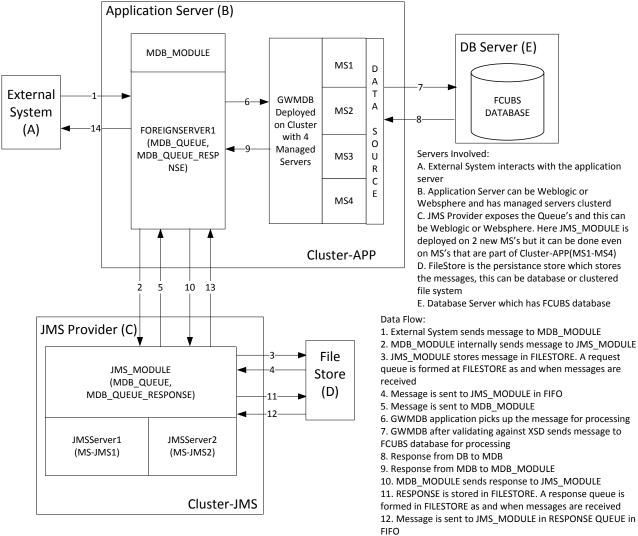
1.3 Weblogic 12c New Features

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

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

Architecture previous to 12c





1.4 Components Diagram & Data Flow

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

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

2. Pre-Requisites

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

2.1 <u>Machines</u>

MAC-1 & MAC-2

ORACLE WebLogic Server Ad	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 instances (servers). WebLogic Server uses configured machine names to determine the optimum server in a cluster to which certain tasks, such as HTTP session replication, are delegated. The Administration Server uses the machine definition in conjunction with Node Manager to start remote servers.				
🛱 - Environment	This page displays key information about each machine that has been configured in the current WebLogi	c Server domain.			
Servers					
Coherence Clusters	Customize this table				
Machines					
Virtual Hosts	Machines				
Work Managers Startup and Shutdown Classes	New Clone Delete	Showing 1 to 2 of 2 Previous Next			
Deployments					
E -Services	🔲 Name 🗞	Туре			
Security Realms Description:	MAC-1	Machine			
The operability The Diagnostics The Diagnostics	 MAC-2	Machine			
How do I	New Cone Delete	Showing 1 to 2 of 2 Previous Next			
Create and configure machines					
 Assign server instances to machines 					

2.2 Dynamic Clusters and Managed Servers

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

	dministration Console	12c						Ĕ
Change Center	Home Log Out	Preferences 🔤 Re	cord Help	٩			Welcome, weblogic Co	onnected to: FCUBSDoma
View changes and restarts		ome > Summary of Servers > Summary of Clusters > Summary of Server Templates > Summary of Clusters > Summary of Servers > Summary of Clusters > Summary of Server Templates > Summary of Clusters > Summary of Server Servers > Summary of Clusters > Summary of Server Servers > Summary of Server Servers > Summary of Server						
Click the Lock & Edit button to modify, add or delete items in this domain. Lock & Edit	Messages	ve been activated. No	o restarts are necessary.					
Release Configuration	Summary of Clusters							
Domain Structure	This page summa	izes the dusters that	have been configured in the cu	rrent WebLogic Serv	er domain.			
Environment Servers	A duster defines	A cluster defines groups of WebLogic Server servers that work together to increase scalability and reliability.						
⊖-Clusters Server Templates Migratable Targets ≡	Customize this	table d - More Columns	Exist)					
Coherence Clusters Machines	_		ange Center to activate all the b	uttons on this page.				
Virtual Hosts Work Managers Startup and Shutdown Classes	New Clone Delete Showing 1 to 2 of 2 Previous Next							
Deployments	🔲 Name 🐟	Cluster Address	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
Configure dusters 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-cluster replication Create dynamic dusters	New ~ Clor	e Delete					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: FCUBSDon
View changes and restarts	Home >Summary of Server Temp Clusters >Summary of Servers	lates >Summary of Clusters >Sum	mary of Servers >Summary	of Clusters >Summary o	f 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. Lock & Edit Configuration Control							
Release Configuration	A server is an instance of WebLogic Server that runs in its own Java Virtual Machine (JVM) and has its own configuration.						
This page summarizes each server that has been configured in the current WebLogic Server domain. This page summarizes each server that has been configured in the current WebLogic Server domain. Control Content							
Virtual Hosts Work Managers Startup and Shutdown Classes Deployments Services						owing 1 to 7 of 7 Previous Next	
Security Realms	Name ↔	Туре	Cluster	Machine	State	Health	700.1
ow do I 🖂	AdminServer(admin)	Configured Dynamic	Cluster-App	MAC-1	RUNNING	✓ OK Not reachable	7101
Create Managed Servers	DC_FCUBS_2	Dynamic	Cluster-App	MAC-1 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
ealth 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®	Idministration Console	Q		
Change Center	🛍 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: base_domain		
View changes and restarts Home >MS Modules >JMS_MODULE >MDB_QUEUE >Summary of JMS Messages >JMS M				
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Summary of JDBC Data Sources Configuration Monitoring			
Domain Structure	A JDBC data source is an object bound to the JNDI tree that provides database connectivity through a pool of JDBC con 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)	nnections. Applications can look up a data source on the JNDI tree and then		
Work Contexts	New - Delete	Showing 1 to 3 of 3 Previous Next		
XML Registries XML Entity Caches	🖸 Name 🔅 Type JNDI Name	Targets		
-jCOM -	FLEXTEST.WORLD Generic FLEXTEST.WORLD	Cluster-App		
11	idhe/feidauDC Canarie idhe/feidauDC	AdminEsseer		

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	Q	Welcome, weblogic Connected to: pegjms			
View changes and restarts Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Home >Summary of Servers >Summary of Persistent Stores Messages © Create operation cancelled - no file store created.					
	Summary of Persistent Stores					
Domain Structure CONTENS Coherence Clusters -Machines -Virtual Hosts -Virtual Hosts -Startup and Shutdown Classes -Startup	A persistent store is a physical repository for storing subsyste file, or replicated memory storage. This page summarizes the Customize this table Persistent Stores					
Data Sources	New - Delete		Showing 0 to 0 of 0 Previous Next			
Persistent Stores Foreign JN / Providers	🔲 Name 🏟	Туре	Target			
XML Registries	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	onnected 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.						
	Summary of Persistent Stores					
Domain Structure		tory for storing subsystem data, such as per is page summarizes the persistent stores tha	istent JMS messages. It can be a JDBC-accessible databas t have been created for this domain.	e, disk-based		
Messaging Data Sources	New v Delete		Showing 0 to 0 of 0	Previous Next		
Persistent Stores Foreign JNDI Providers Work Contexts	Create FileStore	Туре	Target			
XML Registries	Create ReplicatedStore (Exalogic)	There are no item	s to display			
How do I	New V Delete		Showing 0 to 0 of 0	Previous Next		
Create File Stores						

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

	ministration Console 12	c			Q
Change Center	Home Log Out Pre	ferences 📐 Record Help	٩	Welcome, weblogic Conne	ected to: FCUBSDomain
View changes and restarts	Home >Summary of Clu of Persistent Stores	sters >Summary of Servers >Sun	nmary of Clusters >Summary of Servers	Summary of Clusters >Cluster-JMS >Summary of Servers >Summary of Clusters >Summary of	f Servers > Summary
No pending changes exist. Click the Release Configuration button to allow others to edit the	Create a New File Sto	re			
domain. Lock & Edit Release Configuration	OK Cancel File Store Properti	es will be used to identify your	new file store		
Domain Structure	* Indicates required fiel				
Environment Servers Clusters Server Templates University	What would you like to * Name:	name your new file store? FileStore-1			
Coherence Clusters	Select a server instance	e for this file store.			
Virtual Hosts Work Managers	Target:	Cluster-JMS 💌			
LStartup and Shutdown Classes	The pathname to the d	irectory on the file system when	re the file store is kept. This directory	nust exist on your system, so be sure to create it before completing this tab.	
-Services -Messaninn -	Directory:	/scratch/work_area/J	MS_FILESTORE]	
How do I 😑	OK Creat				
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 >Su of Persistent Stores	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			
Lock & Edit	All changes have been activated. No restarts are	necessary.		
Release Configuration	Summary of Persistent Stores			
Domain Structure Servers Custers Custers Coherence Clusters Machines Wathines Wathines	A persistent store is a physical repository for storing summarizes the persistent stores that have been or Customize this table Persistent Stores Click the Lock & Editbutton in the Change Center 1	eated for this domain.	es. It can be a JDBC-accessible database, disk-based file, or replicated	I memory storage. This page
Work Managers Startup and Shutdown Classes	New v Delete		Showing	g 1 to 1 of 1 Previous Next
Deployments Services 	🗌 Name 🌣	Туре	Target	
Data SourcesPersistent Stores	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

	dministration Console 12c	Q			
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: pegjms			
View changes and restarts Configuration editing is enabled. Future	Home > Summary of Servers > Summary of Persistent Stores > Summary of JMS Servers Messages				
changes will automatically be activated as you modify, add or delete items in this domain.	Create operation cancelled - no JMS Servers created.				
Domain Structure	Summary of JMS Servers				
Environment Servers Observers Coherence Clusters Virbal Hosts	JMS servers act as management containers for the queues and topics in JMS modules that are targeted to them. This page summarizes the JMS servers that have been created in the current WebLogic Server domain.				
Work Managers Startup and Shutdown Classes	JMS Servers (Filtered - More Columns Exist)				
Deployments	Nw Delete	Showing 0 to 0 of 0 Previous Next			
E-Services	Image: Name ↔ Persistent Store Target Current	t 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 He	elp Q	Welcome, weblogic Connected to: FCUBSDoma
View changes and restarts	Home >Summary of Servers >Summary of Clusters Stores >Summary of JMS Servers	s >Summary of Servers >Summary of Clusters >Cluster	-JMS >Summary of Servers >Summary of Clusters >Summary of Servers >Summary of Persistent
No pending changes exist. Click the Release Configuration button to allow others to edit the	Create a New JMS Server		
domain.	Back Next Finish Cancel		
Release Configuration	JMS Server Properties		
Domain Structure	The following properties will be used to identify * Indicates required fields	your new JMS Server.	
EnvironmentServers =	What would you like to name your new JMS Serv	ver?	
	🎳 * Name:	JMSServer-1	
Coherence Clusters Machines	Specify persistent store for the new JMS Server		
Virtual Hosts Work Managers	Persistent Store:	FileStore-1 Create a New Store	
Startup and Shutdown ClassesDeploymentsServices	Back Next Finish Cancel	(none) FileStore-1	
- Messaning -			

