Configuring JMS on Weblogic Server 12c Oracle FLEXCUBE Universal Banking Release 14.7.4.0.0 Part No. F98075-01 [June] [2024]



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1. Introduction

1.1 Introduction

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

1.2 Purpose

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

- 1) FCUBS 12.1
- 2) WebLogic Server 12.1.3.0.0

JMS Server

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

JMS Module

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

Subdeployment

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

JMS Resources

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



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

Persistence store

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

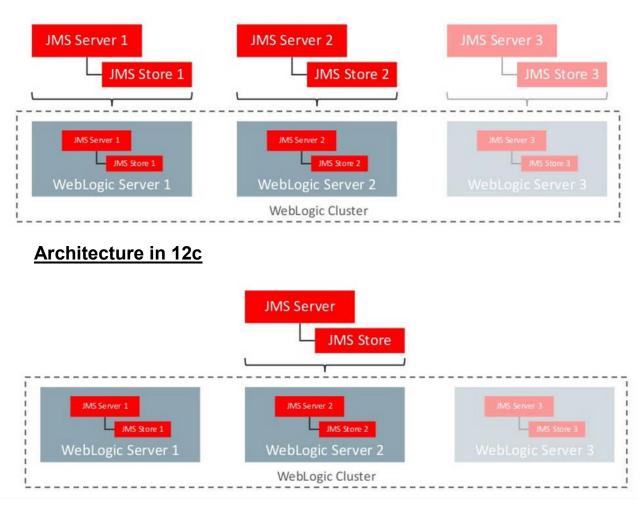
- 1) File based persistence store -> Message is stored in a file
- 2) DB based persistence store -> Message is stored in Database.

1.3 Weblogic 12c New Features

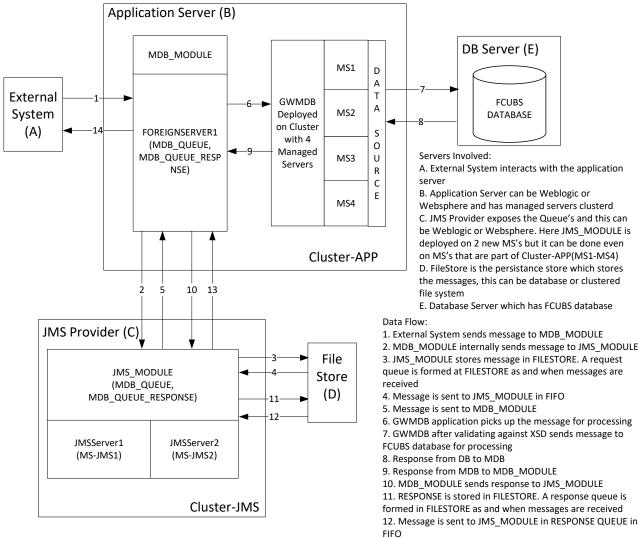
Before weblogic 12c JMS Servers and stores are targeted to individual WLS Servers. Scaling up requires configure the JMS server, the store and target it to new WLS Server

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

Architecture previous to 12c







1.4 Components Diagram & Data Flow

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

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



2. Pre-Requisites

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

2.1 <u>Machines</u>

MAC-1 & MAC-2

Change Center	🔒 Home Log Out Preferences 📈 Record Help	Welcome, weblogic Connected to: pegji
View changes and restarts	Home >Summary of Servers >Summary of Machines	
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Summary of Machines A machine is the logical representation of the computer that hosts one or more WebLogic Server instances (server	are) Wahi noir Saniar usar configurad machina namar to datarmina tha
Domain Structure	optimum server in a dustre to which certain tasks, such as HTTP session replication, are delegated. The Administ Manager to start remote servers.	
E-Environment	This page displays key information about each machine that has been configured in the current WebLogic Server	domain.
Servers B-ClustersCoherence ClustersMachinesWrtual Hosts EWork ManagersStartup and Shutdown Classes	Customize this table Machines New Clone Delete	Showing 1 to 2 of 2 Previous Next
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ServersOustersCoherence ClustersWork ManagersStartup and Shutdown ClassesDeploymentsSecurity RealmsSecurity Realms	Customize this table Hachines New Clone Delete Name Type	Showing 1 to 2 of 2 Previous Next

2.2 Dynamic Clusters and Managed Servers

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

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				Unicast	Database	Round Robin	(None)		DC_JMS_1,
onfigure dusters ssign server instances to dusters onfigure server migration in a duster		Ocuster-IMS Unicast Database Round Robin (None) DC_JMS_1, DC_JMS_2 New × Clone Delete Showing 1to 2 of 2 Previous Next							



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2.3 DataSource

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

Change Center	🏦 Home Log Out Preferences 🔤 Record	Help	Welcome, weblogi	Connected to: base_doma
View changes and restarts	Home >JMS Modules >JMS_MODULE >MDB_QUE	UE >Summary of JMS Messages >JMS Modules >JMS_MODULE >ME	B_QUEUE >Summary of JMS Messages >Summary of Deployments >	Summary of JDBC Data
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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

	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 changes will automatically be activated as you modify, add or delete items in this domain.	Home >Summary of Servers >Summa Messages Create operation cancelled - no Summary of Persistent Stores	De Charles deute de Balando Gerstanian			
Domain Structure Coherence Clusters Coherence Clusters Chachines Crutual Hosts Coherence Clusters Coherence		sitory for storing subsystem data, such as persistent JM This page summarizes the persistent stores that have be	IS messages. It can be a JDBC-accessible database, disk-based een created for this domain.		
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Create File Stores					

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	Summary of Persistent Stores		
Coherence ClustersMachinesVirtual HostsWork Managers	A persistent store is a physical repository for file, or replicated memory storage. This page		IS messages. It can be a JDBC-accessible database, disk-based een created for this domain.
Startup and Shutdown ClassesDeploymentsServices	Customize this table Persistent Stores		
Deployments ⊡-Services ⊡-Messaging Data Sources			Showing 0 to 0 of 0 Previous Next
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DeploymentsServicesMessagingData SourcesPersistent Stores	Persistent Stores	Type There are no items to displa	Target
Deployments -	Persistent Stores	100 - Con.	Target



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

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No pending changes exist. Click the Release Configuration button to allow others to edit the	Create a New File	Store		
domain.	OK Cancel			
Release Configuration	File Store Prop	perties		
Domain Structure	The following pro * Indicates require	operties will be used to identify your new file d fields	e store.	
E-Environment	What would you li	ke to name your new file store?		
	* Name:	FileStore-1		
Coherence Clusters	Select a server ins	stance for this file store.		
Virtual Hosts Work Managers	Target:	Cluster-JMS 💌		
LStartup and Shutdown Classes	The pathname to	the directory on the file system where the fi	ile store is kept. This directory must exist	on your system, so be sure to create it before completing this tab.
+ Services	Directory:	/scratch/work_area/JMS_FI	ILESTORE	
How do I 🖂		7		
Create File Stores	OK Cancel			
 Monitor persistent stores 				

3) FileStore-1 is created

ORACLE WebLogic Server	Administration Console 12c			õ
Change Center	😭 Home Log Out Preferences 🔤 Record Hel		Welcome, weblogic	Connected to: FCUBSDoma
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Create File Stores				



3.2 JMS Server Creation

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

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Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Q	Welcome, v	veblogic Connected to: pegjm
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Domain Structure	Summary of JMS Servers			
-Environment -Servers -Clusters -Clusters -Clusters -Wachines -Virtual Hosts -Work Managers -Startup and Shutdown Classes -Deployments -Servers -S	JMS servers act as management containers for the que This page summarizes the JMS servers that have been Customize this table JMS Servers (Filtered - More Columns Exist)	10	er domain.	ig 0 to 0 of 0 Previous Next
E-Services	📃 Name 🏟 🛛 Persistent Store	Target	Current Target	Health
		There are no items to display	1	
How do I	New Delete		Showin	ng 0 to 0 of 0 Previous Next
Configure JMS servers Configure JMS system modules				

2) .Select FileStore-1 , Click Next

	dministration Console 12c		
Change Center	🚹 Home Log Out Preferences 🔤 Record Help	lp Q	Welcome, weblogic Connected to: FCUBSDoma
View changes and restarts	Home >Summary of Servers >Summary of Clusters : Stores >Summary of JMS Servers	>Summary of Servers >Summary of Clusters >Cluster-	JMS >Summary of Servers >Summary of Clusters >Summary of Servers >Summary of Persistent
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New JMS Server		
Lock & Edit	Back Next Finish Cancel		
Release Configuration	JMS Server Properties The following properties will be used to identify y	vour new TMS Server	
Domain Structure	* Indicates required fields		
E-Environment	What would you like to name your new JMS Serve	er?	
ClustersServer TemplatesMigratable Targets	過 * Name:	JMSServer-1	
Coherence Clusters Machines	Specify persistent store for the new JMS Server.		
Virtual Hosts Work Managers	Persistent Store:	FileStore-1 Create a New Store	
LStartup and Shutdown Classes Deployments Services	Back Next Finish Cancel	(none) FileStore-1	
-Messaning			

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

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domain.	Back Next Finish Cancel	
Release Configuration	Select targets	
Domain Structure	Select the server instance or migratable target on which you would like to deploy this	MS Server.
Domain Structure	Target: (none)	
Environment Servers Clusters Server Templates Migratable Targets	Back Next Finish Cancel (none) AdminServer Cluster-App Cluster-MS	



	dministration Console 12c		Q
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domain.	Back Next Finish C	Cancel	
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4) JMS-Server-1 is created

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Click the Lock & Edit button to modify, add or delete items in this domain.	Messages	tivated. No restarts are necessary.			
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Servers Clusters Server Templates	E Customize this table	is servers that have been created in the curre	it weblogic Server domain.		
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	🔲 Name 🗇	Persistent Store	Target	Current Target	Health
Hessaging	- JMSServer-1	FileStore-1	Cluster-JMS	Cluster-JMS	
⊖-Messaging JMS Servers	- Shooerver 1				

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 <u>Cluster Configuration for Service Migration</u>

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ecurity Realma	Custer-Acc		U	nicast		Database	Round Robin	(None)	
r de L. II Gerlagere dusters 2) Click on Mic	Cater-34		ú	ncest		Database	Round Robin	(None)	
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2) Click on Mig CRACLE WebLogic Server ange Center ew changes and restarts infiguration editing is enabled. Future anges will automatically be activated as you	Administration Conso Administration Conso Administration Conso Administration Conso Mome >Summary Clusters >Cluster	le 12c it Preferences of Servers >Su JMS >Summary	Reco	ord Help Versistent Stores >Su ble Targets >Summa	mmary of JI	MS Servers >Summar	Welco	me, weblogic Connec	ted to: pegjr
2) Click on Mig ORACLE WebLogic Server ange Center ew changes and restarts infiguration editing is enabled. Future anges will automatically be activated as you addry, add or delete items in this domain.	Administration Conso Administration Conso Home Summary Clusters >Cluster Settings for Clust	le 12c th Preferences of Servers >Su JMS >Summary ter-JMS	Reco mmary of P of Migratal	rd Help Hersistent Stores >Su ble Targets >Summa Deployments 1	mmary of JI ry of Cluste	MS Servers >Summary rs >Cluster-JMS	Welco y of Clusters >Summary of Mi	me, weblogic Connec gratable Targets >Summar	ted to: pegjr
2) Click on Mig DRACLE WebLogic Server ange Center ew changes and restarts onfiguration editing is enabled. Future	Administration Conso Administration Conso	le 12c it Preferencess of Servers >Su JMS >Summary ter-JMS Monitoring	Reco mmary of P of Migratal	rd Help Hersistent Stores >Su ble Targets >Summa Deployments 1	mmary of JI ry of Cluste Services	MS Servers > Summar rs > Cluster-JMS Notes	Welco y of Clusters >Summary of Mi	me, weblogic Connec gratable Targets >Summar	ted to: pegjn y of

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



4. JMS Module Creation

4.1 Module Creation

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

	dministration 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 of JMS Modules				
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Messages Image: Second state Image: Second st						
Domain Structure	Summary of JMS Modules						
		ues, distributed topics, foreign servers, and modules as global system resources.	Such resources include queues, topics, connection factories, d 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 I	🗖 Name 🏟		Туре				
		There are no items to display					
Configure JMS system modules Configure resources for JMS system modules	New Delete		Showing 0 to 0 of 0 Previous Next				
System Status							

2) Enter name as JMS_MODULE and Click on Next

	ministration 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 (migratab Targets >MS-JMS1 (migratable) >Summary of Clusters >Sun		MS2 (migratable) >Summary of Clusters >Summary of Migratable JMS Modules
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create JMS System Module Back Nrg Finish Cancel	under Transact of the Labor of the Solid Solid Solid Labor of the	
Domain Structure	The following properties will be used to identify	your new module.	
B Environment →Deployments Services B Messaging → Ms Servers → Store-and-Forward Agents → JMS Modules	JMS system resources are configured and stored as mor templates, destination keys, quota, distributed queues, administratively configure and manage JMS system mod * Indicates required fields	distributed topics, foreign servers, and	uch resources include queues, topics, connection factories, IMS store-and-forward (SAF) parameters. You can
iPath Services iPath Services Data Sources Persistent Stores Foreign JNDI Providers	What would you like to name your System Module? *Name: JMS_Module		
How do I	What would you like to name the descriptor file name? If Descriptor File Name:	you do not provide a name, a default wil	be assigned.
Configure JMS servers	Where would like to place the descriptor for this System M	Module, relative to the jms configuration	sub-directory of your domain?
System Status	Location In Domain:		
Health of Running Servers	Back Next Finish Cancel		
Failed (0)			

