Oracle® Banking Corporate Lending JMS Configuration on Weblogic Server



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ORACLE

Oracle Banking Corporate Lending JMS Configuration on Weblogic Server, Release 14.7.6.0.0

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Preface

This topic contains the following sub-topics:

- Purpose
- Audience
- Documentation Accessibility
- Critical Patches
- Diversity and Inclusion
- Related Resources
- Conventions
- Screenshot Disclaimer
- Acronyms and Abbreviations

Purpose

This guide is designed to help acquaint you to configure JMS on Oracle Weblogic server in cluster mode. This guide helps the user with the installation of Oracle Banking Application.

Audience

This manual is intended for the following User/User Roles:

Table 1 Audience

Role	Function
Administrator	Who controls the system and application parameters and ensures smooth functionality and flexibility of the banking application.
Implementation team	Implementation of Oracle Banking Corporate Lending Solution
Pre-sales team	Install Oracle Banking Corporate Lending for demo purpose
Bank personnel	Who installs Oracle Banking Corporate Lending

The user of this manual is expected to have basic understanding of Oracle Banking Application installation.

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Related Resources

For more information on any related features, refer to the following documents:

- Resource To Be Created Guide
- Installer EAR Building Guide

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 or the glossary.
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

Personal information used in the interface or documents is dummy and does not exist in the real world. It is only for reference purposes.



Acronyms and Abbreviations

The list of the acronyms and abbreviations used in this guide are as follows:

 Table 3
 Acronyms and Abbreviations

Abbreviation	Description
BIP	Business Intelligence Publisher
EAR	Enterprise Archive file
EMS	Electronic Messaging Service
JDBC	Java Database Connectivity
JMS	Java Message Service
JNDI	Java Naming and Directory Interface
MDB	Message-Driven Bean
NFS	Network File System
WLS	WebLogic Server

1 Introduction

This guide provide brief description on major components in WeblogicJMS Server architechture.

This topic contains the following sub-topics:

- Purpose of Major Components This topic explains the steps required for JMS configuration in cluster mode.
- Weblogic 12c New Features This topic provides detailed information on the Weblogic 12c JMS server new features.
- Components Diagram and Data Flow This topic describes the various components of Weblogic JMS Server architecture that to be created.

1.1 Purpose of Major Components

This topic explains the steps required for JMS configuration in cluster mode.

- 1. Oracle Banking Corporate Lending
- 2. WebLogic Server 12.1.3.0.0

JMS Server

The JMS server acts as a management container for the JMS queue and topic resources defined within JMS modules that are targeted to specific JMS servers. A JMS server's main responsibility is to maintain persistent storage for these resources, maintain the state of the durable subscriber, 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 configurations. JMS modules are globally available for targeting servers, and clusters configured in the domain, and therefore are available to all the applications deployed on the same target. 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. While creating a JMS resource, the user needs to choose one Subdeployment.



JMS Resources

JMS Resources	Description
Queue	This defines a point-to-point destination type, which is used for asynchronous peer communications. A message delivered to the queue is distributed to only one customer.
Торіс	This defines a publish/subscribe destination type, which is used for asynchronous peer communication. A message delivered to the topic is distributed to all topic consumers.
Distributed queue	This defines a set of queues that are distributed on multiple JMS servers, but are accessible as a single, logical queue to JMS clients.
Distributed topic	This defines a set of topics that are distributed on multiple JMS servers, but which are as accessible as a single, logical topic to JMS clients.
Uniform Distributed Queue	This queue members are created uniformly from a common configuration.

Table 1-1 JMS Resources- Description

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 types of mechanisms to store the message -

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

1.2 Weblogic 12c New Features

This topic provides detailed information on the Weblogic 12c JMS server new features.

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



Figure 1-1 Architecture previous to 12c

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



Figure 1-2 Architecture in 12c



1.3 Components Diagram and Data Flow

This topic describes the various components of Weblogic JMS Server architecture that to be created.

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



Figure 1-3 Components Diagram and Data Flow

Servers Involved -

- **1**. External System interacts with the application server.
- 2. The application server can be Weblogic or Websphere and has managed servers clustered.



- JMS provider exposes the Queue and this can be Weblogic or Websphere. Here JMS_MODULE is deployed on 2 new MSs but it can be done even on MSs that are part of Cluster-APP(MS1-MS4).
- FileStore is the persistence store that stores the messages, this can be a database or clustered file system.
- 5. Database Server which has FCUBS database.

Data Flow -

- 1. External System sends a message to MDB_MODULE.
- 2. MDB_MODULE internally sends a message to JMS_MODULE.
- 3. JMS_MODULE stores messages in FILESTORE. A request queue is formed at FILESTORE as and when messages are received.
- 4. The message is sent to JMS_MODULE in FIFO.
- 5. The message is sent to MDB_MODULE.
- 6. GWMDB application picks up the message for processing.
- GWMDB after validating against XSD sends a message to the FCUBS database for processing.
- 8. Response from DB to MDB
- 9. Response from MDB to MDB_MODULE
- **10.** MDB_MODULE sends a response to JMS_MODULE.
- **11.** RESPONSE is stored in FILESTORE. A response queue is formed in FILESTORE as and when messages are received.
- 12. The message is sent to JMS_MODULE in RESPONSE QUEUE in FIFO.
- 13. The message is sent to JMS_MODULE in RESPONSE QUEUE in FIFO.

2 Prerequisites

•

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

Machines

Make sure that MAC-1 and MAC-2 machines are created.

ORACLE WebLogic Server Administration Console 12c 🔒 Home Log Out Preferences 🔤 Record Help Q Welcome, infra Connected to: FC146ZD Change Center Home >Summary of Machines >Summary of Persistent Stores >Sum rices: JMS >Sur nary of Machine View changes and restarts Summary of Machines Click the Lock & Edit button to modify, add or delete items in this domain. Lock & Edit A machine is the logical representation of the computer that hosts one or more WebLogic Server instances (servers). WebLogic Server uses configured machine names to determine the optimum server in a cluster to which certain tasks, such as HTTP session replication, are delegated. The Administration Server uses the machine definition in conjunction with Node Manager to start remote servers. Release Configuration This page displays key information about each machine that has been configured in the current WebLogic Server domain. Domain Structure FC146ZDT Domain Partitions Environment Servers Clusters Customize this table Machines (Filtered - More Entries Exist) Ousters
 Coherence Clusters
 Coherence Clusters
 Resource Groups
 Machines
 Virtual Hosts
 Virtual Targets
 Work Managers
 Concurrent Templates
 Resource Management Click the Lock & Edit button in the Change Center to activate all the buttons on this page. New Clone Delete Showing 1 to 2 of 2 Previous | Next Name 🚕 Туре MAC-1 Machine MAC-2 Machine New Clone Delete Showing 1 to 2 of 2 Previous | Next

Figure 2-1 Summary of Machines

Dynamic Clusters and Managed Servers Make sure that the dynamic cluster for FCUBS (4 Managed Servers) and Dynamic cluster for JMS Deployment (2 Managed Servers) are created.

Figure 2-2 Summary of Clusters

Change Center	🔒 н	ome Log Out I	Preferences 🔤 Re	cord Help	Q			Welcome, weblogic Co	nnected to: FCUBSDom
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 >Su	mmary of
Click the Lock & Edit button to modify, add or delete items in this domain.	Messa	ages		restarts are necessary.					
Lock & Edit		nary of Cluste							
Release Configuration	This	r nane o mmari	see the clusters that	have been configured in the cu	rrent Webl onic Serv	er domain			
Environment Servers Gusters Gusters Gusters Gover Templates Governec Clusters Governec Clusters Modrines Writhal Hoots Work Managers	E Clus	stomize this t	able I - More Columns ditbutton in the Cha	erver servers that work togeth Exist) Inge Center to activate all the b				Showing 1 to	2 of 2 Previous Next
Startup and Shutdown Classes		Name 🚕	Cluster Address	Cluster Messaging Mode	Migration Basis	Default Load Algorithm	Replication Type	Cluster Broadcast Channel	Servers
Security Realms		Cluster-App		Unicast	Database	Round Robin	(None)		DC_FCUBS_1, DC_FCUBS_2, DC_FCUBS_3, DC_FCUBS_4
Assign server instances to dusters		Cluster-JMS		Unicast	Database	Round Robin	(None)		DC_JMS_1, DC_JMS_2
 Configure server migration in a cluster 	N	ew 🗸 🛛 Clone	Delete				a contraction of the second	Showing 1 to	2 of 2 Previous Next