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

	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 >Summary of Clusters >Summary of Servers >Summary of Clusters >Cluster-JMS >Summary of Servers >Si Stores >Summary of JMS Servers	Summary of Clusters >Summary of Servers >Summary of Persistent
No pending changes exist. Click the Release Configuration button to allow others to edit the	Create a New JMS Server	
domain.	Back Next Finish Cancel	
Release Configuration	Select targets	
Domain Structure	Select the server instance or migratable target on which you would like to deploy this JMS Server.	
Environment Servers Ousters Ousters Ousters Ousters	Target: (none) Back Next Fnish Cancel Cluster-App Cluster-JMS	

	dministration Console 12c		Q
Change Center	Home Log Out Preferences	Record Help	Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home >Summary of Servers >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	ver.
Domain Structure	Target:	Cluster-JMS 💌	
Environment Servers Clusters Server Templates Wirestable Tensets	Back Next Finish	Cancel	

4) JMS-Server-1 is created

hange Center		A Home Log Out Preferences	s 🔤 Record Help	Q	Welcom	e, weblogic Connected to: FCUBSDon			
View changes and restarts		Home >Summary of Servers >Su Stores >Summary of JMS Servers		Summary of Clusters >Cluster-JMS >Summ	nary of Servers >Summary of Clusters >Summary of	Servers >Summary of Persistent			
Click the Lock & Edit button to modify, add delete items in this domain.	or	Messages							
Lock & Edit		All changes have been active	vated. No restarts are necessary.						
Release Configuration		Summary of JMS Servers							
Domain Structure		JMS servers act as manageme	ent containers for the queues and topics in	n JMS modules that are targeted to the	m.				
Environment Servers Clusters	^	This page summarizes the JMS servers that have been created in the current WebLogic Server domain.							
Server Templates Migratable Targets	=								
Coherence Clusters Machines		JMS Servers (Filtered - More Columns Exist)							
Virtual Hosts Work Managers		Click the Lock & Edit button in	n the Change Center to activate all the b	uttons on this page.					
		New Delete				Showing 1 to 1 of 1 Previous Next			
Services		🔲 Name 🗞	Persistent Store	Target	Current Target	Health			
JMS Servers	-	JMSServer-1	FileStore-1	Cluster-JMS	Cluster-JMS				
low 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 🔛 R	ecord Help	Q	Welcom	e, weblogic Connec	ted to: pegjms	•		
View changes and restarts	Home >Summary of Servers >Summary of Penistent Stones >Summary of JMS Servers >Summary of Clusters >Summary of Mgratable Targets >Summary of Clusters >Cluster-3MS >Summary of Mgratable Targets >Summary of Clusters									
Configuration editing is enabled. Puture changes will automatically be activated as you modify, add or delete items in this domain.	Summary of Clusters									
Domain Structure	omain Structure This page summarizes the clusters that have been configured in the current WebLogic Server domain.									
8-Environment	A duster defines groups of WebLogic Server servers that work together to increase scalability and reliability.									
Cohe Cousters	Customize this table									
Machi Chusters, Level 2, Collapsed, 2 of 7, Wrtuar roma	, selected	Itered - More Column	(Exist)							
-Work Managers	New v	Clone Delete	-		94	wing 1 to 2 of 2 Prev	ious Next			
-Startup and Shutdown Classes -Deployments	🖾 Name	🔅 Cluster Address	Cluster Hessaging Hode	Higration Basis	Default Load Algorithm	Replication Type	Cluster Bri			
Services Security Realms Poteroperability Characteria	🗄 Ouste	-400	Unicast	Detabase	Round Robin	(tione)				
How do L. B	🗄 Ouster	. 3 6	Unicast	Database	Round Robin	(None)				

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

2) Click on Migration Tab

Change Center	🚹 Home	Log Ou	it Preferences	s 📐 Reco	ord Help		Q			Welcon	ne, weblogic	Connecte	ed to: pegjm
View changes and restarts		Home >Summary of Servers >Summary of Persistent Stores >Summary of JMS Servers >Summary of Clusters >Summary of Migratable Targets >Summary of Clusters >Cluster-JMS >Summary of Migratable Targets >Summary of Clusters > Cluster-JMS											
Configuration editing is enabled. Future changes will automatically be activated as you	ration editing is enabled. Future s will automatically be activated as you Settings for Cluster-JMS												
modify, add or delete items in this domain.	Configur	ation	Monitoring	Control	Deployments	Services	Notes						
Domain Structure	General	JTA	Messaging	Servers	Replication	Migration	Singlet	on Services	Scheduling	Overload	Health Monit	oring H	ПТР
Environment	Coheren	ce											
Servers ⊕Clusters	Save												
Coherence Clusters													

3) Change Migration Basis to Consensus and Click on Save

		575 II.		harmonial .					
View changes and restarts	Hone > Summary of Servers > S Outlans > Outlan 3MS > Summar				of Outers +Su	nmary of Hig	ratable Targets > during	ary of	
Configuration editing is enabled. Future changes will automatically be activated as you	Settings for Cluster-3915	Settings for Cluster-1915							
modify, add or delete items in this domain.	Configuration Monitoring	Control Deployments	Services	Notes					
Domain Structure	General JTA Messaging	Servers Replication	Higration	Singleton Services	Scheduling	Overload	Health Monitoring	HTTP	
() Environment	Coherence	PROTECTION CONTRACTOR					******		
Columns Columns Columns Columns	Save								
Carlemos CultorsMachinesWrbail HottoWrbail HottoWark ManagersStartup and Shutdown Classes	If a dustered server fails, No machines where Node Manag							peofy the	
Deployments Services	Candidate Hachines Fo	r Higratable Servers:			The set of machines (and order of preference) on which Node Manager will restart failed servers. Geouves you to				
Security Realma	Available:	Chosen:					failed servers. (view /uniatic migration.)		
® Intersperability In Committee	BAC-1								
How do L	and the second se	38							
Configure dusters		4							
Configure server regration in a duster		32		2					
Oreate XXBC generic deta sources									
Configure intes-duster replication									
System Status	Higration Basis:		Database Database	- Include -	Controls the migration.		ond for server and se	rvice	
Health of Running Servers	Data Source For Auton	satic Higration:	(None)		The data sou	ria used by	servers in the duster	during	

4. JMS Module Creation

4.1 Module Creation

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

	Iministration Console 12c		Q
Change Center	🔒 Home Log Out Preferences 📐 Record Help	Q	Welcome, weblogic Connected to: pegjms
View changes and restarts	Home >Summary of Migratable Targets >MS-JMS1 (migr Targets >MS-JMS1 (migratable) >Summary of Clusters >		-JMS2 (migratable) >Summary of Clusters >Summary of Migratable f JMS Modules
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Messages	, , , , , ,	
Domain Structure	Summary of JMS Modules		
Environment Deployments Services Order Store and Forward Agents O		ues, distributed topics, foreign servers, and modules as global system resources.	Such resources include queues, topics, connection factories, JMS store-and-forward (SAF) parameters. You can
Persistent Stores Foreign JNDI Providers	New Delete		Showing 0 to 0 of 0 Previous Next
How do L			Туре
Configure JMS system modules		There are no items to display	
Configure resources for JMS system modules	New Delete		Showing 0 to 0 of 0 Previous Next
System Status			

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 > Summar	
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create JM5 System Module Back Nrg Finish Cancel	
	The following properties will be used to identify your new module.	
Environment Deployments Services D-Messaging IJMS Servers JMS Modules	JMS system resources are configured and stored as modules similar to standard J2EE modul templates, destination keys, quota, distributed queues, distributed topics, foreign servers, administratively configure and manage JMS system modules as global system resources. * Indicates required fields	
Path Services Path Services Data Sources Persistent Stores Foreign JNDI Providers	What would you like to name your System Module? * Name: JMS_Module	
Work Contexts	What would you like to name the descriptor file name? If you do not provide a name, a defau	It will be assigned.
How do I Configure JMS system modules	Descriptor File Name:	
Configure JMS servers	Where would like to place the descriptor for this System Module, relative to the jms configura	ation sub-directory of your domain?
System Status 🗉	Location In Domain:	
Health of Running Servers	Back Next Finish Cancel	
Failed (0)		

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

ORACLE WebLogic Server A	dministration Console 12c		Q
Change Center	🙆 Home Log Out Preferences 📈 Record Help	Q	Welcome, weblogic Connected to: FCUBSDomail
View changes and restarts	Home >Summery of Server Templates >DC_3HS_Template-0 >Sum Monitolitis Template >Summery of 3HS Hodelee	many of Servers x Summary of Highstable Tr	egals > Summary of 3HS Servers >3HSServer 1 >Summary of 3HS Servers >3HSServer 1 >Summary of
No pending changes exist. Olick the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration	Create JHS System Hodule	ew JHS system module.	
Domain Structure	Use this page to select the server or duster on which you would	id like to deploy this JMS system module.	You can reconfigure targets later if you wish.
B Environment Servers B Ousters	Targets :		
Server Templates Migratable Targets	Servers		
- Coherence Custers - Machines - Wrbail Hosts	AdminServer		
Work Managers Startup and Shutdown Classes	Clusters		
Deployments Districtions Dis	Cluster-App C All servers in the cluster		
How do L. 8	🗵 Cluster-JHS		
Configure 345 system modules Configure 345 servers	All servers in the cluster		

4) Select the checkbox and Click on Finish

	Iministration Console 12c	Q
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: pegjms
View changes and restarts	Home >Summary of Migratable Targets >MS-JMS1 (migratable) >Summary of Migratable Targets >M Targets >MS-JMS1 (migratable) >Summary of Clusters >Summary of Migratable Targets > Summary	
Configuration editing is enabled. Future changes will automatically be activated as you	Create JMS System Module	
modify, add or delete items in this domain.	Back Next Finish Cancel	
Domain Structure	Add resources to this JMS system module	
B-Environment →Deployments G-Services G-Messaging	Use this page to indicate whether you want to immediately add resources to this JMS system connection factories, etc.	module after it is created. JMS resources include queues, topics,
JMS Servers	$\overline{\ensuremath{\mathbb V}}$ Would you like to add resources to this JMS system module?	
JMS Modules Path Services EBridges	Back Ned Finite Cancel	
Data Sources		
Foreign JNDI Providers		

5) JMS_MODULE is created

Change Center	🏦 Home Log Out Preferences 🖾 Record Help	o: pegjn					
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. 						
Jomain Structure	Settings for JMS_Module						
Environment	Configuration Subdeployments Targets Security Notes						
Services 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 Đ-Bridges	Name: JMS_Module The name of this JMS system module. More Info						
Data Sources Persistent Stores	Descriptor File Name: jms/jms_module-jms.xml The name of the JMS module descriptor file. More Info						
Foreign JNDI Providers	This page summarizes the JMS resources that have been created for this JMS system module, including queue and topic destinations, connection factorie						

