Oracle® Banking Trade Finance Configuring JMS on Weblogic Server 12c



Release 14.8.0.0.0 G29253-01 April 2025

ORACLE

Oracle Banking Trade Finance Configuring JMS on Weblogic Server 12c, Release 14.8.0.0.0

G29253-01

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Preface

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

- Purpose
- Documentation Accessibility
- Critical Patches
- Conventions
- Screenshot Disclaimer
- Diversity and Inclusion
- Weblogic 12c New Features
- Components Diagram & Data Flow

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.

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Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.



Screenshot Disclaimer

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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.



Figure 1 Architecture Previous to 12c

Figure 2 Architecture in 12c



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



1 Pre-Requisites

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

- Machines
- Dynamic Clusters and Managed Servers
- DataSource
- Shared Folder

1.1 Machines

Figure 1-1 MAC-1 & MAC-2

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Change Center	🟦 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: pegjr
View changes and restarts	Home >Summary of Servers >Summary of Machines	
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Domain Structure		excogic server instances (servers). Weblogic server uses conspured machine names to determine the n, are delegated. The Administration Server uses the machine definition in conjunction with Node
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Virtual Hosts	Machines	
Work Managers Startup and Shutdown Classes	New Clone Delete	Showing 1 to 2 of 2 Previous Next
-Services	🔲 Name 🌣	Туре
Security Realms	MAC-1	Machine
+-Diagnostics	MAC-2	Machine
How do I 🖂	New Clone Delete	Showing 1 to 2 of 2 Previous Next
Create and configure machines		
 Assign server instances to machines 		

1.2 Dynamic Clusters and Managed Servers

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



	Ho	me Log Out I	Preferences 🔤 Rei	cord Help	Q			Welcome, weblogic Co	opected to: ECUBSDom
Change Center				· [
View changes and restarts			Servers >Summary of of Servers > Summary		mplates >Summary of	f Clusters >Summary of Servers	>Summary of Clusters >	Summary of Server Templates >Sur	nmary of
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Lock & Edit	🛷 Al	I changes have	e been activated. No	restarts are necessary.					
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- Environment	A du	ister defines g	roups of WebLogic Se	erver servers that work togethe	er to increase scalabi	ility and reliability.			
ServersServer Templates	D Cus	tomize this t	able						
	Clust	ters (Filterer	- More Columns	Exist)					
Coherence ClustersMachines Click the <i>Lock & Edit</i> /button in the Change Center to activate all the buttons on this page.									
Machines	Virtual HostsWork Managers Cone Delete								
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What Hosts Work Managers Work Managers Startup and Shutdown Classes Dealoyments Services Services How do L				Cluster Messaging Mode	Migration Basis	Default Load Algorithm	Replication Type (None)	-	
Virtual Hosts Work Nanagers Startup and Shutdown Classes Deployments Services Services Services Services		Name 🏟						-	Servers DC_FCUBS_1, DC_FCUBS_2, DC_FCUBS_3,

ange Center	Home Log Ou	it Preferences 🔤 Record	Help	Q			Welcome, weblogic	Connected to: FCUBSD
w changes and restarts	Home >Summary Clusters >Summa		ery of Clusters >Summ	ary of Servers >Summary	of Clusters >Summary o	of Servers >Summary of C	usters >Cluster-JM5 >Summary of Ser	vers >Summary of
k the Lock & Edit button to modify, add or ete items in this domain.	Summary of Ser	vers						
Lock & Edit	Configuration	Control						
Release Configuration	A server is an ir	istance of WebLogic Server	that runs in its own	Java Virtual Machine (JVI	4) and has its own conf	iguration.		
nain Structure		arizes each server that has	been configured in t	he current WebLogic Ser	ver domain.			
	52							
Server Templates Migratable Targets	Customize t	his table ered - More Columns Exi	et)					
Machines		& Edit button in the Chang		and the second s				
Virtual Hosts			e Center to activate	all the buttons on this pa	ige.			
Work Managers Startup and Shutdown Classes		ne Delete	e center to activate	all the buttons on this pa	ge.		Showing 1	L to 7 of 7 Previous Nex
Work Managers Startup and Shutdown Classes Deployments Services		ne Delete	Туре	Cluster	ge. Machine	State	Showing 1	L to 7 of 7 Previous Net Listen Port
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Work Managers Startup and Shutdown Classes eployments ervices 	New Co	ne Delete	Туре				Health	Listen Port
-Work Managers Startup and Shutdown Classes polyoments envices 	New Co	ver(admin)	Type Configured	Cluster	Machine	RUNNING	Health	Listen Port 7001
Work Managers Startup and Shutdown Classes epigoments express express express express	New Co	ver (admin) is_1 is_2	Type Configured Dynamic	Cluster Cluster-App	Machine MAC-1	RUNNING	Health CK Not reachable	Listen Port 7001 7101
Viork Kinagers Viork Kinagers Viork Kinagers Viork	New Co Name 4 AdminSe DC_FCUE	ver (admin) is_1 is_2 is_3	Type Configured Dynamic Dynamic	Cluster Cluster-App Cluster-App	Machine MAC-1 MAC-2	RUNNING SHUTDOWN SHUTDOWN	Health CK Not reachable Not reachable Not reachable	Listen Port 7001 7101 7102
	New Co	Delete ver(admin) 15_1 15_2 15_3 15_4	Type Configured Dynamic Dynamic Dynamic Dynamic	Cluster Cluster-App Cluster-App Cluster-App Cluster-App	Machine MAC-1 MAC-2 MAC-1	RUNNING SHUTDOWN SHUTDOWN SHUTDOWN	Health ♥ OK Not reachable Not reachable Not reachable Not reachable Not reachable	Listen Port 7001 7101 7102 7103
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1.3 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, weblogic Connected to: base_doma					
View changes and restarts	Home >JMS Modules >JMS_MODULE >MDB_QUEUE >Summary of JMS Messages >JMS Modules >JMS_MODULE >MDB_QUEUE : Sources	>Summary of JMS Messages >Summary of Deployments >Summary of JDBC Data					
Configuration editing is enabled. Future changes will automatically be activated as you	Summary of JDBC Data Sources						
nodify, add or delete items in this domain.	Configuration Monitoring						
Services Hessaging Hessaging Servers Store-and-Forward Agents DMS Modules Path Services	A JOBC data source is an object bound to the JNDI tree that provides database connectivity through a pool of JDBC or borrow a database connection from a data source. This page summarizes the JDBC data source objects that have been created in this domain.	onnections. Applications can look up a data source on the JNDI tree and then					
Bridges Data Sources Persistent Stores	© Customize this table Data Sources (Filtered - More Columns Exist)						
Bridges Data Sources		Showing 1 to 3 of 3 Previous Next					
B-Bridges Data Sources Persistent Stores -Foreign JNDI Providers -Work Contexts -XNL Registries -XNL Ently Caches	Data Sources (Filtered - More Columns Exist)	Showing 1 to 3 of 3 Previous Next Targets					
B-Bridges Data Sources Persistent Stores Foreign JNDI Providers Work Contexts	Data Sources (Filtered - More Columns Exist) New Delete						



1.4 Shared Folder

A shared folder for File Store Creation is required and this folder should be accessible across both the servers (eg, NFS mount).



2 JMS Configuration

- Persistence Store Creation
- JMS Server Creation
- Cluster Configuration for Service Migration

2.1 Persistence Store Creation

1. Navigate to Services Dersistent Stores New Create FileStore.





2. Select Cluster-JMS under target drop-down and Click on OK.

	dministration Consol	3 12C	Q
Change Center	Home Log Out	Preferences 🔤 Record Help	Welcome, weblogic Connected to: FCUBSDomai
View changes and restarts	Home >Summary of of Persistent Stor	f Clusters >Summary of Servers >Summary of Clusters >Summary of Servers >Summary of Clusters es	>Cluster-JMS >Summary of Servers >Summary of Clusters >Summary of Servers >Summary
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New File	Store	
Lock & Edit	OK Cancel		
Release Configuration	File Store Prop	erties	
Domain Structure	The following pro * Indicates require	perties will be used to identify your new file store. fields	
E-Environment	What would you lik	e to name your new file store?	
Server Templates	* Name:	FileStore-1	
Coherence Clusters Machines	Select a server ins	ance for this file store.	
Virtual Hosts Work Managers	Target:	Cluster-JMS 💌	
LStartup and Shutdown Classes Deployments	The pathname to t	he directory on the file system where the file store is kept. This directory must exist on your s	stem, so be sure to create it before completing this tab.
+-Messaninn	Directory:	/scratch/work_area/JMS_FILESTORE	
How do I 😑			
Create File Stores	OK Cancel		
 Monitor persistent stores 			

3. FileStore-1 is created.

	Administration Console 12c		Q
Change Center	A Home Log Out Preferences 🔤 Record Hel	Þ	Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home >Summary of Clusters >Summary of Servers : of Persistent Stores	>Summary of Clusters >Summary of Servers >Summary	of Clusters >Cluster-IMS >Summary of Servers >Summary of Clusters >Summary of Servers > Summary
Click the Lock & Edit button to modify, add or delete items in this domain.	Messages		
Lock & Edit	Summary of Persistent Stores	are necessary.	
Domain Structure Servers Server Templates Mgratable Targets Mdrables Mork Managers Work Managers	A persistent store is a physical repository for sto summarizes the persistent stores that have been () Customize this table Persistent Stores Click the <i>Lock & Edit</i> button in the Change Cent	n created for this domain.	es. It can be a JDBC-accessible database, disk-based file, or replicated memory storage. This page
L-Startup and Shutdown Classes	New ~ Delete		Showing 1 to 1 of 1 Previous Next
Services Hessaging	🔲 Name 🔅	Туре	Target
Data Sources Persistent Stores *	FileStore-1	FileStore	Cluster-JMS
How do I	New ~ Delete		Showing 1 to 1 of 1 Previous Next
Create File Stores			

2.2 JMS Server Creation

1. Navigate to Services I Messaging I JMS Servers I Click on New.

Change Center	Home Log Out Preference	es 🔤 Record Help	Q	Welcome,	weblogic Connected to: pegjm
View changes and restarts	Home >Summary of Servers >S	iummary of Persistent Stores > Summ a	ary of JMS Servers		
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Messages	d - no JMS Servers created.			
Domain Structure	Summary of JMS Servers				
-Environment -Servers -Clusters	This page summarizes the JM	IS servers that have been created i	n the current WebLogic Serve	er domain.	
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Coherence Clusters Machines Virtual Hosts Virtual Hosts Virtual Hosts Virtual Hosts Virtual Hosts Startup and Shutdown Classes Deployments Services 	JMS Servers (Filtered - M	ore Columns Exist) Persistent Store	Target	Showir Current Target	ng 0 to 0 of 0 Previous Next Health
Coherence ClustersMachinesVirtual HostsWork ManagersStartup and Shutdown ClassesDeploymentsServices	JM5 Servers (Filtered - M	Persistent Store	Target	Current Target	

2. Select FileStore-1, Click Next.



	dministration Console 12c		Q
Change Center	🙆 Home Log Out Preferences 💽 Record	Help	Welcome, weblogic Connected to: FCUBSDoma
View changes and restarts	Home >Summary of Servers >Summary of Clust Stores >Summary of JMS Servers	ters >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 Back Next Finish Cancel		
Release Configuration	JMS Server Properties		
Domain Structure	The following properties will be used to ident * Indicates required fields	bfy your new JMS Server.	
Environment Servers Clusters Server Templates Micratable Targets	What would you like to name your new JMS So	erver? JMSServer-1	
Hyp state if a yes Coheren Clusters Machines Wachines Work Managers Startup and Shutdown Classes Deployments Deprives Christiann Christiann	Specify persistent store for the new JMS Serv Persistent Store: Back Neat Printh Cancel	FileStore-1 Create a New Store (none) FileStore-1	

3. Select Target as Cluster-JMS and click on **Finish**.

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

	dministration Console 12c	Q
Change Center	🔒 Home Log Out Preferences 📈 Record Help	Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home >Summary of Servers >Summary of Clusters >Summary of Servers >Summary of Clusters >Cluster-JMS >Su Stores >Summary of JMS Servers	mmary 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 Back Net Frindh Cancel	
Release Configuration	Select targets Select the server instance or migratable target on which you would like to deploy this JMS Server.	
Environment	Target: Cluster-JMS Back Ned Finish Cancel	
-Clusters -Server Templates -Moratable Targets		