Figure 2-3 Summary of Servers

Change Center		Home Log Out Preferences 🔼	Record Help	Q			Welcome, weblog	ic Connected to: FCUBSDoma
View changes and restarts		me >Summary of Server Templates sters >Summary of Servers	>Summary of Clusters >Summ	ary of Servers >Summary	of Clusters >Summary of	of Servers >Summary of Cl	usters >Cluster-JMS >Summary of S	ervers »Summary of
Click the Lock & Edit button to modify, add or delete items in this domain.		mary of Servers						
Lock & Edit	Cor	figuration Control						
Release Configuration								
Domain Structure	Th	server is an instance of WebLog is page summarizes each server				iguration.		
Environment	<u></u>							
-Clusters								
Server Templates Migratable Targets	₽ C	ustomize this table						
Migratable Targets Coherence Clusters	E SI	ervers (Filtered - More Colu						
U-Migratable Targets Coherence Clusters Machines Virtual Hosts	E SI			all the buttons on this pa	ge.			
Migratable Targets Coherence Clusters Machines	= si	ervers (Filtered - More Colu		all the buttons on this pa	ge.		Showing	g 1 to 7 of 7 Previous Next
		ervers (Filtered - More Colu ick the <i>Lock & Edit</i> button in th		all the buttons on this pa	ge. Machine	State	Showing	g 1 to 7 of 7 Previous Next Listen Port
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Murgrabbe Targets Coherence Custers Machines Virtual Hosts Virtual Hosts Virtual Hosts Virtual Hosts Virtual Hosts Virtual Hosts Coherence Statu pand Shutdown Classes Coherence Statu pand Shutdown Classes Coherence Status -		ervers (Filtered - More Colu kik the Lock & Edit/button in th New Cone Delete Name & Adm:Server(admin) DC_FCUBS_1 DC_FCUBS_2 DC_FCUBS_3	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
Maynable Targets Coherene Custers Machines Virtual Hosts		New One Delte Name & AdmrServer(admin) 0 <td< td=""><td>e Change Center to activate Type Configured Dynamic Dynamic Dynamic Dynamic</td><td>Cluster -App Cluster -App Cluster -App Cluster -App Cluster -App Cluster -App</td><td>Machine MAC-1 MAC-2 MAC-1 MAC-2</td><td>RUNNING SHUTDOWN SHUTDOWN SHUTDOWN SHUTDOWN</td><td>Health CK Not reachable Not reachable Not reachable Not reachable Not reachable</td><td>Listen Port 7001 7101 7102 7103 7104</td></td<>	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 Not reachable	Listen Port 7001 7101 7102 7103 7104
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Data Source

Make sure that Data Source is required for the MDB EAR is created with target as **Cluster-App**.

Figure 2-4 Summary of JDBC Data Sources

ORACLE WebLogic Server®	RACLE WebLogic Server® Administration Console									
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Q		Welcome, weblogic Connected to: base_domain						
View changes and restarts	Home >JMS Modules >JMS_MODULE >MDB_QUEUE >Sumn Sources	nary of JMS Messages >JMS Modules >JMS	_MODULE >MDB_QUEUE >Summary of JMS Messages >Su	ummary of Deployments >Summary of JDBC Data						
Configuration editing is enabled. Future changes will automatically be activated as you	Summary of JDBC Data Sources	ummary of JDBC Data Sources								
modify, add or delete items in this domain.	Configuration Monitoring									
Domain Structure → Service → Tetesaging → MK Servers → Store-and-Forward Agents → MK Modules → Dath Services → Dath Services → Data Sources → Data Sources → Paristent Stores → Wilk Contexts → WML Entity Caches → COM	A JDBC data source is an object bound to the JND) tro borrow a database connection from a data source. This page summarizes the JDBC data source objects th Customize this table Data Sources (Filtered - More Columns Exist) New Celefie Name Columns Exist)		hrough a pool of JOBC connections. Applications can l	look up a data source on the JNDI tree and then Showing 1 to 3 of 3 Previous Next Targets						
	FLEXTEST.WORLD	Generic	FLEXTEST.WORLD	Cluster-App						
11	idhe/feidauDC	Conorie	idhe/feidaa00	AdminEnnior						

• Shared Folder

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



3 JMS Configuration

This topic contains the following sub-topics:

- Create Persistence Store
 This topic explains systematic instructions to create the Persistence Store.
- Create JMS Server
 This topic explains systematic instructions to create the JMS Server.
- Configure Cluster for Service Migration This topic explains the systematic instructions to configure cluster for service migration.

3.1 Create Persistence Store

This topic explains systematic instructions to create the Persistence Store.

1. Under the **Domain Structure** on the left panel, navigate to the **Services**, and click **Messaging**, and then click **Persistent Stores**.

The Summary of Persistent Stores screen displays.

ORACLE WebLogic Server Ad	Iministration Console 12c		Q
Change Center	🔒 Home Log Out Preferences 🔤 Rec	ord Help	Welcome, infra Connected to: FC146ZDT
View changes and restarts	Home >Summary of Machines >Summary of	Persistent Stores >Summary of Services: JMS >Summary of JMS Servers >	Summary of Servers >Summary of Machines >Summary of Persistent Stores
No pending changes exist. Click the Release	Summary of Persistent Stores		
Configuration button to allow others to edit the domain. Lock & Edit Release Configuration	page summarizes the persistent stores t	y for storing subsystem data, such as persistent JMS messages. It c hat have been created for this domain.	an be a JDBC-accessible database, disk-based file, or replicated memory storage. This
Domain Structure	Customize this table		
JMS Servers	Persistent Stores (Filtered - More Co	olumns and Entries exist)	
Store-and-Forward Agents	New - Delete		Showing 0 to 0 of 0 Previous Next
JMS ModulesPath Services Bridges	Create FileStore Create JDBCStore	Туре	Target
Data Sources		There are no items to dis	play
Persistent Stores Foreign JNDI Providers Work Contexts	New - Delete		Showing 0 to 0 of 0 Previous Next
jCOM Mail Sessions			
Mail Sessions +			

Figure 3-1 Summary of Persistent Stores

2. Click New and select Create FileStore from the drop-down list.

The Create a New File Store screen displays.



Figure 3-2 Create a New File Store

	dministration Console	e 12c			Q
Change Center	Home Log Out	Preferences 🔝 Record Help	Q		Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home >Summary o of Persistent Stor		ummary of Clusters >Summary of	Servers »Summary of Clusters	s >Cluster-3MS >Summary of Servers >Summary of Clusters >Summary of Servers > Summary
No pending changes exist. Click the Release Configuration button to allow others to edit the	Create a New File	Store			
domain. Lock & Edit Release Configuration	OK Cancel				
Domain Structure	The following prop * Indicates required	perties will be used to identify you I fields	r new file store.		
Environment Servers Custers -Server Templates -Mignatable Targets -Coherence Clusters -Machines	* Name:	te to name your new file store? FileStore-1 tance for this file store.			
Virtual Hosts Work Managers Startup and Shutdown Classes	Target:	Cluster-JMS 💌			
Deployments Services	The pathname to t	he directory on the file system wh	ere the file store is kept. This di	ectory must exist on your s	ystem, so be sure to create it before completing this tab.
- Messanion *	Directory:	/scratch/work_area/	JMS_FILESTORE		
How do L • Create File Stores • Monitor persistent stores	OK Cancel				

3. Select Cluster-JMS from the Target drop-down, and click OK.

The FileStore-1 is created.

Figure 3-3 Summary of Persistent Stores - Message

ORACLE WebLogic Server	Administration Console 12c		Q
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home >Summary of Clusters >Summary of Servers >Sumr of Persistent Stores	mary of Clusters >Summary of Servers >Summary	of Olusters >Cluster-JMS >Summary of Servers >Summary of Clusters >Summary of Servers >Summary
Click the Lock & Edit button to modify, add or delete items in this domain.	Messages	ecessary.	
Lock & Edit Release Configuration	Summary of Persistent Stores		
Domain Structure → Gervers → Gervers → Gerver Tenglates → Migratable Tangets → Migratable Tangets → Migratable Tangets → Work Managers → Work Managers → Work Managers → Work Managers → Microard Shutdown Classes → Deployments → Services ⊕ Heseaging → Catset Stores → Persistent Stores → → Persistent Stores → → → Service → Persistent Stores → → → → →	summarizes the persistent stores that have been origin © Customize this table Persistent Stores Click the Lock & Edifbutton in the Change Center to New v Delete Name ŵ Fiestore-1	ted for this domain.	es. It can be a JDBC-accessible database, disk-based file, or replicated memory storage. This page Showing 1 to 1 of 1 Previous Next Target Cluster-JMG Cluster-JMG Cluster-JMG Cluster-JMG
How do I	New v Delete		Showing 1 to 1 of 1 Previous Next
- County File Street			

3.2 Create JMS Server

This topic explains systematic instructions to create the JMS Server.

1. Under the **Domain Structure** left panel, navigate to the **Services**, and click **Messaging** and then click **JMS Servers**.

The Summary of JMS Servers screen displays.



Figure 3-4 Summary of JMS Servers

ORACLE WebLogic Serve	er Adm	inistration Console 12c					
Change Center		A Home Log Out Preferen	ces 🚵 Record Help	Q			Welcome, infra Connected to: FC14
View changes and restarts		Home >Summary of Machines JMS Servers	>Summary of Persistent Stores >	Summary of Services: JMS >Summa	ry of JMS Servers >Summar	of Servers >Summary of Machines	>Summary of Persistent Stores >Summary of
No pending changes exist. Click the Release Configuration button to allow others to edit		Summary of JMS Servers					
domain.							
Lock & Edit		JMS servers act as manage	ment containers for the queue	s and topics in JMS modules that	are targeted to them.		
Release Configuration		This page summarizes the	JMS servers that have been cr	eated in the current WebLogic Se	rver domain.		
Domain Structure							
Concurrent Templates	-	Customize this table					
Resource Management		JMS Servers (Filtered - N	lore Columns and Entries o	xist)			
Startup and Shutdown Classes							
Deployments Services		New Delete					Showing 0 to 0 of 0 Previous New
□ Services □ → Messaging		🗆 Name 🚕	Persistent Store		Target	Current Target	Health
JMS Servers					got	carrent ranget	
Store-and-Forward Agents				There a	re no items to display		
JMS Modules		New Delete					Showing 0 to 0 of 0 Previous New
Path Services							
Bridges							
Data Sources							
Persistent Stores	-						

2. Under JMS server table, click New.

The Create a New JMS Server screen displays.