4.2 Sub Deployment Creation

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

		— — — — — — — — — —						
hange Center	Home Log Out Preferences		Q	_		gic Connected to: pegj		
iew 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						
onfiguration editing is enabled. Future nanges will automatically be activated as you odify, add or delete items in this domain.	Messages		ms must be restarted for th	e changes to take effect.				
omain Structure	✓ The JMS module was created	d successfully.						
·	Settings for JMS_Module							
Deployments	Configuration Subdeployme	<u>nts</u> Targets S	ecurity Notes					
-)-Services ⊟-Messaging JMS Servers Store-and-Forward Agents JMS Modules		deployments- Tab mation about a JM		ources. It also allows you to configur	e new resources an	d access existing		
Path Services ⊞-Bridges	Name:	MC	IS_Module	The name of this J	3 JMS system module. More Info			
Data Sources Persistent Stores Foreign JNDI Providers	Descriptor File Name:	jm	ims/jms_module-jms.xml The name of the JMS modul			r file. More Info		
w do I	This page summarizes the JMS			system module, including queue and ns, foreign servers, and store-and-f				
No task help found.	Customize this table							
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	١	argets		
Overloaded (0)	Į,		There are no	items to display				
Warning (0) OK (1)	New Delete				Showing 0 to	0 of 0 Previous Next		
	-							

2) Enter name as JMS_SUB and click on Next

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

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

	dministration Console 12c	Q
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home >DC_JMS_Template-0 >Summary of Servers >Summary of Migratable Targ JMS Modules >JMS MODULE	ts >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	Create a New Subdeployment	
domain.	Back Next Finish Cancel	
Release Configuration	Targets	
Domain Structure	Please select targets for the Subdeployment	
È-Environment ├-Servers È-Clusters	Servers	
Server Templates	Clusters	
Coherence Clusters Machines Virtual Hosts Work Managers	Cluster-JM5 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	sole 12c				Q	
Change Center	Home Log	Anne Log Out Preferences Record Help Q Welcome, weblogic Connected to					
View changes and restarts		i1 (migratable) >Summar ummary of Clusters >Sur				ary of Clusters >Summary of Migratable Targets >MS-JMS1 ; > JMS_Module	
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Messages	have been activated. I	However 1 iter	ns must be resta	rted for the changes	to take effect.	
Domain Structure	Subdeploy	ment created successfu	ly.				
A	Settings for JM	15_Module					
-Environment Deployments	Configuration	Subdeployments	Targets S	Security Notes	5		
		nnection factories) are				s a mechanism by which JMS module resources (such as queues, : JMS servers, server instances, or duster).	
Foreign JNDI Providers	New De	elete				Showing 1 to 1 of 1 Previous Next	
How do I	Name •	~		Resources		Targets	
Configure subdeployments in JMS system modules Configure JMS system modules	New De	B 📐				Cluster-JMS Showing 1 to 1 of 1 Previous Next	
System Status 🗉							

4.3 <u>Resource Creation</u>

4.3.1 <u>Queue Creation</u>

1) In JMS_MODULE Click on New

	ministration Console 12c					Õ	
Change Center	Home Log Out Preferences	Necord He	lp	٩	Welcome, w	eblogic Connected to: pegjms	
View changes and restarts	Home >MS-JMS1 (migratable) >Su (migratable) >Summary of Clusters				>Summary of Clusters >Summary of Migratable Ta Modules > JMS_Module	rgets >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 Subdeploymen	ts Targets	Security	Notes			
Domain Structure	-						
Environment	This page displays general infor resources.	mation about a .	JMS system r	module and its resour	ces. It also allows you to configure new resourc	es and access existing	
E-Services	Name:		JMS_Module	:	The name of this JMS system mo	dule. More Info	
Store-and-Forward Agents	Descriptor File Name:	Descriptor File Name: jms/jms_module-jms.xml The name of the JMS module descriptor file. More Info					
Path Services -BridgesData SourcesPersistent StoresForeign JNDI ProvidersForeign JNDI Providers	JMS templates, destination sort	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.					
! :Work Contexts	Customize this table						
How do I	Summary of Resources						
No task help found.	New Delete	New Delete Showing 0 to 0 of 0 Previous Next					
System Status 🗉	🔲 Name 🗞	Туре	JNDI Na	ime	Subdeployment	Targets	
Health of Running Servers		There are no items to display					
Failed (0) Critical (0)	Nev				Showin	g 0 to 0 of 0 Previous Next	
Overloaded (0)							

2) Select Distributed Queue and Click on Next

hange Center	🖻 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: pegji
liew changes and restarts	Home >MS-JMS1 (migratable) >Summary of Migratable Targets >MS-JMS2 (r (migratable) >Summary of Clusters >Summary of Migratable Targets >Summ	migratable) >Summary of Clusters >Summary of Migratable Targets >MS-JMS1 arcy of JMS Modules > JMS_Module
onfiguration editing is enabled. Future hanges will automatically be activated as you lodify, add or delete items in this domain.	Create a New JM5 System Module Resource Back Next, Finish Cancel	
-Environment	Choose the type of resource you want to create.	
Deployments Services JMS Servers JMS Servers JMS Modules JMS Modules	stand-alone queues and topics, connection factories, distributed queue	ter basic information for creating the resource. For targetable resources, like is and topics, foreign servers, and JMS SAF destinations, you can also proceed to associate targetable resources with subdeployments, which is an advanced
H-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
	• 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 connection factories Configure uniform distributed topics	 Distributed Queue 	Defines a set of queues that are distributed on multiple JMS servers, but which are accessible as a single, logical queue to JMS dients. More Info

3) Enter the queue name and Click on Next

hange Center	Home Log Out Pr	eferences 🚵 Record Help	Q	Welcome, weblogic Connected to: pegjme
fiew changes and restarts			Targets >MS-JMS2 (migratable) >Summary able Targets >Summary of JMS Modules >J	of Clusters >Summary of Migratable Targets >MS-JMS1 IMS_Module
configuration editing is enabled. Future hanges will automatically be activated as you rodify, add or delete items in this domain.		Inish Cancel		
Organian Structure Organian Structur			new Distributed Queue. The current mo	dule is IMS_Module
Messaging	What would you like t	o name your new destination? MDB_QUEUE		
B-Bridges Data Sources Persistent Stores	What JNDI Name wou	id you like to use to look up you	r new destination?	
Foreign JNDI Providers	JNDI Name:	MDB_QUEUE		$\neg \langle \neg \rangle$

4) Click on Advance Targeting

Home Log Out Preferences Record Help	Q	Welcome, weblogic Connected to: FCUBSDomain
Hone xDC_INS_Template-0 x5ummary of Servers x5ummary of Migrately Templs x5ummary of INS Hodoles x3HS_HODOLE	a Targets - Summary of INS Servers + INSServ	er 1 sSummary of IMS Servera sIMSServer 1 sSummary of Migratable
Create a Rew 3955 System Hodule Resource		
Back Net Finah Advanced Targeting Cancel		
The following properties will be used to target your new JH	5 system module resource	
The following 245 module targets will be used as the default targets fo appropriately. Yargets :	r your new 345 system module resource. If s	he module's targets are changed, this resource will also be retargeted
Clusters		
Chaster-JHS M All servers in the cluster		
	Targets silonmary of 245 Hodden S3HS_HODOLE Create a New JHS System Hodde Resource Back Net Print Advanced Targeting Cancel The following properties will be used to target your new JHt Use this page to view and accept the default targets where this 346 i accept the default targets, then dot Advanced Targeting to use to the following 245 module targets will be used as the default targets fo appropriately. Targets : Clusters Cluster-JHS	None >DC_PEL_Targeter 0 >Summary of Servers >Summary of Ngratalia Targets >Summary of 245 Hoddies >3465_HODULE Create a Rew 2455 System Hodule Resource Back

5) Select Subdeployement as JMS_SUB and Click on Finish

ORACLE WebLogic Server Ad	ministration Console 12c	0
Change Center	😭 Hone Log Cut. Preferences 🔛 Record Help	Welcome, weblogic Converted to: FCUESDomain
View changes and restarts	Huma +OC_BRS_Tanglate-B +Summary of Servers Is Summary of Highlabia Tangata +Summary of JMS Servers Tangeta +Summary of JMS Midules +3MS_MODDLE	s 3HDanish 1 Summery of 3HS Servers 3HSServer 1 clummery of Highlight
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New 3HS System Hodule Resource	
Lick A Em	Back Nett Frieh Cancel	
Release Configuration	The following properties will be used to target your new JHS system module resource	
Demain Structure	Use this page to select a subdipleyment to assign this system module resource. A subdipleyment is a in Self agent. If necessary, you can create a new subdipleyment by cikling the Create a New Subdipley module's subdipleyment management page. Select the subdipleyment you want to use. If you select (none), no targeting will occur.	
- Server Templates - Migratolie Tangets - Coherence Clusters - Machines - Virtual Histo	Subdeployments: JAIS_SUB • Oracle a New Subdeployment.	
Viork Managers Startup and Shutdown Classes Deployments References	Targets :	
Fi Messanni *	Servers	
How do L. 🛛	AdminiServer	
Configure quotes for destinations Configure 3HS templates	Gates	
Configure destination keys Configure topics Configure topics	Chaster-3HS # All servers in the duster	