4. JMS-Server-1 is created.

	dministration Console 12c				Ď		
Change Center	🔒 Home Log Out Preferences 🔤	Record Help		Welcor	me, weblogic Connected to: FCUBSDomain		
View changes and restarts	Home >Summary of Servers >Summary Stores >Summary of JMS Servers	of Clusters >Summary of Servers >Summary of Clust	ers >Cluster-JMS >Summary of Ser	vers >Summary of Clusters >Summary of	of Servers >Summary of Persistent		
Click the Lock & Edit button to modify, add or delete items in this domain.	Messages						
Lock & Edit	All changes have been activated.	No restarts are necessary.					
Release Configuration	Summary of JMS Servers						
Domain Structure	JMS servers act as management con	tainers for the queues and topics in JMS modules th	nat are targeted to them.				
Converse Converse	This page summarizes the JMS server	is that have been created in the current WebLogic	Server domain.				
Machines	JMS Servers (Filtered - More Columns Exist)						
Virtual Hosts Work Managers	Click the Lock & Editbutton in the Change Center to activate all the buttons on this page.						
	New Delete				Showing 1 to 1 of 1 Previous Next		
Services P-Messaging	🔲 Name 🖘	Persistent Store	Target	Current Target	Health		
JMS Servers *	MSServer-1	FileStore-1	Cluster-JMS	Cluster-JMS			
How do L	New Delete				Showing 1 to 1 of 1 Previous Next		
Configure JMS servers							
 Configure JMS system modules 							



5. In NFS below filestores can be seen.

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

2.3 Cluster Configuration for Service Migration

1. Click on Environment I Clusters I Cluster-JMS

Change Center	2 25	ine Lig Out	Preferences 🚂 Ra	kland Help	9	Wekam	e, weblogic Correct	ted to: peggan
New changes and restarts				Persident Stones + Summary of J false Targets + Summary of Class		y of Clusters >5ummery of High	utidile Targets + Summar	y of
Configuration editing is enabled. Puture thanges will automatically be activated as you nodify, add or delete items in this domain.	Summ	sary of Clust						
Domain Structure	The	page summar	ies the dusters that	have been configured in the cu	ment WebLogic Serv	er donain.		
- Chursonert		uster defines y		erver servers that work togeth	er to increase scalab	Bty and reliability.		
Mache Chusters, Level 2, Collapsed, 2 of 7			d - Hore Columns	Exist)		94	owing 1 to 2 of 2. Prev	
-Work Nanopra								NUM NEXT
-Work Hanagers -Startup and Shutdown Classes -Deployments		Name ris	Cluster Address	Cluster Hessaging Hode	Pligration Basis	Default Load Algorithm	Replication Type	
- Work Managers - Startup and Shutborn Casses - Deployments - Services - Security Rasims - Scher gerufality			Cluster Address	Cluster Hessaging Hode	Pligration Basis Catabase	Default Load Algorithm		
Work Managers Startup and Shutdown Classes Deployments R: Services		Name 🕫	Cluster Address				Replication Type	

2. Click on Migration Tab.

hange Center	Home	Log Ou	it Preferences	s 🔤 Reco	rd Help		Q		Welcon	ne, weblogic Conn	ected to: pegj
/iew changes and restarts							MS Servers >Summary rs >Cluster-JMS	of Clusters >Su	mmary of Mig	ratable Targets >Sumn	nary of
onfiguration editing is enabled. Future hanges will automatically be activated as you	Settings fo					,					
nodify, add or delete items in this domain.	Configura	ation	Monitoring	Control	Deployments	Services	Notes				
omain Structure	General	ЛТА	Messaging	Servers	Replication	Migration	Singleton Services	Scheduling	Overload	Health Monitoring	НТТР
Environment	Coherence	e					_				

3. Change Migration Basis to Consensus and Click on Save.



3 JMS Module Creation

- Module Creation
- Sub Deployment Creation
- Resource Creation

3.1 Module Creation

1. Navigate to Services I Messaging I JMS Modules and Click on New.

hange Center	😭 Home Log Out Preferences 🔛 Record Help	Welcome, weblogic Connected to: pegim
/iew changes and restarts	Home >Summary of Migratable Targets >MS-JMS1 (migratable) >Summary of Migratable Target Targets >MS-JMS1 (migratable) >Summary of Clusters >Summary of Migratable Targets > Sum	
Configuration editing is enabled. Future hanges will automatically be activated as you odify, add or delete items in this domain.	Messages © The JMS module configuration was canceled.	
Domain Structure	Summary of JMS Modules	
Denvironment Oeployments Oeployments MS Servers MS Servers	JMS system resources are configured and stored as modules similar to standard JZEE mo templates, destination keys, quota, distributed queues, distributed topics, foreign server administratively configure and manage JMS system modules as global system resources. This page summarizes the JMS system modules that have been created for this domain. Customize this table JHS Modules	
Persistent Stores Foreign JNDI Providers	New Delete	Showing 0 to 0 of 0 Previous Next
low do L	🔲 Name 🏟	Туре
	There are no items to di	splay
Configure JMS system modules		

2. Enter name as JMS_MODULE and Click on Next.

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Change Center	Home Log Out Preferences Record	Help	Q	Welcome, weblogic Connected to: pegims
View changes and restarts	Home >Summary of Migratable Targets >MS-J Targets >MS-JMS1 (migratable) >Summary of			452 (migratable) >Summary of Clusters >Summary of Migratable
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create JMS System Module	,		
Domain Structure	Back Next Finish Cancel The following properties will be used	to identify your new mod	ule.	
Environment Deloyments Services Messaging Messaging Servers S		ted queues, distributed topics	s, foreign servers, and J	uch resources include queues, topics, connection factories, MS store-and-forward (SAF) parameters. You can
Path Services B:Bridges Data Sources Persistent Stores Foreign JNDI Providers Work Contexts		Module		
How do I	What would you like to name the descriptor Descriptor File Name:	le name? If you do not provid	de a name, a default wil	be assigned.
Configure JMS system modules Configure JMS servers	Where would like to place the descriptor for	his System Module, relative to	o the jms configuration s	ub-directory of your domain?
System Status	Location In Domain:			
Health of Running Servers	Back Next Finish Cancel			
Failed (0)	Carca			



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

y of on or Twosten a DC_BE_ Twosten a - Summary of 215 Studiese term Hodele (Frinth) Cancel g properties will be used to target to select the server or chatter on which	ft your new JHS sys	tem module.				G Series 13	Mileron I stannery af
g properties will be used to target			s module. You can	reconfigure targets i	ater F you with.		
p properties will be used to targe			r module. You can	reconfigure targets i	ater if you wath.		
			e module. You can	reconfigure targets i	ater if you widt.		
ts select the server or duater on which	i you would like to depl	ay the JAS system	n module. You can	reconfigure targets i	later if you widt.		
ver							
	op op evers in the duster PS rvers in the cluster	op vvors is the cluster rt5	op even in the cluster HS	ep even in the cluster res	op even in the cluster res	epp evens in the cluster res	ep even in the cluster ess

4. Select the checkbox and Click on Finish.

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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-JMS Targets >MS-JMS1 (migratable) >Summary of Clusters >Summary of Migratable Targets >Summary of JM	
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create JMS System Module	
Domain Structure	Back Next Finish Cancel Add resources to this JHS system module Use this page to indicate whether you want to immediately add resources to this JMS system module connection factories, etc.	le after it is created. JMS resources include queues, topics,
	Would you like to add resources to this JMS system module? Back Net Friet	

5. JMS_MODULE is created.

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Configuration editing is enabled. Future changes will automatically be activated as you	Messages		
modify, add or delete items in this domain.	All changes have been activated. H The JMS module was created succe	iowever 1 items must be restarted for the cha	nges to take effect.
Domain Structure	<u></u>	soruny.	
^	Settings for JMS_Module		
Environment Deployments	Configuration Subdeployments	Targets Security Notes	
⊖-Services ⊡-Messaging JMS Servers Store-and-Forward Agents JMS Modules	This page displays general information resources.	about a JMS system module and its resources	s. It also allows you to configure new resources and access existing
Path Services	Name:	JMS_Module	The name of this JMS system module. More Info
Data Sources Persistent Stores	Descriptor File Name:	jms/jms_module-jms.xml	The name of the JMS module descriptor file. More Info
How do I			m module, including queue and topic destinations, connection factories, reign servers, and store-and-forward parameters.

3.2 Sub Deployment Creation

1. In JMS_MODULE, Click on **SubDeployment** tab, Click on **New**.



Change Center	Home Log Out Prefe	rences 💽 Record Help	G		Welcome, weblogic Connected to: pegji
View changes and restarts				able) >Summary of Clusters >Summary f 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.	Messages			the changes to take effect.	
Domain Structure	The JMS module was	created successfully.			
	Settings for JMS_Modu	le			
Environment Deployments	Configuration Subde	gi <u>ovments</u> Targets	Security Notes		
Services Messaging MS Servers Servers	This page displays gene resources.	Subdeployments- Ta ral information about a JM		esources. It also allows you to configu	re new resources and access existing
Path Services Bridges	Name:	נ	MS_Module	The name of this	JMS system module. More Info
Data Sources Persistent Stores Foreign JNDI Providers	Descriptor File Name:	jr	ns/jms_module-jms.xml	The name of the :	JMS module descriptor file. More Info
How do I E				S system module, including queue and tions, foreign servers, and store-and-	d topic destinations, connection factories, forward parameters.
No task help found.	Customize this table				
System Status	Summary of Resource	es			
Health of Running Servers	New Delete				Showing 0 to 0 of 0 Previous Next
Failed (0) Critical (0)	🔲 Name 🗇	Туре	JNDI Name	Subdeployment	Targets
Overloaded (0)	Į,		There are n	io items to display	
Warning (0)	New Delete				Showing 0 to 0 of 0 Previous Next
OK (1)					

2. Enter name as JMS_SUB and click on **Next**.

	Administration Console 12c
Change Center	🏦 Home Log Out Preferences 🔜 Record Help
View changes and restarts	Home >MS-JMS1 (migratable) >Summary of Migratable Targets >MS-JMS2 (migratable) >Summary of Olusters >Summary of Migratable Targets >MS-JMS1 (migratable) >Summary of Clusters >Summary of Migratable Targets >Summary of JMS Modules >JMS_Module
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create a New Subdeployment
Domain Structure ▲ ⊕ Environment ▲ ⊕ Deployments ● ⊕ Services ● ↓ - MS Servers - →Store and -Forward Agents - → MS Modules ●	Subdeployment Properties The following properties will be used to identify your new subdeployment. * Indicates required fields * Subdeployment Name: JMS_SUB
Path Services Data SourcesPersistent Stores	Back Ned Finish Cancel

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

	ministration Console 12c			Q
Change Center	🏦 Home Log Out Preferences 📐 Record Help	Q		Welcome, weblogic Connected to: FCUBSDomain
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No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New Subdeployment			
Lock & Edit	Back Next Finish Cancel			
Release Configuration	Targets Please select targets for the Subdeployment			
Domain Structure				
Environment Servers D-Clusters	Servers			
Server Templates	Clusters			
Coherence Clusters Machines Virtual Hosts Work Managers	Cluster-JMS All servers in the cluster			
Startup and Shutdown Classes	JMS Servers			
-Services	JMSServer-1			
How do L				
Configure subdeployments in JMS system modules	Back Next Finish Cancel			



4. Sub-Deployment is created

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changes will automatically be activated as you modify, add or delete items in this domain.		have been activated. ment created successfu		tems must be	erestarted for t	r the changes to take effect.
Domain Structure	C. 111	in the late	70			
Environment Deployments	Settings for JN	Subdeployments	Targets	Security	Notes	
⊖-Gervices E-Messaging ··-3MS Servers ··-Store-and-Forward Agents ··-3MS Modules ··-Path Services Bi-Bridges ··-Data Sources ··-Persistent Stores		nnection factories) are				bdeployment is a mechanism by which JMS module resources (such as queues, ource (such as JMS servers, server instances, or duster).
Foreign JNDI Providers	New De	elete				Showing 1 to 1 of 1 Previous Next
How do I 🖂	Name •	~		Resourc	es	Targets
Configure subdeployments in JMS system	JMS_SU	8				Cluster-JMS
modules Configure JMS system modules	New De	lete		- (s) 		Showing 1 to 1 of 1 Previous Next
System Status						

3.3 Resource Creation

- Queue Creation
- Connection Factory Creation

3.3.1 Queue Creation

1. In JMS_MODULE Click on New.

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View changes and restarts						stable) >Summary of Clusters of JMS Modules > JMS_Modu	>Summary of Migratable Targe le	ets >MS-JMS1
Configuration editing is enabled. Future changes will automatically be activated as you	Settings for JMS	Module						
modify, add or delete items in this domain.	Configuration	Subdeployments	Targets	Security	Notes			
Domain Structure	·							
Environment Deployments	This page displa resources.	ys general informat	ion about a	JMS system	module and its r	esources. It also allows you	to configure new resources	and access existing
⊖-Services ⊖-Messaging └JMS Servers	Name:			JMS_Modu	e	The na	ame of this JMS system modul	e. More Info
	Descriptor File	Name:		jms/jms_m	odule-jms.xml	The na	ame of the JMS module descri	ptor file. More Info
Path Services Data SourcesDersistent Stores							queue and topic destinations store-and-forward paramete	
Foreign JNDI Providers	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	ame	Subdeployme	nt	Targets
Health of Running Servers					There are	no items to display		
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.