Figure 3-5 Create a New JMS Server

	dministration Console 12c		ģ
Change Center	🔒 Home Log Out Preferences 🔤 Record H	lelp Q	Welcome, weblogic Connected to: FCUBSDoma
View changes and restarts	Home >Summary of Servers >Summary of Cluster Stores >Summary of JMS Servers	s >Summary of Servers >Summary of Clusters >Cluster-JMS	>Summary of Servers >Summary of Clusters >Summary of Servers >Summary of Persistent
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New JMS Server Back Next Finish Cancel		
Release Configuration	JMS Server Properties The following properties will be used to identify	y your new JMS Server.	
Domain Structure	* Indicates required fields		
-Environment Servers Server Templates Miroratable Targets	What would you like to name your new JMS Serv	JMSServer-1	
Coherence ClustersMachinesWirtual HostsWork ManagersStartup and Shutdown ClassesStartup and Shutdown Classes	Specify persistent store for the new JMS Server Persistent Store:	FileStore-1 Create a New Store (none)	
	Back Next Finish Cancel	FileStore-1	

3. Select FileStore-1 in the field of Persistent Store, and then click Next.

The Create a New JMS Server- Target screen displays.



Figure 3-6 Create a New JMS Server- Target

4. Select Target as Cluster-JMS, and then click Finish.

The JMS-Server-1 is created.



DRACLE WebLogic Server Adr							
nange Center	Home Log Out Preferen	nces 🛃 Record Help	Q			Welcome, infra	Connected to: FC14
iew changes and restarts	Home >Summary of Machines JMS Servers	>Summary of Persistent Stores >Summary of Stores >S	iervices: JMS >Summary	of JMS Servers >Summary	of Servers >Summary of Machines >	Summary of Persistent	Stores >Summary of
o pending changes exist. Click the Release onfiguration button to allow others to edit the omain.	Summary of JMS Servers						
Lock & Edit Release Configuration		ement containers for the queues and topics JMS servers that have been created in the		-			
Concurrent Templates	Customize this table	fore Columns and Entries exist)					
Startup and Shutdown Classes	New Delete					Showing 0 to	0 of 0 Previous Ne
-Services -Messaging	🗆 Name 🗞	Persistent Store	,	Target	Current Target	н	ealth
			There are	no items to display			
	New Delete					Showing 0 to	0 of 0 Previous Ne

Figure 3-7 Summary of JMS Servers - Message

In NFS below filestores can be seen.

```
Figure 3-8 JMS Filestore
```

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

3.3 Configure Cluster for Service Migration

This topic explains the systematic instructions to configure cluster for service migration.

1. Under the **Domain Structure** left panel, click the **Environment** drop-down option, and then click **Clusters**.

The Summary of Clusters screen displays.

Change Center	Home Log Out	Preferences 🔤 Reco	ord Help	Q			Welcome, weblogic Co	onnected to: FCUBSDom		
View changes and restarts		Servers >Summary of C of Servers >Summary of		mplates >Summary of	f Clusters >Summary of Servers	>Summary of Clusters >	Summary of Server Templates >Su	mmary of		
Click the Lock & Edit button to modify, add or delete items in this domain.	Messages									
Lock & Edit	All changes hav	e been activated. No r	estarts are necessary.							
Release Configuration	Summary of Clust	215								
Domain Structure	This page summar	zes the dusters that h	ave been configured in the cu	rrent WebLogic Serv	er domain.					
-Environment	A duster defines	roups of WebLogic Ser	ver servers that work togeth	er to increase scalab	ility and reliability.					
-Clusters -Server Templates	Customize this	₽ Customize this table								
LMigratable Targets	Clusters (Filtere	Clusters (Filtered - More Columns Exist)								
	Click the Lock & Editbutton in the Change Center to activate all the buttons on this page.									
Coherence Clusters Machines	Click the Lock & I	dit button in the Chan	ge Center to activate all the b	uttons on this page.						
Machines Virtual Hosts Work Managers	Click the Lock & I		ge Center to activate all the b	uttons on this page.			Showing 1 to	2 of 2 Previous Next		
Machines Virtual Hosts Virtual Hosts Startup and Shutdown Classes Deployments		e Delete	ge Center to activate all the b			Replication Type				
- Machines - What Honots - Work Nanages - Start by and Stutdown Classes - Deployments - Generative Boalms - Sen vibu Boal	New - Con	Delete				Replication Type				
Machines Virbal Hosts Work Managers Startup and Shutdown Classes Deployments Services Services Services Services	New - Con	Cluster Address	Cluster Messaging Mode	Migration Basis	Default Load Algorithm			Servers DC_FCUBS_1, DC_FCUBS_2, DC_FCUBS_3,		

Figure 3-9 Summary of Clusters



2. Select **Cluster-JMS** from clusters table.

The Settings for Cluster-JMS screen displays.

Figure 3-10 Sett	tings for Cluster-JMS	- Migration tab
------------------	-----------------------	-----------------

ORACLE WebLogic Server Ad	dministration Console 12c										Q
Change Center	Home Log Out Pr	references 🔤 Reci	ord Help		Q					Welcome, inf	ra Connected to: FC146ZD
View changes and restarts	Home >Summary of JM Clusters >Cluster-JMS	Home >Summary of JMS Servers >Summary of Servers >Summary of JMS Servers >Summary of Persistent Stores >Summary of Clusters >Summary of Servers >S								of Servers >Summary of	
Click the Lock & Edit button to modify, add or delete items in this domain.	Settings for Cluster-J	Settings for Cluster-JMS									
Lock & Edit	Configuration Mo	onitoring Control	Deployments	Services	Notes						
Release Configuration	General JTA Me	essaging Servers	Replication	Migration	Singleton Services	Scheduling	Overload	Health Monitoring	HTTP	Coherence	
Domain Structure	Click the Lock & Edi	Wt button in the Char	ige Center to m	odify the setti	ngs on this page.						
FC146ZDT A	Save										

- **3.** Click the **Migration** Tab.
- 4. Change Migration Basis to Consensus, and then click **Save**.



4 JMS Module Creation

This topic explains the creation of JMS module, sub deployment, queue and connection factory.

This topic contains the following sub-topics:

- Create JMS Module
 This topic explains systematic instructions to create the JMS Module.
- Create Sub Deployment
 This topic explains systematic instructions to create the Subdeployment.
- Create Resources
 This topic describes the steps to create resources for configuration of Weblogic JMS Server architecture.

4.1 Create JMS Module

This topic explains systematic instructions to create the JMS Module.

1. Under the **Domain Structure** left panel, navigate to the **Services** drop-down option, and click **Messaging**, and then **JMS Modules**.

The Summary of JMS Module screen displays.

Figure 4-1 Summary of JMS Module

hange Center	🚹 Home Log Out Preferences 🔤 Record Help	Welcome, infra Connected to: FC146Z
/iew changes and restarts	Home >Summary of Servers >Cluster-JMS >Summary of Servers >Summary of Clusters >Cluster-JMS >Summary of JMS Modules >Clust Modules	ter-JMS >Summary of JMS Modules >Cluster-JMS >Summary of JMS
to pending changes exist. Click the Release Configuration button to allow others to edit the	Summary of JMS Modules	
lomain.		
Lock & Edit Release Configuration	JMS system resources are configured and stored as modules similar to standard Java EE modules. Such resources include or distributed queues, distributed topics, foreign servers, and JMS store-and-forward (SAF) parameters. You can administrative resources.	
Domain Structure	This page summarizes the JMS system modules that have been created for this domain.	
C146ZDT 🔺		
Domain Partitions	Customize this table	
Deployments	JMS Modules (Filtered - More Columns Exist)	
Services		
□ - Messaging	New Delete	Showing 1 to 1 of 1 Previous Next
	Name 🗞 Typ	
IMS Modules		~
Path Services	New Delete	Showing 1 to 1 of 1 Previous Next
Paul Services		

2. Click New in the JMS Module table.

The Create JMS System Module screen displays.



Change Center	🏠 Home Log Out Preferences 🔛 Record Help	Q	Welcome, infra Connected to: FC146ZE
View changes and restarts	Home >Summary of Servers >Cluster-JMS >Summary of Servers Modules	S >Summary of Clusters >Cluster-JMS >Summary of	JMS Modules >Cluster-JMS >Summary of JMS Modules >Cluster-JMS >Summary of JMS
No pending changes exist. Click the Release Configuration button to allow others to edit the Jomain.	Create JMS System Module		
Lock & Edit	Back Next Finish Cancel		
Release Configuration	The following properties will be used to identify yo	ur new module.	
Jonnain Structure C142DDT Domain Partitions Environment Deployments Services Instructure Provides Provides		JMS store-and-forward (SAF) parameters. You	seources include queues, topics, connection factories, templates, destination keys, quota, can administratively configure and manage JMS system modules as global system
low do I 🖂	What would you like to name the descriptor file name? If ye	ou do not provide a name, a default will be assi	gned.
Configure JMS system modules	Descriptor File Name:		
Configure JMS servers			

3. Enter the Name as JMS_MODULE, and click Next.

The Create JMS System Module - Targets screen displays.