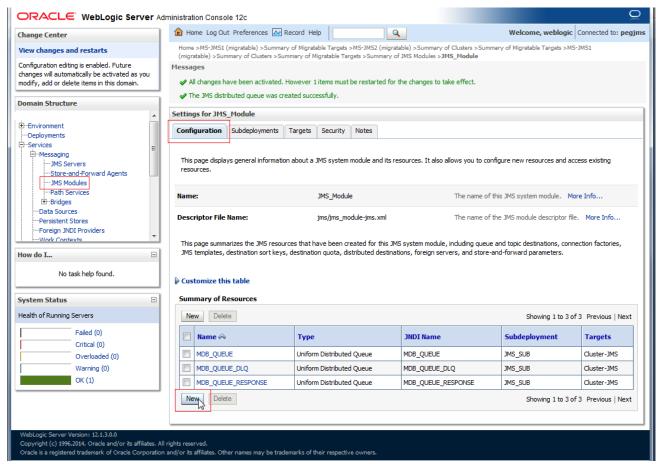
	Iministration Console 12c			Õ				
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Home Log Out Preferences Record Help Welcome, weblogic Connected to:						
View changes and restarts		Home >MS-JMS1 (migratable) >Summary of Migratable Targets >MS-JMS2 (migratable) >Summary of Clusters >Summary of Migratable Targets >MS-JMS1 (migratable) >Summary of Clusters >Summary of Migratable Targets >Summary of JMS Modules >JMS Module						
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Messages							
Domain Structure	The JMS distributed queue was created succession	ssfully.						
·	Settings for JMS_Module							
-Environment Deployments	Configuration Subdeployments Targets	Security Notes						
Messaging Messaging Messaging	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. Name: JMS_Module The name 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							
How do I		ve been created for this JMS system module, includ quota, distributed destinations, foreign servers, a		nnection factories,				
No task help found.	Customize this table							
System Status 🗆	Summary of Resources							
Health of Running Servers	New Delete		Showing 1 to 1	of 1 Previous Next				
Failed (0) Critical (0)	📄 Name 🗞 🛛 Туре	JNDI Name	Subdeployment	Targets				
Overloaded (0)	MDB_QUEUE Uniform Distributed	Queue MDB_QUEUE	JMS_SUB	Cluster-JMS				
Warning (0) OK (1)	New Delete		Showing 1 to 1	of 1 Previous Next				

7) Similarly Create MDB_QUEUE_RESPONSE and MDB_QUEUE_DLQ

	dministration Conso	ole 12c							õ
Change Center	Home Log Ou	ut Preferences 🔤 I	Record Help	P	Q			Welcome, weblog	ic Connected to: FCUBSDomain
View changes and restarts		Home >DC_JMS_Template=0 >Summary of Servers >Summary of Migratable Targets >Summary of JMS Servers >JMSServer-1 >Summary of JMS Servers >JMSServer-1 >Summary of Migratable Targets >Summary of IMS Modules >JMS_MODULE						f Migratable Targets >Summary of	
Click the Lock & Edit button to modify, add or delete items in this domain.	Messages	-							
Lock & Edit			NO restarts	are necessa	ary.				
Release Configuration	Settings for JMS	5_MODULE							
Domain Structure	Configuration	Subdeployments	Targets	Security	Notes				
Environment	This page displa	ays general informatio	on about a Ji		nodule and its resources. It also al			-	
	Name:				JMS_MODULE	Th	ne name of this J№	IS system module. More Info	o
LMigratable Targets Coherence Clusters Machines Virtual Hosts	Descriptor File				jms/jms_module-jms.xml			IS module descriptor file. Mo	
Work Managers Startup and Shutdown Classes Deployments					ated for this JMS system module, I and store-and-forward parameter		unations, connec	oon ractories, jims templates,	destination sort keys,
E-Services	Customize th	is table							
How do I	Summary of R	lesources							
No task help found.	Click the Lock &	& Edit button in the C	Change Cent	ter to activa	te all the buttons on this page.				
No task neip tound.	New Dele	te						Showir	ng 1 to 3 of 3 Previous Next
System Status	Name 🔿	,		Туре		JNDI Name		Subdeployment	Targets
Health of Running Servers	MDB QUE				istributed Queue	MDB_QUEUE		JMS SUB	Cluster-JMS
Failed (0)	MDB_QUE				istributed Queue	MDB_QUEUE_DLQ		JMS_SUB	Cluster-JMS
Critical (0)		UE_RESPONSE			istributed Queue	MDB_QUEUE_RESPONSE		JMS_SUB	Cluster-JMS
Overloaded (0) Warning (0)	New Dele			C.L.OIII D		1.00_20202_1201 01102		-	
OK (5)	New Dele	ac						Showir	ng 1 to 3 of 3 Previous Next

4.3.2 Connection Factory Creation

1) In JMS_MODULE, Click on New



2) Select Connection Factory and click on Next

	inistration Console 12c	Ŏ
Change Center	Arrow Log Out Preferences ≥ Record Help Welcome, weblogic Connected to	: pegjms
View changes and restarts	Home >MS-JMS1 (migratable) >Summary of Migratable Targets >MS-JMS2 (migratable) >Summary of Clusters >Summary of Migratable Targets >MS-JMS1 (migratable) >Summary of Clusters >Summary of Migratable Targets >Summary of JMS Modules > JMS_Module	
Configuration editing is enabled. Future changes will automatically be activated as you	Create a New JMS System Module Resource	
modify, add or delete items in this domain. Domain Structure	Back Printh 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, like stand-alone queues and topics, connection factories, distributed queues and topics, foreign servers, and JMS SAF destinations, you can also proceed targeting pages for selecting appropriate server targets. You can also associate targetable resources with subdeployments, which is an advanced mechanism for grouping JMS module resources and the members to server resources.	i to
Path Services ⊡-Bridges Data Sources Persistent Stores	Connection Factory Defines a set of connection configuration parameters the are used to create connections for JMS dients. More	
Foreign JNDI Providers	Queue Defines a point-to-point destination type, which are use for asynchronous peer communications. A message	ed

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 factory?						
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
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
Lock & Edit Release Configuration	Back Next Fnish Advanced Targeting Cancel 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 Server Templates	The following JMS module targets will be used as the default targets for your new JMS system module resource. If the module's targets are changed, this resource will also be retargeted appropriately.
Migratable Targets Coherence Clusters Machines	Targets :
Virtual Hosts Work Managers	Clusters
	☑ Cluster-JMS ⑧ 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

	dministration Console 12c
Change Center	🏦 Home Log Out Preferences 🖉 Record Help
View changes and restarts	Home >DC_JINS_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 JM5 System Module Resource
Lock & Edit	Back Net Finish Cancel
Release Configuration	The following properties will be used to target your new JMS system module resource
Domain Structure	Use this page to select a subdeployment to assign this system module resource. A subdeployment is a mechanism by which JMS resources are grouped and targeted to a server instance, cluster, or SAF agent. If necessary, you can create a new subdeployment by clicking the Create a New Subdeployment button. You can also reconfigure subdeployment targets later by using the parent
Environment Servers	module's subdeployment management page.
E-Clusters	Select the subdeployment you want to use. If you select (none), no targeting will occur.
Migratable Targets Coherence Clusters Machines	Subdeployments: JMS_SUB Create a New Subdeployment
Wachines Virtual Hosts Work Managers	What targets do you want to assign to this subdeployment?
Startup and Shutdown Classes	Targets :
-Services -Messaring	Servers
How do I	
	AdminServer
Configure quotas for destinations Configure JMS templates	Clusters
Configure destination keys	
Configure topics	☑ Cluster-JMS
Configure queues	Ill servers in the cluster
Configure connection factories	
Configure uniform distributed topics	JMS Servers
Configure uniform distributed queues	DMSServer-1
Configure foreign servers	
Configure JMS SAF	
-	Back Next Finish Cancel
System Status	

6) Connection Factory is **Created**

Change Center	Home Log Ou	it Preferences 📐	Record Help	Q		Welcome, weblogic	Connected to: pegj	
View changes and restarts				>MS-JMS2 (migratable) >9 gets >Summary of JMS M		immary of Migratable Targets >M	IS-JMS1	
Configuration editing is enabled. Future	Messages		initially of higherapic rea	geo / Samary et stis ti				
changes will automatically be activated as you modify, add or delete items in this domain.		ave been activated.	However 1 items must	be restarted for the cha	nges to take effect.			
	Connection fa	actory created succe	essfully.					
omain Structure	Settings for JMS	Madula						
-Environment		- -						
Deployments	Configuration	Subdeployments	Targets Security	Notes				
Path Services Paridges	Name:		JMS_Module		The name	The name of this JMS system module. More Info		
JMS Servers Store-and-Forward Agents JMS Modules	resources.	ya general intorniaŭ	Sin about a sins system		3. It also allows you to	configure new resources and a	Increase existing	
		-				-		
Data Sources	Descriptor File	Name	ime/ime_m	dule-ime vml	The name	of the IMS module descriptor f	le More Info	
Data Sources Persistent Stores Foreign JNDI Providers	Descriptor File	Name:	jms/jms_mo	odule-jms.xml	The name	of the JMS module descriptor f	ile. More Info	
Persistent Stores	This page summ	arizes the JMS resou	rces that have been cr	eated for this JMS syste	m module, including qu	eue and topic destinations, con		
Persistent Stores Foreign JNDI Providers Work Contexts	This page summ	arizes the JMS resou	rces that have been cr	eated for this JMS syste	m module, including qu			
Persistent Stores Foreign JNDI Providers Work Contexts	This page summ	arizes the JMS resou destination sort key	rces that have been cr	eated for this JMS syste	m module, including qu	eue and topic destinations, con		
Persistent Stores Foreign JNDI Providers Work Contexts	This page summ JMS templates,	arizes the JMS reso destination sort key is table	rces that have been cr	eated for this JMS syste	m module, including qu	eue and topic destinations, con		
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5. Server Restart

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

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Click the Lock & Edit button to modify, add or delete items in this domain.		Immary of Servers	recory o spacenouer source	inary of Servers				
Lock & Edit		Configuration Control						
Release Configuration		A server is an instance of WebLogic	: Server that runs in its own	Java Virtual Machine (JVN	4) and has its own conf	iguration.		
Oomain Structure		This page summarizes each server	that has been configured in	the current WebLogic Ser	ver domain.			
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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
iystem Status	Ξ	New Clone Delete					Sh	owing 1 to 7 of 7 Previous Next
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2) Select the cluster 'DC_JMS_Template-0' and

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Click the Lock & Edit button to modify, add or delete items in this domain.	Summary of Server Templates				
Lock & Edit Release Configuration Domain Structure	This page summarizes each server template that has A server template contains common, non-default attr manage configuration for a group of server instances	ibutes that you can apply to a set of	-	n inherit the template configuration.	Server templates enable you to easily
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E-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

ange Center Content of	ange Center	Home Lu	og Out Pre	ferences	Record H	Help	6					w	elcome, weblog	ic Connected to	: FCUBSDo
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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

	dministrat	ion Console 12c	Q
Change Center	🕜 Ho	me Log Out Preferences 🚵 Record Help	Welcome, weblogic Connected to: pegjms
View changes and restarts		>Summary of Servers >MS-JMS2 >Summary of Virtual Hosts >Summary of Servers >Summary of Clusters >Summar yments >Summary of JMS Modules	y 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.	Summ	ary of JMS Modules	
Domain Structure	quot	system resources are configured and stored as modules similar to standard JZEE modules. Such resources inclu a, distributed queues, distributed topics, foreign servers, and JMS store-and-forward (SAF) parameters. You	
	-	al system resources. page summarizes the JMS system modules that have been created for this domain.	
		tomize this table Modules	
	Selected	w Delete	Showing 1 to 1 of 1 Previous Next
Data Sources Persistent Stores		Name 🗞	Туре
Foreign JNDI Providers		JMS_Module	System
How do I	Ne	w Delete	Showing 1 to 1 of 1 Previous Next
Configure JMS system modules	1	ì	
Configure resources for JMS system modules			