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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 >M (migratable) >Summary of Olusters >Summary of Migratable Target		
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	(mgratabe) > Summary of Cutter > Summary of Mgratabe Target Create a New JMS System Module Resource Back New Print Cancel Choose the type of resource you want to create. Use these pages to create resources in a JMS system module, Depending on the type of resource you select, you are promp stand -alone gaues and topics, connection factories, distribut targeting pages for selecting appropriate server targets. You mechanism for grouping JMS module resources and the member Connection Factory	such as queues, topics, templat ted to enter basic information fo ed queues and topics, foreign se can also associate targetable re- ers to server resources.	es, and connection factories. r creating the resource. For targetable resources, like rvers, and JMS SAF destinations, you can also proceed to sources with subdeployments, which is an advanced Defines a set of connection configuration parameters that
Persistent StoresForeign JNDI ProvidersWork Contexts How do L	O Queue		are used to create connections for JMS clients. More Info Defines a point-to-point destination type, which are used for asynchronous peer communications. A message delivered to a queue is distributed to only one consumer. More Info
Configure quotas for destinations Configure JMS templates Configure destination keys Configure topics Configure topics Configure useues	© Торіс		Consumer. More Into Defines a publish/subscribe destination type, which are used for asynchronous peer communications. A message delivered to a topic is distributed to all topic consumers. More Info
Configure queues Configure connection factories Configure uniform distributed topics Configure uniform distributed queues	Oistributed Queue		Defines a set of queues that are distributed on multiple JMS servers, but which are accessible as a single, logical queue to JMS clients. More Info

3. Enter the queue name and Click on **Next**.

ORACLE WebLogic Server	dministration Console 12c		Q
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View changes and restarts	Nome xMS-3HS1 (migratable) x5ummary of Migratable Targets x (migratable) x5ummary of Clusters x5ummary of Migratable Targ		
Configration editing is enabled. Puture changes will automatically be activated as you modify, add or delete items in this domain. Domain Structure	Create a New JHS System Hodule Resource Back Freih Cancel JHS Distributed Destination Properties		
-Deployments B Services B Messaging -245 Servers	The following properties will be used to identify your new Dis * Indicates required fields What would you like to name your new destination?	tributed Queue. The current module is	JHS_Module
Store-and-Forward Agents - 3HS Modules - Path Services	*Name: MDB_QUEUE	\triangleleft	
B-bridges Data Sources Persistent Stores	What JNDI Name would you like to use to look up your new de	estnation?	
Foreign 200 Providers	3NDI Name: MD8_QUEUE		\triangleleft

4. Click on Advance Targeting.

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Change Center	🏦 Home Log Out Preferences 🐼 Record Help	main
View changes and restarts	Home >DC_JMS_Template-0 >Summary of Servers >Summary of Migratable Targets >Summary of JMS Servers >JMSServer-1 >Summary of JMS Servers >JMSServer-1 >Summary of Migratable Targets >Summary of JMS Modules >JMS MODULE	
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New JMS System Module Resource Back Next Finish Advanced Targeting Cancel	
Release Configuration	The following properties will be used to target your new JHS system module resource	
Domain Structure	Use this page to view and accept the default targets where this JMS resource will be targeted. The default targets are based on the parent JMS system module targets. If you do not want to accept the default targets, then dick Advanced Targeting to use the subdeployment mechanism for targeting this resource.	
Environment Servers Custers Gusters Grouters Gouters Gouters Gouters Gouters Gouters Gouters Gouters Magnatable Targets Gouters Magnatable	The following JMS module targets will be used as the default targets for your new JMS system module resource. If the module's targets are changed, this resource will also be retargeted appropriately. Targets:	
	Clusters	
Startup and Shutdown ClassesDeploymentsServicesMessanion	Cluster-JHS All servers in the cluster	
How do I	Back Nett Finish Advanced Targeting Cancel	
Configure quotas for destinations		

5. Select Subdeployement as JMS_SUB and Click on Finish.



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New changes and restarts	Home +OC_HIS_Template-E + Summary of Server Temple information of 3HS Modules + 2HB, MODE		Servers (2013er or 1) channers of 205 Servers (2013er or 1) channers	of Higheldia
to pending changes event. Ock the Release Cardyanstain button to allow others to edit the tenan. Union & East Release Configuration	Create a line JPS System Hodale Resour [Reck.] [Nett.] [.fmit.] [.Creat.] The following properties will be used to	e. Larget your new 3955 system module resos	nce.	
Structure Structure Structure Servers Servers Servers Servers ServerServises -Mayukite Targets	SAF agent. If necessary, you can brack a ne module's subdiployment management page. Select the subdiployment you want to use. If y	= subdeployment by chiling the Create a New S	ce anecharum by which 24G resources are grouped and begeted to a distinguisment button. Thu can also recordigue subdiscloyered toget	
- Coherence Custers - Machines - Vitual ments - Vitual ments - Startup and Shuttown Cleanes - Daple ments - Startup and Shuttown Cleanes - Startup and	tiffet targets do you want to assign to the sub Yangets : Servers	balk ment		
ees de L. 🗉	Administerver			
Configure quebes for destinations Configure 24G templetes Configure destination keys Configure taxes Configure taxes	Clusters Cluster 3HS # All servers in the cluster			

6. MDB_QUEUE is created

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Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Messages					r the changes to take eff		
Domain Structure	The JMS dist	tributed queue was cr	eated successf	fully.				
	Settings for JM	5_Module						
Environment Deployments	Configuration	Subdeployments	Targets Se	ecurity 1	otes			
Er-Services D-Messaging JMS Servers JMS Modules JMS Modules Path Services B-Bridges	This page displered resources.	ays general informatio		system ma S_Module	dule and its r		you to configure new resourc	
Data Sources Persistent Stores Foreign JNDI Providers Work Contexts		narizes the JMS resou	rces that have		ed for this J	MS system module, includ	name of the JMS module des ing queue and topic destinati and store-and-forward param	ons, connection factories,
No task help found.	Customize ti	nis table						
System Status	Summary of I	Resources						
Health of Running Servers	New Dei	ete					Showin	g 1 to 1 of 1 Previous Next
Failed (0) Critical (0)	🔲 Name 🖉	• Туре				JNDI Name	Subdeployment	Targets
Overloaded (0)		EUE Uniform	n Distributed Q	ueue		MDB_QUEUE	JMS_SUB	Cluster-JMS
Warning (0) OK (1)	New Del	ete					Showin	g 1 to 1 of 1 Previous Next

7. Similarly Create MDB_QUEUE_RESPONSE and MDB_QUEUE_DLQ

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View changes and restarts	Home >DC_JMS_ JMS Modules >JM		y of Servers	>Summary	of Migratable Targets >9	ummary of JMS Servers >JMS	Server-1 >Summary of J	IMS Servers >JMSServer-1 >Summary o	of Migratable Targets >Summary of
Click the Lock & Edit button to modify, add or delete items in this domain.	Messages	ave been activated.	. No restart	ts are nece	ssary.				
Release Configuration	Settings for JMS	MODULE							
The case configuration	Configuration	Subdeployments	Targets	Security	Notes				
omain Structure									
E-Environment	This page displa	ys general informati	ion about a	JMS syster	n module and its resour	ces. It also allows you to cor	figure new resources a	and access existing resources.	
ClustersServer Templates	Name:				JMS_MODULE		The name of	of this JMS system module. More Inf	io
Coherence Clusters	Descriptor File	Name:			jms/jms_module-jms	xml	The name of	of the JMS module descriptor file. Mo	ore Info
Coherence Clusters Machines Virtual Hosts Virtual Hosts Startup and Shutdown Classes Deployments	This page summ destination quo	arizes the JMS reso ta, distributed desti				tem module, including queue		of the JMS module descriptor file. Mo	
Coherence Clusters Machines Virtual Hosts Work Managers Startup and Shutdown Classes	This page summ	arizes the JMS reso ta, distributed desti			created for this JMS sys	tem module, including queue			
Coherence Ousters Machines Wruh Hosts Wruh Hosts Work Managers Starb para Shutdown Classes Deployments Services B-Messarian *	This page summ destination quo	arizes the JMS reso ta, distributed destir is table			created for this JMS sys	tem module, including queue			
Coherence ClustersMachinesWrual HostsWritwal HostsWritwal Hosts	This page summ destination quo	arizes the JMS reso ta, distributed destir is table tesources	nations, for	eign server	created for this JMS sys	tem module, including queue rd parameters.			
Coherence Clusters Machines Wruh Hosts Wruh Hosts Work Managers Starb para Shutdown Classes Deployments Services El-Messarian Your Services	This page summ destination quo	arizes the JMS reso ta, distributed destir is table sesources & <i>Edit</i> button in the	nations, for	eign server	created for this JMS sys 's, and store-and-forwa	tem module, including queue rd parameters.		, connection factories, JMS templates	
Coleman ClustersMachineMachineMachineMachineMachineMachineMachineMachineMachineMachineStartup and Shutdown ClassesDeploymentsDep	This page summ destination quo Customize th Summary of R Click the Lock &	arizes the JMS reso ta, distributed destr is table desources & Editbutton in the te	nations, for	eign server	created for this JMS sys 's, and store-and-forwa	tem module, including queue rd parameters.	and topic destinations	, connection factories, JMS templates	, destination sort keys, ng 1 to 3 of 3 Previous Next
Orderence Custers Hachnes Hachnes Hachnes Startup and Shutdown Classes Deployments Sorrices Aksensoria No task help found. ystem Status	This page summ destination quo	arizes the JMS reso ta, distributed destr is table resources & Editbutton in the te	nations, for	nter to acti	created for this JMS sys s, and store-and-forwa vate all the buttons on	tem module, including queue rd parameters. this page.	and topic destinations	, connection factories, JMS templates Show Show	, destination sort keys, ng 1 to 3 of 3 Previous Next Targets
Orderence Custers Hachnes Hachnes Hachnes Startup and Shutdown Classes Deployments Sorrices Aksensoria No task help found. ystem Status	This page summ destination quo Customize th Summary of R Click the Lock & New Dele	arizes the JMS resor ta, distributed destr is table esources & Editbutton in the te	nations, for	nter to acti	reated for this JMS sys s, and store-and-forwa vate all the buttons on	tem module, including queue di parameters. this page. JNDI Nam MDB_QUEU	and topic destinations,	, connection factories, JMS templates Shown Subdeployment JMS_SUB	, destination sort keys, ng 1 to 3 of 3 Previous Next Targets Cluster-JMS
Orderince Custers Machine Machines Machines Machines Machines Machines Machines Machines Starbug and Shutdown Classes Depolyments Services Starbug and Shutdown Classes Depolyments Services Starbug and Shutdown Classes Starbug and Shutdown Starbug and Shutdown Starbug and Shutdown S	This page summ destination quo Customize th Summary of R Cick the Lock A New Dele Name & New Dele	arizes the JMS resor ta, distributed destr is table esources & Editbutton in the te	nations, for	nter to acti Type Uniform Uniform	created for this JMS sys s, and store-and-forwa vate all the buttons on	tem module, including queue di parameters. this page. 3NDI Nam MDB_QUEL MDB_QUEL	and topic destinations,	, connection factories, JMS templates Show Show	, destination sort keys, ng 1 to 3 of 3 Previous Next Targets