Figure 4-3	Create JMS S	ystem Module -	Targets
------------	--------------	----------------	---------

ORACLE WebLogic Server A	dministration Console 12c	õ
Change Center	A Home Log Out Preferences Record Help	Welcome, weblogic Connected to: FCU8SDomain
View changes and restarts	Home >Summary of Server Templates >DC_JHS_Template-0 >Summary of Servers >Summary of Higratable Targets >Summary of Higratable Targets >Summary of JHS Hodules	JMS Servers >JMSServer-1 >Summary of JMS Servers >JMSServer-1 >Summary of
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration	Create JHS System Hodule Back Med. The following properties will be used to target your new JHS system module.	
Domain Structure	Use this page to select the server or cluster on which you would like to deploy this JMS system module. You can reconfigure	e targets later if you wish.
B-Environment Servers Ousters Server Templates	Targets :	
	Servers AdminServer	
Work Managers Startup and Shutdown Classes	Clusters	
-Deployments S-Services S-Messarion	Chuster App All servers in the cluster	
How do L. 🛛	Cluster-JHS	
Configure 345 system modules Configure 345 servers	All servers in the cluster	

4. Select the target as **Cluster-JMS**, and then click **Next**.

The Create JMS System Module - Add resources to this JMS system module screen displays.



ORACLE WebLogic Server	dministration Console 12c	Ģ
Change Center	🔒 Home Log Out Preferences 🔛 Record Help	Welcome, infra Connected to: FC146Z
View changes and restarts	Home >Summary of Servers >Cluster-JMS >Summary of Servers >Summary of Clusters >Cluster-JMS >Summary of JMS Modules >Cl Modules	luster-JMS >Summary of JMS Modules >Cluster-JMS >Summary of JMS
No pending changes exist. Click the Release Configuration button to allow others to edit the	Create JMS System Module	
lomain.	Back Next Finish Cancel	
Release Configuration	Add resources to this JMS system module	
Domain Structure C146ZDT - D-Domain Partitions D-Environment Deployments	Use this page to indicate whether you want to immediately add resources to this JMS system module after it is created. J Would you like to add resources to this JMS system module? Back Mod [_Finish] Cancel	MS resources include queues, topics, connection factories, and such.
⊖-Services →Messaging →JMS Servers →Store-and-Forward Agents →JMS Modules		
Path Services Data SourcesData SourcesPersistent Stores		

Figure 4-4 Create JMS System Module - Add resources

5. Select the check box, and click Finish.

The JMS_MODULE is created and successful message displays on the Settings for JMS_MODULE screen.

Figure 4-5 Settings for JMS_MODULE - Messages

🔒 Home Log O	ut Preferences 🔤	Record Help	D	Q	Welcome, infra Connected to: FC146ZD
Home >Cluster-JM Modules >JMS M		1odules >Clust	ter-JMS >Summary of J	JMS Modules >JMS_Module >Su	ummary of Services >Summary of JMS Modules >FCUBSJMSModule >Summary of JMS
lessages					
🛷 The JMS mod	lule was created suc	cessfully.			
Settings for JMS	_Module				
Configuration	Subdeployments	Targets	Security Notes		
Name:			JMS_Module	e	The name of this JMS system module. More Info
Scope:			Global		Specifies if the JMS system module is accessible within the domain, a partition, or a resource group template. More Info
Descriptor File Name: jms/jms_module-jms.xml The name of the JMS module descriptor file. More Info					The name of the JMS module descriptor file. More Info

4.2 Create Sub Deployment

This topic explains systematic instructions to create the Subdeployment.

- 1. Under the **Domain Structure** left panel, navigate to the **Services** drop-down option.
- 2. Click Messaging, and then click JMS Modules.

The Settings for JMS_Module screen displays.



Figure 4-6	Settings	for	JMS_	Module
------------	----------	-----	------	--------

ORACLE WebLogic Server Add	ministration Console	12c								ç
Change Center	🔒 Home Log O	ut Preferences 📐	Record He	elp		Q			Welcome, infra	Connected to: FC1462
View changes and restarts	Home >FCUBSJMS JMS Modules >JM		JMS Module	s >FCUBSJM	SModule >	Summary of JMS Mo	dules >FCUBSJMSM	Adule >Summary of Deployments >FCUBSJ	MSModule >Summary of Dep	loyments >Summary of
Pending changes exist. They must be activated to take effect.	Settings for JMS	_Module								
Activate Changes	Configuration	Subdeployments	Targets	Security	Notes					
Undo All Changes Domain Structure	This page displa	ays general informati	ion about a	JMS system	n module	and its resources. I	t also allows you f	to configure new resources and access e	xisting resources.	
FC146ZDT	Name:			J	MS_Modu	le		The name of this JMS syste	em module. More Info	
Environment Deployments Services	Scope:			C	Slobal			Specifies if the JMS system partition, or a resource gro		
-Messaging -JMS Servers	Descriptor File	Name:		j	ms/jms_r	odule-jms.xml		The name of the JMS mode	ule descriptor file. More I	nfo
Store-and-Forward Agents JMS Modules Path Services Data Sources Data Sources Parsistent Stores Foreion MD1 Brendders		ta, distributed destin						queue and topic destinations, connection	factories, JMS templates,	destination sort keys,
How do I	Summary of R	esources (Filtered	- More En	tries Exist)					
	New Delete	3							Showing 0 to	0 of 0 Previous Next
Configure quotas for destinations			-							
Configure JMS templates Configure destination keys	🗌 Name 🚕		Туре		IDNC	Name		Subdeployment	Targe	ts
Configure destination keys Configure topics						Ther	e are no items to	display		
Configure cupics Configure queues	New Delete	5							Showing 0 to	0 of 0 Previous Next

3. Click the **Subdeployments** tab, and then click **New**.

The Create a New Subdeployment screen displays.

Figure 4-7 Create a New Subdeployment

ORACLE WebLogic Server Ad	ministration Console 12c			Q					
Change Center	🛕 Home Log Out Preferences 🔤 Record Help	٩	Welcome, infra	Connected to: FC146ZDT					
View changes and restarts	Home >FCUBSJMSModule >Summary of Deployments >FC Modules >FCUBSJMSModule	Home >FCUBSJMSModule >Summary of Deployments >FCUBSJMSModule >Summary of Deployments >Summary of JMS Modules >JMS_Module >Summary of JMS Module >Summary of JMS Modules >FCUBSJMSModule							
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	Subdeployment Properties								
Domain Structure	The following properties will be used to identify your * Indicates required fields	r new subdeployment.							
FC146ZDT A	indicates required news								
Domain Partitions									
Environment	* Subdeployment Name:	JMS_SUB		I					
Deployments									
Services Oreman Green Generating	Back Next Finish Cancel								
- JMS Servers									
JMS Modules									
Path Services									
⊞-Bridges									
Data Sources									
Bridges									

4. Specify the Subdeployment Name as JMS_SUB, and then click Next.

The Create a New Subdeployment - Targets screen displays.

Figure 4-8	Create a New	Subdeploy	yment -	Targets
------------	--------------	-----------	---------	---------

	Iministration Console 12c	Q
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home >DC_JMS_Template-0 >Summary of Servers >Summary of Migratable Targets >Su JMS Modules >JMS MODULE	ummary of JMS Servers >JMSServer-1 >Summary of JMS Servers >JMSServer-1 >Summary of Migratable Targets >Summary of
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration	Create a New Subdeployment Back Finish Cancel Targets Please select targets for the Subdeployment	
Domain Structure	Prease select targets for the Subdeployment	
Environment Gevers Clusters Conternation Migratable Targets Conternational Conternation	Servers AdminServer Clusters	
Machines Virtual Hosts Work Managers Startup and Shutdown Classes	Image: Cluster-JMS Image: Cluster cluster	
	JMS Servers JMSServer-1	
How do I Configure subdeployments in JMS system modules	Back Next Finish Cancel	



5. Select the target as Cluster-JMS, and then click Finish.

The **JMS_SUB** subdeployment is created.

Figure 4-9 Settings for JMS_Module- Subdeployment Messages

Change Center	A Home Log Out Preferences 🔛 Record Help	Welcome, weblogic Connected to: pegjin
View changes and restarts Configuration editing is enabled. Future changes will automotically be activated as you modify, add or delete items in this domain. Domain Structure	Home >M5-2M51 (nigratable) >Summary of Migratable Targets >M5-2M52 (nigratable) >Sum (migratable) >Summary of Duates >Summary of Migratable Targets >Summary of 2M5 Mod, Messages	/m >3HS_Hodule
	Settings for JMS_Module	
	and the second se	
Environment Deployments Services Hessaging	Configuration Subdeployments Targets Security Hotes	
-Deployments B-Services	Configuration Subdeployments Targets Security Notes This page displays subdeployments created for a IMS system module. A subdeployment topica, and connection factories) are grouped and targeted to a server resource (such Customize this table Subdeployments	
Deployments Services Services	This page displays subdeployments created for a JMS system module. A subdeployment topics, and connection factories) are grouped and targeted to a server resource (such Customize this table	
Deployments Services = XHS Servers	This page displays subdeployments created for a 2HS system module. A subdeployment topics, and connection factories) are grouped and targeted to a server resource (such Customize this table Subdeployments New Delete	as JMS servers, server instances, or duster).
DeploymentsServicesServers	This page displays subdeployments created for a 2HS system module. A subdeployment topics, and connection factories) are grouped and targeted to a server resource (such Customize this table Subdeployments New Delete	as JMS servers, server instances, or duster). Showing 1 to 1 of 1 Previous Next

4.3 Create Resources

This topic describes the steps to create resources for configuration of Weblogic JMS Server architecture.