2) Enter name as MDB_MODULE and click on Next

	ministration Console 12c	Q
Change Center	🏦 Home Log Out Preferences 🖾 Record Help	jjms
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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 Impl Fnish Cancel	
Environment Deployments Services Or Messaging Or Messaging Or Messaging Or Messaging Or Massaging Or Mass	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 Path Services Data Sources Persistent Stores Foreign JNDI Providers	What would you like to name your System Module? *Name: MDB_MODULE	
How do I	What would you like to name the descriptor file name? If you do not provide a name, a default will be assigned. Descriptor File Name:	
Configure JMS servers	Where would like to place the descriptor for this System Module, relative to the jms configuration sub-directory of your domain?	
System Status	Location In Domain:	
Failed (0)	Back Next Finish Cancel	

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

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Change Center	1 Home Log Out Preferences 🖾 Record Help	Q	Welcome, weblogic Connected to: FCUBSDomain			
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No pending changes exist. Gick the Release Configuration button to allow others to edit the	Create JHS System Hodule					
domain.	Back Net Firsh Cancel					
Release Configuration	The following properties will be used to target your	new JMS system module.				
Domain Structure	Use this page to select the server or duster on which you we	uid like to deploy this JMS system module. You car	reconfigure targets later if you wish.			
B-Environment Servers B-Clusters	Targets :					
Server Templates	Servers					
- Coherence Ousters - Machines - Wrbuil Hosts	AdmiaServer					
-Work Managers Startup and Shutdown Classes	Chasters					
Deployments Services R: Message	Cluster-App © All servers in the duster					
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

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View changes and restarts	Home >Summary of Servers >MS-JMS2 >Summary of Virtual Hosts >Summary of Servers >Summary of Clusters >Summ Deployments >Summary of JMS Modules	nary of Migratable Targets >Summary of Servers >Summary of
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create JHS System Module Back Next Fnish Cancel	
Domain Structure	Add resources to this JM5 system module	
E-Environment	Use this page to indicate whether you want to immediately add resources to this JMS system module after it is cr	eated. JMS resources include queues, topics, connection factories, etc.
Server Templates Migratable Targets	Would you like to add resources to this JMS system module?	
Coherence Clusters Machines Virtual Hosts	Back Next Finish Cancel	
Work Managers		

5) MDB_MODULE is created

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iew changes and restarts	Home >Summary of Clusters >Summary of Migratable Targets >Summary of Servers >Summary of Deployments >Summary of Targets >Summary of Clusters >Summary of JMS Servers > Summary of JMS Modules	of JMS Modules >MDB_MODULE >Summary of Migratable
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JMS ServersJMS Servers	📄 Name 🌣	Туре
<u>JMS Morfules</u>	JMS_Module	System
		System
ow do I		

6.2 Foreign Server Creation

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

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View changes and restarts	Home >Summary of Servers >Summary of Deployments >Summary of JMS Modules >MDB_MODULE >Summary of Migratable T JMS Modules >MDB_MODULE >Summary of JMS Modules	argets >Summary of Clusters >Summary of JMS Servers >Summary of
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Summary of JMS Modules	
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How do L		System
Configure JMS system modules	New Delete	Showing 1 to 2 of 2 Previous Next
Configure resources for JMS system modules		

2) Click on Configuration \rightarrow **New**

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Configuration editing is enabled. Future changes will automatically be activated as you	Settings for MDB_MODULE	Settings for MDB_MODULE								
modify, add or delete items in this domain.	Configuration Subdeplo	ments Targets S	Security Notes							
Domain Structure										
Environment	This page displays general i	nformation about a JM	S system module a	nd its resources. It also allows	s you to configure new resources and ac	cess existing resources.				
El-Clusters	Name:		MDB_MODULI	1	The name of this JMS sys	tem module. More Info				
Migratable Targets Coherence Clusters	Descriptor File Name:		jms/mdb_mod	The name of the JMS mod	lule descriptor file. More Info					
Machines Virtual Hosts Work Managers Startup and Shutdown Classes				this JMS system module, inclu s, and store-and-forward par	uding queue and topic destinations, conn rameters.	ection factories, JMS templates, destin	ation			
Deployments Services	Customize this table									
How do I	Summary of Resources									
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	🔲 Name 🗇	Туре	JNDI Na	me	Subdeployment	Targets				
System Status 😑				There are no items	to display					
Health of Running Servers	New Delete					Showing 0 to 0 of 0 Previou	s Next			
Failed (1)	- W									
Critical (0)										

3) Select Foreign Server and Click on Next

nge Center	Home Log Out Preferences 🔤 Record Help	Q Welcome, weblogic Connected to: pe
3		IODULE >Summary of Migratable Targets >Summary of Clusters >Summary of JMS Servers >Summary of JMS
v changes and restarts	Modules >MDB_MODULE >Summary of JMS Modules >MDB_MODULE	
iguration editing is enabled. Future	Create a New JMS System Module Resource	
ges will automatically be activated as yo fy, add or delete items in this domain.		
y add of delete remound and domain	Back Next Finish Cancel	
ain Structure		
	 Choose the type of resource you want to create. 	
vironment		
Servers Clusters	Use these pages to create resources in a JMS system module, such	as queues, topics, templates, and connection factories.
Server Templates		to enter basic information for creating the resource. For targetable resources, like stand-alone queues and topics,
Migratable Targets		rs, and 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	ch is an advanced mechanism for grouping JMS module resources and the members to server resources.
-Machines -Virtual Hosts		
-Work Managers	Connection Factory	Defines a set of connection configuration parameters that are used t create connections for JMS dients. More Info
-Startup and Shutdown Classes		deate connections for sins cients. More shows
ployments rvices	O Queue	Defines a point-to-point destination type, which are used for
-Messaninn		asynchronous peer communications. A message delivered to a queue
lo I		is distributed to only one consumer. More Info
figure quotas for destinations	Topic	Defines a publish/subscribe destination type, which are used for
		asynchronous peer communications. A message delivered to a topic is distributed to all topic consumers. More Info
figure JMS templates figure destination keys		distributed to air topic consumers. More into
figure topics	Distributed Queue	Defines a set of queues that are distributed on multiple JMS servers,
figure topics figure queues		but which are accessible as a single, logical queue to JMS clients.
igure queues		Info
	Distributed Topic	Defines a set of topics that are distributed on multiple JMS servers,
-		
figure uniform distributed topics		but which are accessible as a single, logical topic to JMS clients. More
figure uniform distributed topics		
nigure connector factories nfigure uniform distributed topics nfigure uniform distributed queues nfigure foreign servers nfigure JMS SAF	Foreign Server	but which are accessible as a single, logical topic to JMS clients. More

4) Enter name and Click on Next

ORACLE WebLogic Server Ad	ninistration Console 12c	Q
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: pegime
View changes and restarts	Home >Summary of Deployments >Summary of JMS Modules >MDB_MODULE >Summary of Migratable Targets >Summary of Modules >MDB MODULE >Summary of JMS Modules >MDB MODULE	of Clusters >Summary of JMS Servers >Summary of JMS
Configuration editing is enabled. Future changes will automatically be activated as you	Create a New JMS System Module Resource	
modify, add or delete items in this domain.	Back Next Fnish Cancel	
	Foreign Server Properties	
-Environment -Servers -Clusters	The following properties will be used to identify your new foreign server. The current module is MDB_MODULE.	
Server Templates Migratable Targets Coherence Clusters	* Indicates required fields	
Machines	*Name: ForeignServer-1	
Work Managers Startup and Shutdown Classes Deployments	Back Neg Finish Cancel	
⊡-Services		

5) Click on Advanced Targeting

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

6) Click on Create New SudDeployment

	tministration Console 12c	Q
Change Center	🏦 Home Log Out Preferences 🔤 Record Help	: 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	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	
G-Environment G-Servers G-Clusters G-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 insta duster, or SAF agent. If necessary, you can create a new subdeployment by dicking the Create a New Subdeployment button. You can also reconfigure subdeployment target 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: (none) Create a New Subdeployment	
Deployments	What targets do you want to assign to this subdeployment?	

7) Enter Name as MDB_SUB and Click on OK

	ministration 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 >Su Modules >MDB_MODULE >Summary of JMS Modules >MDB_MODULE	ummary of Olusters >Summary of JMS Servers >Summary of JMS
Configuration editing is enabled. Future changes will automatically be activated as you	Create a New Subdeployment	
modify, add or delete items in this domain.	OK Cancel	
Domain Structure	Subdeployment Properties	
E-Environment	The following properties will be used to identify your new subdeployment.	
⊟-Clusters □-Clusters □-Server Templates	Subdeployment Name: MDB_SUB	
Migratable Targets	OK Cancel	
Machines Virtual Hosts		
Work Managers		\sim
Startup and Shutdown Classes		

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

	Iministration Console 12c
Change Center	🟦 Home Log Out Preferences 🖂 Record Help
View changes and restarts	Home >DC_JMS_Template=0 >Summary of 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
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, cluster, or
⊡-Environment ↓Servers ⊟-Clusters	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.
	Select the subdeployment you want to use. If you select (none), no targeting will occur. Subdeployments: MDB_SUB_ Create a New Subdeployment
Machines	
Work Managers Startup and Shutdown Classes	What targets do you want to assign to this subdeployment?
Deployments Services	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	
Configure uniform distributed queues	JHS Servers
Configure foreign servers	JMSServer-1
Configure JMS SAF	
	Back Next Finish Cancel
System Status	
and the second sec	

9) Foreign Server is created

	Iministration Conso	le 12c						Õ	
Change Center	🟦 Home Log Ou	t Preferences 🟊 R	Record Help		٩		Welcome,	weblogic Connected to: pegjm	
View changes and restarts		of Deployments >Sum ODULE >Summary of J				mmary of Migratable Targets >Sum	mary of Clusters >Summary of JMS Servers >S	ummary of JMS	
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.		 ✓ All changes have been activated. No restarts are necessary. ✓ The foreign server was created successfully. 							
	Settings for MDB	_MODULE							
Environment Environment	Configuration	Subdeployments	Targets S	Security	Notes				
-Clusters -Server Templates Migratable Targets Coherence Clusters	This page displa	ys general informatior	n about a JMS	S system r	module and its res	ources. It also allows you to con	igure new resources and access existing res	ources.	
Machines	Name:		MDB_MODULE				The name of this JMS system module. More Info		
Work Managers Startup and Shutdown Classes	Descriptor File	Name:		jms/r	mdb_module-jms.>	ml	The name of the JMS module descriptor file	e. More Info	
-Services						system module, including queue ore-and-forward parameters.	and topic destinations, connection factories,	JMS templates, destination	
How do I									
No task help found.	Customize thi	s table							
	Summary of R	esources							
System Status	New Delet	e					Showir	ng 1 to 1 of 1 Previous Next	
Health of Running Servers	🔲 Name 🐟		Туре	•		JNDI Name	Subdeployment	Targets	
Failed (1) Critical (0)	ForeignSer	ver-1	Foreig	n Server		N/A	MDB SUB	Cluster-App	
Overloaded (0) Warning (0)	New Delet	e		-			Showin	ng 1 to 1 of 1 Previous Next	
OK (3)									