3.3.2 Connection Factory Creation

1. In JMS_MODULE, Click on New.

Warning (i) Image: MDB_QUEUE_DLQ Uniform Distributed Queue MDB_QUEUE_DLQ JMS_SUB Cluster-JM	Change Center	Home Log Ou	t Preferences 📐	Record He	lp	Q		Welcome, weblogic	c Connected to: pe
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Performant Deployments Deploy	omain Structure	The JMS distr	ibuted queue was o	reated succ	essfully.				
Deployments -		Settings for JMS	_Module						
Image: JMS_Module The name of this JMS system module and its resources. It also allows you to configure new resources and access existing resources. Image: JMS_Module The name of this JMS system module. More Info Image: JMS_Module The name of this JMS system module. More Info Image: JMS_Module The name of this JMS system module. More Info Image: JMS_Module The name of this JMS system module. More Info Image: JMS_Module The name of this JMS system module. More Info Image: JMS_Module The name of this JMS system module. Inducting queue and topic destinations, connection factoric JMS templates, destination sort keys, destination quota, distributed destinations, foreign servers, and store-and-forward parameters. Image: Summary of Resources Summary of Resources Image: Image: JMD Iname Subdeployment Targets Image: Image: Uniform Distributed Queue MDB_QUEUE JMS_SuB Cluster-JM Image: Image: Uniform Distributed Queue MDB_QUEUE JMS_SuB Cluster-JM Image: Image: Uniform Distributed Queue MDB_QUEUE JMS_SuB Cluster-JM Image: Image: Unif	Deployments	Configuration	Subdeployments	Targets	Security No	es			
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Persistent Stores Foreign XD2 Providers Inspage summarizes the IMS resources that have been created for this IMS system module, including queue and topic destinations, connection factorie INS task help found. INS task help fo		Name:			JMS_Module		The name	of this JMS system module.	More Info
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New Delete Showing 1 to 3 of 3 Previous Failed (0) Image: Showing 1 to 3 of 3 Previous Critical (0) Name Type JHDI Name Subdeployment Targets Overloaded (0) MDB_QUEUE Uniform Distributed Queue MDB_QUEUE MSS_SUB Cluster-JM MDB_QUEUE_DLQ Uniform Distributed Queue MDB_QUEUE_DLQ MSS_SUB Cluster-JM MDB_QUEUE_RESPONSE Uniform Distributed Queue MDB_QUEUE_DLQ MSS_SUB Cluster-JM		-				6		and the stand of the stand of the	N
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Overloaded (0) MDB_QUEUE Uniform Distributed Queue MDB_QUEUE JMS_SUB Cluster-JM Warning (0) MDB_QUEUE_DLQ Uniform Distributed Queue MDB_QUEUE_DLQ JMS_SUB Cluster-JM OK (1) MDB_QUEUE_ESPONSE Uniform Distributed Queue MDB_QUEUE_RESPONSE JMS_SUB Cluster-JM	I-Work Contexts Iow do I No task help found. System Status	JMS templates, Customize thi Summary of R	destination sort key is table esources					re-and-forward parameters.	
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2. Select Connection Factory and click on Next.



Change Center	Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic	Connected to: pegjm
View changes and restarts	Home >MS-JM51 (migratable) >Summary of Migratable Targets (migratable) >Summary of Clusters >Summary of Migratable Ta			MS-JMS1
Configuration editing is enabled. Future hanges will automatically be activated as you nodify, add or delete items in this domain.	Create a New JMS System Module Resource			
omain Structure	Back Next Finish Cancel Choose the type of resource you want to create.			
Environment Ceployments Services Hessaging Hessaging Housesaging Housesaging Housesaging Housesaging Housesaging Housesaging Housesaging Housesaging Housesaging	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, dist targeting pages for selecting appropriate server targets. Y mechanism for grouping JMS module resources and the me	ompted to enter basic information for buted queues and topics, foreign se 'ou can also associate targetable res	r creating the resource. For targetable re rvers, and JMS SAF destinations, you ca	n also proceed to
Bridges Data Sources Persistent Stores	Connection Factory		Defines a set of connection configuration are used to create connections for JMS d	
Foreign JNDI Providers	© Queue		Defines a point-to-point destination type, for asynchronous peer communications, J	

3. Enter the Name and Click on Next.

ORACLE WebLogic Server Ad	Iministration Console 12c			Q
Change Center	Home Log Out Preferer	nces 🔤 Record Help	٩	Welcome, weblogic Connected to: pegjms
View changes and restarts			>MS-JMS2 (migratable) >Summary of C gets >Summary of JMS Modules > JMS	Justers >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 System Back Next Finish			
Domain Structure	Connection Factory Pro The following properties wi * Indicates required fields		nnection factory. The current module	z is JMS_Module.
JMS Servers Store-and-Forward Agents JMS Modules	What would you like to name	e your new connection factory?		
⊶Path Services B-Bridges ⊶Data Sources ⊶Persistent Stores	What JNDI Name would you	like to use to look up your new c	onnection factory?	
Foreign JNDI Providers	JNDI Name:	MDBQCF		

4. Click on Advance Targeting.

ORACLE WebLogic Server Ad	iministration Console 12c	Q
Change Center	A Home Log Out Preferences 🐼 Record Help	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 >JM: Targets >Summary of JMS Modules >JMS_MODULE	SServer-1 > Summary of JMS Servers > JMSServer-1 > Summary 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 Back Net Finish Advanced Targeting 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 view and accept the default targets where this JMS resource will be targeted. The default tar accept the default targets, then click Advanced Targeting to use the subdeployment mechanism for targe	
Environment Servers Clusters Server Templates	The following JMS module targets will be used as the default targets for your new JMS system module resource appropriately.	e. If the module's targets are changed, this resource will also be retargeted
Migratable TargetsCoherence ClustersMachines	Targets :	
Virtual Hosts Work Managers Startup and Shutdown Classes	Clusters	
Deployments El-Services	All servers in the cluster	
How do I 🖂	Back Next Finish Advanced Targeting Cancel	

5. Select JMS_SUB and Click on Finish.



	Iministration Console 12c	Q
Change Center	🔒 Home Log Out Preferences 🐼 Record Help	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 Targets >Summary of JMS Modules >JMS_MODULE	~1 >Summary of JMS Servers >JMSServer-1 >Summary of Migratable
to pending changes exist. Click the Release Configuration button to allow others to edit the Iomain.	Create a New JMS System Module Resource	
Lock & Edit	Back Next Finish Cancel	
Release Configuration	The following properties will be used to target your new JMS system module resource	
omain Structure	Use this page to select a subdeployment to assign this system module resource. A subdeployment is a mechanism by SAF agent. If necessary, you can create a new subdeployment by clicking the Create a New Subdeployment bu	
Environment	module's subdeployment management page.	
E-Clusters	Select the subdeployment you want to use. If you select (none), no targeting will occur.	
Migratable Targets Coherence Clusters	Subdeployments: JMS_SUB Create a New Subdeployment	
Machines Virtual Hosts Work Managers	What targets do you want to assign to this subdeployment?	
	Targets :	
-Services	Servers	
ow do I	AdminServer	
Configure quotas for destinations Configure JMS templates	Clusters	
Configure destination keys	V Cluster-JMS	
Configure topics Configure queues	Ouster JPS One of the cluster	
Configure connection factories Configure uniform distributed topics	JMS Servers	
Configure uniform distributed queues	3MSServer-1	
Configure foreign servers		
Configure JMS SAF	Back Next Finish Cancel	
iystem Status 🖂		

6. Connection Factory is **Created**.

inge Center	Home Log Ou	t Preferences [Record He	lp		Q	Welcome, weblogi	c Connected to: peg	
w changes and restarts						igratable) >Summary of C ry of JMS Modules > JMS	lusters >Summary of Migratable Targets >I Module	MS-JMS1	
iguration editing is enabled. Future	Messages	linely of clusters 2	Sommer y or p	igi atabie i ai	gea > Junine	ry or sins modules varia,	riodule		
ges will automatically be activated as you fy, add or delete items in this domain.	All changes h	ave been activate	d However 1	items must	he restarted	for the changes to take	effect		
y, add or delete items in this domain.		actory created suc		inclusion inclusion	be restarted	for the changes to take	check		
ain Structure	Connection	sciol y d ealed su	cessiony.						
	 Settings for JMS 	_Module							
vironment	Configuration	Subdeployments	Targets	Security	Notes				
ployments rvices									
JMS Servers Store-and-Forward Agents	resources.	jo general interne		and by been			ws you to configure new resources and	access existing	
JMS Modules									
Bridges	Name:			JMS_Module			The name of this JMS system module. More Info		
Data Sources	Descriptor File	Name:		ims/ims mo	dule-ims.xm	(The name of the JMS module descriptor	file. More Info	
Persistent Stores Foreign JNDI Providers				,,,					
Work Contexts	* This page summ	arizes the JMS res	ources that h	ave been cr	eated for thi	s JMS system module, in	duding queue and topic destinations, co	nnection factories.	
do I	 JMS templates, 	destination sort ke	eys, destination	n quota, di	stributed des	tinations, foreign server	s, and store-and-forward parameters.		
No task help found.									
	Customize th	is table							
em Status	Summary of R	esources							
th of Running Servers	New Dele	te					Showing 1 to 4	of 4 Previous Next	
Failed (0)	🔲 Name 🗇		Туре			JNDI Name	Subdeployment	Targets	
	MDBQCF	$\langle \neg \rangle$	Conne	ction Factor	у	MDBQCF	JMS_SUB	Cluster - JMS	
Critical (0) Overloaded (0)		JE	Unifor	n Distributer	d Queue	MDB_QUEUE	JMS_SUB	Cluster-JMS	
	MDB_QUE					COLUMN THE COMPANY AND ADDRESS	Contract of the second	and the second second and the	
Overloaded (0)	MDB_QUE		Unifor	n Distributer	d Queue	MDB_QUEUE_DLQ	JMS_SUB	Cluster-JMS	
Overloaded (0) Warning (0)	MDB_QUE			n Distributer n Distributer		MDB_QUEUE_DLQ MDB_QUEUE_RES		Cluster-JMS Cluster-JMS	

4 Server Restart

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

hange Center	Home Log Out Preferences	Record Help	Q			Welcome, we	blogic Connected to: FCUBSDor
View changes and restarts	Home >Summary of JMS Servers >JM Modules >JMS_MODULE >Connection			mmary of Migratable Tar	gets >Summary of JMS		
Click the Lock & Edit button to modify, add or delete items in this domain.	Summary of Servers						
Lock & Edit	Configuration Control						
Release Configuration	A server is an instance of WebLogi This page summarizes each server				figuration.		
Environment	23						
Clusters							
Server Templates	Customize this table	nne Frist)					
Server Templates	Servers (Filtered - More Colur Click the Lock & Editbutton in th		all the buttons on this pa	ge.			
Server Templates Migratable Targets Coherence Clusters Machines Writual Hosts Work Managers Startup and Shutdown Classes	Servers (Filtered - More Colu		all the buttons on this pa	ge.		Sh	owing 1 to 7 of 7 Previous Next
Server Templates Migratable Targets Coherence Clusters Withal Hosts Withal Hosts Withal Hosts Work Managers Startup and Shutdown Classes Deployments Services	Servers (Filtered - More Colur Click the Lock & Editbutton in th		all the buttons on this pa	ge. Machine	State	Sh	owing 1 to 7 of 7 Previous Next
Gener Templates Higratable Targets Cohrence Custers Writual Hosts Writual Hosts Work Managers Startup and Shutdown Classes Deployments Services El Mescanon	Servers (Filtered - More Colur Click the Lock & Editbutton in th New Oone Delete Name & AdminServer (admin)	e Change Center to activate			State RUNNING		-
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Hogratic Tagets H	Servers (Filtered - More Colum Cick the Lock & Edifbutton in th Cick the Lock & Edifbutton in th New Name % Cone AdmrServer (admin) CoC_FCUBS_1 DC_FCUBS_2 Composition	e Change Center to activate Type Configured Dynamic Dynamic	Cluster Cluster-App Cluster-App	Machine MAC-1 MAC-2	RUNNING SHUTDOWN SHUTDOWN	Health VOK Not reachable Not reachable	Listen Port 7001 7101 7102
Genere Templates Genere Templates Genere Cousters Genere Cousters Genere Cousters Genere Cousters Strutown Classes Strutown Classes Services Genere Servers Gene Remaped Servers Deleter Menaged Servers	Servers (Filtered - Hore Colu Clob the Lock & Editbutton in th New Cone Delete AdminServer (admin) 0 CL_FOUBS_1 0 CL_FOUBS_2 0 CL_FOUBS_3 0 CL_FOUBS_4	e Change Center to activate Type Configured Dynamic Dynamic Dynamic	Cluster Cluster-App Cluster-App Cluster-App Cluster-App	Machine MAC-1 MAC-2 MAC-1	RUNNING SHUTDOWN SHUTDOWN SHUTDOWN	Health CK Not reachable Not reachable Not reachable	Listen Port 7001 7101 7102 7103
Hospite Targets Hospite Targets Hospite Targets Hospite Targets Hospite Hospite Hospite Work Managers Work Managers Work Managers Services Services Services Create Managed Servers Conservers	Servers (Filtered - More Colum Cick the Lock & EddButton in the Name % AdminServer (admin) OC_FCUBS_1 OC_FCUBS_3	e Change Center to activate 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 CK Not reachable Not reachable Not reachable Not reachable	Listen Port 7001 7100 7102 7103 7103 7104