This topic contains the following sub-topics:

- Create Queue
 This topic explains systematic instructions to create the Queue.
- Create Connection Factory
 This topic explains systematic instructions to create the Connection Factory.

4.3.1 Create Queue

This topic explains systematic instructions to create the Queue.

- 1. Under the **Domain Structure** left panel, navigate to the **Services** drop-down option.
- 2. Click Messaging, and then click JMS Modules.

The Settings for JMS_Module screen displays.



Figure 4-10 Settings for JMS_Module

Home Summary of Servers >Cluster-JMS >Summary of Servers >Summary of Clusters >Cluster-JMS >Summary of JMS Mod Modules Summary of JMS Modules	iles >Cluster-JMS >Summary of JMS Modules >Cluster-JMS >Summary of JMS
Summary of JMS Modules	
This page summarizes the JMS system modules that have been created for this domain.	
Customize this table	
JMS Modules (Filtered - More Columns Exist)	
New Delete	Showing 1 to 1 of 1 Previous Next
🖸 Name 🗞	Туре
New Delete	Showing 1 to 1 of 1 Previous Next
	This page summarizes the JMS system modules that have been created for this domain. Customize this table JMS Modules (Filtered - More Columns Exist) New Delete New Oblete New Oblete

3. Click the **Configuration** tab, and then click **New**.

The **Create a New JMS System Module Resources** screen displays to choose the type of resources.

Figure 4-11 Create a New JMS System Module Resources - Choose resources

ORACLE WebLogic Server Adm	inistration Console 12c	Q
Change Center	😰 Home Log Out Preferences 🔤 Record Help	Welcome, infra Connected to: FC146ZDT
View changes and restarts	Home >Summary of JMS Modules >JMS_Module >Summary of JMS Modules >FCUBSJMSModule >Summary of JMS Modules >FCUBSJMSModules >FCUBSJ	les >FCUBSJMSModule >Summary of JMS Modules >FCUBSJMSModule >Summary of JMS
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New JMS System Module Resource	
Lock & Edit	Back Next Finish Cancel	
Release Configuration	Choose the type of resource you want to create.	
Domain Structure	Use these pages to create resources in a JMS system module, such as queues, topics, templates, and connect	ion factories.
FC1462DT Domain Partitions Domain Partitions Deployments Services	Depending on the type of resource you select, you are prompted to enter basic information for creating the re factories, distributed queues and topics, foreign servers, and JMS SAF destinations, you can also proceed to ta targetable resources with subdeployments, which is an advanced mechanism for grouping JMS module resources	rgeting pages for selecting appropriate server targets. You can also associate
	○ Connection Factory	Defines a set of connection configuration parameters that are used to create connections for JMS clients. More Info
Store-and-Forward Agents JMS Modules Path Services BBridges	O Queue	Defines a point-to-point destination type, which are used for asynchronous peer communications. A message delivered to a queue is distributed to only one consumer. More Info
Data SourcesPersistent StoresForeign INDT Providers	○ Topic	Defines a publish/subscribe destination type, which are used for asynchronous peer communications. A message delivered to a topic is distributed to all topic consumers. More Info
How do I Configure quotas for destinations	Distributed Queue	Defines a set of queues that are distributed on multiple JMS servers, but which are accessible as a single, logical queue to JMS clients. More Info
Configure JMS templates Configure destination keys Configure topics	O Distributed Topic	Defines a set of topics that are distributed on multiple JMS servers, but which are accessible as a single, logical topic to JMS clients. More Info
Configure copics Configure queues	O Foreign Server	Defines foreign messaging providers or remote WebLogic Server instances

4. Select the **Distributed Queue**, and then click **Next**.

The **Create a New JMS System Module Resources** screen displays to enter the name of the resources.



Figure 4-12 Create a New JMS System Module Resources - JMS Distributed Destination Properties

DRACLE WebLogic Server Ad	ministration Console 12c		Ŏ
hange Center	A Home Log Out Pre	ierences 🔤 Record Help	Welcome, infra Connected to: FC146ZD
iew changes and restarts	Home >Summary of JMS Modules >FCUBSJMSMc		of JMS Modules >FCUBSJMSModule >Summary of JMS Modules >FCUBSJMSModule >Summary of JMS
pending changes exist. Click the Release nfiguration button to allow others to edit the	Create a New JMS Sys	em Module Resource	
main.	Back Next Finis	h Cancel	
Release Configuration	JMS Distributed Des	tination Properties	
1462DT	The following propertie * Indicates required field	is will be used to identify your new Distributed Queue. The current module is	s FCUBSJMSModule
Environment	What would you like to	name your new destination?	
Deployments Services -Messaging	* Name:	MDB_QUEUE	
JMS Servers Store-and-Forward Agents	What JNDI Name would	you like to use to look up your new destination?	
JMS Modules Path Services BBridges	JNDI Name:	MDB_QUEUE	
Data Sources	Queue members may b	e either created uniformly from a common configuration, or created and weig	phted individually to fine tune performance. How would you like to create queue members?
Persistent Stores Foreign INDI Providers	Destination Tunes		

5. Enter the Name as MDB_QUEUE, and Click Next.

The **Create a New JMS System Module Resources - Targets** screen displays to enter the name of the resources.

Figure 4-13 Create a New JMS System Module Resources - Targets

	Administration Console 12c	Ď
Change Center	A Home Log Out Preferences Record Help	Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home >DC_JMS_Template-0 >Summary of Servers >Summary of Migratable Targets >Summary of JMS Servers >JMSServer-1 >Summary of JMS S Targets >Summary of JMS Modules >JMS_MODULE	ervers >JMSServer-1 >Summary of Migratable
No pending changes exist. Click the Release Configuration button to allow others to edit the	Create a New JMS System Module Resource	
domain. Lock & Edit Release Configuration	Back Net Frish Advanced Targeting Cancel The following properties will be used to target your new JMS system module resource Cancel C	
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 pare accept the default targets, then cick Advanced Targeting to use the subdeployment mechanism for targeting this resource.	nt JMS system module targets. If you do not want to
⊡-Environment └Servers ⊡-Clusters └Server Templates	The following JMS module targets will be used as the default targets for your new JMS system module resource. If the module's targets are appropriately.	changed, this resource will also be retargeted
Migratable Targets Coherence Clusters Machines	Targets :	
Virtual Hosts Work Managers	Clusters	
Startup and Shutdown ClassesDeployments D-Services	Cluster JHS All servers in the cluster	
How do L	Back Next Finish Advanced Targeting Cancel	
Configure quotas for destinations		

6. Click the Advance Targeting tab.

The Targets tab opens in Create a New JMS System Module Resources - Advance Targeting screen.

ORACLE WebLogic Server A	ministration Console 12c	Q
Change Center	😰 Home Log Out Preferences 🔛 Record Help	Welcome, weblogic Connected to: FCU85Domain
View changes and restarts	Hone xOC_JHS_Template-0 xSummary of Servers xSummary of Highstable Targets xSummary of JHS Servers xJHSS Targets xSummary of JHS Modules xJHS_JH0008LE	Serven1 >Summary of JMS Servers >JMSServen1 >Summary of Migratable
No pending changes exist. Click the Release Configuration button to allow others to edit the Soman.	Create a New JHS System Hodule Resource	
Lock & Edit	Back Net Frish Canoe	
Release Configuration	The following properties will be used to target your new JHS system module resource	
Domain Structure	Use this page to select a subdeployment to assign this system module resource. A subdeployment is a mechanic SAP agent. If necessary, you can create a new subdeployment by clicking the Create a New Subdeployment module's subdeployment management page.	
Environment	mouse a successful transmission of page.	
Ousters Server Templates	Select the subdeployment you want to use. If you select (none), no targeting will occur.	
Mgratable Targets Coherence Ousters	Subdeployments:	
Machines Virtual Hosts Work Managers	What targets do you want to assign to this subdeployment?	
-Startup and Shutdown Classes -Deployments	Targets :	
Services +	Servers	
iow do L. 🖂	AdminServer	
Configure quotas for destinations		
Configure 3MS templates	Ousters	
Configure destination keys	The second	
Configure topics	Cluster-JHS All servers in the cluster	
Configure queues	The All servers in the cluster	

Figure 4-14 Create a New JMS System Module Resources - Advance Targeting

7. Select Subdeployement as JMS_SUB, and then click Finish.

The **MDB-QUEUE** is created. The **MDB-QUEUE** is reflected under Summary of Resources.