6.3 Foreign Server Configuration

1) Click on ForeignServer-1

ORACLE WebLogic Server Ad	Iministration Conso	le 12c						Õ	
Change Center	Home Log Out	t Preferences 🔤	Record He	lp	Q		Welcome, v	veblogic Connected to: pegjm	
View changes and restarts		of Deployments >Sun ODULE >Summary of				ummary of Migratable Targets >Sum	mary of Clusters >Summary of JMS Servers >Su	immary of JMS	
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Messages	Messages All changes have been activated. No restarts are necessary. The foreion server was greated successfully.							
Domain Structure	The foreign se	erver was created su	uccessfully.						
×	Settings for MDB	MODULE							
Environment Servers	Configuration	Subdeployments	Targets	Security	Notes				
Olusters Server Templates Migratable Targets Coherence Clusters Machines	This page display	vs general informatio	on about a .			sources. It also allows you to conf	igure new resources and access existing reso		
Virtual Hosts	Name:			MDB	_MODULE		The name of this JMS system module. More Info		
Work Managers Startup and Shutdown Classes Deployments	Descriptor File	Name:		jms/	mdb_module-jms	xml	The name of the JMS module descriptor file. More Info		
How do I						system module, including queue tore-and-forward parameters.	and topic destinations, connection factories, .	IMS templates, destination	
No task help found.	Customize thi	s table							
System Status	Summary of R	esources							
-,	New Delet	e					Showin	g 1 to 1 of 1 Previous Next	
Health of Running Servers Failed (1)	🔲 Name 🗞	Д	Ту	pe		JNDI Name	Subdeployment	Targets	
Critical (0)	Foreignfier	ver-1	For	eign Server		N/A	MDB_SUB	Cluster-App	
Overloaded (0) Warning (0)	New Delet					1	' Showin	g 1 to 1 of 1 Previous Next	

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

ORACLE WebLogic Server	Administration Console 12c			<u> </u>
Change Center	A Hone Log Out Preferences 🐼 R	ecard Help	Q.	Welcome, weblogic Connected to: FCUBSDomai
New changes and restarts	None >Summery of Outers >Summery of Notices >Summery of Outers >Summer		ary of Servers >Summary of IMS Modules >MD	8_MODULE sharepriseven1 stummery of Servers stummery of IMS
lick the Lock & Edit button to modify, add or elete items in this domain.	Hessages			
Lock & Edit	All changes have been activated. N	io restarts are necessary.		
Release Configuration	Settings for ForeignServer-1			
	Configuration Subdeployment N	Notes		
Domain Structure	General Destrutions Connection	n Factories		
Criveoment Servers Coherence Clusters Monable Targets Monable Tar		ovider that resides outside	r a WebLogic Server. It contains information in be defined on one JHDI directory. Use the	that allows WebLogic Server to reach the remote 3KDI provider. This way, a number of page to configure a foreign server. The name of this foreign server. More Info The name of the class that must be instantiated to access the 3KDI provider. This class name depends on the 3KDI provider and the vendor
kow do L. 8	1			that are being used. More Info
Oreate foreign connection factories Oreate foreign destinations	() JNDI Connection URL:	[13//10.184.148	185 7106 10 184 148 189 7107	The LRL that WebLogic Server will use to contact the JRCE provider. The syntax of the LRL depends on which JRCE provider is being used. For WebLogic JRG, leave this field blank if you are referencing WebLogic JRG objects within the same cluster. Merc Sinte .
System Status 🔅	MDI Properties Credential			Any Credentals that must be set for the JHDL provider. These Credentals
Health of Running Servers	and the second second			Cold in the same state and the same of the same of the same state of the

Click on Connection Factories

	ministration Cons	ole 12c					Q			
Change Center	Home Log O	🟦 Home Log Out Preferences 🔤 Record Help 📃 🔍 Welcome, webl								
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 >ForeignServer~1 >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	nfiguration Subdeployment Notes								
Domain Structure	General Dest	eneral Destinations Connection Factories								
Henvironment Servers Cousters Hogatable Targets Coherence Clusters Machines Wirtual Hosts Wirtual Hosts Startup and Shutdown Classes	another instand This page sumn Customize th	e of WebLogic Serv	er running in a di connection factor	ifferent duster or server, ies that have been create	or a foreign provider, as long a	accessible via JNDI. A remote connect as that provider supports JNDI.	ion factory can be used to refer to			
Deployments	New Dele	ete					Showing 0 to 0 of 0 Previous Next			
How do I	🔲 Name 🔗	\$	Local JN	IDI Name		Remote JNDI Name				
					There are no items to display					
Configure foreign servers Create foreign destinations	New Dele	ete					Showing 0 to 0 of 0 Previous Next			
System Status										

3) Create MDBQCF Connection Factory

ORACLE WebLogic Server	Administration Console 12c	O
Change Center	😰 Home Log Out Preferences 🔛 Record Help	Welcome, weblogic Connected to: pegjms
View changes and restarts	Home >HDB_MODULE >Summary of Highstable Targets >Summary of Clusters >Summary of 3HS Servers >Sum Modules >HDB_MODULE >Fontgr:Server-1 >Coefiguration	mary of 3HS Modules >HDB_MODULE >Summary of 3HS
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create a New Foreign 3HS Connection Factory	
Domain Structure	Foreign Connection Factory Properties	
Onvironment Servers Outers Outers Migratable Targets Outers	The following properties will be used to identify your new foreign connection factory. * Indicates required fields	
-Machines 	* Name: MDBQCF	
-Work Managers -Startup and Shutdown Classes -Deployments	Local 3NDI Name: MDBQCF	>
B-Services	Remote 3NDI Name: MDBQCF	
How do L.	OK Canol	

4) Click on Destination

ORACLE WebLogic Server	Administration Console 12c				0		
Change Center	none Log Out Weference	s 🔛 Record Help	Q	Welcome, weblogic	innected to: pegge		
View changes and restarts	Holivies >MD8_HODULE = Film		r if Outers >Summary of 3HS Se	rom stummary of IMS Hodulas (HDB_HCDULE stummary of IMS			
Configuration editing is enabled. Puture thanges will automatically be activited as you modify, add or delete items in this domain.	Messages All changes have been act	valed. However 1 fams must be	restarted for the changes to tal	in effect.			
Domain Structure	Settings for ForeignServer-	L					
Bitrargenerit	Configuration Subdeploym	ent holes					
-Servers IP-Clusters	General Designations Connection Factories						
- Server Templates - Migratole Pargets - Coherence Custers - Machines - Witak Nors - Witak Norsgens - Sarita and Suddeen Clearer	A foreign connection factory another instance of WebLogo		ster or server, or a foreign prov	and which is accessible via 2401. A remote connection factory can be used ider, as long as that provider supports 3401.	l to refer to		
- Oeployments	© Customize this table						
8 Services +	Foreign Connection Factor	nes (Filtered - Hore Column	(xist)				
How do L. 🗄	New Data			Showing 1 to 1 of 1	Previous Next		
Cold Cold Determine the second		Local JNDI Name		Remote INCI Name			
Configure foreign servers	Name of	and the second sec		Remove Junes Harris			
Configure foreign servers Oreate foreign destinations	MORQO7	HDBQC/		HDBQCP			

5) Create MDB_QUEUE

View changes and restarts	Home >JMS Modules >MDB_MODULE >Foreign	Home >JMS Modules >MDB_MODULE >ForeignServer-1 >MDB_MODULE >ForeignServer-1 >Summary of Servers >JMS Modules >MDB_MODULE >ForeignServer-1 >Configuration						
Configuration editing is enabled. Future	Settings for ForeignServer-1							
changes will automatically be activated as you modify, add or delete items in this domain.	Configuration Subdeployment Notes							
Domain Structure	General Destinations Connection Fa	ictories						
Environment Servers Clusters Wirdual Hosts Wirdual Hosts Wirdual Hosts Work Managers Work Managers Work Managers Statup and Shutdown Classes Deployments Servers	directory, and the object will be returned f This page summarizes the foreign destinat Customize this table Foreign Destinations New Delete	from that directory.	cal server, a look-up will be performed automatically on the remote JNDI Showing 0 to 0 of 0 Previous Next					
-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								

	dministration Console 12c		Q
Change Center	Home Log Out Preferences	s 🔤 Record Help	Welcome, weblogic Connected to: pegjme
View changes and restarts	Home >MDB_MODULE >Summar Modules >MDB_MODULE >Forei		rvers >Summary of JMS Modules >MDB_MODULE >Summary of JMS
Configuration editing is enabled. Future changes will automatically be activated as you	Create a New Foreign JMS De		
modify, add or delete items in this domain. Domain Structure	Cancel		
*	Foreign Destination Prope	erties	
⊖-Environment Servers ⊖-Clusters Server Templates	The following properties will be	used to identify your new foreign destination.	
Migratable Targets Coherence Clusters			
Machines Virtual Hosts	* Name:	MDB_QUEUE	
	Local JNDI Name:	MDB_QUEUE	
-Services	Remote JNDI Name:	MDB_QUEUE	
How do I	OK Cancel		
Configure foreign servers			
Create foreign connection factories			

6) Similarly Create MDB_QUEUE_RESPONSE, MDB_QUEUE_DLQ

	Iministration Console 12c		Q
Change Center	Home Log Out Preference	s 🖾 Record Help	Welcome, weblogic Connected to: pegjms
View changes and restarts	Home >MDB_MODULE >Summa Modules >MDB_MODULE >Fore	Inv of Migratable Targets >Summary of Clusters >Summary of JMS Servers >Sun ignServer-1 >Configuration	mary of JMS Modules >MDB_MODULE >Summary of JMS
Configuration editing is enabled. Future changes will automatically be activated as you	Create a New Foreign JMS D	estination	
modify, add or delete items in this domain.	OK Cancel		
Domain Structure	Foreign Destination Prope	erties	
⊖-Environment ├-Servers ⊖-Clusters └-Server Templates └-Migratable Targets	The following properties will be * Indicates required fields	e used to identify your new foreign destination.	
Coherence Clusters Machines	* Name:	MDB_QUEUE_RESPC	
Virtual Hosts Work Managers Startup and Shutdown Classes Deployments	Local JNDI Name:	MDB_QUEUE_RESPONSE	
-Services	Remote JNDI Name:	MDB_QUEUE_RESPONSE	
How do I 🗉	OK Cancel		
Configure foreign servers			
Create foreign connection factories			
Curture Chatter			