2. Select the cluster 'DC_JMS_Template-0' and

hange Center	Home Log Out Preferences 🔤 Record	Help			Welcome, weblogic Connected to: FCUBSDom
iew changes and restarts	Home >JMSServer-1 >Summary of Migratable Templates >DC JMS Template-0 >Summary of		MODULE >ConnectionFactory-	0 >placeholder >Summary of Ser	vers >Summary of Server
lick the Lock & Edit button to modify, add or elete items in this domain.	Summary of Server Templates				
Lock & Edit Release Configuration omain Structure -Environment	This page summarizes each server templat A server template contains common, non - manage configuration for a group of serve	lefault attributes that you can apply to	-	h then inherit the template conf	iguration. Server templates enable you to easily
Servers EClusters	E Server Templates				
Server Templates	Click the Lock & Edit button in the Change	e Center to activate all the buttons on t	nis page.		
Coherence Clusters Machines	New Clone Delete				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	DC_JMS_Template-0	Cluster-JMS		7105	
	New Clone Delete				Showing 1 to 2 of 2 Previous Next

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



nge Center	Home Log Out P	references	Record H	lelp	G	<				W	elcome, weblog	ic Connected to	: FCUBSDor
v changes and restarts	Home >Summary of M Server Templates >D0			y of JM	IS Modules >JMS_MODUL	E >ConnectionF	actory-0 >pla	ceholder >	Summary of 9	ervers >Summary of S	Server Templates >D	C_JMS_Template-	0 >Summary (
ending changes exist. Click the Release iguration button to allow others to edit the	Settings for DC_JM		_										
sin.	Configuration Pr	otocols Lo	ogging Deb	ug	Notes								
Lock & Edit	General Cluster	Services	Keystores	SSL	Federation Services	Deployment	Migration	Tuning	Overload	Health Monitoring	Server Start	Web Services	Coherence
Release Configuration	Save												
ain Structure													
InvironmentServersServersServer TemplatesMigratable Targets	that Node Manager				can use to start, susper remote machine.				The Jav	a home directory (pai	th on the machine r	-	
Coherence Clusters	Java Vendor:									n starting this server a Vendor value to use		annuar Mara I	ufa.
Virtual Hosts	Java venuor.								THE JAY	a venuor value to use	e when starting the	server. More I	
Work Managers Startup and Shutdown Classes eployments	BEA Home:									home directory (pati in starting this server		unning Node Man	ager) to
do I	Root Directory:								be on th	ctory that this server e computer that host	s Node Manager. I	f you do not spe	cify a Root
infigure startup arguments for Managed									Director	y value, the domain o	firectory is used by	default. More	Info
rvers art Managed Servers from the ministration Console	Class Path:									spath (path on the m this server. More Ir		le Manager) to u	se when
iut down a server instance													
em Status 🖂													
th of Running Servers													
Failed (0)	Arguments:								The arg	uments to use when s	tarting this server	More Info	

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

5 Foreign Server Creation

- Module Creation
- Foreign Server Creation
- Foreign Server Configuration

5.1 Module Creation

1. JMS_Modules and Click on New.



2. Enter name as MDB_MODULE and click on Next.

	dministration Console 12c Q
Change Center	🏦 Home Log Out Preferences 🔤 Record Help
View changes and restarts	Home >Summary of Migratable Tarvate <mg-1mg1 (minvatable)="" <gummary="" <mg-1mg2="" migratable="" of="" olysters="" tarvate="">Summary of Migratable Targets >MG-1MG1 (migratable) >S</mg-1mg1>
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create JHS System Module Back Nrg Philath Cancel
Benvironment Deployments Describes Descri	The following properties will be used to identify your new module. JMS system resources are configured and stored as modules similar to standard JZEE modules. Such resources include queues, topics, connection factories, templates, destination keys, quota, distributed queues, distributed topics, foreign servers, and JMS store-and-forward (SAF) parameters. You can administratively configure and manage JMS system modules as global system resources. * Indicates required fields
Path Services B-Bridges Data Sources Persistent Stores Foreign JNDI Providers Work Contexts	What would you like to name your System Module? * Name: MDB_MODULE What would you like to name the descriptor file name? If you do not provide a name, a default will be assigned.
How do I Configure JMS system modules	Descriptor File Name:
Configure JMS servers	Where would like to place the descriptor for this System Module, relative to the jms configuration sub-directory of your domain?
System Status	Location In Domain:
Health of Running Servers Failed (0)	Back Net Finish Cancel

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



ORACLE WebLogic Server A		0
Change Center	Record Help Q	Welcome, weblogic Connected to: PORSDoonain
view changes and restarts	Home splaceholder inSummery of Servery of Servery of Server Tengletes xOC_2HS_Tenglete-Evidumency of Healules x3HS_HODOLE inSummery of 3HS Healules	of Server Tenglates +DC_3HL_Tenglate 0 +Summary of Servers +Summary of 3HS
io pending changes exist. Cick the Release configuration button to allow others to edit the toman.	Create JHS System Hodule	
Lack & Edit	Back Next Front Canoel	
Pelesse Carliguration	The following properties will be used to target your new 3HS system module.	
Ioniain Structure	Use this page to select the server or duster on which you would like to deploy this 245 system module.	You can reconfigure targets latter if you with.
- Severs a	Targets:	
Server Templates	Servers	
-Coherence Ousters -Hachives	AdminServer	
- Writial Hosts - Work Managers - Startup and Studieves Classes	Clusters	
-Deskyments 2 Services St. Messanon	Chaster-App All servers in the cluster	
tow do LII	Cluster-JHS C All servers in the cluster	

4. Select CheckBox and Click on Finish.



5. MDB_MODULE is created.

	Iministration Console 12c	õ
Change Center	🟦 Home Log Out Preferences 🚵 Record Help	Welcome, weblogic Connected to: pegjms
View changes and restarts	Home >Summary of Clusters >Summary of Migratable Targets >Summary of Servers >Summary of Deployments >Summary of J Targets >Summary of Clusters >Summary of JMS Servers > Summary of JMS Modules	MS Modules >MDB_MODULE >Summary of Migratable
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Summary of JMS Modules	
Domain Structure B-Custers -Gerver Templats -Higratable Targets -Cohrence Custers -Wachines -Wachines -Wachines -Wachines -Wachines -Wachines -Wachines -Startup and Shutdown Classes	 IMS system resources are configured and stored as modules similar to standard JZEE modules. Such resources include quota, distributed queues, distributed queues, distributed queues, distributed queues, distributed topics, foreign servers, and JMS store-and-forward (SAP) parameters. You can a global system resources. This page summarizes the JMS system modules that have been created for this domain. Customize this table JMS Modules 	
Deployments Services	New Delete	Showing 1 to 2 of 2 Previous Next
	□ Name ↔	Туре
<u>IMS Modules</u> +	JMS_Module	System
How do I		System
Configure JMS system modules Configure resources for JMS system modules	New Doldto	Showing 1 to 2 of 2 Previous Next

5.2 Foreign Server Creation

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

ORACLE WebLogic Server Ad	ministration Console 12c	Q
Change Center	🏦 Home Log Out Preferences 📈 Record Help	Welcome, weblogic Connected to: pegjm
View changes and restarts	Home >Summary of Clusters >Summary of Migratable Targets >Summary of Servers >Summary of Deployments >Summary of Targets >Summary of Clusters >Summary of JMS Servers >Summary of JMS Modules	IMS Modules >MDB_MODULE >Summary of Migratable
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Summary of JMS Hodules	
Domain Structure Cuters Cuters Cuters Coherence Cuters Migratable Targets Coherence Cuters Midvalines Work Managers Statup and Stutdown Classes Depolyments	3MS system resources are configured and stored as modules similar to standard 3ZE modules. Such resources include c quota, distributed queues, distributed topics, foreign servers, and 3MS store-and-forward (SAF) parameters. You can a global system resources. This page summarizes the 3MS system modules that have been created for this domain. Customize this table 3MS Modules	
E-Services	New Delete	Showing 1 to 2 of 2 Previous Next
	🔲 Name 🗇	Туре
<u>IMS Modules</u> *	I JMS_Module	System
How do L		System
Configure JMS system modules	New Delete	Showing 1 to 2 of 2 Previous Next
Configure resources for JMS system modules		

2. Click on Configuration I New.

ORACLE WebLogic Server Ad	ministration Conso	le 12c					Q
Change Center	Home Log Ou	t Preferences 📐	Record Help	•	٩		Welcome, weblogic Connected to: pegjms
View changes and restarts		of Deployments >Su ODULE >Summary o			MDB_MODULE >Summary of Migratable ODULE	Targets >Summary of Clusters >Summa	ry of JMS Servers >Summary of JMS
Configuration editing is enabled. Future changes will automatically be activated as you	Settings for MDB	MODULE					
modify, add or delete items in this domain.	Configuration	Subdeployments	Targets	Security	Notes		
Domain Structure							
Environment	This page displa	ys general informati	ion about a Ji	MS system	module and its resources. It also allow	s you to configure new resources and	d access existing resources.
E ⊡-Clusters	Name:			MDB	MODULE	The name of this JMS	system module. More Info
Migratable Targets Coherence Clusters	Descriptor File	Name:		jms/	indb_module-jms.xml	The name of the JMS	nodule descriptor file. More Info
Machines Virtual Hosts Work Managers Startup and Shutdown Classes					eated for this JMS system module, indi gn servers, and store-and-forward par		onnection factories, JMS templates, destination
Deployments Depl	Customize th	s table					
How do I	Summary of R	esources					
No task help found.	New Dele	te					Showing 0 to 0 of 0 Previous Next
	🔲 Name 🔿		Туре		JNDI Name	Subdeployment	Targets
System Status					There are no items	to display	
Health of Running Servers	New Dele	te					Showing 0 to 0 of 0 Previous Next
Failed (1) Critical (0)	- 48 ⁸						

3. Select Foreign Server and Click on Next.

	Administration Console 12c		Q
Change Center	🏦 Home Log Out Preferences 🔤 Record Help	Q Welcon	me, weblogic Connected to: pegjms
View changes and restarts	Home >Summary of Deployments >Summary of JMS Modules >MDB_ Modules >MDB MODULE >Summary of JMS Modules >MDB MODU	NODULE >Summary of Migratable Targets >Summary of Clusters >Summary of JMS Ser	rvers >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 JMS System Module Resource		
Domain Structure	Choose the type of resource you want to create.		
Environment Servers Clusters G-Clusters Migratable Targets Coherence Clusters Migratable Targets Migratable Targets	Use these pages to create resources in a JMS system module, su Depending on the type of resource you select, you are promptee connection factories, distributed queues and topics, foregrad	h as queues, topics, templates, and connection factories. to enter basic information for creating the resource. For targetable resources, like s, and JMS SAF destanations, you can also proceed to targeting pages for select ich is an advanced mechanism for grouping JMS module resources and the membe	ing appropriate server targets. You
	Connection Factory	Defines a set of connection configura create connections for JMS dients.	
Deployments Services Messanion	O Queue	Defines a point-to-point destination t asynchronous peer communications. is distributed to only one consumer.	A message delivered to a queue
How do I Configure quotas for destinations Configure JMS templates	🔘 Торіс	Defines a publish/subscribe destinativ asynchronous peer communications. distributed to all topic consumers.	A message delivered to a topic is
Configure destination keys Configure topics Configure queues	⑦ Distributed Queue	Defines a set of queues that are dist but which are accessible as a single, I Info	
Configure connection factories Configure uniform distributed topics Configure uniform distributed queues Configure foreign servers	⑦ Distributed Topic	Defines a set of topics that are distribut which are accessible as a single, i Info	
Configure JMS SAF System Status	Foreign Server	Defines foreign messaging providers instances that are not part of the cur	