Figure 4-15	Settings for JMS	_Module - Message
-------------	------------------	-------------------

Change Center	🔒 Home Log Out Preferen	ices 📐 Record He	lp	Q		Welcome, in	fra Connected to: FC146Z
View changes and restarts	Home >MDB_QUEUE >JMS_M	odule >MDB_QUEUE >	Roles >MDB_QUEU	E >Roles >JMS_Module >Role	s >MDB_QUEUE > JMS_Module		
Click the Lock & Edit button to modify, add or delete items in this domain.	Settings for JMS_Module						
Lock & Edt Release Configuration	Configuration Subdeploy	yments Targets	Security Note	5			
Domain Structure	This page displays general	information about a	JMS system modu	le and its resources. It also	allows you to configure new res	ources and access existing resources.	
Environment Servers Ousters	Name:		JMS_M	dule	The na	me of this JMS system module. More Info)
Server Templates Migratable Targets Coherence Clusters Machines	Scope:		Global			es if the JMS system module is accessible v m, or a resource group template. More In	
Virtual Hosts Work Managers Startup and Shutdown Classes	Descriptor File Name:		jms/jms	_module-jms.xml	The na	me of the JMS module descriptor file. Mo	re Info
How do L	destination quota, distribut					inations, connection factories, JMS templat	es, destination sort keys,
No task help found.	Customize this table						
System Status	Summary of Resources (Filtered - More En	tries Exist)				
Health of Running Servers	New Delete					Showing :	L to 1 of 1 Previous Next
Failed (0) Critical (0) Overloaded (0)	🗆 Name 🗞	Туре			JNDI Name	Subdeployment	Targets
Warning (0)	MDB_QUEUE	Uniform Dis	tributed Queue		MDB_QUEUE	JMS_SUB	Cluster-JMS
OK (5)	New Delete					Showing 3	to 1 of 1 Previous Next

8. Similarly create the MDB_QUEUE_RESPONSE and MDB_QUEUE_DLQ.

The MDB_QUEUE_RESPONSE and MDB_QUEUE_DLQ displays under the Summary of **Resources** section.

ange Center	Home Log Qu	t Preferences 🔤	Record Help		Q		Welcome, weblogic	Connected to: FCUBSD
-								1
iew changes and restarts	Home >DC_JMS_T JMS Modules >JMS		/ of Servers >S	Summary of Mi	gratable Targets >Summary of JMS	Servers >JMSServer-1 >Summary of JMS S	ervers >JMSServer-1 >Summary of N	ligratable Targets >Summar
ick the Lock & Edit button to modify, add or elete items in this domain.	Messages	-	No restarts as	re nerecerv				
Lock & Edit		All changes have been activated. No restarts are necessary.						
Release Configuration	Settings for JMS	_MODULE						
	Configuration	Subdeployments	Targets S	Security No	otes			
main Structure								
-Environment	This page display	ys general informatic	on about a JM!	IS system mod	dule and its resources. It also allo	ws you to configure new resources and a	ccess existing resources.	
-Clusters -Server Templates	Name:			JM	IS_MODULE	The name of this	JMS system module. More Info	
Migratable Targets Coherence Clusters	Descriptor File	Name:		jm	s/jms_module-jms.xml	The name of the	JMS module descriptor file. More	Info
Coherence Clusters Machines Virtual Hosts Work Managers Work Managers	This page summa	arizes the JMS resou		e been create		duding queue and topic destinations, con		
Coherence ClustersMachinesVirtual HostsWork Managers	This page summa	arizes the JMS resou a, distributed destin		e been create	ed for this JMS system module, in	duding queue and topic destinations, con		
Coherence Clusters Watual Hosts Watual Hosts Work Managers Startup and Shutdown Classes Deployments Services	This page summa destination quot	arizes the JMS resou a, distributed destin i s table		e been create	ed for this JMS system module, in	duding queue and topic destinations, con		
Coherence Clusters Machines Writual Hosts Writual Hosts Writ	This page summa destination quot Customize this Summary of Re	arizes the JMS resou a, distributed destin is table esources	ations, foreigr	e been create n servers, and	ed for this JMS system module, in	duding queue and topic destinations, con		
-Coherence Clusters Machines Wath Hosts Work Managers Startup and Shutdown Classes Deployments -Services Startup and Shutdown Classes Deployments Services 	This page summa destination quot Customize this Summary of Re	arizes the JMS resou a, distributed destin is table esources # Editbutton in the C	ations, foreigr	e been create n servers, and	ed for this JMS system module, in d store-and-forward parameters.	duding queue and topic destinations, con	nection factories, JMS templates, d	
- Coleman Custers - Machines - Winch Machines - Winch Maragers - Startup and Shutdown Classes - Startup and Shutdown Clas	This page summa destination quot Customize this Summary of Ru Click the Lock &	arizes the JMS resou a, distributed destin is table esources # Editbutton in the C	ations, foreigr Change Center	e been create n servers, and	ed for this JMS system module, in d store-and-forward parameters.	duding queue and topic destinations, con	nection factories, JMS templates, d	estination sort keys,
- Coleman Custers - Whathnes - Whathnes - What Hosts - What Hosts - What Hosts - What Hosts - Startup and Shutdown Classes - Startup and Shutdown - Startup and Shutdown Classes - Startup and Shutdown - Star	This page summa destination quot Customize this Summary of Ru Click the Lock & New Delet	arizes the JMS resou a, distributed destin is table esources # <i>Edit</i> button in the C	ations, foreigr	re been create n servers, and r to activate a Type	ed for this JMS system module, in d store-and-forward parameters.	cluding queue and topic destinations, con	nection factories, JMS templates, d Showing	estination sort keys, 1 to 3 of 3 Previous Ni
Coherence Cutaters Watchines Work Managers Startup and Shutdown Classes Dedowments Services Vio task help found. Item Status Failed (0)	This page summi destination quot	arizes the JMS resou a, detributed destin is table esources # Edit button in the C ie JE	ations, foreigr	r to activate a	ed for this JMS system module, in d store-and-forward parameters. all the buttons on this page.	cluding queue and topic destinations, com	nection factories, JMS templates, d Showing Subdeployment	1 to 3 of 3 Previous N Targets
- Coleman Custers - Whathnes - Whathnes - What Hosts - What Hosts - What Hosts - What Hosts - Startup and Shutdown Classes - Startup and Shutdown - Startup and Shutdown Classes - Startup and Shutdown - Star	This page summi destination quot Customize this Summary of Ri Cick the Lock & New Delet New Delet New Object	arizes the JMS resou a, detributed destin is table esources # Edit button in the C ie JE	Change Center	r to activate a Type Uniform Distr	ed for this JMS system module, in d store-and-forward parameters. all the buttons on this page.	cluding queue and topic destinations, com JNDI Name MOB_QUEUE	showing Showing JMS_5UB	estination sort keys, 1 to 3 of 3 Previous N Targets Cluster-JMS

Figure 4-16 Settings for JMS_Module - Summary of Resources

4.3.2 Create Connection Factory

This topic explains systematic instructions to create the Connection Factory.

1. Under the **Domain Structure** left panel, navigate to the **Services** drop-down option, and click **Messaging** and then click **JMS Modules**.

The Settings for JMS_Module screen displays.

Figure 4-17 Settings for JMS_Module

hange Center 1	🏦 Home Log Ou	t Preferences 📐	Record Help	o	Q		Welcome, weblog	ic Connected to: FCUBSDor
	Home >DC_JMS_T		y of Servers >	Summary of M	ligratable Targets >Summary of	f JMS Servers >JMSServer-1 >Summary o	of JMS Servers >JMSServer-1 >Summary of	Migratable Targets >Summary
ick the Lock & Edit button to modify, add or Melete items in this domain.	lessages	ave been activated.	No costarto	200 00000000				
Lock & Edit			. No restarts	are necessary				
Release Configuration 5	ettings for JMS	_MODULE						
	Configuration	Subdeployments	Targets	Security N	lotes			
Server TemplatesMigratable TargetsCoherence ClustersCoherence ClustersCoherence Clusters	Descriptor File	Name:		jn	ns/jms_module-jms.xml	The nam	e of the JMS module descriptor file. Mo	re Info
Machines WirkJal Hosts Work Managers Startup and Shutdown Classes Deployments	This page summ destination quot	arizes the JMS reso ta, distributed destir					ns, connection factories, JMS templates,	destination sort keys,
Machines Wral Hosts Work Managers Vork Manager	This page summ	arizes the JMS reso ta, distributed destir is table			ted for this JMS system modu		ns, connection factories, JMS templates,	destination sort keys,
Machines "What Hosts "Work Managers Santa on dishutdown Classes Dedorment Bervices Brivices M do L. □	This page summ destination quot Customize thi Summary of R	arizes the JMS resor ta, distributed destir is table esources	nations, forei	gn servers, ar	ted for this JMS system modu	tters.	ns, connection factories, JMS templates,	destination sort keys,
- Nachnes - Virbual Hosts Virbual Hosts 	This page summ destination quot Customize thi Summary of R	arizes the JMS resor ta, distributed destir is table esources & Editbutton in the	nations, forei	gn servers, ar	ted for this JMS system modu nd store-and-forward parame	tters.		destination sort keys, g 1 to 3 of 3 Previous Nex
- Machines - Virbual Hosts Virbual Hosts -	This page summ destination quot Customize thi Summary of R Click the Lock 8	arizes the JMS reso ta, distributed destin is table esources & <i>Edit</i> button in the te	nations, forei	gn servers, ar	ted for this JMS system modu nd store-and-forward parame	tters.	Showin	
- Machines - Withul Hosts - Work Managers - Startup and Shutdown Classes - Jack Classes - Jack Classes - Metask help found. - No task help found. - Lem Status	This page summ destination quot Customize thi Summary of R Click the Lock & New Delet	arizes the JMS resor ta, distributed destr is table esources & <i>Edit</i> button in the t	nations, forei	gn servers, ar	all the buttons on this page.	JNDI Name	Showin Subdeployment	ig 1 to 3 of 3 Previous Ner Targets
- Machines - Virbual Hosts Virbual Hosts -	This page summ destination quot Customize thi Summary of R Click the Lock & New Delet Name & MOB_QUEU	arizes the JMS resor ta, distributed destr is table esources & Editbutton in the te	nations, forei	gn servers, ar ter to activate Type Uniform Dist	ied for this JMS system modul di store-and-forward parame all the buttons on this page.	JNDI Name MDB_QUEUE	Showin Subdeployment 345_54.8	g 1 to 3 of 3 Previous Ner Targets Cluster-JMS
-Machines Machines Minal Hosts Work Managers Work Managers Work Managers Work Managers Messanon do L. No task help found. 	This page summ destination quot Customize thi Summary of R Click the Lock & New Delet Name & MOB_QUE	arizes the JMS resor ta, distributed destr is table esources & Editbutton in the te	nations, forei	gn servers, ar er to activate Uniform Dist Uniform Dist	all the buttons on this page.	JNDI Name	Showin Subdeployment	ig 1 to 3 of 3 Previous Ner Targets