Change Center	😭 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: pegin			
View changes and restarts	Home >MD8_MODULE >Summary of Migratable Targets >Sum Modules >MD8_MODULE >ForeignServer 1 > Coefficientities	nary of Oluters >Summary of JMS Servers >Summ	ry of 3HS Nodules >HOB_MODULE >Summary of 3HS			
Configuration editing is enabled. Puture changes will automatically be activated as you modify, add or delete items in this domain.	Hessages # All changes have been activated. However 1 items must	be restarted for the changes to take effect.				
Domain Structure	Settings for ForeignServer-1					
	Configuration Subdeployment Notes					
B-Environment	General Destinations Connection Factories					
- Coherence Clusters - Machines	ACC directory, and the object will be returned from that directory. This page summarizes the foreign destinations that have been created for this domain. Foreign Destinations					
Vistual Hosts - Work Managers - Startup and Shutdown Classes - Deployments - Services - Messanon	P Customize this table	een created for the domain.				
-Work Managers - Startup and Shutdown Classes - Deployments - Services - St. Messacon	P Customize this table	een created for the domain.	Showing 1 to 2 of 2 Previous Next			
Work Managers Startup and Shutdown Classes P-Services B-Services How do L. S • Configure foreign servers	© Customize this table Foreign Destinations	Local JHDI Name	Showing 1 to 2 of 2 Previous Next Remote 3HDI Name			
Work Managers Startup and Shutdown Classes P-Services B-Services How do L. S • Configure foreign servers	Customize this table Foreign Destinations New Delete	Transferrer	and the convert			
Work Managers Startup and Shutdown Classes Opployments Greaters Greater foreign servers Creater foreign connection factories	© Customize this table Foreign Destinations	Local 3001 Name	Remote JNDI Name			

ORACLE WebLogic Server Administration Console 12c

Change Center	. In theme way was related to the	tel merere rep	1 CONTRACTOR OF THE OWNER OWNER OF THE OWNER OWNE	increasing meansfee to receive an helling
View changes and restarts	Home >MDB_NODULE >Summary Modules >NOB_NODULE >Foreign		nary of Oustars >5ummary of IMS Servers >5ummar	ry of IMS Modules >MDB_MODULE >Summery of IMS
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create a New Foreign 3HS Des	Sector and a sector s		
Domain Structure	OK Cancel	ies.		
Brivers Server Templates	The following properties will be u * Indicates required fields	sed to identify your new f	oreign destination.	
Migratable Targets Coherence Clusters Madrates Virtual Hosta	* Name:	MDB_QUEUE	DLQ	
Work Managers Startup and Shutdown Classes Deployments	Local JNDI Name:	MDB_QUEUE,	DLQ	
B Services	Remote 3NDI Name:	MDB_QUEUE,	DLQ	
How do L.	OK Cancel			
Configure foreign servers	14			

	Administration Console 12c				
Change Center	A Home Log Out Preferences 🔝 Record Help	A	Welcome, weblogic Connected to: per		
view changes and restarts	Home >HDB_MODULE >Summary of Mignatable Targets >Summary of Clusters >Summary of 2HS Servers >Summary of 2HS Modules >HDB_MODULE >Summary of 2HS Modules >HDB_MODULE >ForeignServer1 > Configuration				
Configuration editing is enabled. Future hanges will automatically be activated as you rodify, add or delete items in this domain.	Messages All changes have been activated. However 1 if	iens must be restarted for the changes to take effect.			
Iomain Structure	Settings for ForeignServer-1				
- Environment	Configuration Subdeployment Notes				
-Servers a	General Destinations Connection Pactories	8			
Machines	This name is established the foreign destinations the	on that directory.			
Virtual Hosts Viork Managers Startup and Shutdown Classes Deployments	This page summarizes the foreign destinations the Customize this table Foreign Destinations				
- Virtual Hosts - Work Managers - Stratup and Shutdown Classes - Gesloyments - Services - Alterswoon	© Customize this table Foreign Destinations		Showing I to 3 of 3 Previous Next		
Wrtual Hosts Witch Managers Startup and Shutdown Classes Startup and Shutdown Classes Services Children Services tow do L. El Configure foreign servers	© Customize this table Foreign Destinations		Showing I to 3 of 3 Previous Nex Remote JHDI Name		
Wittal Hosts Wittal Hosts Wittal Hosts	Customize this table Foreign Destinations	at have been created for this domain.	1 March 1990 Control of Control o		
Writual Hosts Writual Hosts Writual Hosts Writual Advitour Classes Deployments Sentes Sentes Configure foreign servers Create foreign connection factories	Customize this table Foreign Destinations Itiew Delete Rame 4 Rame 4 KOS_QUEUE	at have been created for this domain.	Remote 3001 Name		
Writual Hosts Writual Hosts Write Klanagers Startup and Skutdown Classes Deployments Sinutes Sinutes Configure foreign servers Configure foreign servers Create foreign connection factories	Customize this table Foreign Destinations Itiew Delete Rame 4 Rame 4 KOS_QUEUE	t have been created for this domain.	Remote JNDI Name NOB_QUEUE		

7) 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 Preferences 🔤 Record Help	P		Welcome, weblogic Connected to: base_d	omain
View changes and restarts	Home >JMS Modules >MDB_MODULE >ForeignServer-	-1 >JMS Modules >Summary of Deployments >Sum	mary of Servers >Summary of Deployments >S	ummary of Servers >Summary of Deployments >GWMDB	
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Settings for GWMDB Overview Deployment Plan Configuration	Security Targets Control Testing	Ionitoring Notes		
Domain Structure	Use this page to specify the WebLogic Server instatrup time. Target Assignments [Change Targets]	tances and clusters to which you want to deplo	y this Enterprise application. These settings	determine where the application is deployed at server Showing 1 to 1 of 1 Previous N	avt
Gold Content of C	Component A	Туре		Current Targets	
····Machines ····Work Managers		Enterprise Application		Cluster-App	
Startup and Shutdown Classes	GW_MDB_Bean.jar	EJB		(None specified)	
Deployments 曰-Services 白-Messaning	Change Targets			Showing 1 to 1 of 1 Previous Ne	ext
How do I					
Start and stop a deployed Enterprise application					

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

ange Center		Home	Log Out Preferences 🔤 Record Help			Welcome, web	logic Connected to: base_dom
ew changes and restarts		ome >Su f Deploy	mmary of Environment >Summary of Servers >Summary of Deployments >JMS Modules >MDE ments	B_MODULE >Summary	of Environment	>Summary of Servers >Summary of E	Deployments >GWMDB > Summary
nfiguration editing is enabled. Future anges will automatically be activated as you	Sur	nma ry o	of Deployments				
odify, add or delete items in this domain.	C	ontrol	Monitoring				
main Structure							
Environment Deployments Services Fintessaging TMS Servers TMS Modules		To install	red), or deleted from the domain by first selecting the application name and using the a new application or module for deployment to targets in this domain, click the Install ze this table		e.		
Path Services ⊞-Bridges		eploym Install	Update Delete Start Stop v			Show	ving 1 to 5 of 5 Previous Nex
Path Services	[Install		State	Health		ving 1 to 5 of 5 Previous Nex
—Path Services B—Bridges —Data Sources —Persistent Stores —Foreign JNDI Providers —Work Contexts	[Install	Update Delete Start V Stop V	State Active	Health	Туре	-
Path Services Bridges Processes Persistent Stores Persistent Stores Work Contexts do I	[Install Na	Update Delete Start Stop v me &		🖋 ОК	Type Enterprise Application	Deployment Order
Path Services Pridges Data Sources Persistent Stores Vork Contexts do I stall an Enterprise application	[Install Na E	Update Delete Start Stop v me & FCUBSApp GWEJB	Active	 ✓ ок ✓ ок 	Type Enterprise Application Enterprise Application	Deployment Order 100 100
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"Path Services "Bridges "Data Sources "Persistent Stores "Foreign JND1 Providers "Work, Contexts do I stall an Enterprise application onfigure an Enterprise application odate (redeploy) an Enterprise application		Install Na E	Update Delete Start Stop v me & FCUBSApp GWEJB	Active	 ✓ ок ✓ ок 	Type Enterprise Application Enterprise Application Enterprise Application	Deployment Order 100 100
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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

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Change Center]	Home Log Out Preferences 🗠 Record Help Gonnected to: base_dome Welcome, weblogic Connected to: base_dome						
View changes and restarts		Home >Summary of Deployments						
Configuration editing is enabled. Future	Su	umma	ry of Deployments					
changes will automatically be activated as you modify, add or delete items in this domain.	C	Contro	I Monitoring					
Domain Structure ⊕ -Environment ⊕ -Depoyments ⊕ -Services ⊕ -Services ⊕ -Services ⊕ -Depoyments ⊕ -Diagnostics	Þ	(rede To ins Custo	age displays a list of Java EE applications and stand-alone application modules that have be aloyed), or deleted from the domain by first selecting the application name and using the cor tall a new application or module for deployment to targets in this domain, click the Install bu pomize this table yments	trols on this pa	his domain. Install ge.	ed applications and modules car	ı be started, stopped, updated	
		Insta	· · · · · · · · · · · · · · · · · · ·			Sho	wing 1 to 5 of 5 Previous Next	
			Name 🖗	State	Health	Туре	Deployment Order	
	1		E CUBSApp (12.0.3.0)	Active	🛩 ок	Enterprise Application	100	
How do I 🗉	1		E GWEIB	Active	🖋 ок	Enterprise Application	100	
Install an Enterprise application Configure an Enterprise application			E G GWMDB	Active	🛦 Warning	Enterprise Application	100	
• Update (redeploy) an Enterprise application			(1,1,1,9)	Active		Library	100	
 Start and stop a deployed Enterprise application 			E SWEIB	Active	🗸 ок	Enterprise Application	100	
 Monitor the modules of an Enterprise application 		Install Update Delete Start Stop Showing 1 to 5 of 5 Previous Next						
Deploy EJB modules Install a Web application		_						
System Status	i –							