4. Enter name and Click on Next.

hange Center	🔒 Home Log Out Preferences 🔛 Record Help	Welcome, weblogic Connected to: pegin
/iew changes and restarts	Home >Summary of Deployments >Summary of JMS Modules >MDB_MODULE >Summary of Migratable Targets >Summary of Modules >MDB_MODULE >Summary of JMS Modules >MDB_MODULE	of Clusters >Summary of JMS Servers >Summary of JMS
Configuration editing is enabled. Future changes will automatically be activated as you nodify, add or delete items in this domain.	Create a New JMS System Module Resource	
	Back Next Finish Cancel	
Domain Structure	Foreign Server Properties	
Environment Servers	The following properties will be used to identify your new foreign server. The current module is MDB_MODULE.	
Server Templates Migratable Targets Coherence Clusters	* Indicates required fields	
Machines	* Name: ForeignServer-1	
	Back Neg Frish Cancel	

5. Click on Advanced Targeting.

	ninistration Console 12c	Q
Change Center	🔒 Home Log Out Preferences 🔛 Record Help	Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home >DC_JMS_Template-0 >Summary of Server Templates >DC_JMS_Template-0 >Summary of Servers >Summary JMS Modules >MDB_MODULE	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 JHS System Hodule Resource Back Net Printh Advanced Targeting Cancel The following properties will be used to target your new JHS 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, then click Advanced Targeting to use the subdeployment mechanism for target for following JMS module targets will be used as the default targets for your new JMS system module resource appropriately. Targets: Clusters	ting this resource.
H-Work Managers Startup and Shutdown Classes Deployments Services How do L. Configure quotas for destinations	Cluster-App All servers in the cluster Back. Net Prinh Advanced Targeting Cancel	

6. Click on Create New Subdeployment.

Change Center	🔓 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: pegim
View changes and restarts	Home >Summary of Deployments >Summary of JMS Modules >MDB_MODULE >Summary of Migratable Targets >Summa Modules >MDB_MODULE >Summary of JMS Modules >MDB_MODULE	ary of Clusters >Summary of JMS Servers >Summary of JMS
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create a New JHS System Module Resource	
Domain Structure	The following properties will be used to target your new JHS system module resource. Use this page to select a subdeployment to assign this system module resource. A subdeployment is a mechanism duster, or SAF agent. If necessary, you can create a new subdeployment by diding the Create a New Subdep later by using the parent module's subdeployment management page.	
Coherence Clusters Machines Virtual Hosts Work Managers Startua and Shutdown Classes	Select the subdeployment you want to use. If you select (none), no targeting will occur. Subdeployments: (none) Create a New Subdeployment	
Deployments	What targets do you want to assign to this subdeployment?	

7. Enter Name as MDB_SUB and Click on OK.



	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 Modules >MDB_MODULE >Summary of JMS Mor	JMS Modules > MDB_MODULE > Summary of Migratable Targets > Sum dules > MDB_MODULE	imary 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 Subdeployment		
Domain Structure	Subdeployment Properties The following properties will be used to identi	fy your new subdeployment.	
Servers ClustersServer TemplatesMigratable Targets	Subdeployment Name:	MDB_SUB	
Coherence Clusters Machines	OK Cancel		
			6

8. Select Target as **Cluster-App** and Click on **Finish**.

Change Center	Administration Console 122 Connected to: FCUBSDom Welcome, weblogic Connected to: FCUBSDom
View changes and restarts	Home >DC_JMS_Template-0 >Summary of Server Templates >DC_JMS_Template-0 >Summary of Servers >Summary of JMS Modules >JMS_MODULE >Summary of JMS Modules >MDB_MODULE > Summary of JMS Modules > MDB_MODULE > Summary of JMS Modules > MD
Pending changes exist. They must be activated to take effect.	Create a New JMS System Hodule Resource
Activate Changes	Back Next Finish Cancel
Undo Al 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.
Olusters Server Templates Migratable Targets Coherence Clusters Machines	Select the subdeployment you want to use. If you select (none), no targeting will occur. Subdeployments: MDB_SUB Create a New Subdeployment
Virtual Hosts Work Managers Startup and Shutdown Classes Deployments Presearing	What largets do you want to assign to this subdeployment? Targets :
How do L	Servers
Configure quotas for destinations	AdminServer
Configure JMS templates Configure destination keys	Clusters
Configure topics Configure queues Configure connection factories	Image: Servers in the cluster
Configure uniform distributed topics	JMS Servers
Configure uniform distributed queues Configure foreign servers Configure JMS SAF	DHSServer-1
System Status	Back Net Frish Canoel

9. Foreign Server is created.

	er Adm	inistration Consol	le 12c							Q
Change Center		Home Log Out	t Preferences 📐	Record Help	p	Q			Welcome,	weblogic Connected to: pegjm
View changes and restarts			of Deployments >Sur ODULE >Summary of				mmary of Migratable Targets >	Summary of Clusters >	Summary of JMS Servers >S	ummary of JMS
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.			ave been activated. erver was created s		are necessa	ary.				
Domain Structure		<u> </u>		accession,						
	-	Settings for MDB	_MODULE							
Environment Servers		Configuration	Subdeployments	Targets	Security	Notes				
Olusters Server Templates Migratable Targets Coherence Clusters		This page display	ys general informatio	on about a J	IMS system r	module and its res	ources. It also allows you to	configure new resourc	es and access existing res	ources.
Machines Virtual Hosts		Name:			MDB	_MODULE		The name of the	s JMS system module. Mo	ere Info
Work ManagersStartup and Shutdown ClassesDeploymentsServicesMessaging			arizes the JMS resou		ave been cre		system module, including qu	eue and topic destinati	JMS module descriptor file	 More Info JMS templates, destination
How do I		sort keys, destin	iation quota, distribi	uted destina	itions, foreig	in servers, and sto	re-and-forward parameters			
No task help found.		Customize thi								
System Status		Summary of Re								
Health of Running Servers		New Delet	e						Showin	ng 1 to 1 of 1 Previous Next
Failed (1)		📄 Name 🊕		Тур	pe		JNDI Name	Subdeployme	nt	Targets
Critical (0)	4	> C ForeignSen	ver-1	Fore	sign Server		N/A	MDB_SUB		Cluster-App
Overloaded (0) Warning (0)		New Delet	e				1		Showir	ng 1 to 1 of 1 Previous Next
OK (3)										



5.3 Foreign Server Configuration

1. Click on **ForeignServer-1**.

Change Center	Home Log Ou	t Preferences 🔛	Record He	p		Q		Welcome, weblogic	Connected to: pegjr
View changes and restarts		of Deployments >Sur ODULE >Summary o				Summary of Migratable Targ	ets >Summary of Clusters >Summary	of JMS Servers >Summary of	IMS
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Messages All changes ha	ave been activated.	No restarts	are necess					
Domain Structure	The foreign set	erver was created s	uccessfully.						
	Settings for MDB	_MODULE							
Environment Servers	Configuration	Subdeployments	Targets	Security	Notes				
Server TemplatesMigratable TargetsCoherence ClustersMachinesVirtual Hosts	This page display	ys general informati	on about a .		module and its	resources. It also allows yo	u to configure new resources and a The name of this JMS sys	ccess existing resources.	
Work Managers Startup and Shutdown Classes Deployments	Descriptor File				imdb_module-ji			dule descriptor file, More Ir	
A-Messaning						MS system module, including store-and-forward parame	queue and topic destinations, con ters.	nection factories, JMS templi	ates, destination
How do I									
No task help found.	Customize thi	s table							
	Summary of R	esources							
								Changing 1 to 1 of	
System Status								Showing 1 to 10	
System Status	New Delet	e							1 Previous Next
			Ту	pe		JNDI Name	Subdeployment	Target	
Health of Running Servers	New Delet	Ŷ	-	pe eign Server		JNDI Name	Subdeployment MDB_SUB	Target Cluster-	s

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

ORACLE WebLogic Server	Administration Console 12c			0
Change Center	😭 Hone: Log Out: Preferences 🐼 🖟	ected Heb	9	Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home +Summary of Dutters +Summary + Hodules +HDE MODULE +Fernigotiener		y of Servers >Summery of IMS Hostules >HD	8,MODULE information and a Summary of Servers inSummary of JMS
Click the Lock & Edit button to modify, add or delete items in this domain.	Hessages			
Lock & Edit	# All changes have been activated. In	to restants and recessary.		
Reissave Configuration	Settings for ForeignServer-1			
	Configuration Subdeployment 7	Notes.		
Domain Structure	General Destinations Connection	n Factories		
Diverses	Click the Lock & Editbutton in the Ch	hange Center to modify the s	ettings on this page.	
Server Templates	See			
- Coherence Clusters - Machines - Virtual Hosts			WebLogd Server. It contains information to be defined on one 3401 directory. Use this	bat allows WebLogic Server to reach the remote IREC provider. This way, a number of page to configure a foreign server.
-Work Managers Startup and Shutdown Classes	E Name:	PoreignBerver-1		The name of this foreign server. More Enfo
R Messeller	. 3NDI Initial Context Factory:	weblogic indi W	Joint C	The name of the class that must be estandiated to access the 3401 provider. This class name depends on the 3405 provider and the vendor
How do L. E	4			that are being used. More Info
Oreate foreign connection factories	3NDE Connection URL:	13//10 184 148 1	15 7106 10 184 148 189 7107	The URL that WebLogic Server will use to contact the URL provider. The
Oreste foreign destinations				syntax of the URL depends on which 200 provider is being used. For WebLog: 295, have this held black if you are referencing WebLog: 295 objects within the same dustry. Mare 2046.
System Status	8			
Health of Running Servers	JMDE Properties Credential:			Any Gredentals that must be set for the 34DC provider. These Gredentals

3. Click on Connection Factories tab.

Change Center	Home Log C	ut Preferenc	es 💽 Record H	Help	Q		Welcome, weblogi	Connected to: pegj
View changes and restarts	Home >MDB_MC	DULE >Summ		Targets >Summary of Cluste		Summary of JMS Modules >MD	DB_MODULE >Summary of JMS	
Configuration editing is enabled. Future changes will automatically be activated as you	Settings for For		10	0.00				
modify, add or delete items in this domain.	Configuration	Subdeploy	ment Notes					
Domain Structure	General Des	tinations C	onnection Fact	tories				
Clusters Server Templates Migratable Targets			-	g in a different duster or se n factories that have been o		is long as that provider suppor	rts JNDI.	
Server TemplatesMigratable TargetsCoherence ClustersMachinesWork ManagersStartup and Shutdown ClassesStartup and Shutdown Classes	This page sum Customize the Foreign Conn	marizes the fo his table ection Facto	reign connection		ver, or a foreign provider, a	s long as that provider suppo		
Server Templates Megratable Targets Coherence Clusters Watul Hosts Watv Managers Startup and Studiyon Classes Deployments Deployments Services	This page sum	marizes the fo his table ection Facto	reign connection	n factories that have been o	ver, or a foreign provider, a	s long as that provider suppo		of 0 Previous Next
Server TemplatesMigratable TargetsCoherence ClustersMachinesWatuk HostsWark MonagersStartup and Shutdown ClassesDeployments ServicesDeployments	This page sum Customize the Foreign Conn	marizes the fo	reign connection	n factories that have been o	ver, or a foreign provider, a	s long as that provider support	Showing 0 to 0	
Server Templates Aderate Clusters Coherene Clusters Virtual Hosts Virtual Hosts Vork Managers Starby and Studiown Classes Opelyownets Services	This page sum Customize the Foreign Conn	marizes the fo	reign connection	n factories that have been o	ver, or a foreign provider, a	Remote JNDI Nan	Showing 0 to 0	

4. Create MDBQCF Connection Factory.

	A Home Log Cut Preferences	TTL	1.0.1	Wekame, weblogic Corrected to pegin
Change Center	Contraction of the second s		4	
View changes and restarts	Home HDB_HODULE -Summar Hostune HDB_MODULE - Pares		ny of Dutters >Summary of 345 Servers >Summ	ery of IHS Hostuke +HDE_HODULE +Summery of IHS
Configuration editing is enabled. Future changes will automatically be activated as y modify, add or delete items in this domain.	Create a New Foreign 3PHS Co	unnection Factory		
nodry, ald ir delete nena ir tra dunae. Domain Structure	Carost			
Domain Structure	Foreign Connection Factor	ry Properties		
Orwingsmant Servers Server Tenglates May studie Tangets Coherence Quaters	The following properties will be * Indicates required fields	t used to identify your new for	sign connection factory.	
- Hachwes - Wrtual Hunts	* Rater	MDBQCF		
-Startup and Shutdown Casses	Local 3NDE Name:	MDBQCF		Ţ
B Services B Messame	. Remote 3001 Same:	MDBQCF		<=
Hone dia L	III OK Cercel			