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



ORACLE WebLogic Server A	dministration Console 12c		9
Change Center	😧 Home Log Out Preferences 🖂 Record Help	9	Welcome, weblogic Connected to: FCUBSDomai
View changes and restarts	Home >Summery of Server Templates >DC_3HS_Template-0 >Sur Monitolitie Template >Summary of 3HS Hodules	nmary of Servers > Summary of Highstable Targe	ds > Summary of 345 Servers >345Server 1 >Summary of 345 Servers >345Server 1 > Summary of
No pending changes exist. Okk the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration	Create JHS System Hodule Back. Net. Canol. The following properties will be used to target your	new 1945 system module.	
Domain Structure	Use this page to select the server or duster on which you wo	uld like to deploy this 345 system module. You	i can reconfigure targets later if you widt.
Brurssment Servers Server Templates	Targets :		
Migratable Targets Coherence Ousters Machines Whule Hosts	Servers AdminServer		
Work Managers	Clusters		
Deployments Discusses Differences	Clester-App All servers in the cluster		
How do L	Cluster-3HS All servers in the cluster		

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

	Administration Console 12c	Q
Change Center	🔂 Home Log Out Preferences 🖾 Record Help	Welcome, weblogic Connected to: pegjms
View changes and restarts	Home >Summary of Migratable Targets >MS-JMS1 (migratable) >Summary of Migratable Targets >MS-JMS3 Targets >MS-JMS1 (migratable) >Summary of Clusters >Summary of Migratable Targets > Summary of J M	
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create JMS System Module Back Next Finish Cancel	
Domain Structure	Add resources to this JMS system module Use this page to indicate whether you want to immediately add resources to this JMS system module connection factories, etc.	e after it is created. JMS resources include queues, topics,
JMS ServersJMS ServersJMS ModulesJMS ModulesJBH Services D-BridgesData SourcesPersistent StoresPersion JNDI Providers	Would you like to add resources to this JMS system module? Back Next Finite Cancel	

5) JMS_MODULE is created

Change Center	Home Log Out Preferen	:es 🔤 Record H	elp		Q	Welcome, weblogic Connected to: pegjm
View changes and restarts	Home >MS-JMS1 (migratable) (migratable) >Summary of Clu					y of Clusters >Summary of Migratable Targets >MS-JMS1 > JMS_Module
Configuration editing is enabled. Future	Messages	Acto / Summary or	ingratable fai	geo y sum	any or ship houses	JIII TOUR
changes will automatically be activated as you modify, add or delete items in this domain.	All changes have been a		1 items must	be restarte	ed for the changes t	o take effect.
Domain Structure	The JMS module was created	ited successfully.				
	Settings for JMS_Module					
Environment Deployments	Configuration Subdeploy	ments Targets	Security	Notes		
⊡-Services ⊡-Messaging JMS Servers Store-and-Forward Agents	E This page displays general i resources.	nformation about a	JMS system	module and	d its resources. It als	to allows you to configure new resources and access existing
IMS Modules						
	Name:		JMS_Modul	2		The name of this JMS system module. More Info
Path Services	Name: Descriptor File Name:		jms/jms_modul		ml	The name of this JMS system module. More Into The name of the JMS module descriptor file. More Info



4.2 Sub Deployment Creation

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

hange Center	Home Log Out Prefer	ences 🚵 Record Help		W	elcome, weblogic Connected to: pegj
-	the second se				
/iew changes and restarts			ie Targets >MS-JMS2 (migratat tratable Targets >Summary of J	ble) >Summary of Clusters >Summary of M JMS Modules > JMS_Module	ligratable Targets >MS-JMS1
Configuration editing is enabled. Future	Messages				
hanges will automatically be activated as you			tems must be restarted for th	an diana an ba balan affa ab	
nodify, add or delete items in this domain.			terns must be restarted for th	ne changes to take effect.	
omain Structure	The JMS module was	reated successfully.			
	Settings for JMS_Modu	e			
-Environment	Configuration Subde	novents Targets	Security Notes		
Deployments					
∃-Services ⊟-Messaging		Subdeployments- Ta	ıb		
	This page displays gener	al information about a J	4S system module and its res	ources. It also allows you to configure r	ew resources and access existing
	resources.				
JMS Modules					
Path Services	Name:	-	MS Module	The name of this IMS	system module. More Info
🗄 -Bridges	Name.	•		The fiame of this sets	system module. More into
Data Sources	Descriptor File Name:	i	ms/jms_module-jms.xml	The name of the IMS	module descriptor file. More Info
Persistent Stores	beschptor nie name.	<i>.</i>	najjina_nodule jinatxini	The fiame of the sho	module descriptor mer Phore inform
Foreign JNDI Providers					
				system module, including queue and top	
low do I 🗉	JMS templates, destinat	on sort keys, destination	quota, distributed destination	ons, foreign servers, and store-and-for	vard parameters.
No task help found.					
no tast nep tound.	Customize this table				
	Summary of Resource	es			
ystem Status 🛛 🖂					
	New Delete				Showing 0 to 0 of 0 Previous Next
ealth of Running Servers Failed (0)	New Delete	Туре	JNDI Name	Subdeployment	Showing 0 to 0 of 0 Previous Next
lealth of Running Servers		Туре			
ealth of Running Servers Failed (0)		Туре		Subdeployment	
lealth of Running Servers Failed (0) Critical (0)	□ Name ↔	Туре			Targets
Failed (0) Critical (0) Overloaded (0)		Туре			
lealth of Running Servers Failed (0) Critical (0) Overloaded (0) Warning (0)	□ Name ↔	Туре			Targets
tealth of Running Servers Failed (0) Critical (0) Overloaded (0) Warning (0)	□ Name ↔	Туре			Targets

2) Enter name as JMS_SUB and click on Next

		×.
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 >Summary (migratable) >Summary of Clusters >Summary of Migratable Targets >Summary of JMS Modules >JMS_Module	/ of Migratable Targets >MS-JMS1
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create a New Subdeployment	
Domain Structure	Subdeployment Properties The following properties will be used to identify your new subdeployment. * Indicates required fields	
Services Services JMS Servers JMS Servers Store-and-Forward Agents JMS Modules Path Services	Subdeployment Name: JMS_SUB Back Next Finish Cancel	
Path Services Path Services Data Sources Persistent Stores	Back Next Finish Cancel	



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

	Iministration Console 12c		Q
Change Center	Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home >DC_JMS_Template-0 >Summary of Servers >Summary of JMS Modules >JMS_MODULE	Migratable Targets >Summary of JMS	Servers >JMSServer-1 >Summary of JMS Servers >JMSServer-1 >Summary of Migratable Targets >Summary of
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New Subdeployment		
Lock & Edit	Back Next Finish Cancel		
Release Configuration	Targets Please select targets for the Subdeployment		
	Servers		
⊖-Environment ├-Servers ⊖-Clusters	AdminServer		
Server Templates	Clusters		
Coherence Clusters Machines Virtual Hosts Work Managers	Cluster-JMS All servers in the cluster		
LStartup and Shutdown Classes	JM5 Servers		
-Services	JMSServer-1		
How do I Configure subdeployments in JMS system modules	Back Next Finish Cancel		

4) Sub-Deployment is created

ORACLE WebLogic Server Ad	ministration Con	sole 12c					Õ
Change Center	Home Log	Out Preferences 🔤 I	Record Help			Q	Welcome, weblogic Connected to: pegjms
View changes and restarts		51 (migratable) >Summar ummary of Clusters >Su					nary of Olusters >Summary of Migratable Targets >MS-JMS1 es > JMS_Module
Configuration editing is enabled. Future	Messages						
changes will automatically be activated as you modify, add or delete items in this domain.	All changes have been activated. However 1 items must be restarted for the changes to take effect. Subdeployment created successfully.						
Domain Structure	C Babacpio)						
*	Settings for JM	15_Module					
Environment Deployments	Configuration	Subdeployments	Targets	Security	Notes		
JMS Servers Store-and-Forward Agents JMS Modules Path Services EI-Bridges Data Sources Persistent Stores	topics, and co	nnection factories) are					is a mechanism by which JMS module resources (such as queues, as JMS servers, server instances, or cluster).
Foreign JNDI Providers	New De	elete					Showing 1 to 1 of 1 Previous Next
How do L	🔲 Name 🤇	~		Resour	ces		Targets
Configure subdeployments in JMS system	JMS_SU	B					Cluster-JMS
 Configure JMS system modules 	New De	elete					Showing 1 to 1 of 1 Previous Next
System Status							



4.3 **Resource Creation**

4.3.1 Queue Creation

1) In JMS_MODULE Click on New

ORACLE WebLogic Server	Administration Conso	ole 12c						Ç	
Change Center	Home Log Ou	it Preferences 📐	Record He	lp		Q		Welcome, weblogic Connected to: pegj	
View changes and restarts		(migratable) >Summ nmary of Clusters >S						of Migratable Targets >MS-JMS1	
Configuration editing is enabled. Future changes will automatically be activated as you	Settings for JMS	_Module							
nodify, add or delete items in this domain.	Configuration	Subdeployments	Targets	Security	Notes				
Domain Structure]								
-Deployment	This page displa resources.	ys general informat	ion about a	JMS system	module and	l its resources. It	also allows you to configu	re new resources and access existing	
∃-Services ⊟-Messaging	Name:			JMS_Modu	le		The name of this .	JMS system module. More Info	
	Descriptor File	Name:		jms/jms_m	odule-jms.xr	nl	The name of the JMS module descriptor file. More Info		
Path Services Data Sources Persistent Stores							odule, including queue and n servers, and store-and-	d topic destinations, connection factories, forward parameters.	
Foreign JNDI Providers Work Contexts	Customize th	is table							
How do I	Summary of R	esources							
No task help found.	New Dele	te						Showing 0 to 0 of 0 Previous Next	
System Status	Name 🔅	ту	/pe	JNDI N	lame	Si	ubdeployment	Targets	
lealth of Running Servers					There	are no items to d	isplay		
Failed (0)	Nev Dele	te						Showing 0 to 0 of 0 Previous Next	
Critical (0)									
Overloaded (0)									

2) Select Distributed Queue and Click on Next

Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic	Connected to: pegjm
View changes and restarts	Home >MS-JMS1 (migratable) >Summary of Migratable Targets >M (migratable) >Summary of Clusters >Summary of Migratable Target			>MS-JMS1
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create a New JM5 System Module Resource			
Oomain Structure	Choose the type of resource you want to create.			
Environment Deployments Services Strives Messaging MS Servers Store-and-Forward Agents MS Modules Path Services El-Bridges Data Sources Persistent Stores	Use these pages to create resources in a JMS system module, Depending on the type of resource you select, you are promp stand-alone queues and topics, connection factories, distribut targeting pages for selecting appropriate server targets. You mechanism for grouping JMS module resources and the member	ted to enter basic information fo ed queues and topics, foreign si an also associate targetable re rs to server resources.	or creating the resource. For targetable re ervers, and JMS SAF destinations, you ca	an also proceed to n advanced n parameters that
	© Queue		Defines a point-to-point destination type for asynchronous peer communications. delivered to a queue is distributed to only consumer. More Info	A message
Configure quotas for destinations Configure JMS templates Configure destination keys Configure topics	© Topic		Defines a publish/subscribe destination t used for asynchronous peer communicati delivered to a topic is distributed to all to consumers. More Info	ions. A message
Configure queues Configure connection factories Configure uniform distributed topics Configure uniform distributed queues	Distributed Queue		Defines a set of queues that are distribu servers, but which are accessible as a sir to JMS clients. More Info	

3) Enter the queue name and Click on Next



ORACLE WebLogic Server	Administration Console 12c				Q
Change Center	A Home Log Out Preference	es 🔝 Record Help	Q	Welcome, weblogic	Connected to: pegjm
View changes and restarts			NS-3MS2 (migratable) >Summary of 0 ets >Summary of 3MS Modules > 3MS	Dusters >Summary of Migratable Targets >MS Module	5-3MS1
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create a New JHS System P				
Domain Structure	JMS Distributed Destinat	ion Properties	tributed Queue. The current module	e is 345_Module	
Messaging MS Servers Store-and-Forward Agents MS Modules Path Services	What would you like to name y * Name:	rour new destination? MDB_QUEUE	$\langle \neg$		
B-Bridges Data Sources Persistent Stores Foreign JNDI Providers	What JNDI Name would you lik	e to use to look up your new de	stination?	~	
Work Contexts		MDB_QUEUE			

4) Click on Advance Targeting

ORACLE WebLogic Server A	dministration Console 12c		0
Change Center	🏠 Home Log Out Preferences 🔛 Record Help	Q	Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home xDC_2HS_Template-0 xSummary of Servers xSummar Terrols xSummary of 2HS Hodoles x3HS_HODOLE	y of Highstable Targets > Gummary of 245 Servers >)	MISarver-1 vSummary of IMS Servers v3MSServer-1 vSummary of Mignable
No pending changes exist. Click the Release Configuration button to allow others to edit the	Create a New JHS System Hodule Resource		
domain.	Back Net Frish Advanced Targeting	Cancel	
Release Configuration	The following properties will be used to target y	our new 3HS system module resource	
Domain Structure	Use this page to view and accept the default targets wh accept the default targets, then click Advanced Target		t targets are based on the parent JMG system module targets. If you do not want to geting this resource.
Environment Servers Servers Servers Coherence Custers Magnatable Targets Magnatable Magnatable	The following JMG module targets will be used as the defa appropriately. Targets:	uit targets for your new 245 system module resou	roe. If the module's targets are changed, this resource will also be retargeted
- Virtual Hosts - Work Managers	Clusters		
Startup and Shutdown Classes Deployments El Senvoes El Messacon	Cluster-3HS All servers in the cluster		
tew do L., 🛛	Back Next Firsth Advanced Targeting	Cancel	