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

8.3 Securing File Store Data

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

8.4 t3s Protocol

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

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

8.5 How to Test the Deployment

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

View changes and restarts	Home >ForeignServer-1 >Conf	figuration >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	Monitoring Subdeployment	Notes					
Domain Structure	Use this page to view statistics about all of the members of a uniform distributed queue. Click on the individual member destination name in the table below to manage the messages on that destination. To access the uniform distributed queue's message management page, select the check box next to its name, and then click the Show Messages button. Customize this table Destinations (Filtered - More Columns Exist)							
····Machines ····Work Managers	Show Messages					Showing 1 to 2 of 2 Previous Next		
	🔲 Name 🗇			Consumers Current	Consumers High	Consumers Total		
-Services	JMS_MODULEIJMSSer	JMS_MODULEIJMSServer-1@MDB_QUEUE 64 64						
	JMS_MODULE!JMSSer	ver-2@MDB_QUEUE		64	64	64		
How do I 🗉	Show Messages					Showing 1 to 2 of 2 Previous Next		
Manage distributed queue messages Configure uniform distributed queues								

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.				le subscriber. Use this page to view message det er file, import XML formatted message contents f	
Environment Servers	Click on a message to view its content	i.			
ClustersVirtual HootsWirtual HootsCoherence EnversCoherence ClustersCoherence ClustersWork ManagersWork ManagersStartup and Shutdown Classes	Message Selector:			Apply	
Deployments	JMS Messages (Filtered - More Col	ımns Exist)			
⊖-Services ⊡-Messaning ▼	New Delete ~ Move ~ Imp	Export ~			Showing 1 to 0 of 0 Previous Next
How do I 🖂	🔲 ID 🐟 🛛 CorrId	Time Stamp	State String	JMS Delivery Mode	Message Size
Manage queue messages			There are no items to dis	splay	
Manage distributed queue messages Manage topic durable subscribers	New Delete v Move v Imp	ert Export ~			Showing 1 to 0 of 0 Previous Next
System Status	L				

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

Change Center	and nome bog out merenetes - Record help	``	metconicy metologic connected to: base_donian
View changes and restarts	Home >Configuration >MDBQCF >JMS Modules >JMS_MOI	DULE >MDB_QUEUE >Summary of JMS Me	ssages >JMS Modules >JMS_MODULE >MDB_QUEUE >Summary of JMS Messages
Configuration editing is enabled. Future	Produce JMS Message		
changes will automatically be activated as you modify, add or delete items in this domain.	OK		
Domain Structure	JMS Message		
- Environment	The following properties will be used to produce a JM	S message.	
Servers Clusters	Туре:		
Virtual Hosts Migratable Targets Coherence Servers	Correlation ID:		
Coherence Clusters Machines Work Managers	Expiration:		
Startup and Shutdown Classes Deployments	Priority:	4 •	
E-Services	Delivery Mode:	Persistent •	
How do I	Delivery Time:	-1	
Manage queue messages			
Manage distributed queue messages Manage topic durable subscribers	Redelivery Limit:	-1	
	Body:		
System Status			
Health of Running Servers			
Failed (0)			
Critical (0)		1	
Overloaded (0)	· · · · · · · · · · · · · · · · · · ·		

4) Message is Sent

change center						1
View changes and restarts	Home >Configuration >MDBQCF >JMS Modules >JMS_MODULE >MDB_QUEUE >Summary of JMS Messages >JMS Modules >JMS_MODULE >MDB_QUEUE >Summary of JMS Messages					
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Messages JMS message sent successfully.					
	Summary of JMS Messages					
Domain Structure						
Converse Converse Converse Converse Converse Converse Servers Cohverence Servers Cohverence Converse	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 nation, expor	ueue, a distributed queue, or a topic durable t message contents in XML format to anothe	subscriber. Use this page to file, import XML formatted	view message details, create n message contents from another	w messages, delete file, or drain all the
	Message Selector:			Apply		
⊡-Services ⊡-Messaging ▼	JMS Messages (Filtered - More Columns Exist)					
How do I 🗆	New Delete V Move V Import Export	v			Showing	1 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	ID:<257876.1411126889162.0>		Fri Sep 19 17:11:29 IST 2014	receive transaction	Persistent	472
System Status	New Delete V Move V Import Export	1			Showing	1 to 1 of 1 Previous Next
Health of Running Servers						
Failed (0) Critical (0)						

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

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

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

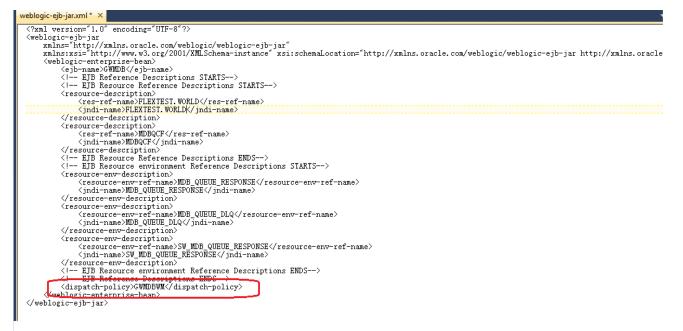
The solution is to create a work manager with a max threads constraint and assign the proxy services dispatch policy to this work manager.

Steps to create custom work manager

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

8.6.1 Modify weblogic-ejb-jar.xml

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

WEDLOUIC SEIVELA	Annusuation 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 >MaxThreadsConstraint-0 >'	Summary of Work Managers >WorkMana	ger-0 >Summary of Work Managers >MaxThreadsConstraint-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 Manage	gers			
the domain.	Back Next Finish Cancel				
Release Configuration	Select Work Manager Definition type				
	What type of Work Manager, Request Class or Constraint d	do you want to create?			
FCUBSDomain A CUBSDomain A COMPARIANCE AND A FCUBSDOMAIN A COMPARIANCE AND A COMPARI	Work Manager				
Servers EClusters	Response Time Request Class				
Coherence Clusters Machines Virtual Hosts	Fair Share Request Class				
Work Managers	Context Request Class				
Deployments =-Services	Maximum Threads Constraint				
Security Realms	Minimum Threads Constraint				
Diannostics	Capacity Constraint				
How do I 🖃	Back Next Finish Cancel				
Create application-scoped constraints					
Create application-scoped request classes					
	dministration Console 12c		Э́		
Change Center	🛍 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: FCUBSDomain		
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No pending changes exist. Click the Release Configuration button to allow others to edit	Environment >Summary of Servers >Summary of Work Manage	gers			
the domain.	Back Next Finish Cancel				
Release Configuration	Work Manager Properties				
Domain Structure	The following properties will be used to identify your new * Indicates required fields	Work Manager.			
FCUBSDomain	· Indicates required neids				
E-Environment	What would you like to name your new Work Manager?				
Clusters					
Coherence Clusters Machines	* Name: GWMDBWM				
Virtual Hosts	Back Next Finish Cancel				
Work Managers Startup and Shutdown Classes	Back Next Finish Cancel				
Deployments					
Services					
Security Realms	1				
-	▲ Home Log Out Preferences ▲ Record Help	Q	Welcome, weblogic Connected to: FCUBSDomain		
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Configuration button to allow others to edit the domain.	Create a New Work Manager Component				
Lock & Edit	Back Next Finish Cancel	Back Next Finish Cancel			
Release Configuration	Select deployment targets				
Domain Structure	You can target the Work Manager to any of these WebLogi	c Server instances or Clusters. Select	the same targets on which you will deploy applications that reference the Work Manager.		
FCUBSDomain					
Environment	Available targets :				
Servers ⊕-Clusters	C				
Coherence Clusters	Servers				
Machines Virtual Hosts	AdminServer				
Work Managers					
Startup and Shutdown Classes	Clusters				
Deployments Services	Cluster-App				
Security Realms	All servers in the cluster				
Interoperability The second	Cluster-JMS				
How do I 🗉	All servers in the cluster				
Create application-scoped constraints Create application-scoped request classes	Back Next Finish Cancel				
Create application-scoped request classes Create application-scoped Work Managers					
			-		

	Administration Console 12c		<u> </u>	
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Pending changes exist. They must be activated to take effect.	Messages Work Manager created successfully			
Activate Changes Undo All Changes	Summary of Work Managers			
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Work Managers Startup and Shutdown Classes	New Clone Delete Showing 1 to 1 of 1 Previous Next			
Deployments Services	🔲 Name 🗇	Туре	Targets	
Security Realms Interoperability	GWMDBWM	Work Manager	Cluster-App	
Diannostics	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

WEDLOGIC Server Ad	ministration Console 120	<u> </u>			
Change Center	🔒 Home Log Out Preferences 🗠 Record Help	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				
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FCUBSDomain	O Work Manager				
Clusters	Response Time Request Class				
Machines Virtual Hosts Work Managers	Fair Share Request Class				
Startup and Shutdown Classes	Context Request Class				
DeploymentsServicesSecurity Realms	Maximum Threads Constraint				
Security reality Theroperability Theroperability	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 >MaxThreadsConstraint-0 >Summary of Work Managers >WorkManager-0 >Summary of Work Managers >MaxThreadsConstraint-0 >Summary of Servers
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 Maximum Threads Constraint Properties
Domain Structure	The following properties will be used to identify your new Max Threads Request Class.
FCUBSDomain ▲ CUBSDomain → Forwars Coherence Clusters 	* Indicates required fields What would you like to name the new Maximum Threads Constraint? * Name: Max Threads Constraint-0 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. Count: 25 Data Source:
How do I 😑	Back Next Finish Cancel
Create annlication-scoped constraints	

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Change Center	🏦 Home Log Out Preferences 📐 Record Help	Q	We	come, weblogic Connected to: FCUBSDomain		
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Activate Changes	Back Next Finish Cancel					
Undo All Changes	Select deployment targets					
Domain Structure	You can target the Work Manager to any of these We	bLogic Server instances or C	Clusters. Select the same targets on which you will deploy applications t	nat reference the Work Manager.		
FCUBSDomain	Available targets :					
Coherence Clusters	Servers					
Machines Virtual Hosts	AdminServer					
Work Managers Startup and Shutdown Classes	Clusters					
Deployments						
Security Realms	Cluster-App All servers in the cluster					
Interoperability	All servers in the cluster					
	Cluster-JMS					
How do I 🗉	All servers in the cluster					
Create application-scoped constraints						
Create application-scoped request classes	Back Next Finish Cancel					
Create application-scoped Work Managers						
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3) Modify the newly created workmanager and assign the Maximum Thread Constraint that is created in above step.

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

8.7 How High Availability is achieved

1) Application Server:

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

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

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



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