2. Click the **Configuration** tab, and then click **New**.

The **Create a New JMS System Module Resource** screen displays to choose the type of resource.



	ministration Console 12c	Q
Change Center	🔒 Home Log Out Preferences 🔛 Record Help	Welcome, infra Connected to: FC146ZDT
View changes and restarts	Home >MDB_QUEUE >Roles >JMS_Module >Roles >MDB_QUEUE >JMS_Module >MDB_QUEUE_DLQ >JMS_Module >Summary of JMS Modu	ules >JMS_Module
No pending changes exist. Click the Release	Create a New JMS System Module Resource	
Configuration button to allow others to edit the domain.	Back Next Finish Cancel	
Lock & Edit Release Configuration	Choose the type of resource you want to create.	
Domain Structure	Use these pages to create resources in a JMS system module, such as queues, topics, templates, and connection factories.	
	Depending on the type of resource you select, you are prompted to enter basic information for creating the resource. For target topics, foreign servers, and JMS 245 destinutions, you can also proceed to targeting pages for selecting appropriate server target mechanism for grouping JMS module resources and the members to server resources.	able resources, like stand-alone queues and topics, connection factories, distributed queues and ets. You can also associate targetable resources with subdeployments, which is an advanced
Store-and-Forward Agents	Connection Factory	Defines a set of connection configuration parameters that are used to create connections for JMS clients. More Info
Path Services ■ Bridges • Data Sources	○ Queue	Defines a point-to-point destination type, which are used for asynchronous peer communications. A message delivered to a queue is distributed to only one consume. More Info

Figure 4-18 Create a New JMS System Module Resources

3. Select the resource **Connection Factory**, and click **Next**.

The Create a New JMS System Module Resource screen displays.

Figure 4-19 Create a New JMS System Module Resources - Connection Factory Properties

ORACLE WebLogic Server Ad	ministration Console 12c			Q
Change Center	▲ Home Log Out Preferences	Record Help		Welcome, infra Connected to: FC146ZDT
View changes and restarts	Home >MDB_QUEUE >Roles >JMS_M	odule >Roles >MDB_QUEUE >JMS_Module >MDB	QUEUE_DLQ >JMS_Module >Summary of JMS Module	s >JMS_Module
No pending changes exist. Click the Release	Create a New JMS System Modul	le Resource		
Configuration button to allow others to edit the domain.	Back Next Finish Canc	el		
Lock & Edit	I I			
Release Configuration	Connection Factory Properties	5		
	The following properties will be us	sed to identify your new connection factory. Th	e current module is JMS_Module.	
Domain Structure	* Indicates required fields			
FC146ZDT				
Domain Partitions	What would you like to name your	new connection factory?		
-Environment				
Servers BClusters	* Name:	MDBQCF		
Coherence Clusters				
Resource Groups	What JNDI Name would you like to	use to look up your new connection factory?		
Resource Group Templates				
Machines	JNDI Name:	MDBQCF		
Virtual Hosts				

4. Specify the Name for connection factory, and then click Next.

The Create a New JMS System Module Resource - Targets screen displays.

Figure 4-20 Create a New JMS System Module Resources - Targets

	ministration Console 12c Q
Change Center	🏠 Home Log Out Preferences 🖾 Record Help 📃 🔍 Welcome, weblogic Connected to: FCUBSDomain
View changes and restarts	Home > DC_JMS_Template 0 > Summary of Servera > Summary of Migratable Targeta > Summary of JMS Servera > JMSServer 1 > Summary of JMS Servera > JMSServer 1 > Summary of JMS Servera > JMSServer 1 > Summary of JMS Nodules > JMS_MODULE
No pending changes exist. Click the Release Configuration button to allow others to edit the	Create a New JMS System Module Resource
domain.	Back Next Frish Advanced Targeting Cancel
Release Configuration	The following properties will be used to target your new JMS system module resource
Domain Structure	Use this page to view and accept the default targets where this JMS resource will be targeted. The default targets are based on the parent JMS system module targets. If you do not want to accept the default targets, then click Advanced Targeting to use the subdeployment mechanism for targeting this resource.
-Environment -Servers -Clusters -Server Templates	The following JMS module targets will be used as the default targets for your new JMS system module resource. If the module's targets are changed, this resource will also be retargeted appropriately.
Migratable Targets Coherence Clusters Machines	Targets :
Virtual Hosts Work Managers	Clusters
Startup and Shutdown ClassesDeploymentsService	Cluster JMS © All servers in the cluster
How do L	Back Net Finish Advanced Targeting Cancel
Configure quotas for destinations	

5. Click Advanced Targeting.



Change Center	🏠 Home Log Out Preferences 🖂 Record Help	Welcome, weblogic Connected to: FCUBSDoma
-	Home >DC_JMS_Template-0 >Summary of Servers >Summary of Migratable Targets >Summary of JMS Servers >JMSServer-1	
View changes and restarts	Targets >Summary of JMS Modules >JMS_MODULE	>Summary or JMS Servers >JMSServer-1 >Summary or Migratable
to pending changes exist. Click the Release Configuration button to allow others to edit the	Create a New JMS System Module Resource	
omain.		
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 v	
*	SAF agent. If necessary, you can create a new subdeployment by clicking the Create a New Subdeployment butt module's subdeployment management page.	on. You can also reconfigure subdeployment targets later by using the parent
-Environment		
B-Clusters	Select the subdeployment you want to use. If you select (none), no targeting will occur.	
Server Templates		
Migratable Targets	Subdeployments: JMS_SUB Create a New Subdeployment	
Machines	What targets do you want to assign to this subdeployment?	
Virtual Hosts Work Managers	what carge a so you want to assign to an addrep by mane:	
Startup and Shutdown Classes	Targets :	
Deployments		
-Services	Servers	
low do I 🗉	AdminServer	
Configure quotas for destinations		
Configure JMS templates	Clusters	
Configure destination keys	Cluster-JMS	
Configure topics	Output Output	
Configure queues Configure connection factories		
Configure connection factories Configure uniform distributed topics	JMS Servers	
Configure uniform distributed topics	IMSServer-1	
Configure foreign servers		
Configure JMS SAF	Dade Need Drieb Canad	
-	Back Next Finish Cancel	
ystem Status 🗉		

Figure 4-21 Create a New JMS System Module Resources - Advance Targeting

6. Select JMS_SUB as Subdeployments, and then click Finish.

The new **Connection Factory** is created, and displays under the **Summary of Resources** tab.

	- L	A	I				
Change Center		🟦 Home Log Out Preferences 🔛 Record Help 📃 🔍 Welcome, infra Connected to: FC146ZDT					
View changes and restarts		Home >Summary of JMS Modules >JMS	_Module >placeholder >J	IMS_Module >MDBQCF >JMS_Modul	e >MDBQCF >JMS_Module >placeholder > JM	IS_Module	
Configuration editing is enabled. Future		Settings for JMS_Module					
changes will automatically be activated as you modify, add or delete items in this domain.		Configuration Subdeployments Targets Security Notes					
	- 1	congulation	largeo occarity	10103			
Domain Structure	l i						
Environment Deployments		This page displays general informati	on about a JMS system	n module and its resources. It also	allows you to configure new resources a	nd access existing resources.	
E-Services		Name:		JMS_Module		The name of this JMS system module. More Info	
JMS Servers Store-and-Forward Agents JMS Modules		Scope: Global			Specifies if the JMS system module is accessible within the domain, a partition, or a resource group template. More Info		
-Path Services -Bridges Data Sources	L	Descriptor File Name:		jms/jms_module-jms.xml		The name of the JMS module descriptor file. More	Info
Varia SourcesPersistent StoresForeign JNDI ProvidersWork Contexts		This page summarizes the JMS reso destinations, foreign servers, and st			e, including queue and topic destinations,	connection factories, JMS templates, destination sort	keys, destination quota, distributed
How do I 🖂							
No task help found.	11	Customize this table					
		Summary of Resources (Filtered	- More Entries Exist	.)			
System Status 🗆		New Delete				2	Showing 1 to 1 of 1 Previous Next
Health of Running Servers		🗌 Name 🗟	Туре		JNDI Name	Subdeployment	Targets
Failed (0) Critical (0)		MDBQCF	Connection Factory		MDBQCF	JMS_SUB	Cluster-JMS
Overloaded (0)		New Delete					Showing 1 to 1 of 1 Previous Next
Warning (0)							anoming a colar of a life though the st
OK (1)							

Figure 4-22 Summary of Resources



5 Restart Server

This topic explains systematic instructions to restart the JMS servers.