5) Select Subdeployement as JMS_SUB and Click on Finish

ORACLE WebLogic Server	dministration Consola 12c	0
Change Center	😰 Hame Log Out Preferences 🔛 Record Help	Welcome, weldogic Connected to: FCUBSDomain
View changes and restarts	Roma +OC_3R5_Template-0 >Summary of Servers of Jummary of Highlable Targets >Summary of 3R5 Servers Targets >Summary of 3R5 Histoire +3M6_M0006.8	s s Millerver () »Summery of 345 Servers »345Server () «Summery of Highstein
No pending changes exist. Click the Release Configuration button to allow others to edit the	Create a New JPIS System Hodule Resource	
Lock & Est	Back, There Fresh, Cancel	
Release Configuration	The following properties will be used to target your new 2HS system module resource	
Domain Structure	Use this page to welloct a subdeployment to axis of this system module resource. A subdeployment is a m SAF agent. If necessary, you can create a new subdeployment by closing the Create a New Subdep module's subdeployment management page.	
- Servers 8 Cuters - Server Templates - Mgratable Targets - Coherence Custers	Select the subdeployment you want to use. If you select (none), no targeting will occur. Subdeployments: JAIS_SUB Cease a New Subdeployment.	
- Nachres - What Herb - Work Managers - Startup and Shuttown Caspes - Deployments	What targets it you want to assign to this subdeployment? Targets :	
B Services .	Servers	
How do L. 🛛	C Administerver	
Configure quotes for destinations Configure 3HS templates	Clesters	
Configure destination keys Configure topics Configure topics	☑ Claster 3HS	

6) MDB_QUEUE is created



	dministration Console 12c				õ
Change Center	🔒 Home Log Out Preferences 🔤	Record Help	Q	Welcome, w	eblogic Connected to: pegjms
View changes and restarts	Home >MS-JMS1 (migratable) >Summa (migratable) >Summary of Clusters >Si				rgets >MS-JMS1
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Messages	. However 1 items must be	restarted for the changes to tak	e effect.	
Domain Structure	The JMS distributed queue was of the two sets of tw	reated successfully.			
	Settings for JMS_Module				
Environment Deployments	Configuration Subdeployments	Targets Security	Notes		
JMS Servers Store-and-Forward Agents JMS Modules Path Services Data Sources Persistent Stores Foreign JNDI Providers	This page displays general information resources.	on about a JMS system m JMS_Module jms/jms_modu		ws you to configure new resource The name of this JMS system moo The name of the JMS module desi	dule. More Info
How do I	This page summarizes the JMS reso JMS templates, destination sort key				
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 🗞 🛛 Type		JNDI Name	Subdeployment	Targets
Overloaded (0)	MDB_QUEUE Unifor	m Distributed Queue	MDB_QUEUE	JMS_SUB	Cluster-JMS
Warning (0) OK (1)	New Delete			Showing	1 to 1 of 1 Previous Next

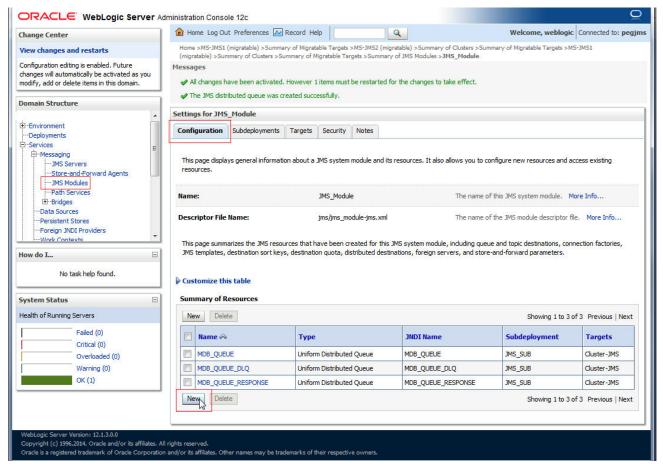
7) Similarly Create MDB_QUEUE_RESPONSE and MDB_QUEUE_DLQ

ORACLE WebLogic Serve	r Administration Consc	le 12c						<u>_</u>
Change Center	Home Log Ou	it Preferences 📐	Record He	lp	٩		Welcome, weblog	ic Connected to: FCUBSDoma
View changes and restarts	Home >DC_JM5_ JMS Modules >JM		of Servers	>Summary o	of Migratable Targets >Summa	ry of JM5 Servers >JMSServer-1 >Summary of .	JMS Servers >JMSServer-1 >Summary of	Migratable Targets >Summary of
Click the Lock $\&$ Edit button to modify, add or delete items in this domain.	Messages							
Lock & Edit	All changes h	ave been activated.	No restarts	s are necess	ary.			
Release Configuration	Settings for JMS	_MODULE						
	Configuration	Subdeployments	Targets	Security	Notes			
Domain Structure								
-Environment	This page displa	ys general informati	on about a :	JMS system	module and its resources. It	also allows you to configure new resources a	and access existing resources.	
Servers	_							
E-Clusters	Name:				JMS_MODULE	The name	of this JMS system module. More Info	
Server Templates Migratable Targets								
Coherence Clusters	Descriptor File	Name:			jms/jms_module-jms.xml	The name	of the JMS module descriptor file. Mo	re Info
Machines Virtual Hosts								
Work Managers					eated for this JMS system m , and store-and-forward par	odule, including queue and topic destinations ameters.	, connection factories, JMS templates,	destination sort keys,
Startup and Shutdown Classes			6.7		6			
Deployments El-Services	Customize th	- to blan						
	Customize th	s table						
How do L	Summary of R	esources						
	Click the Lock &	Edit button in the	Change Cen	ter to activ	ate all the buttons on this pa	ge.		
No task help found.								
no case nep tound.	New Dele	te				2	Showin	g 1 to 3 of 3 Previous Next
						-		
System Status				Туре		JNDI Name	Showin Subdeployment	g 1 to 3 of 3 Previous Next Targets
System Status Health of Running Servers					Distributed Queue	JNDI Name MDB_QUEUE		
System Status Health of Running Servers Failed (0)	□ Name ↔	UE		Uniform	Distributed Queue Distributed Queue		Subdeployment	Targets
System Status Health of Running Servers	Name Not Not Not Not Not Not Not No	UE		Uniform		MDB_QUEUE	Subdeployment JMS_SUB	Targets Cluster-JMS
System Status Health of Running Servers Failed (0) Critical (0)	Name Not Not Not Not Not Not Not No	UE UE_DLQ UE_RESPONSE		Uniform	Distributed Queue	MDB_QUEUE MDB_QUEUE_DLQ	Subdeployment JMS_SUB JMS_SUB JMS_SUB	Targets Cluster-JMS Cluster-JMS



4.3.2 Connection Factory Creation

1) In JMS_MODULE, Click on New



2) Select Connection Factory and click on Next

	Administration Console 12c			õ
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic	Connected to: pegjms
View changes and restarts	Home >MS-JMS1 (migratable) >Summary of Migratable Targets (migratable) >Summary of Clusters >Summary of Migratable Ta			MS-JMS1
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	Choose the type of resource you want to create.			
Environment Deployments Services Store-and-Forward Agents JMS Modules Path Services	Use these pages to create resources in a JMS system mod Depending on the type of resource you select, you are pro stand-alone queues and topics, connection factories, distri targeting pages for selecting appropriate server targets. Y mechanism for grouping JMS module resources and the me	ompted to enter basic information fo ibuted queues and topics, foreign se You can also associate targetable res	r creating the resource. For targetable re ervers, and JMS SAF destinations, you ca	n also proceed to
⊕-Bridges Data Sources Persistent Stores	R Connection Factory		Defines a set of connection configuration are used to create connections for JMS d	
Foreign JNDI Providers	O Queue		Defines a point-to-point destination type, for asynchronous peer communications. /	



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

Change Center	Home Log Out Pref	ferences 📐 Record Help	Q	Welcome, weblogic Connected to: pegjms
View changes and restarts			>MS-JMS2 (migratable) >Summary of (rgets >Summary of JMS Modules > JMS	Clusters >Summary of Migratable Targets >MS-JMS1 Module
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create a New JMS Sys	stem Module Resource	•	
Domain Structure	Connection Factory	y Properties		
 Environment Deployments Services 	The following propertie * Indicates required field		onnection factory. The current modul	e is JMS_Module.
⊡-Messaging JMS Servers Store-and-Forward Agents	What would you like to	name your new connection factory?		
JMS Modules Path Services	* Name:	MDBQCF	\Box	
Bridges Data Sources Cores	What JNDI Name would	you like to use to look up your new o	connection factory?	
Foreign JNDI Providers	JNDI Name:	MDBQCF		

4) Click on Advance Targeting

Change Center	the Home Log Out Preferences ≧ Record Help Q Welcome, weblogic Welcome, weblogic	Connected to: FCUBSDomai
View changes and restarts	Home >DC_JMS_Template=0 >Summary of Servers >Summary of Migratable Targets >Summary of JMS Servers >JMSServer-1 >Summary of JMS Servers >JMSServer-1 >Summary of JMS Servers >JMSServer-1 >Summary Targets >Summary of JMS Modules >JMS_MODULE	of Migratable
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New JMS System Module Resource	
Lock & Edit	Back Next Finish 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. accept the default targets, then click Advanced Targeting to use the subdeployment mechanism for targeting this resource.	If you do not want to
	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 appropriately. Targets:	o be retargeted
Virtual Hosts Work Managers	Clusters	
	Cluster-JHS B All servers in the cluster	
-Services		



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

	Iministration Console 12c Q
Change Center	🏦 Home Log Out Preferences 🗟 Record Help
View changes and restarts	Home >DC_JMS_Template=0 >Summary of Servers >Summary of Migratable Targets >Summary of JMS Servers >JMSServer-1 >Summary of JMS Servers >JMSServer-1 >Summary of Migratable Targets >Summary of JMS Modules >JMS_MODULE
No pending changes exist. Click the Release Configuration button to allow others to edit the	Create a New JMS System Module Resource
domain.	Back Next Finish Cancel
Lock & Edit	
Release Configuration	The following properties will be used to target your new JMS system module resource
Domain Structure	Use this page to select a subdeployment to assign this system module resource. A subdeployment is a mechanism by which JMS resources are grouped and targeted to a server instance, duster, or SAF agent. If necessary, you can create a new subdeployment by dicking the Create a New Subdeployment button. You can also reconfigure subdeployment targets later by using the parent
E-Environment	ser agent. If necessary, you can dreate a new subdeproyment by disking the Create a new subdeproyment button, not can also recompute subdeproyment targets later by using the parent module's subdeproyment management page.
	Select the subdeployment you want to use. If you select (none), no targeting will occur.
LMigratable Targets	Subdeployments: JMS_SUB Create a New Subdeployment
Machines Virtual Hosts Work Managers	What targets do you want to assign to this subdeployment?
	Targets :
E-Services	Servers
How do I	AdminServer
Configure quotas for destinations	
Configure JMS templates	Clusters
Configure destination keys	☑ Cluster-JHS
Configure topics Configure queues	All servers in the cluster
Configure connection factories	
Configure uniform distributed topics	JMS Servers
Configure uniform distributed queues	JMSServer-1
Configure foreign servers	
Configure JMS SAF	Back Next Finish Cancel
System Status	

6) Connection Factory is **Created**



hange Center	Home Log Ou	it Preferences 📷	Record He	lp		Q	Welcome, weblogi	c Connected to: pegj
/iew changes and restarts						nigratable) >Summary of Clusters > ary of JMS Modules > JMS_Modul e	Summary of Migratable Targets >N	IS-JMS1
Configuration editing is enabled. Future hanges will automatically be activated as you	Messages							
nodify, add or delete items in this domain.	All changes h	ave been activated. actory created succ		items must b	e restarted	for the changes to take effect.		
omain Structure			costully.					
Environment	 Settings for JMS 	_Module						
Deployments	Configuration	Subdeployments	Targets	Security	Notes			
Path Services Bridges Data Sources	Name: Descriptor File	Name:		JMS_Module			ne of this JMS system module.	
	Name:			JMS_Module		The nar	ne of this JMS system module.	More Info
Persistent Stores Foreign JNDI Providers	Descriptor File	Name:		jms/jms_mo	jule-jms.xm	i ine nan	te of the JMS module descriptor 1	nie. More Into
Work Contexts							queue and topic destinations, cor	nnection factories,
	This page summ	destination sort key				is JMS system module, including (stinations, foreign servers, and s		nnection factories,
Work Contexts	This page summ JMS templates,	destination sort key is table						nection factories,
Work Contexts	This page summ JMS templates, Customize th	destination sort key is table esources					tore-and-forward parameters.	nnection factories, of 4 Previous Next
w do L No task help found. stem Status alth of Running Servers Failed (0)	This page summ JMS templates, Customize th Summary of R	destination sort key is table esources te					tore-and-forward parameters.	
w do I No task help found. stem Status	This page summ JMS templates, Customize th Summary of R New Dele	destination sort key is table esources	s, destinatio		tributed des	stinations, foreign servers, and s	tore-and-forward parameters. Showing 1 to 4	of 4 Previous Next
w do I No task help found. stem Status alth of Running Servers Failed (0) Critical (0)	This page summ JMS templates, Customize th Summary of R New Dele	destination sort key is table cesources te	s, destination	on quota, dis	tributed des	JNDI Name	Showing 1 to 4	of 4 Previous Next Targets
w do I No task help found. stem Status alth of Running Servers Failed (0) Critical (0) Overloaded (0)	This page summ JMS templates, Summary of R New Dele Name & MDBQCF	destination sort key is table esources te	s, destination	on quota, dis	tributed des Queue	JNDI Name MDBQCF	Showing 1 to 4 Subdeployment JMS_SUB	of 4 Previous Next Targets Cluster-JMS