5. Click on **Destination** tab.

Change Center	😭 Hone Log Cut Ihreferences 🔛 Record I	- Q	Webcasse	weblogic Connected to: pegge
View changes and restarts Configuration editing is enabled. Puture changes will automatically be activated as you word?v, add to delete times in the demain.	Home +HDB, NODALE vSurrenzy of Highdale Holdun +HDB, MODALE +Surgedar-or-1 vSa Mexiages of AL charges have been activated. However	alige data	Servers charments of PER Holicite of DE_MCDUEE charments of	ł 140
Domain Structure	Settings for ForeignServer-1			
Oursystement Oursystement	another instance of HobLopt Server nursing This page summarias the funge corrector IV Contonion this table Foreign Connection Factories (Filtered	one: Tab mecture factory that resides an another ser- in a different duater or server, or a farsign of factores that have been created for this doe	n, yrd ofol a scaudde os 201. A renute convector facto render, ni log as hal proder sagarta 201. an	ry can be used to refer to
How do L. 🗄	New Column		Star	rg1to1of1 Previous Next
Configure famigi servers Onate famigi servers	E Name in Lo	cal 2001 Name	Remote 3021 Name	
	ET H08007 H0	8007	MDBOCF	

6. Create MDB_QUEUE.



View changes and restarts	Home >JMS Modules >MDB_MODUL	E >ForeignServer-1 >MDB_MODULE >ForeignServer-1 >	Summary of Servers >JMS Module	es >MDB_MODULE >ForeignServe	r-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 Subdeploymen	t Notes			
Domain Structure	General Destinations Con	nection Factories			
Environment Servers Cuters "Ustual Hods "Capteral Fagets "Coherence Servers "Coherence Custers "Machines "Work Managers "Startur and Shuddom Classes	directory, and the object will be This page summarizes the foreig Customize this table Foreign Destinations	ueue) can be found on a remote server. When this d returned from that directory. In destinations that have been created for this doma		local server, a look-up will be p	
Deployments	New Delete				Showing 0 to 0 of 0 Previous Next
Services P-Messaning	🔲 Name 🗇	Local JNDI Name		Remote JNDI Name	
How do I			There are no items to display		
Configure foreign servers	New Delete				Showing 0 to 0 of 0 Previous Next
Create foreign connection factories					
System Status					



	Administration Console 12c			Q
Change Center	Home Log Out Preferences	Record Help	Q	Welcome, weblogic Connected to: pegjms
View changes and restarts	Home >MDB_MODULE >Summar Modules >MDB_MODULE >Forei		rs >Summary of JMS Servers >Summary	of JMS Modules >MDB_MODULE >Summary of JMS
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create a New Foreign JMS De			
Domain Structure	Foreign Destination Prope			
Clatters Clatters		MDB_QUEUE MDB_QUEUE MDB_QUEUE MDB_QUEUE	ston.	
How do I	OK Cancel			
Configure foreign servers Create foreign connection factories				

7. Similarly Create MDB_QUEUE_RESPONSE, MDB_QUEUE_DLQ.

Change Center	R Home Log Out Preferences	Record Help	Q	Welcome, weblogic Con	nected to: pegims
View changes and restarts	Home > HOB_HODULE > Summer Hodules > HOB_HODULE > Foreig		ry of Quilies »Surmary of 345 Servers »Surme	ry of IMS Modules + MDB_MODULE + Summary of IMS	
Configuration editing is enabled. Future changes will automatically be activated as you	Create a flew Foreign JHS De	stination			
modify, add or delete items in this domain.	OK Cancel				
Domain Structure					
	Foreign Destination Proper	ties			
B Environment Servers B Clusters	The following properties will be	used to identify your new for	ign destination.		
-Server Templates Migratable Targets Coherence Clusters	* Disticates required fields	_			
- Madanes - Virtual Hosts	* Name:	MD8_QUEUE_D	LQ		
- Viork Managers - Startup and Shutdown Classes - Deployments	Local 3NDI Name:	MDB_QUEUE_D	10		
B Services	Remote JNDI Name:	MD8_QUEUE_D	LQ		
How do L_ 🔛	OK Cancel				



ORACLE WebLogic Server	Administration Console 12c			¢
Change Center	🍘 Home Log Out Preferences 🖂 Record Help	9	Welcome, weblogic Correct	ted to: pegi
View changes and restarts	Home I-MOB_HOOULE +Summary of Migratable Targets +Sum Modules I-MOB_MODULE +Foregraderum-1 +Coeffiguration	nery of Outers »Summary of 345 Servers »Summ	ery of 3HS Hodules xHOE_HODULE +Summary of 3HS	
Configuration editing is enabled. Puture changes will automatically be activated as you modify, add or delete items in this domain.	Hessages # All changes have been activated. However 1 items must	t be restarted for the changes to take effect.		
Domain Structure	Settings for ForeignServer-1			
Bentomert	Configuration Subdeployment Notes			
-Servers E	General Destinations Connection Factories			
Moratobic Targits Coherence Clusters Madhres Madhres Matchines Matchines Matchines States Stat	A forego destrution (bloc or gunnel) can be found on an 24CD denotion, and the stopic of bloc rearmed from that This page summarizes the forego destructions that have b ip Constantize this table Foreign Destinations	kectory.	on the local server, a look-up will be performed automatically on the	e remote
How do L_ 🛛	New Delete		Showing 1 to 2 of 2 Prev	ious Next
Configure foreign servers	🔁 Rame 🕫	Local JNDI Name	Remote 3801 Name	
Create foreign connection factories	MD8_QUELE	MD6_QUEUE	MD6_QUEUE	
System Status	MOR QUELE RESPONSE			
		NDB_QUEUE_RESPONSE	MD0_QUEUE_RESPONSE	

ORACLE WebLogic Server A	Idministration Console 12c	1.7.1	O-
Change Center	🙆 Home Log Out Preferences 🐼 Reco	nd Help	Welcome, weblogic Connected to: pegjms
View changes and restarts	Home xMDB_MODULE xSummary of Migrati Modules xMDB_MODULE xForeignServer1	able Tangets > Sciencery of Clusters > Sciencery of 2HS Servers > Sci > Caefiguration	mary of IMS Modules (MDB_MODULE > Summary of IMS
Configuration editing is enabled. Future changes will automatically be activated as you	Create a New Foreign JHS Destination		
modify, add or delete items in this domain.	OK Cancel		
Domain Structure	Foreign Destination Properties		
Bowinament Servers Coheren Server Templates Monatable Targets Coherens Quarters	The following properties will be used to id * Indicates required fields	entify your new foreign destination.	_
- Madwes - Virtual Hosta	*Name:	MD8_QUEUE_DLQ	
	Local 3NDI Name:	MDB_QUEUE_DLQ	
B-Services	Remote JNDI Name:	MD8_QUEUE_DLQ	
How do L_	OK Cancel		
Configure foreign servers			

	Administration Console 120		9
hange Center	A Hone Log Out Preferences 🖾 Record Help	1.9./	Welcome, weblogic Connected to: peg
New changes and restarts	Hone xMDB_ROOULE xSummery of Highetable Terror Modules xMDB_MODULE xForegotienver 1 x Centings	ts >Summary of Outtern +Summary of 3HS Servers +Summar realizes	ry of 3HS Moduler HMDR_MODULE Hummary of 3HS
configuration editing is enabled. Future hanges will automatically be activated as you rodify, add or delete items in this domain.	Hessages All charges have been activated. However 1 the	ms must be restarted for the changes to take effect.	
iomain Structure	Settings for ForeignServer-1		
- Enversment	Configuration Subdeployment Notes		
Servers a	General Destinations Connection Factories		
	This page summarizes the foreign destinations the	t have been created for this domain.	
Horization Horization Horization Startup and Shutdown Casses Optionments Services Othersamon	© Customize this Lable Foreign Destinations		
- Vork Managers Startup and Shittown Caspes Deployments Schwess 9. Messanon			Showing 1 to 3 of 3 Previous Next
Configue foreign servers	Foreign Destinations	Local 3001 Name	Showing 1 to 3 of 3 Phenous (Next Remote 300) Name
Configue foreign servers	Foreign Destinations	Local JHOT Name	
Oran Developers Orange of Shutdown Classes Oranses	Foreign Destinations	Alter a Martin Martin	Remote JNDI Name
Order Standards O	Foreign Destinations	MORIQUEUE	HCB_QUEUE

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

6 Application Deployment

1. Deploy the EAR with Target as Cluster-App.

hange Center	Home Log Out	Preferences M R	ecord Help		Q					Welcome, weblogic Conne	cted to: base_dom
iew changes and restarts	Home >JMS Modules	>MDB_MODULE >Fo	reignServer-1 >JMS	Modules >Sum	mary of Dep	loyments >9	Summary of Sei	rvers >Sur	nmary of Deployments >	Summary of Servers >Summary of Deployme	nts >GWMDB
onfiguration editing is enabled. Future ranges will automatically be activated as you	Settings for GWMD	в									
odify, add or delete items in this domain.	Overview Deploy	ment Plan Config	guration Securi	y Targets	Control	Testing	Monitoring	Notes			
-Environment Servers Clusters Virtual Hosts Mioratable Targets	Target Assignme	nts	t Server Instances	and clusters to	which you	want to de	pioy this Ente	erpnse ap	plication. These setting	is determine where the application is dep Showing 1 to 1 of	
Coherence Servers	Component	t 🗠			Туре					Current Targets	
····Machines ····Work Managers	GWMDB				Enterpr	ise Applicat	ion			Cluster-App	
Startup and Shutdown Classes	GW_MDB	_Bean.jar			EJB					(None specified)	
Deployments Services D-:Messaninn	Change Targets									Showing 1 to 1 of	1 Previous Next
ow do I	í — — — — — — — — — — — — — — — — — — —										

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

hange Center	н	Home Log Out Preferences 🔤 Record H	telp Q			Welcome, w	reblogic Connected to: base_dor
ew changes and restarts	Hom of D	ne >Summary of Environment >Summary of Ser Deployments	rvers >Summary of Deployments >JMS Modules >MDB_	MODULE >Summary	of Environment	t >Summary of Servers >Summary of	of Deployments >GWMDB >Summary
nfiguration editing is enabled. Future inges will automatically be activated as you dify, add or delete items in this domain.		nary of Deployments					
nain Structure							
Environment Environment Environment ServicesMessagingMessaging	To Cu: Dep	install a new application or module for depl istomize this table ployments istall Update Delete Start St	First selecting the application name and using the co loyment to targets in this domain, click the Install b	button.	1		nowing 1 to 5 of 5 Previous Next
Foreign JNDI Providers) Name 🗇		State	Health	Туре	Deployment Order
do I		E FCUBSApp		Active	🗸 ок	Enterprise Application	100
stall an Enterprise application) 🗈 📑 GWEJB		Active	🗸 ок	Enterprise Application	100
nfigure an Enterprise application		〕 E GWMDB		Active	🖋 ок	Enterprise Application	100
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Start and stop a deployed Enterprise application Monitor the modules of an Enterprise) 🕀 📑 SWEJB					(7.023)



7 Frequently Asked Questions

1. Deploy the EAR with Target as Cluster-App.

hange Center	I Home	Log Out Preferences	Record He	elp		Q					Welcome, weblogic	Connected to: base_dom
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odify, add or delete items in this domain.	Overview	Deployment Plan	Configuration	Security	Targets	Control	Testing	Monitoring	Notes			
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Deployments Services D:Messaninn ✓	Change	Targets									Showing 1	to 1 of 1 Previous Next
w do I												

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

inge Center	1	Hor	ne Log Out Preferences 🔛 Record Help	Q			Welcome, we	blogic Connected to: base_d
w changes and restarts			Summary of Environment >Summary of Servers >Sum loyments	nary of Deployments >3MS Modules >MDB_MODU	JLE >Summary	of Environment	>Summary of Servers >Summary of	Deployments >GWMDB >Summar
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- Application and JMS Cluster Deployed on Same Cluster
- Application Shows Warning upon Restart of Managed Servers
- Securing File Store Data
- t3s Protocol
- How to Test the Deployment
- Increase Maximum Number of Message-Driven Bean Threads
- How High Availability is Achieved
- How to setup for Scheduler/Notifications
- What other modules uses JMS Queue's
- References



7.1 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.