5. Server Restart

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

hange Center	Home Log Ou	it Preferences 💽 Record He	elp	Q			Welcome, we	blogic Connected to: FCUBSD
/iew changes and restarts		of JMS Servers >JMSServer-1 >S ODULE >ConnectionFactory-0 >J			mmary of Migratable Tar	gets >Summary of JMS		
lick the Lock & Edit button to modify, add or elete items in this domain.	Summary of Ser			intry of betters				
Lock & Edit	Configuration	Control						
Release Configuration	A server is an in	nstance of WebLogic Server tha	t runs in its own Ja	ava Virtual Machine (JVI	4) and has its own conf	iguration.		
omain Structure	This page summ	arizes each server that has bee	en configured in th	ne current WebLogic Ser	ver domain.			
Environment	25 🗉							
ClustersServer TemplatesMigratable Targets	Customize t	his table						
ingratavie rargeta								
Coherence Clusters Machines		ered - More Columns Exist) & Edit button in the Change Co	enter to activate a	all the buttons on this pa	ge.			
Coherence Clusters		& Edit button in the Change Co	enter to activate a	all the buttons on this pa	ge.		Shi	owing 1 to 7 of 7 Previous Nex
Coherence Clusters Wachines Virtual Hosts Virtual Hosts Vork Managers Startup and Shutdown Classes Deployments -Services	Click the Lock	& Edit button in the Change Connel Delete	enter to activate a Type	all the buttons on this pa	ge. Machine	State	Sh	owing 1 to 7 of 7 Previous Nex
Coherence Clusters Machines Wirkual Hosts Work Managers Startup and Shutdown Classes Deployments Services P-Messarinn	Click the Lock	& Edit button in the Change Conne Delete				State RUNNING		
Coherence Clusters Machines Wirkual Hosts Work Managers Work Managers Startup and Shutdown Classes Deployments Services Ch-Messarinn	Click the Lock	& Editbutton in the Change Conne Delete	Туре				Health	Listen Port
Coherence Clusters Machines Withual Hosts Work Managers Strutup and Shutdown Classes Deployments Services Characteris w do I	Click the Lock	& Editbutton in the Change Contemporation of	Type Configured	Cluster	Machine	RUNNING	Health V OK	Listen Port 7001
Horeince Clusters Hachines With Managers Startup and Shutdown Classes Deployments Services Hesearin w do I Create Managed Servers Clone servers	Click the Lock	& Editbutton in the Change Conne Delete	Type Configured Dynamic	Cluster Cluster-App	Machine MAC-1	RUNNING SHUTDOWN	Health V OK Not reachable	Listen Port 7001 7101
Coherence Clusters Machines Writual Hosts Writual Hosts Writual Hosts Writual Hosts Writual Hosts Deployments Services Create Managed Servers Jone servers Deployments	Click the Lock	& Editbutton in the Change Conne Delete	Type Configured Dynamic Dynamic	Cluster Cluster-App Cluster-App	Machine MAC-1 MAC-2	RUNNING SHUTDOWN SHUTDOWN	Health V OK Not reachable Not reachable	Listen Port 7001 7101 7102
Coherence Clusters Machines Wirtual Hosts Work Managers Startup and Shutdown Classes Deployments Services ch-Messanin w do L Dreate Managed Servers Clone servers Delete Managed Servers Delete the Administration Server	Clock the Lock	& Editbutton in the Change Conne Delete ver(admin) 15_1 15_2 15_3 15_4	Type Configured Dynamic Dynamic Dynamic	Cluster - App Cluster - App Cluster - App Cluster - App	Machine MAC-1 MAC-2 MAC-1	RUNNING SHUTDOWN SHUTDOWN SHUTDOWN	Health V OK Not reachable Not reachable Not reachable	Listen Port 7001 7101 7102 7103
Coherence Clusters Machines Withuel Hosts Withuel Hosts Withuel Hosts Startup and Shutdown Classes Opeloyments Services Anderson Anderson Services Create Managed Servers Clone servers Delete Managed Servers Delete Managed Servers	Clock the Lock	& Editbutton in the Change Conne Delete ver(admin) 15_1 15_2 15_3 15_4 1	Type Configured Dynamic Dynamic Dynamic Dynamic	Cluster App Cluster-App Cluster-App Cluster-App Cluster-App Cluster-App	Machine MAC-1 MAC-2 MAC-1 MAC-2	RUNNING SHUTDOWN SHUTDOWN SHUTDOWN SHUTDOWN	Health Image:	Listen Port 7001 7101 7102 7103 7104
Observers Machines With Managers With Managers Startup and Shutdown Classes Deployments Services Observers Create Managed Servers Clone servers Delete Managed Servers Delete the Administration Server Start and stop servers	Cick the Lock	& Editbutton in the Change Conne Delete	Type Configured Dynamic Dynamic Dynamic Dynamic Dynamic	Cluster App Cluster -App Cluster -App Cluster -App Cluster -App Cluster -App Cluster -JMS	Machine MAC-1 MAC-2 MAC-1 MAC-2 MAC-1	RUNNING SHUTDOWN SHUTDOWN SHUTDOWN SHUTDOWN SHUTDOWN	Health Content of the second	Listen Port 7001 7101 7102 7103 7104 7106

2) Select the cluster 'DC_JMS_Template-0' and

	Administration Console 12c				Q				
Change Center	Home Log Out Preferences 🔤 Record Help	Q			Welcome, weblogic Connected to: FCUBSDomain				
View changes and restarts	Home >JMSServer: 1 >Summary of Migratable Targets >Summary of JMS Modules >JMS_MODULE >ConnectionFactory-0 >placeholder >Summary of Servers >Summary of Server Templates >DC JMS Template:0 >Summary of Server Templates								
Click the Lock & Edit button to modify, add or delete items in this domain.	Summary of Server Templates								
Lock & Edit Release Configuration Domain Structure	This page summarizes each server template that has A server template contains common, non-default attri manage configuration for a group of server instances	ibutes that you can apply to a se		ch then inherit the template conf	iguration. Server templates enable you to easily				
	Customize this table Server Templates Click the <i>Lock & Edit</i> button in the Change Center to	activate all the buttons on this	page.		Showing 1 to 2 of 2 Previous Next				
Virtual Hosts									
Work Managers Startup and Shutdown Classes	🔲 Name 🗇	Cluster	Machine	Listen Port	Listen Address				
Deployments	DC_FCUBS_Template	Cluster-App		7100					
-Services -Messaging -	DC_JMS_Template-0	Cluster-JMS		7105					
How do I	New Clone Delete				Showing 1 to 2 of 2 Previous Next				
Greate server tempidtes									



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

Release Configuration omain Structure Herwinoment General Structure Node Manager will use to start this server on a remote machine. Jestrer Templates Migratable Targets Ocherence Cutters Detroits	Migration Tuning Overload Health Monitoring Server Start Web Services Coherence Ind restart servers in normal or unexpected conditions. Use this page to configure the startup settings The Java home directory (path on the machine running Node Manager) to use when starting this server. More Info The Java Vendor value to use when starting this server. More Info The Java Vendor value to use when starting this server. More Info The BEA home directory (path on the machine running Node Manager) to use when starting this server. More Info The directory that this server uses as its root directory. This directory must be on the computer that hosts Node Manager. If you do not specify a Root Directory value, the domain directory is used by default. More Info The dasspath (path on the machine running Node Manager) to use when starting this server. More Info	hange Center
serving danges exit. Click the Release for DC_1HS_Template-0 an. Lock & Edit Release Configuration anis Structure main Structure main Structure Configuration build to a bard this server utility that you can use to start, suspend, shut down, and restart servers in normal or unexpected conditions. Use this page to configure the startup that Yoo Can use to start, suspend, shut down, and restart servers in normal or unexpected conditions. Use this page to configure the startup that Yoo Can use to start, suspend, shut down, and restart servers in normal or unexpected conditions. Use this page to configure the startup that Yoo Can use to start, suspend, shut down, and restart servers in normal or unexpected conditions. Use this page to configure the startup that Yoo Can use to start, suspend, shut down, and restart servers in normal or unexpected conditions. Use this page to configure the startup that Yoo Can use to start, suspend, shut down, and restart servers in normal or unexpected conditions. Use this page to configure the startup that Yoo Can use to start, suspend, shut down, and restart servers in normal or unexpected conditions. Use this page to configure the startup that Yoo Can use to start, suspend, shut down, and restart servers in normal or unexpected conditions. Use this page to configure the startup that Yoo Can use to start, suspend, shut down, and restart servers in normal or unexpected conditions. Use this page to configure the startup that Yoo Can use to start, suspend, shut down, and restart servers in normal or unexpected conditions. Use this page to configure the startup that Yoo Can use when starting this server. More Info Server Startup and Shutdown Classes BEA Home: Leadyments for Managed servers from the damaged servers from the adminer unning Node Managed envers from the adminer unning Node	Ind restart servers in normal or unexpected conditions. Use this page to configure the startup settings The Java home directory (path on the machine running Node Manager) to use when starting this server. More Info The Java Vendor value to use when starting this server. More Info The Java Vendor value to use when starting this server. More Info The BEA home directory (path on the machine running Node Manager) to use when starting this server. More Info The directory that this server uses as its root directory. This directory must be on the computer that hosts Node Manager. If you do not specify a Root Directory value, the domain directory is used by default. More Info The dasspath (path on the machine running Node Manager) to use when starting this server. More Info	w changes and restarts
Lock & Edit Configuration Protocols Logging Debug Notes Release Configuration Protocols Logging Debug Notes anin Structure General Cluster Servers SSL Federation Services Deployment Migration Tuning Overload Health Monitoring Servers SL Cuters Servers SSL Federation Services Deployment Migration Tuning Overload Health Monitoring Servers SL Cuters Servers SSL Federation Services Deployment Migration Tuning Overload Health Monitoring Servers SL Cuters Servers Status The Java home directory (path on the machine running Node Manager Mi use to start this server on a remote machine. Java Vendor: The Java Vendor value to use when starting this server. More Info Virtual hots Work Manager The Java Vendor value to use when starting this server. More Info Java Vendor: The Java Vendor value to use when starting this server. More Info Java Vendor: The descopth (path on the machine running Node Manager) for use on the computer that hots hode Manager. If you do not seed Directory value, the domain directory is use	Ind restart servers in normal or unexpected conditions. Use this page to configure the startup settings The Java home directory (path on the machine running Node Manager) to use when starting this server. More Info The Java Vendor value to use when starting this server. More Info The Java Vendor value to use when starting this server. More Info The BEA home directory (path on the machine running Node Manager) to use when starting this server. More Info The directory that this server uses as its root directory. This directory mate be on the computer that bhas Node Manager. If you on to specify a Root Directory value, the domain directory is used by default. More Info The classpath (path on the machine running Node Manager) to use when starting this server. More Info	
Release Configuration Release Configuration ain Structure wroment -Servers -Couters -Myrabiants -Coherence Custers -Manager is a Webkog: Server utility that you can use to start, suspend, shut down, and restart servers in normal or unexpected conditions. Use this page to configure the startup that Nooe Manager will use to start this server on a remote machine. -Server Server Tendates -Coherence Custers -Mode Manager is a Webkog: Server utility that you can use to start, suspend, shut down, and restart servers in normal or unexpected conditions. Use this page to configure the startup that Nooe Manager will use to start this server on a remote machine. -Coherence Custers -Mode Managers -Coherence Custers -Manager Server Startup and Studiown Classes polyments provices Index scannon The Java Home: -Startup and Studiown Classes polyments mode Servers from the ministration Console at dwn ager server strutt the dwn ager were instance ministration Console the dwn ager were instance -Startup and Studiown Classes polyments ministration Console the dwn ager were instance -Startup and Studiown Classes polyments ministration Console the dwn ager were instance -Startup and Studiown Classes polyments ministration Console	Ind restart servers in normal or unexpected conditions. Use this page to configure the startup settings The Java home directory (path on the machine running Node Manager) to use when starting this server. More Info The Java Vendor value to use when starting this server. More Info The BEA home directory (path on the machine running Node Manager) to use when starting this server. More Info The directory that this server use as its root directory. This directory must be on the computer that hosts Node Manager. If you don specify a Root Directory value, the domain directory is used by default. More Info The dasspath (path on the machine running Node Manager) to use when starting this server. More Info	
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informent: Servers: Servers: Clusters: Server: Templates: The Java home directory (path on the machine running Node Manager is a WebLogic Server utility that you can use to start, suspend, shut down, and restart servers in normal or unexpected conditions. Use this page to configure the startup Servers: Server: Templates: Migratable Targets: The Java home directory (path on the machine running Node Managers's Startup and Shutdown Classes Work Managers: The Java Vendor: Java Vendor: The Java Vendor value to use when starting this server. More Info BEA Home: The Java Vendor value to use when starting this server. More Info Work Manager is a WebLogic Server instance The BEA home directory (path on the machine running Node Manager is a WebLogic Server. More Info BEA Home: The Java Vendor: The directory that this server uses as its root directory. This directory value, the domain directory is used by default. More Info Messanion: The dasspath (path on the machine running Node Manager) is used by default. More Info Class Path: The dasspath (path on the machine running Node Manager) is used by default. More Info of Running Servers More Info The dasspath (path on the machine running Node Manager) is used by default. More Info of Running Servers More Info The dasspath (pat	The Java home directory (path on the machine running Node Manager) to use when starting this server. More Info The Java Vendor value to use when starting this server. More Info The BEA home directory (path on the machine running Node Manager) to use when starting this server. More Info The BEA home directory (path on the machine running Node Manager) to use when starting this server. More Info The directory that this server uses as its root directory. This directory must be on the computer that hosts Node Manager. If you do not specify a Root Directory value, the domain directory is used by default. More Info The dasspath (path on the machine running Node Manager) to use when starting this server. More Info	in Structure
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Work Managers Startup and Shutdown Classes wices wices Messacion o L. Figure startup arguments for Managed servers from the inistration Console mistration Console of Running Servers	use when starting this server. More Info The directory that this server uses as its root directory. This directory must be on the computer that hosts Node Manager. If you do not specify a Root Directory value, the domain directory is used by default. More Info The dasspath (path on the machine running Node Manager) to use when starting this server. More Info	-Coherence Clusters -Machines
Addressantion 	be on the computer that hosts Node Manager. If you do not specify a Root Directory value, the domain directory is used by default. More Info The classpath (path on the machine running Node Manager) to use when starting this server. More Info	-Work Managers -Startup and Shutdown Classes ployments
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In Status of Running Servers		
of Running Servers		
of Running Servers		t down a server instance
		m Status 🖂
Failed (n) The arguments to use when starting this server. More Info		of Running Servers
-XX:MaxPermSize=512m	The arguments to use when starting this server. More Info	Failed (0)

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



6. Foreign Server Creation

6.1 Module Creation

1) JMS_Modules and Click on New

Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: pegjme
View changes and restarts	Home >Summary of Servers >MS-JMS2 >Summary of Virtual Hosts >Summary of Se Deployments >Summary of JMS Modules	vers >Summary of Clusters >Summary of Migratable Targets >Summary of Servers >Summary of
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Summary of JMS Modules	
Domain Structure		J2EE modules. Such resources include queues, topics, connection factories, templates, destination keys, d-forward (SAF) parameters. You can administratively configure and manage JMS system modules as
Work ManagersStartup and Shutdown ClassesDeploymentsDeploymentsMessagingMS ServersStore-and-Forward Agents	global system resources. This page summarizes the JMS system modules that have been created for this Customize this table JMS Modules Vew Delete	
Bridg JMS Modules, Level 3, 3 of 5,	Selected	Showing 1 to 1 of 1 Previous Next
Data Sources Persistent Stores	🔲 Name 🗇	Туре
Foreign JNDI Providers	JMS_Module	System
How do I	New Delete	Showing 1 to 1 of 1 Previous Next
Configure JMS system modules		
 Configure resources for JMS system modules 		

2) Enter name as MDB_MODULE and click on Next

	inistration Console 12c 🤤
Change Center	🏦 Home Log Out Preferences 🖾 Record Help
View changes and restarts	Home > Summary of Migratable Tarnete < MG-1MG1 / minratable) < Summany of Migratable Tarnete < MG-1MG2 / minratable) < Summary of Clusters > Summary of Migratable Targets > MG-1MG2 / minratable) > S
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain. Domain Structure	Create JM5 System Module
DeProvincement Deployments Deservices Devices Devices	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
i →Path Services E) -Bridges →Data Sources →Persistent Stores →Foreign JNDI Providers →Work Contexts	What would you like to name your System Module? * Name: MDB_MODULE
Configure JMS system modules Configure JMS servers	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: 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: Back Next Finish Cancel



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

	dministration Console 12c		9
Change Center	Home Lag Out Preferences 🐼 Record Help	Q	Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home splaceholder s Summary of Servers s Summary of Server Modules JMS MODULE s Summary of 3HS Hodules	Templetes >OC_IMS_Template 0 >Summary of Server	Templetes x DC_3HS_Templete 0 x Summary of Servers x Summary of 3HS
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create JHS System Hodule Back Next Front Cancel The following properties will be used to target your		
Release Configuration Domain Structure	Lite this page to select the server or cluster on which you w		reconfigure targets later if you wish.
Charters Coherens Coherens Coherens Coherens Coherense Custers Madrines What Mosts	Targets : Servers AdminServer		
- Work Managers Startup and Shutdown Classes	Clusters		
Deployments Defloyments Defloymen	Cluster-App All servers in the cluster		
How do L. If a configure 245 system modules • Configure 245 servers	Cluster-JHS All servers in the cluster		

4) Select 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 Servers >MS-JMS2 >Summary of Virtual Hosts >Summary of Servers >Summary of Clusters >Sum Deployments > Summary of JMS Modules	nmary 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 Indule Back Next Finish Cancel	
Domain Structure	Add resources to this JMS system module	
Environment Servers Clusters Coherence Clusters Migratable Targets Coherence Clusters Midnies Virtual Hosts Work Managers Statuto and Shutdown Classes	Use this page to indicate whether you want to immediately add resources to this JMS system module after it is work to this JMS system module after it is a work to the sources to this JMS system module?	created. JMS resources include queues, topics, connection factories, etc.

5) MDB_MODULE is created

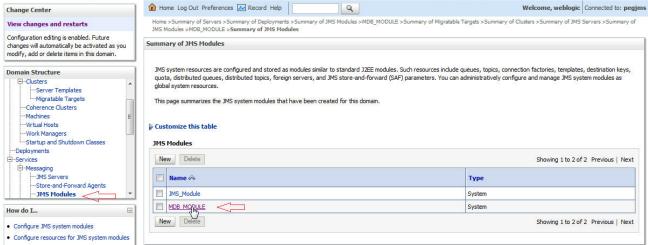
	ministration Console 12c	Q				
Change Center	🔒 Home Log Out Preferences 🖾 Record Help	Welcome, weblogic Connected to: pegims				
View changes and restarts	Home >Summary of Clusters >Summary of Migratable Targets >Summary of Servers >Summary of Deployments >Summary of JMS Modules >MDB_MODULE >Summary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



6.2 Foreign Server Creation

In MDB_MODULE, Click on New Resource, Select Foreign Server

ORACLE' WebLogic Server Administration Console 12c



1) Click on Configuration → New

	dministration Conso	le 12c					9
Change Center	Home Log Ou	t Preferences 🔤 Recor	d Help	Q		Welcome, weblogi	c Connected to: pegj
/iew changes and restarts		of Deployments >Summary ODULE >Summary of JMS !			y of Migratable Targets >Summary of C	lusters >Summary of JMS Servers >Summary of	of JMS
onfiguration editing is enabled. Future hanges will automatically be activated as you	Settings for MDE	_MODULE					
nodify, add or delete items in this domain.	Configuration	Subdeployments Targ	ets Security	Notes			
omain Structure							
B-Environment	This page displa	ys general information abo	ut a JMS system	n module and its resource	s. It also allows you to configure new	resources and access existing resources.	
Servers	Name:		ME	B_MODULE	The nar	me of this JMS system module. More Info	
Migratable Targets Coherence Clusters	Descriptor File	Descriptor File Name: jms/mdb_module-jms.xml The name of the JMS module descriptor file. More Info				Info	
Machines Virtual Hosts Work Managers Startup and Shutdown Classes		arizes the JMS resources t nation quota, distributed d				destinations, connection factories, JMS tem	plates, destination
Deployments 3-Services	Customize the	is table					
ow do I	Summary of R	esources					
No task help found.	New Dele	te				Showing 0 to 0	of 0 Previous Next
No task help found.	🔲 Name 🐟	Тур	2	JNDI Name	Subdeployment	Target	IS
ystem Status 🖂				There	e are no items to display		
ealth of Running Servers	New Dele	te				Showing 0 to 0	of 0 Previous Next
Failed (1)	13						
Critical (0)							



0

2) Select Foreign Server and Click on Next

hange Center	🔒 Home Log Out Preferences 🖂 Record Help	Welcome, weblogic Connected to: peg
iew changes and restarts	Home >Summary of Deployments >Summary of JMS Modules >MDB_MODULE >S Modules >MDB_MODULE >Summary of JMS Modules >MDB_MODULE	Summary of Migratable Targets >Summary of Clusters >Summary of JMS Servers >Summary of JMS
onfiguration editing is enabled. Future		
nanges will automatically be activated as you	Create a New JMS System Module Resource	
odify, add or delete items in this domain.	Back Next Finish Cancel	
omain Structure		
indin Scructure	Choose the type of resource you want to create.	
-Environment		
Servers	Use these pages to create resources in a JMS system module, such as queue	es, topics, templates, and connection factories.
⊟-Clusters		
Server Templates		asic information for creating the resource. For targetable resources, like stand-alone queues and topics,
LMigratable Targets		IS SAF destinations, you can also proceed to targeting pages for selecting appropriate server targets. Yo dvanced mechanism for grouping JMS module resources and the members to server resources.
Coherence Clusters		and the method in the grouping and module readerees and the members to be verification esti-
Virtual Hosts		
Work Managers	Connection Factory	Defines a set of connection configuration parameters that are used to create connections for JMS clients. More Info
Startup and Shutdown Classes		create connections for JMS clients. More info
Deployments	© Queue	Defines a point-to-point destination type, which are used for
Services		asynchronous peer communications. A message delivered to a queue
I-F-Messaning		is distributed to only one consumer. More Info
w do I	al	
w 00 1		
	© Topic	Defines a publish/subscribe destination type, which are used for
onfigure quotas for destinations	◎ Торіс	asynchronous peer communications. A message delivered to a topic is
Configure quotas for destinations Configure JMS templates	© 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 quotas for destinations Configure JMS templates Configure destination keys		asynchronous peer communications. A message delivered to a topic is distributed to all topic consumers. More Info
Configure quotas for destinations Configure JMS templates Configure destination keys Configure topics	Topic Distributed Queue	asynchronous peer communications. A message delivered to a topic is distributed to all topic consumers. More Info Defines a set of queues that are distributed on multiple JMS servers,
ionfigure quotas for destinations ionfigure JMS templates ionfigure destination keys ionfigure topics ionfigure queues		asynchronous peer communications. A message delivered to a topic is distributed to all topic consumers. More Info Defines a set of queues that are distributed on multiple JMS servers,
onfigure quotas for destinations onfigure JMS templates onfigure destination keys onfigure topics onfigure queues onfigure connection factories	Distributed Queue	asyndronous peer communications. A message delivered to a topic is distributed to all topic consumers. More Info Defines a set of queues that are distributed on multiple JMS servers, but which are accessible as a single, logical queue to JMS clients. Mo Info
onfigure quotas for destinations onfigure JMS templates onfigure destination keys onfigure topics onfigure queues onfigure connection factories		asynchronous peer communications. A message delivered to a topic is distributed to all topic consumers. More Info Defines a set of queues that are distributed on multiple JMS servers, but which are accessible as a single, logical queue to JMS clients. Mor Info Defines a set of topics that are distributed on multiple JMS servers,
Configure quotas for destinations Configure JMS templates Configure destination keys Configure topics Configure queues Configure connection factories Configure uniform distributed topics	Distributed Queue	asyndronous peer communications. A message delivered to a topic is distributed to all topic consumers. More Info Defines a set of queues that are distributed on multiple JMS servers, but which are accessible as a single, logical queue to JMS clients. Mor Info Defines a set of topics that are distributed on multiple JMS servers, but which are accessible as a single, logical topic to JMS clients. More
Configure quotas for destinations Configure JMS templates Configure destination keys Configure topics Configure queues Configure connection factories Configure inform distributed topics Configure uniform distributed queues	Distributed Queue	asynchronous peer communications. A message delivered to a topic is distributed to all topic consumers. More Info Defines a set of queues that are distributed on multiple JMS servers, but which are accessible as a single, logical queue to JMS clients. Mor Info Defines a set of topics that are distributed on multiple JMS servers,
Configure quotas for destinations Configure quotas for destinations Configure Quotas for destination keys Configure destination keys Configure queues Configure queues Configure connection factories Configure uniform distributed topics Configure or foreign servers Configure foreign servers	Distributed Queue	asynchronous peer communications. A message delivered to a topic is distributed to all topic consumers. More Info Defines a set of queues that are distributed on multiple JMS servers, but which are accessible as a single, logical queue to JMS clients. More Info Defines a set of topics that are distributed on multiple JMS servers, but which are accessible as a single, logical topic to JMS clients. More

3) Enter name and Click on Next

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



4) Click on Advanced Targeting

	iministration Console 12c		Q
Change Center	🏠 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home >DC_JMS_Template=0 >Summary of Server Templates >DC_JMS_Ter JMS Modules >MDB_MODULE	mplate-0 >Summary of Servers >Sur	nmary of JMS Modules >JMS_MODULE >Summary of JMS Modules >MDB_MODULE >Summary of
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration	Create a New JMS System Module Resource Back Net Fnish Advanced Targeting Cancel The following properties will be used to target your new JMS	S system module resource	
Domain Structure	accept the default targets, then click Advanced Targeting to use t	the subdeployment mechanism for	sult targets are based on the parent JMS system module targets. If you do not want to targeting this resource.
-Clusters -Server Templates -Migratable Targets -Coherence Clusters -Machines -Writeal Hosts	appropriately. Targets: Clusters		
Work ManagersStartup and Shutdown ClassesDeployments E-Services E-Messarion	Clusters Cluster-App 		
How do I 🖂	Back Next Finish Advanced Targeting Cancel		
Configure quotas for destinations	12 M 12		

5) Click on Create New SudDeployment

	dministration Console 12c	Q					
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: pegjms					
View changes and restarts	Home >Summary of Deployments >Summary of JMS Modules >MDB_MODULE >Summary of Migratable Targets > Modules >MDB_MODULE >Summary of JMS Modules >MDB_MODULE	Summary of Clusters >Summary of JMS Servers >Summary of JMS					
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create a New JH5 System Module Resource Back Next Finish Cancel						
Domain Structure	The following properties will be used to target your new JHS system module resource						
-Environment -Servers -Clusters -Vioratable Targets	Use this page to select a subdeployment to assign this system module resource. A subdeployment is a mech cluster, or SAF agent. If necessary, you can create a new subdeployment by clicking the Create a New S later by using the parent module's subdeployment management page.						
Coherence Clusters Select the subdeployment you want to use. If you select (none), no targeting will occur. Write Hosts Wite Hosts Work Managers Subdeployments: (none) (none) (reate a New Subdeployment) (reate a New Subdeployment) (reate a New Subdeployment)							
Startup and Shutdown Classes	What targets do you want to assign to this subdeployment?						