7.2 Application Shows Warning upon Restart of Managed Servers

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®	Admi	nistra	ation Console					Q
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		Insta					Sho	wing 1 to 5 of 5 Previous Next
			Name 🗇		State	Health	Туре	Deployment Order
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How do I 🗉			E GWEJB		Active	🖋 ок	Enterprise Application	100
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Update (redeploy) an Enterprise application			_jax-rs(1.1,1.9)		Active		Library	100
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 Monitor the modules of an Enterprise application 		Insta	Update Delete Start Stop -				Shor	wing 1 to 5 of 5 Previous Next
Deploy EJB modules Install a Web application		_						
System Status	1							

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

7.3 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.



7.4 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.

7.5 How to Test the Deployment

1. Navigate to Services I JMS Modules I JMS_MODULE I MDB_QUEUE I MONITORING.

New changes and restarts									
Configuration editing is enabled. Future hanges will automatically be activated as you	Settings for M	DB_QUEUE							
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omain Structure									
Environment	destination.	t to view sta	cobcs about all	of the members of	a uniform distr	xibuted queue. Click on the individual m	ember destination name in the table be	flow to manage the messages on	that
-Servers Custers	Te access th	e uniform da	tributed queue	s message manage	ment page, se	elct the check box next to its name, an	d then click the Show Messages butb	ph.	
- Virtual Hosts									
··· Migratable Targets	& Customize	this table							
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2. Select any one Server and Click on Show Messages.

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					sage details, create new messages, delete contents from another file, or drain all the
Derivers	Click on a message to view its co Message Selector: Customize this table JMS Messages (Filtered - More			Apply	
⇒Services ⊡-Messaning.	New Delete ~ Move ~	Import Export ~			Showing 1 to 0 of 0 Previous Ne
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Manage queue messages			There are no items to d	isplay	
Manage distributed queue messages Manage topic durable subscribers	New Delete ~ Move ~	Import Export ~			Showing 1 to 0 of 0 Previous New
System Status 🖂	í				

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

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View changes and restarts	Home >Configuration >MDBQCF >JMS Modules >JMS_MO	DULE >MDB_QUEUE >Summary of JMS Mess	ages >JMS Modules >JMS_MODULE >MDB_QUEUE >Summary of JMS	Messages
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Produce JMS Message OK Cancel			
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	Correlation ID:			
Coherence Clusters Machines Work Managers	Expiration:			
Startup and Shutdown Classes	Priority:	4 🔻		
⊖-Services ⊡⊡-Messaninn	Delivery Mode:	Persistent •		
How do I • Manage queue messages	Delivery Time:	-1		
Manage ductor messages Manage distributed queue messages Manage topic durable subscribers	Redelivery Limit:	-1		
	Body:			
System Status				
Health of Running Servers				
Failed (0)				
Critical (0) Overloaded (0)		1		

4. Message is Sent.

View changes and restarts		Modules >JMS_MODULE >MDB_	QUEUE >Summary of JMS Messages >JMS Mod	ules >JMS_MODULE >MDB_QUE	JE >Summary of JMS Messages	
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Messages JMS message sent successfully.					
	Summary of JMS Messages					
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	Message Selector: Customize this table JMS Messages (Filtered - More C	-alumna Evist)		Apply		
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Manage queue messages Manage distributed queue messages	□ ID ↔	CorrId	Time Stamp	State String	JMS Delivery Mode	Message Size
 Manage topic durable subscribers 	D:<257876.1411126889162.0	0>	Fri Sep 19 17:11:29 IST 2014	receive transaction	Persistent	472
System Status	New Delete v Move v Ir	mport Export ~			Showing 1 t	to 1 of 1 Previous Next
Health of Running Servers						
Failed (0) Critical (0)						

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

7.6 Increase Maximum Number of Message-Driven Bean Threads

Default number of consumers for an MDB is 16. To increase or restrict this number create Custom Work Manager with a Max Threads Constraint in conjunction with MDBs. The solution is to create a work manager with a max threads constraint and assign the proxy services dispatch policy to this work manager.

Steps to create custom work manager

- 1. Modify the MDB deployment description and deploy the EAR.
- Create Custom Workmanager and add constraints to limit the number of the max MDB threads
- Modify weblogic-ejb-jar.xml
- Work Manager Creation



7.6.1 Modify weblogic-ejb-jar.xml

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

<dispatch-policy>GWMDBWM</dispatch-policy>

weblogic-ejb-jar.xml * ×
xml version="1.0" encoding="UTF-8"?
<pre><weblogic-ejb-jar< pre=""></weblogic-ejb-jar<></pre>
xmlns="http://xmlns.oracle.com/weblogic/weblogic-ejb-jar"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://xmlns.oracle.com/weblogic/weblogic-ejb-jar http://xmlns.oracle
<pre><weblogic-enterprise-bean></weblogic-enterprise-bean></pre>
<ejb-name>6WDB</ejb-name>
EJB Reference Descriptions STARTS
EJB Resource Reference Descriptions STARTS
<resource-description></resource-description>
<res-ref-name>FLEXIEST. WORLD</res-ref-name>
<pre><jndi-name>FLEXTEST.WORLDK/jndi-name></jndi-name></pre>
<pre></pre>
<resource-description></resource-description>
<res-ref-name>MDBQCF</res-ref-name>
<jndi-name>MDBQCF</jndi-name>
<pre></pre>
EJB Resource Reference Descriptions ENDS
<pre><!-- EJB Resource environment Reference Descriptions STARTS--></pre>
<resource-env-description></resource-env-description>
<pre><resource=env=ref=namenddb_queue_response< resource="env=ref=name"></resource=env=ref=namenddb_queue_response<></pre>
<pre><indi-name jndi-name="" mdb_queue_response<=""></indi-name></pre>
<pre></pre>
<pre><resure=env=description></resure=env=description></pre>
<pre><resource=env=ref=name>MDB_QUEUE_DLQ</resource=env=ref=name> <indi=name>MDB_QUEUE_DLQ</indi=name></pre>
<pre></pre> //ini-name/MUD_QUUUE_UL4//ini-name/
<pre> </pre>
<resource-env-uescription <br=""><resource-env-ref-name>SW_MDB_QUEUE_RESPONSE</resource-env-ref-name></resource-env-uescription>
<pre></pre> <pre><</pre>
<pre></pre> //init-fame/se_mol_qoeute_herowse//init-fame/
(I FIR Resource environment Reference Descriptions ENDS>
<1- EJB Resource environment Reference Descriptions ENDS>
<dispatch-policy>&WMDBWN(<dispatch-policy></dispatch-policy></dispatch-policy>
(weblogic-enterprise-beab)

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.

7.6.2 Work Manager Creation

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

Werk changes and restarts No pending changes exist. Citic the Relased configuration buttown to allow others to edit the domain. Image: Configuration buttown to allow others to edit the domain. Domain Structure Cruticomain f Beckase Configuration buttown to allow others to edit the domain. Domain Structure Cruticomain f Beckase Configuration buttown to allow others to edit the domain. Domain Structure Cruticomain f Beckase Configuration buttown to allow others to edit the domain. Domain Structure Cruticomain f Beckase Configuration to the domain of the domain to the domain of the domain	Change Center	🖻 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: FCUBSDome
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Work Managers © Context Request Class "Strutup and Shutdown Classes © Maximum Threads Constraint "Services Minimum Threads Constraint "Interoperability Minimum Threads Constraint	Machines	Fair Share Request Class	
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Coherence Clusters	* Name: GWMDBWM		
Virtual Hosts	Back Next Finish Cancel		
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Virtual Hosts Work Managers			
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-Security Realms	All servers in the cluster		
Interoperability The Diagnostics	Cluster-JMS		
How do I	All servers in the cluster		
Create application-scoped constraints Create application-scoped request classes	Back Next Finish Cancel		
Create application-scoped Work Managers			
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	GWMDBWM	Work Manager		Cluster-App		
-Diagnostics	Kewr, Clone Delete Showing 1 to 1 of 1 Previous Next					
How do I 🖂						
Create application-scoped constraints						

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

WebLogic Server Ad	aministration Console 12c	
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View changes and restarts	Home >Summary of Work Managers >MaxThreadsConstraint=0 >Summary of Work Managers >WorkManager=0 >Summary Environment >Summary of Servers >Summary of Work Managers	y of Work Managers >MaxThreadsConstraint-0 >Summary of Servers >Summary of
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FCUBSDomain	Work Manager	
Clusters Coherence Clusters	Response Time Request Class	
Machines Virtual Hosts	Fair Share Request Class	
	Context Request Class	
Services Security Realms	Maximum Threads Constraint	
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How do I	Capacity Constraint	
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 Create application-scoped Work Managers 		

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omain Structure	The following properties will be used to identify your new Max Threads Request Class.	
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Servers E-Clusters	What would you like to name the new Maximum Threads Constraint?	
Coherence Clusters Machines	* Name: MaxThreadsConstraint-0	
	What is the maximum number of concurrent threads to allocate for requests? Enter either a fixed thread cour	t or the name of a Data Source whose size will be used for the constraint.
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B-Diagnostics	Back Finish Cancel	
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Pending changes exist. They must be activated to take effect.	Create a New Work Manager Component	٦
Activate Changes Undo All Changes	Back Next Finish Cancel	
Domain Structure	You can target the Work Manager to any of these WebLogic Server instances or Clusters. Select the same targets on which you will deploy applications that reference the Work Manager.	
FCUBSDomain 	Available targets :	
Coherence Clusters Machines Virtual Hosts Work Managers	Servers AdminServer	
Startup and Shutdown Classes Deployments Services Security Realms Theroperability Diagnostics Theroperability Diagnostics Theroperability Diagnostics Theroperability	Clusters Cluster.App All servers in the cluster	
How do I	Cluster-JMS	
Create application-scoped constraints Create application-scoped request classes Create application-scoped Work Managers	Back Next Fnish	



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Undo All Changes	Summary of Work Managers					
Domain Structure CU65Comain CU65Comain Everyses Custers Custe	A Work Manager defines a set of request classes and thread constraints that manage work performed by WebLogic Server instances. This page displays the global Work Managers, request classes and thread constraints defined for this domain. Global Work Managers are defined at the domain level. You can also define application-level and module-level Work Managers. Customize this table Global Work Managers, Request Classes and Constraints					
Work Managers Startup and Shutdown Classes	New Clone Delete	Showing 1 to 2 of 2 Previous Next				
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Security Realms	GWMDBWM	Work Manager	Cluster-App			
Diagnostics T	MaxThreadsConstraint-0	Maximum Threads Constraint	Cluster-App			
	New Clone Delete		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 Alas Tread Gorbard Schemer of Weit Neigers (WeitMerager-Eclamore) d'Brit Neigers (NarTread Gorbard Schemer) d'Environnes d					
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	Name:	(No value specified)		The user-specified name of this Milean instance. Here Infa		
	Request Class:	(None configured) (Item)		A respont class associated with this Work Manager. This may be a fairformed expand Class, for provide the set of the set		
	🛃 Minimum Threads Constraint:	(None configured)		The minimum number of threads allocated to resulter deadlocks. Here Info		
	Haximum Threads Constraint:	(None configured) + [New]		The maximum number of concurrent threads that can be allocated to execute requests. Here birls		
How do L	Capacity Constraint:	(None configured) . New		The total number of requests that can be quoted or executing before WebLags: Server begins rejecting requisits. Hore life		
Create application-scoped constraints Create application-scoped result dasses Create application-scoped insum Create global constraints Create global request classes Create global request classes Create global Work Managers	Stuck Thread Action:	Use server default behavior		${\rm Specify}$ how stuck threads should be detected, and what action to take should they occur. Here ${\rm Deta}_{-}$		
	Has Stuck Thread Time:	0		This star which a consisting thread is dediced as due . Here $\mathbf{bf}_{\mathbf{k},\mathbf{s}}$		
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4. Restart managed servers and notice the change in the number of consumers for the QUEUE's.

7.7 How High Availability is Achieved

1. Application Server:



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

2. JMS Provider:

JMS is deployed on 2 managed servers, JMSServer1 and JMSServer2, if any one goes down other will handle the messages.

3. FileStore:

File store is a cluster file system or database where if one node goes down then other will handle the requests.

4. DB Server:

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

7.8 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.

7.9 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

7.10 References

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