6) Enter Name as MDB_SUB and Click on OK

	dministration Console 12c			Q
Change Center	🔒 Home Log Out Preferences 🖂 Record He	elp 🔍		Welcome, weblogic Connected to: pegjm
View changes and restarts	Home >Summary of Deployments >Summary of JM Modules >MDB_MODULE >Summary of JMS Modul		ratable Targets >Summary of Clusters >Sum	mary of JMS Servers >Summary of JMS
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create a New Subdeployment			
Domain Structure	Subdeployment Properties			
E-Environment	The following properties will be used to identify	your new subdeployment.		
E-Clusters	Subdeployment Name:	MDB_SUB		
Coherence Clusters Coherence Clusters Machines Virtual Hosts Work Managers Startup and Shutdown Classes	OK Cancel			6



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

	ministration Console 12c						
Change Center	Home Log Out Preferences Record Help Welcome, weblogic Connected to: FCUBSDoma						
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 MODULE >SUMMARY of JMS 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, duster, or						
	SAF agent. If necessary, you can create a new subdeployment by clicking the Create a New Subdeployment button. You can also reconfigure subdeployment targets later by using the parent module's subdeployment management page.						
Server Templates	Select the subdeployment you want to use. If you select (none), no targeting will occur.						
Coherence Clusters Machines Virtual Hosts	Subdeployments: MDB_SUB Create a New Subdeployment						
	What targets do you want to assign to this subdeployment?						
	Targets :						
How do I	Servers						
Configure quotas for destinations	AdminServer						
Configure JMS templates Configure destination keys	Clusters						
Configure topics	@ Cluster-App						
Configure queues Configure connection factories	All servers in the cluster						
Configure uniform distributed topics	JMS Servers						
Configure uniform distributed queues							
Configure foreign servers	JMSServer-1						
Configure JMS SAF							
System Status	Back Next Frish Cancel						

8) Foreign Server is created

	ninistration Console 12c				õ	
Change Center	🟦 Home Log Out Preferences 🔤 Recor	d Help		Welco	me, weblogic Connected to: pegjm	
View changes and restarts	Home >Summary of Deployments >Summary Modules >MDB_MODULE >Summary of JMS I		ummary of Migratable Targets >S	ummary of Clusters >Summary of JMS Serve	ers >Summary of JMS	
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Messages	istarts are necessary.				
Domain Structure		siciliy.				
	Settings for MDB_MODULE					
	Configuration Subdeployments Targ	gets Security Notes				
ClustersServer TemplatesMigratable TargetsCoherence ClustersMachinesMachines	This page displays general information abo	out a JMS system module and its re	sources. It also allows you to co	onfigure new resources and access existin	ig resources.	
Machines Virtual Hosts	Name:	MDB_MODULE		The name of this JMS system module. More Info		
	Descriptor File Name: This page summarizes the JMS resources t	jms/mdb_module-jms.		The name of the JMS module descriptor file. More Info		
- Messanino	sort keys, destination quota, distributed d	lestinations, foreign servers, and s	ore-and-forward parameters.			
How do I No task help found.	Customize this table					
System Status	Summary of Resources					
	New Delete			S	Showing 1 to 1 of 1 Previous Next	
Health of Running Servers Failed (1)	🔲 Name 🐟	Туре	JNDI Name	Subdeployment	Targets	
Critical (0)	ForeignServer-1	Foreign Server	N/A	MDB_SUB	Cluster-App	
Overloaded (0) Warning (0) OK (3)	New Delete	1	1	5	Showing 1 to 1 of 1 Previous Next	



6.3 Foreign Server Configuration

1) Click on ForeignServer-1

		it Preferences 🔤 R	occor more	1				Websers web	
hange Center	Home Log Ou	it Preferences 🚵 R	ecord Help		9			Welcome, web	logic Connected to: peg
/iew changes and restarts		of Deployments >Sum IODULE >Summary of J				ummary of Migratable Targets >Su	mmary of Clusters >Summary o	f JMS Servers >Summ	ary of JMS
onfiguration editing is enabled. Future hanges will automatically be activated as you odify, add or delete items in this domain.	Messages	ave been activated. N	No restarts a	are necess	ary.				
omain Structure	The foreign s	erver was created su	ccessfully.						
	Settings for MDE	S_MODULE							
Servers	Configuration	Subdeployments	Targets	Security	Notes				
Clusters Server Templates Migratable Targets Coherence Clusters Machines	This page displa	ys general information	n about a JN		module and its re MODULE	sources. It also allows you to co	nfigure new resources and acc	-	
Virtual Hosts Work Managers	Name.			MDC					
Startup and Shutdown Classes	Descriptor File	Name:		jms	/mdb_module-jms	xml	The name of the JMS module descriptor file. More Info		
In the section of the	sort keys, desti	nation quota, distribut				S system module, including queu tore-and-forward parameters.	e and topic destinations, conn	ection factories, JMS	templates, destination
No task help found.	Customize thi	is table							
	Summary of R	esources							
ystem Status	New Dele	te				20	~	Showing 1	to 1 of 1 Previous Nex
Failed (1)	🔲 Name 🐟	<u></u>	Тур	e		JNDI Name	Subdeployment	т	argets
Critical (0)	Eoreignie	rver-1	Forei	gn Server		N/A	MDB_SUB	d	uster-App
Overloaded (0)	New Dele	te						Showing 1	to 1 of 1 Previous Nex
Warning (0)									

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	9	Welcome, weblogic Connected to: FCUBSDomail				
View changes and restarts	Nome siturnary of Datters siturnary of Server Template siturnary of Servers siturnary of 2KS Mobiles +MDB_MODULE siturnary-of Servers siturnary of 2KS Mobiles +MDB_MODULE siturnary-of ServerServerS							
Click the Lock & Edit button to modify, add or delete items in this domain.	Messages							
Lock & Edit								
Release Configuration	Settings for ForeignServer-1							
Ana tao na an	Configuration Subdeployment N	kotes						
Domain Structure	General Destinations Connection	n Factories						
Crive content Servers Counters Counters Mogratable Tangets Coherence Custers Modivers Virtual nosts Work Managers Startup and Studiown Classes		ovider that resides outsi		that allows WebLogic Server to reach the remote 3KOI provider. This way, a number of page to configure a foreign server. The name of this foreign server. More 1xfs				
Deployments								
E Services	3MDI Initial Context Factory:	weblogic indi	WLInital	The name of the class that insist be instantiated to access the 3401 provider. This class name depends on the XBI provider and the vendor that are being used. More thinks				
How do L. 8				and the Restory of the Restory				
Create foreign connection factories Create foreign destinations	3NDI Connection URL:	13//10.184.14	8, 185, 7106, 10, 184, 148, 189, 7107	The URL that WebLogs Server will use to contact the JRCI provider. The syntax of the URL depends on which JRCI provider is being used. For WebLogs: JRCI, leave the field black if you are referencing WebLogic JRCI objects within the same cluster. More SrR .				
System Status				AND A REAL PROPERTY AND A REAL				
Health of Running Servers	3MDI Properties Credential			Any Credentals that must be set for the JHDI provider. These Credentals				



3) Click on Connection Factories

w changes and restarts			Necord Help	Q	Welcome, weblogic Connected to: pegjr
(17)S			of Migratable Targets Server-1 > Configur	nary of Clusters >Summary of JMS Servers >Sumr	nary of JMS Modules >MDB_MODULE >Summary of JMS
figuration editing is enabled. Future noes will automatically be activated as you	Settings for For	eignServer-1	-		
ify, add or delete items in this domain.	Configuration	Subdeploymen	t Notes		
nain Structure	General Dest	inations Conn	ection Factories		
		ection Factorie	s (Filtered - More	nns Exist)	
Services	New Dela	ete			Showing 0 to 0 of 0 Previous Next
=-Messaninn	Name 🖉	\$	Local JN	ne	Remote JNDI Name
/ do I 🖂				There are no items to displa	y
onfigure foreign servers reate foreign destinations	New Dele	ete			Showing 0 to 0 of 0 Previous Next

4) Create MDBQCF Connection Factory

ORACLE WebLogic Server	Idministration Console 12c		0
Change Center	A Home Log Out Preferences 🔛 Record He	•	Welcome, weblogic Connected to: pegjess
View changes and restarts	Home +HDB_HODULE +Summary of Migratable Ta Hodules +HDB_HODULE +Penetgetlarver1.+Carel	right vSummary of Outlets vSummary of 2HS Servers vSum fearnation	nary of 2HS Modules xMDB_MODULE xSummary 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 Facto		
Demain Structure	Foreign Connection Factory Properties The following properties will be used to identify * Indicates required fields * Name: MDBi Local JHDI Name: MDBi Remote JHDI Name: MDBi	DCF	
Now do L.	OK. Cancel		

5) Click on Destination

ORACLE WebLogic Server A						
Change Center	Hone Log Out Weferences See Record	148 Q		Welcome, weblogic Connected to: pegg		
View changes and restarts	None s108_HODULE >Summary of Highebbi Notube s108_HODULE >Poneprilaryer-5 x5		of 2MS Servers s Jurrenary of 2MS Hoskins +HOB_MG	OULE charmery of IMS		
Configuration editing is enabled. Puture changes will automatically be activated as you modify, add or delete items in this domain.	Messages Vid danges have been activated. However	er 1 term, must be restarted for the cha	nges to take effect.			
Domain Structure	Settings for ForeignServer-1					
Bitragment	Configuration Subdeployment Ricles					
Servers	General Destruction Fac	tories				
ID Clusters Server Templates	Configuration - Destinations- Tab					
Migratable Yargets Coherence Clusters			er server, and which is accessible via JHDL A remoti reign provider, as long as that provider supports 34			
- Machines	This page summarizes the foreign connection					
- Work Harvegers	The page surround are nongrigations	THE WAR INCOMENTATION OF THE OWNER OF T				
-Startup and Shutdown Classes	P Customize this table					
8 Services .	Foreign Connection Factories (Filtered	- Hore Columns Exist)				
How do L. 🗄	New Dubtic			Showing 1 to 1 of 1 Previous Next		
Configure foreign servers	🔁 Name 🖧 🛛	ocal JNDI Name	Remote JNDI Name			
Oreate foreign destinations	MOBQCY M	08007	MDBQC ^H			
System Status 8	New [Doing]		100000	Showing 1 to 1 of 1 Previous Next		



6) Create MDB_QUEUE

View changes and restarts	Home >JMS Modules >MDB_MODU	.E >ForeignServer-1 >MD8_MODULE >ForeignServer-1 >Si	>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	t Notes	
Domain Structure	General Destinations Con	nection Factories	
Environment Servers Custers Custers Winitable Targets Coherence Servers Coherence Servers Work Managers Startup and Shuddown Classes Services Deployments Derkesping Chersping	directory, and the object will be		destination is looked up on the local server, a look-up will be performed automatically on the remote JNDI ain. Showing 0 to 0 of 0 Previous Next Remote JNDI Name
How do I		T	There are no items to display
Configure foreign servers Create foreign connection factories	New Delete		Showing 0 to 0 of 0 Previous Next
System Status Health of Running Servers			

	dministration Console 12c					õ
Change Center	Home Log Out Preference	s 🔤 Record Help	Q		Welcome, weblogic	Connected to: pegjms
View changes and restarts	Home >MDB_MODULE >Summa Modules >MDB_MODULE >Forei		y of Clusters >Summary of JMS Se	ervers >Summary of JMS Modules >MDB_MODUL	_E >Summary of JMS	
Configuration editing is enabled. Future changes will automatically be activated as you	Create a New Foreign JMS D					
modify, add or delete items in this domain.	OK					
Domain Structure	Foreign Destination Prope	erties				
	The following properties will be * Indicates required fields * Name: Local JNDI Name: Remote JNDI Name:	MDB_QUEUE	gn destination.			
-Messaninn *	Remote JNDI Name:	MDB_QUEUE				
How do I 🗉	OK Cancel					
Configure foreign servers Create foreign connection factories						

7) Similarly Create MDB_QUEUE_RESPONSE, MDB_QUEUE_DLQ

	dministration Console 12c					Q
Change Center	Home Log Out Preference	s 💽 Record Help		٩		Welcome, weblogic Connected to: pegjm
View changes and restarts	Home >MDB_MODULE >Summa Modules >MDB_MODULE >Forei			Clusters >Summary of JM	15 Servers >Summary of JMS Mode	les >MDB_MODULE >Summary of JMS
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create a New Foreign JMS D					
Domain Structure						
Emvironment Servers Clusters -Server Templates Migratable Targets -Coherence Clusters -Machines -Wirkula Hosts -Wirk Managers -Startup and Shutdown Classes -Oepoloyments	Foreign Destination Prope The following properties will be * Indicates required fields * Name: Local JNDI Name:	e used to identify yo	ur new foreign de UEUE_RESP(UEUE_RESP(C		
	Remote JNDI Name:	MDB_Q	UEUE_RESP	ONSE		
How do I • Configure foreign servers • Create foreign connection factories	OK Ls					



Change Center	😰 Home Log Out Preferences 🔛 Record Help	Q	Welcome, weblogic Connected to: pegin
View changes and restarts	Home > NDB_MODULE > Summary of Migratable Targets > Sum Modules > MOB_MODULE > ForeignServer 1 > Coefficientiation	nery of Outers >Summary of JMS Servers >Summ	ery of 3MS Modules >MDB_MODULE >Summary of 3MS
Configuration editing is enabled. Puture changes will automatically be activated as you modify, add or delete items in this domain.	Hexsages #A dhanges have been activated. However 1 items must	t be restarted for the changes to take effect.	
Domain Structure	Settings for ForeignServer-1		
	Configuration Subdeployment Notes		
B Environment -Servers B-Ousters	General Destinations Connection Factories		
Coherence Clusters - Nachman - Withuil Hosts - Work Managers - Startup and Shutdown Classes - Deployments B: Services - Services	362 directory, and the object will be returned from that d This page summarizes the foreign destinations that have b Customize this table Foreign Destinations		
Machines - With Managers - Startup and Skutdown Classes - Deployments - Services - St. Messanon	This page summarizes the foreign destinations that have b		Showing 1 to 2 of 2 Previous Next
Machines Michael Hosts Michael Hosts Michael Hosts Schrup and Shutdown Classes Deployments Services Configure foreign servers Configure foreign servers	This page summarizes the foreign destinations that have b Customize this table Foreign Destinations		Showing 1 to 2 of 2 Previous Next Remote JIIDI Name
Machines Minuel Hosts Minuel Hosts More Managers Starkup and Shutdown Classes Deployments Poervices Configure foreign servers	This page summarizes the foreign destinations that have b Customize this table Foreign Destinations	een created for this domain.	and the second of
Machines Whull Hosts Work Managers Starkup and Shutdown Classes Deployments Services Rinkesacono How do L. Canfigure foreign servers Create foreign connection factories	This page summarizes the foreign destinations that have b Customize this table Foreign Destinations New Delete Tame	een created for this domain.	Remote JNDI Name

ORACLE WebLogic Server Administration Console 12c

Change Center	and there and not there are a	tel osten o redu	and the second sec	mentannis mentalite considered at helling
View changes and restarts	Home >MD8_MODULE >Summary Modules >MD8_MODULE >Foreign		nary of Outlans a Summary of IMS Servers a Summar	y of JMS Modules + MDB_MODULE > Summery of JMS
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create a flew Foreign 3HS Desi	Solitanse autoree		
Domain Structure	OK Cancel Foreign Destination Propert	ies.		
Bowronnent Servers Ousters	The following properties will be u	sed to identify your new f	oreign destination.	
Server Templates Mgratable Targets Coherence Clusters	Indicates required fields			
Machines Virtual Hosta Work Managers	*Name:	MDB_QUEUE	DLQ	
-Startup and Shutdown Classes -Deployments	Local JNDI Name:	MDB_QUEUE	DLQ	
B-Services	Remote 3NDI Name:	MDB_QUEUE	DLQ	
How do L.	Log Carca			
Configure foreign servers	L			

Change Center	😧 Home: Log Out: Preferences 🔛 Record: Help	Q	Welcome, weblogic Connected to: pegji
View changes and restarts	Home >MDB_MODULE >Summary of Migratable Targets >S Modules >MDB_MODULE >ForeignServer 1 > Configuration	unimery of Clusters +Summery of 2HS Servers +Summe	ry of 3HS Modules >MDR_MODULE >Summary of 3HS
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Messages # All changes have been activated. However 1 items m		
Domain Structure	Settings for ForeignServer-1		
B-Enveronment	Configuration Subdeployment Notes		
-Severs a	General Destinations Connection Factories		
		t directory.	
Machines With Managers Startup and Shutdown Classes Opployments Sances Pressance	This page summarizes the foreign destinations that hav is Customize this table Foreign Destinations		
Virtual Hosts Vork Managers Vork Managers Startup and Shutdown Classes Deployments Senices Guttersactore Childressactore	© Customize this table		Showing I to 3 of 3 Previous Next
Winuel Hosts Work Managers Startup and Stutiowin Classes Opployments Senices Americanity How do L Configure foreign servers	© Customize this table Foreign Destinations		Showing I to 3 of 3 Previous Next Remote JHD1 Name
Winuel Hosts Work Managers Startup and Stutiowin Classes Opployments Senices Americanity How do L Configure foreign servers	Customize this table Foreign Destinations Jiew. Delete	e been created for this domain.	The case of the control of the contr
Hortual Hosts Hork Managers Starting and Shutdown Classes Deployments Seniors American Configure foreign servers Configure foreign connection factories	Customize this table Foreign Destinations Ilies: Destination Rame &	e been created for this domain.	Remote JHDI Name
Virtual Hosts Virtual Hosts Virk Managers Startug and Shutdown Classes Deployments Semicis Annessmen How do L. Configure foreign servers Create foreign connection factories	Customize this table Foreign Destinations Itigs: Dointe Rame de Noe_queue	e been created for this domain.	Remote JNDI Name NOB_QUEUE

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



7. Application Deployment

1) Deploy the EAR with Target as Cluster-App

Change Center	III Home	Log Out Preferences	s 🔤 Record He	ab		Q	<u>28</u>			Welcome, weblogic Connected to: base_do
View changes and restarts	Home >JM	IS Modules >MDB_MOD	ULE >ForeignServe	er-1 >JMS M	odules >Sum	mary of Dep	oloyments >	Summary of Ser	vers >Summ	ary of Deployments >Summary of Servers >Summary of Deployments >GWMDB
Configuration editing is enabled. Future	Settings fo	or GWMDB								
changes will automatically be activated as you modify, add or delete items in this domain.	Overview	Deployment Plan	Configuration	Security	Targets	Control	Testing	Monitoring	Notes	
Domain Structure	startup ti		/ebLogic Server ir	nstances an	id clusters to	which you	ı want to de	ploy this Ente	rprise appli	cation. These settings determine where the application is deployed at server
		Targets								Showing 1 to 1 of 1 Previous Nex
Coherence Servers	Cor	mponent 🐟				Туре				Current Targets
Machines Work Managers		GWMDB				Enterpr	ise Applicat	tion		Cluster-App
Startup and Shutdown Classes		GW_MDB_Bean.jar				EJB				(None specified)
Deployments Services Messaning	Change	Targets								Showing 1 to 1 of 1 Previous Nex
How do I 🖂	1									
Start and stop a deployed Enterprise										

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



-	🏦 Home Log Out Preferences 🔤 Record Help				, weblogic Connected to: base_don
iew changes and restarts	Home >Summary of Environment >Summary of Servers >Summary of Deployments >JMS Mo of Deployments	dules >MDB_MODULE >Summa	ary of Environment >Su	mmary of Servers >Summa	ry of Deployments >GWMDB > Summary
onfiguration editing is enabled. Future nanges will automatically be activated as you	Summary of Deployments				
odify, add or delete items in this domain.	Control Monitoring				
omain Structure					
Deployments Services	To install a new application or module for deployment to targets in this domain, click Customize this table Deployments	the Install button.			
⊡-Bridges Data Sources	Install Update Delete Startv Stopv				Showing 1 to 5 of 5 Previous Next
Data Sources Persistent Stores Foreign JNDI Providers	Install Update Delete Start v Stop v Name ♠	State	Health Ty	pe	Showing 1 to 5 of 5 Previous Next Deployment Order
Data Sources Persistent Stores Foreign JND1 Providers Work Contexts		State Active		pe terprise Application	
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Data Sources Persistent Stores Foreign JNDI Providers Work Contexts v do I nstall an Enterprise application	Name ⊕ ⊕ ⊕ ⊕ ⊕ ↓	Active	 ✓ OK ✓ OK Ent 	terprise Application	Deployment Order
Data Sources Persistent Stores Foreign JNDI Providers Work Contexts v do I nstall an Enterprise application ionfigure an Enterprise application ipdate (redeploy) an Enterprise application	Name ⊕ □ GCUBSApp ⊕ □ GWE18 ⊕ □ GWMD8	Active Active	♥ OK Eni ♥ OK Eni ♥ OK Eni ♥ OK Eni	erprise Application	Deployment Order 100 100
Data Sources Persistent Stores Foreign INDI Providers Work Contexts.	Name % B = FCUBSApp B = GWEJB	Active Active Active	Image: Constraint of the second sec	erprise Application erprise Application erprise Application	Deployment Order 100 100 100

Install Update Delete Start V Stop V

Showing 1 to 5 of 5 Previous | Next



8. Frequently Asked Questions

8.1 Application and JMS Cluster Deployed on Same Cluster

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

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

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

Managed Servers Start Order

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

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

ORACLE WebLogic Server®	Admir	nistratio	on Console					õ
Change Center	1	Home	Log Out Preferences 🔤 Record Help	Q			Welcome, w	veblogic Connected to: base_domain
View changes and restarts	н	ome > Su	mmary of Deployments					
Configuration editing is enabled. Future	Sun	nmary o	of Deployments					
changes will automatically be activated as you modify, add or delete items in this domain.	Co	ontrol	Monitoring					
Domain Structure	1							
Environment Deployments Security Realms Interoperability Diagnostics) T D ((redeploy To instal	yed), or deleted from the domain by first so I a new application or module for deploym ize this table	d stand-alone application modules that have be electing the application name and using the co ent to targets in this domain, click the Install b	ontrols on this pag	nis domain. Instal Je.	ed applications and modules	can be started, stopped, updated
			Update Delete Start v Stop v				5	Showing 1 to 5 of 5 Previous Next
		Na	me 💫		State	Health	Туре	Deployment Order
		•	FCUBSApp (12.0.3.0)		Active	🗸 ок	Enterprise Application	100
How do I 🖂		•	GWEIB		Active	≪ ок	Enterprise Application	100
Install an Enterprise application Configure an Enterprise application		•	GWMDB		Active	A Warning	Enterprise Application	100
Update (redeploy) an Enterprise application			jax-rs(1.1,1.9)		Active		Library	100
 Start and stop a deployed Enterprise application 		• E	SWEJB		Active	🖋 ок	Enterprise Application	100
 Monitor the modules of an Enterprise application 	1	Install	Update Delete Start v Stop v				- -	showing 1 to 5 of 5 Previous Next
Deploy EJB modules								
Install a Web application	-							
System Status	1			220				

- 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 \rightarrow JMS Modules \rightarrow JMS_MODULE \rightarrow MDB_QUEUE \rightarrow MONITORING

View changes and restarts	Home >ForeignSe	erver-1 >Configurati	on >MDBQCF >JMS Modules	>JMS_MODULE >I	MDB_QUEUE >Summary of JMS Message	s >JMS Modules >JMS_MODULE >MDB_(ONENE
Configuration editing is enabled. Future	Settings for MDI	B_QUEUE					
changes will automatically be activated as you modify, add or delete items in this domain.	Configuration	Security Monit	Subdeployment	Notes			
Domain Structure							
Environment Servers '-'Gusters '-'Virtual Hosts '-'Virtual Hosts '-'Oherence Servers '-'Coherence Clusters '-'Coherence Clusters '-'Machines	destination. To access the u	uniform distributed is table (Filtered - More (queue's message manage			ember destination name in the table be i then click the Show Messages butto	
Work Managers							
Work Managers Startup and Shutdown Classes Deployments	🔲 Name 🔅	\$			Consumers Current	Consumers High	Consumers Total
		OULE!JMSServer-10	MDB_QUEUE		Consumers Current 64	Consumers High 64	Consumers Total 64
└─Startup and Shutdown Classes ─Deployments →Services ⊡-Messaning	JMS_MOD		Not Cotto State State of Control				
└──Startup and Shutdown Classes ──Deployments ──Services ─────────────────────	JMS_MOD	OULEIJMSServer-10	Not Cotto State State of Control		64	64	64
Startup and Shutdown ClassesDeploymentsServicesMessaning	JMS_MOD	OULEIJMSServer-10	Not Cotto State State of Control		64	64	64 64

2) Select any one Server and Click on Show Messages

Configuration editing is enabled. Future	Summary of JMS Messages				
changes vill automatically be activated as you modify, add or delete items in this domain.				lurable subscriber. Use this page to view mes nother file, import XML formatted message c	
ClustersVirtual HostsVirtual HostsCoherence ServersCoherence ClustersWork ManagersStartup and Shutdown ClassesDeployments	Message Selector: © Customize this table JMS Messages (Filtered - More Colur	nns Exist)		Apply	
E-Services ⊡⊡-Messaninn	New Delete ~ Move ~ Import	Export ~			Showing 1 to 0 of 0 Previous Next
How do I 🗉	🔲 ID 🐟 🛛 CorrId	Time Stamp	State String	JMS Delivery Mode	Message Size
Manage queue messages			There are no items	to display	
Manage distributed queue messages Manage topic durable subscribers	New Delete v Move v Import	Export ~			Showing 1 to 0 of 0 Previous Next
System Status	·				



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

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

4) Message is Sent

		1				1
View changes and restarts		Modules >JM5_MODULE >MDB	_QUEUE >Summary of JMS Messages >JMS	5 Modules >JMS_MODULE >MDB_Q	UEUE >Summary of JMS Messag	es
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.						
	Summary of JMS Messages					
Domain Structure						
⊖ - Environment → Servers → Clusters → Virtual Hosts → Migratable Targets		es to another destination, expo	queue, a distributed queue, or a topic ort message contents in XML format to			
Coherence Servers Coherence Clusters Machines Work Managers Sartup and Shutdown Classes Deployments Services G⊖ Messaninn	Message Selector:			App	Y.	
How do I	JMS Messages (Filtered - More New Delete Move	Import Export ~			ch an in	a 1 to 1 of 1 Previous Next
 Manage queue messages 		Import Export V			Snowin	g I to I of I Previous Next
 Manage distributed queue messages 	🔲 ID 🐟	CorrId	Time Stamp	State String	JMS Delivery Mode	Message Size
 Manage topic durable subscribers 	D:<257876.1411126889162	.0>	Fri Sep 19 17:11:29 IST 2014	receive transaction	Persistent	472
System Status	E New Delete V Move V	Import Export ~			Showin	g 1 to 1 of 1 Previous Next
Health of Running Servers	4					
Failed (0) Critical (0)						

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



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

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

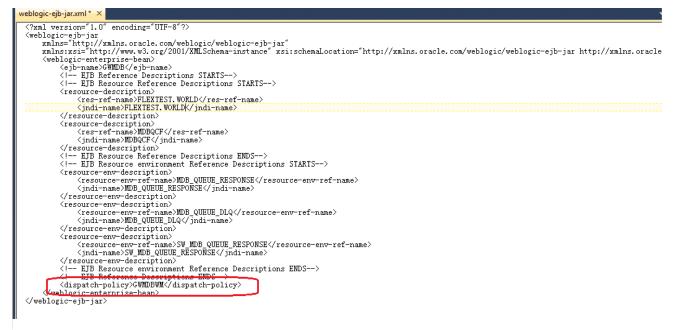
The solution is to create a work manager with a max threads constraint and assign the proxy services dispatch policy to this work manager.

Steps to create custom work manager

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

8.6.1 Modify weblogic-ejb-jar.xml

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



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

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



8.6.2 Work Manager Creation

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

WebLogic Server Aut	IIIIISUAUUII CUIISUIE 120			\sim
Change Center	🟦 Home Log Out Preferences 🔤 Record Help	Q		Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home >Summary of Work Managers >MaxThreadsConstraint	-0 >Summary of Work Mana	 gers >WorkManager-0 >Summary of Work Managers >MaxThreadsCons	raint-0 >Summary of Servers >Summary of
No pending changes exist. Click the Release Configuration button to allow others to edit	Environment >Summary of Servers >Summary of Work M Create a New Work Manager Component	anagers		
the domain.	Back Next Finish Cancel			
Release Configuration	Select Work Manager Definition type			
Domain Structure	What type of Work Manager, Request Class or Constra	iint do you want to create	2	
FCUBSDomain	 Work Manager Response Time Request Class Fair Share Request Class Context Request Class Maximum Threads Constraint 			
	Minimum Threads Constraint			
Interoperability Junction Content of Content o	Capacity Constraint			
How do I				
Contraction and an trainty	Back Next Finish Cancel			
Create application-scoped constraints				
Create application-scoped request classes				
ORACLE WebLogic Server Ad	ministration Console 12c			
	Home Log Out Preferences Record Help			Welcome, weblogic Connected to: FCUBSDomain
Change Center	1.4	Q		
View changes and restarts	Home >Summary of Work Managers >MaxThreadsConstrain Environment >Summary of Servers >Summary of Work M	t-0 >Summary of Work Mana l anagers	gers >WorkManager-0 >Summary of Work Managers >MaxThreadsConst	raint-0 >Summary of Servers >Summary of
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the domain.	rector rector lawsee lawsee			
Lock & Edit	Back Next Finish Cancel			
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∲-Environment				
Servers	What would you like to name your new Work Manager?	22.54		
Clusters Coherence Clusters	* Name: GWMDBWM			
Machines	CTT ME DVM			
Virtual Hosts	Back Next Finish Cancel			
Work Managers Startup and Shutdown Classes				
Deployments				
E Services				
Security Realms				
-				
Change Center	🏦 Home Log Out Preferences 🔤 Record Help	Q		Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home >Summary of Work Managers >MaxThreadsConstraint Environment >Summary of Servers > Summary of Work M		gers >WorkManager-0 >Summary of Work Managers >MaxThreadsConst	raint-0 >Summary of Servers >Summary of
No pending changes exist. Click the Release Configuration button to allow others to edit	Create a New Work Manager Component	~		
the domain.	Back Next Finish Cancel			
Release Configuration	Select deployment targets			
			Northern Calentities and the second	in the ofference the West Mennes
Domain Structure	fou can target the work manager to any or these web	Logic Server instances or t	Clusters. Select the same targets on which you will deploy applicat	ions that reference the work manager.
FCUBSDomain	Available targets :			
Ervironment Servers				
⊞-Clusters	Servers			
Coherence Clusters				
Machines Virtual Hosts	AdminServer			
Work Managers	ductor			
LStartup and Shutdown Classes	Clusters			
Deployments Services	Cluster-App			
Security Realms	All servers in the cluster			
Interoperability				
. ± - Diagnostics	Cluster-JMS All servers in the cluster			
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				1



Change Center	🔒 Home Log Out Preferences 🔤 Record He	lp Q	Welcome, weblogic Connected to: FCUBSDomai
View changes and restarts	Home >Summary of Work Managers >MaxThreadsCo Environment >Summary of Servers >Summary of W		ry of Work Managers >MaxThreadsConstraint-0 >Summary of Servers >Summary of
Pending changes exist. They must be activated to take effect.	Messages Work Manager created successfully		
Activate Changes	Work Hanager Created Successfully		
Undo All Changes	Summary of Work Managers		
Domain Structure FCUBSDomain	and thread constraints defined for this domain.		Logic Server instances. This page displays the global Work Managers, request classes
←Servers	Global Work Managers are defined at the doma Customize this table Global Work Managers, Request Classes a	in level. You can also define application-level and module-leve	I Work Managers.
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ServersCoherence ClustersCoherence Clusters	Customize this table Global Work Managers, Request Classes a		
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ServersClustersCoherence ClustersWachinesVirtual HostsVirtual Hosts	Customize this table Global Work Managers, Request Classes a New. Clone Delete Name Name	nd Constraints	Showing 1 to 1 of 1 Previous Next Targets

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

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 Environment >Summary of Servers >Summary of Work Managers	Work Managers >MaxThreadsConstraint-0 >Summary of Servers >Summary of
Pending changes exist. They must be activated to take effect.	Create a New Work Manager Component	
Activate Changes	Back Next Finish Cancel	
Undo All Changes	Select Work Manager Definition type	
Domain Structure	What type of Work Manager, Request Class or Constraint do you want to create?	
FCUBSDomain	*	
Environment	O Work Manager	
Servers Clusters	Response Time Request Class	
Coherence Clusters	Kesponse Time Request Class	
Machines	Fair Share Request Class	
Virtual Hosts		
Work Managers	Context Request Class	
Startup and Shutdown Classes		
Deployments Services	Maximum Threads Constraint	
Services		
Interoperability	Minimum Threads Constraint	
Diagnostics		
How do I	Capacity Constraint	
	Back Next Finish Cancel	
 Create application-scoped constraints 	Dack Next Finish Calice	
 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	Back Next Finish Cancel		
Undo All Changes	Maximum Threads Constraint Properties		
Domain Structure	The following properties will be used to identify your new Max Threads Request Class.		
FCUBSDomain ← E-renvironment ← -Servers ⊕ -Clusters ← -Machines ← -Virtual Hosts ← -Virtual Hosts ← -Virtual Hosts ← -Vork Managers ← -Services ← -Services ← -Services ← -Deployments ← -Deploy			
How do I	Back Next Finish Cancel		
Create application-scoped constraints			



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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	121			
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Undo All Changes	Select deployment targets				
Domain Structure		hi ania Canana instances an f	Charless Callest the same broads an ubide you will dealer and institution	what we for some the Work Menseen	
FCUBSDomain	You can target the work Manager to any of these we	DLogic Server Instances or G	Clusters. Select the same targets on which you will deploy application	is that reference the work Manager.	
-Environment	Available targets :				
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			l'		
Coherence Clusters	Servers				
Machines Virtual Hosts	AdminServer				
Work Managers					
Startup and Shutdown Classes	Clusters		1		
Deployments	Custers				
Services	Cluster-App				
Security Realms Interoperability	All servers in the cluster				
Diagnostics					
How do I	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					
	🙆 Home Log Out Preferences 🖂 Record Help				
Change Center		nt-0 >Summary of Work Manac	gers >WorkManager-0 >Summary of Work Managers >MaxThreadsConstrain	Velcome, weblogic Connected to: FCUBSDomain	
View changes and restarts	Environment >Summary of Servers >Summary of Work M				
Pending changes exist. They must be activated to take effect.	Messages				
Activate Changes	S Maximum Threads Constraint created successfully				
Undo All Changes	Summary of Work Managers				
Domain Structure		f thread constraints that ma	anage work performed by WebLogic Server instances. This page displa	ys the global Work Managers, request classes	
FCUBSDomain	and thread constraints defined for this domain.				
	Global Work Managers are defined at the domain level. You can also define application-level and module-level Work Managers.				
-Clusters					
Coherence Clusters	Customize this table				
Machines	¢ customize cus cusic				
	Global Work Managers, Request Classes and Co	onstraints			
	New Clone Delete			Showing 1 to 2 of 2 Previous Next	
Deployments					
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Security Realms	GWMDBWM	Wo	ork Manager	Cluster-App	
Interoperability The Diagnostics					
	MaxThreadsConstraint-0	Ma	ximum Threads Constraint	Cluster-App	
How do I 🖂	New Clone Delete			Showing 1 to 2 of 2 Previous Next	
Create application-scoped constraints	New Clone Deck			Showing 1 to 2 of 2 Previous Next	

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

View changes and restarts	Here shartheadsContracts also streams of Web Managers WebManagerS stammary of Birk Managers shartheadsContracts Sciencery of Servers stammary of Serve					
Pending changes exist. They must be activated to take effect.	Settings for CWINDBWIN					
 Activate Charges 	Configuration Targets Notes					
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cousin Structure	Use this page to define the request classes and constraints for the selected global Work Manaper.					
Servers Coherence OutlersCoherence OutlersVictual HeadsrVictual HeadsrVictual HeadsrStartup and Shotdown Classes Deployments	Name:	(his value specified)	The user-specified name of this MBean instance. Here Info			
	🍓 Request Class:	(None configured)	A request class associated with this Work Manager. This may be a FairShareRequestClass, ResponseTimeRequestClass, or a CostendRequestClass. Here bits			
	👘 Hinimum Threads Constraint:	(None configured) I New	The minimum number of threads allocated to resolve deadlocks. Here lafe.			
	Haximum Threads Constraint:	(None configured) • Mew	The maximum number of concurrent threads that can be allocated to execute requests. Here $\ln \sigma_{\rm ex}$			
ow do I	Capacity Constraint:	(None configured)	The total number of requests that can be queued or executing before WebLogic Server begins rejecting requests. Here Bro			
Create application-scoped constraints Create application-scoped request classes Create application-scoped vision Managers Create global constraints Create global request classes Create global work Managers	Stuck Thread Action:	Use server default behavior *	Specify how stuck threads should be detected, and what action to take should they occur. Here Befor.			
	Max Shock Thread Time:	0	. Time after which a sourceive fitness is the basis of at stack. Here ${\rm lefs}_{-}$			
	Stuck Thread Count:	0	. Sincides of stack threads after which the threshold are a shallow. More $g_{0} f_{0, \rm m}$			
ystem Status 🛛 🗎	@ Resume When Unitack		interfact to make web income one for shall breach uses showed. Here			
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Ponivonnent Seners Seners Cohenece Custers Hochines Victual Hests Victual Hests Victual Hests Victual Hests Security and Shuddown Classes Deployments Security Realms Interoperability	Name:	(No value specified)		The user specified name of this Milean instance. Here Info		
	n Request Class:	(None configured) * [Here]		A request class associated with this Work Nanager. This may be a FairShareRequestClass, ResponseTimeRequestClass, or a ContextRequestClass. Hore Info		
	👩 Minimum Threads Constraint:	(None configured) * Hew		The minimum number of threads allocated to resolve deadlocks. More bris		
	Haximum Threads Constraint:	MaxThreadsConstraint-0 • New	כ	The maximum number of concurrent threads that can be allocated to execute requests. Hore before		
How do L	Capacity Constraint:	(None configured) • New		The total number of requests that can be queued or executing before WebLopic Server begins rejecting requests. More Lefe		
Create application-scoped constraints Create application-scoped request classes Create application-scoped Work Managers Create global constraints Create global request classes. Create global Work Managers	de Stuck Thread Action:	Use server default behavior	()	Specify Now stuck threads should be detected, and what action to take should they accur. More $Infe_{\mathrm{int}}$		
	Max Slack Thread Time:	0		Time after which a constating thread is desired as shads. Here $brie_{s}$		
	Stuck Thread Count:	0		Notice of study threads after which the bindth sampler is studyness. Here, $\operatorname{bde}_{\operatorname{sc}}$		
System Status	Resume When Unitsch			Matthew to many with manager over the shark breast over discord. Here before		
Health of Running Servers						
Failed (0)	Save					

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

8.7 How High Availability is achieved

1) Application Server:

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

- JMS Provider: JMS is deployed on 2 managed servers, JMSServer1 and JMSServer2, if any one goes down other will handle the messages.
- FileStore: File store is a cluster file system or database where if one node goes down then other will handle the requests.
- DB Server: Database is installed in RAC mode where it has more than 1 node, if a node goes down then other nodes will handle messages.



8.8 How to setup for Scheduler/Notifications

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

8.9 What other modules uses JMS Queue's

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

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

8.10 References

• Resource To Be Created





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