- 1. Under the **Domain Structure** left panel, navigate to the **Environment** drop-down option.
- 2. Click Server.

The Summary of Servers screen displays.

Figure 5	-1 Sı	ummary	of	Servers
----------	-------	--------	----	---------

hange Center		Home Log Ou	ut Preferences 📐	Record Help	Q			Welcome, web	blogic Connected to: FCUBSDon			
iew changes and restarts		Home >Summary Clusters >Summa		>Summary of Clusters >Sum	mary of Servers »Summary	of Clusters >Summary of	of Servers >Summary of Cl	usters >Cluster-JMS >Summary	of Servers >Summary of			
lick the Lock & Edit button to modify, add or elete items in this domain.	Su	mmary of Ser	vers									
Lock & Edit	(onfiguration	Control									
Release Configuration				c Server that runs in its own	Sever Minton Mandalana (201	0						
omain Structure			Constraint Property -	that has been configured in			igurauon.					
-Environment	Î	(2										
-Clusters												
Server Templates		Customize t	his table				le Targets =					
Migratable Targets		Customize t										
		Servers (Filte	ered - More Colu									
Migratable Targets g Coherence Clusters Machines Virtual Hosts		Servers (Filte	ered - More Colu	nns Exist) e Change Center to activate	e all the buttons on this pa	ige.						
Migratable TargetsCoherence ClustersCoherence Clusters		Servers (Filte Click the <i>Lock</i>	ered - More Colu		e all the buttons on this pa	ige.		Sho	wing 1 to 7 of 7 Previous Next			
L-Migratable Targets Coherence Clusters Machines Wirtual Hosts Work Managers Startup and Shutdown Classes Deployments		Servers (Filte Click the Lock New Clo	ered - More Colu & Editbutton in th ne Delete	e Change Center to activate	e all the buttons on this pa	ige. Machine	State	Sho	wing 1 to 7 of 7 Previous Next			
Migratable Targets Goherence Clusters Machines Machines Winkual Hosts Work Managers Startup and Shutdown Classes Deployments Services		Servers (Filte Click the Lock New Clo	ered - More Colu & Editbutton in th ne Delete	e Change Center to activate				Health	Listen Port			
Migratable Targets Coherence Clusters Machines Warkines Warkines Work Managers Startup and Shutdown Classes Deployments Services Services Services		Servers (Filte Click the Lock New Clo Name 4 AdminSer	ered - More Colum & Editbutton in the Delete	e Change Center to activate Type Configured	Cluster		State RUNNING SHUTDOWN		-			
Coherence Clusters Modules Coherence Clusters Modules Modules Coherence Clusters Modules Modules Coherence Clusters Modules Coherence Clusters Coherence Clusters Coherence Clusters Module Coherence Clusters Module		Servers (Filte Click the Lock New Clo Name & AdminSer	ered - More Colu & Edit button in th Delete	e Change Center to activate		Machine	RUNNING	Health & OK	Listen Port 7001			
CMargartable Tangets Coherence Clusters Machines Work Managers Starbup and Studiown Classes Deployments Security Bealms wido I		Servers (Filte Click the Lock New Clo Name 4 AdminSer	ered - More Colur & Edit button in the Delete vver(admin) 35_1 35_2	e Change Center to activate Type Configured Dynamic	Cluster Cluster-App	Machine MAC-1	RUNNING	Health CK Not reachable	Listen Port 7001 7101			
L-Margetable Targets Coherence Clusters Machines Writub Hosts Work Managers Starkup and Shutdown Classes Deployments Sanchip Academic Sanchip Academic work Construct Academic Construct Construct Academic Construct		Servers (Filte Click the Lock New Clo New Clo AdminSer DC_FCUE DC_FCUE	ered - More Colui & Editbutton in the ne Delete ver(admin) 35_1 35_2 35_3	e Change Center to activate Type Configured Dynamic Dynamic	Cluster Cluster-App Cluster-App	Machine MAC-1 MAC-2	RUNNING SHUTDOWN SHUTDOWN	Health CK Not reachable Not reachable	Listen Port 7001 7101 7102			
L-Migratable Targets Coherence Outers Watual Hosts Watual Hosts Watual Hosts Watua I hosts Startup and Shutdown Classes Dealowments Services Const bases w do I Create Managed Servers Doleter Managed Servers Delete Managed Servers		Servers (Filte Click the Lock New Clo New Clo Name 4 AdminSer DC_FCUE DC_FCUE DC_FCUE	ered - More Colu & Editbutton in the ne Delete ver(admin) 35_1 35_2 35_3 35_4	e Change Center to activate Type Configured Dynamic Dynamic	Cluster - App Cluster - App Cluster - App Cluster - App	Machine MAC-1 MAC-2 MAC-1	RUNNING SHUTDOWN SHUTDOWN SHUTDOWN	Health Image: Work of the exchabile Not reachable Not reachable	Listen Port 7001 7101 7102 7103			
L-Migratable Targets Coherence Outers Watual Hosts Watual Hosts Watual Hosts Watual Hosts Startup and Shutdown Classes Dealowments Services Const bases w do I Create Managed Servers Doleter Managed Servers Delete Managed Servers		Servers (Filte Cick the Lock New Co New Co Adminser DC_FCUE DC_FCUE DC_FCUE	ered - More Coluit & Editbutton in th Delete ver(admin) 35_1 35_2 35_3 35_4 1	e Change Center to activate Type Configured 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 Not reachable	Listen Port 7001 7101 7102 7103 7104			
Holige table Targets Golders Golders		Servers (Filte Click the Lock New Co Name 4 AdminSer DC_FCUE DC_FCUE DC_FCUE DC_FCUE DC_FCUE DC_STUB	Area Anne Column Redit/button in the Delete No Number No No Num	e Change Center to activate Type Configured Dynamic Dynamic Dynamic	Cluster App Cluster App Cluster App Cluster App Cluster App Cluster App Cluster JMS	Machine MAC-1 MAC-2 MAC-1 MAC-2 MAC-1	RUNNING SHUTDOWN SHUTDOWN SHUTDOWN SHUTDOWN SHUTDOWN	Health CK Not reachable	Listen Port 7001 7101 7102 7103 7104 7106			

3. Increase the heap size of both **DC_JMS_1** and **DC_JMS_2** clusters.

The Summary of Server Templates screen displays.

Figure 5-2 Summary of Server Templates

Change Center							
View changes and restarts	🏠 Home Log Out Preferences 🔛 Record Help	٩			Welcome, infra Connected to: FC146ZD1		
No pending changes exist. Click the Release Configuration button to allow others to edit the		Hone >3HS, Noble >placeholder >3HS, Noble >Summary of Server Templates >Summary of Server >Summary of Server Templates >Summary of Server Templates >Summary of Server Templates >Summary of Server Templates >Summary of Server					
domain.	Summary of Server Templates						
Release Configuration	This page summarizes each server template that	has been configured in the current Web	ogic Server domain.				
Domain Structure FC146ZDT	A server template contains common, non-default manage configuration for a group of server insta		server instances, which ther	n inherit the template configuration.	Server templates enable you to easily		
-Domain Partitions -Environment -Servers	₽ Customize this table						
Clusters Server Templates	Server Templates						
	Click the Lock & Editbutton in the Change Center to activate all the buttons on this page.						
Resource Groups	New Clone Delete				Showing 1 to 2 of 2 Previous Next		
Machines Virtual Hosts	🗌 Name 🗞	Cluster	Machine	Listen Port	Listen Address		
Virtual Targets	DC_FCUBS_Template	Cluster-App		7100			
1 F" Work mananers	DC_JMS_Template-0	Cluster-JMS		7105			
	New Clone Delete				Showing 1 to 2 of 2 Previous Next		



4. Select the cluster **DC_JMS_Template-0**, and click the **Server Start** tab.

The Settings for DC_JMS_Template-0 screen displays.

Figure 5-3 Settings for DC_JMS_Template-0

Change Center	Home >placeholder >JMS_Module >Summary of Server Templates >Summary of Servers >Summary of Server Templates >Summary of Server Server Templates >Summary of Serve	nplates >Summary of Servers >Summary of Server Templates >DC_JMS_Template=0
View changes and restarts	Settings for DC_JMS_Template-0	
	Configuration Protocols Logging Debug Notes	
No pending changes exist. Click the Release Configuration button to allow others to edit the	General Cluster Services Keystores SSL Federation Services Deployment Migration Tuning Overload Concurrency Health M	tonitoring Server Start Web Services Coherence
domain.	Save	
Lock & Edit	Node Manager is a WebLogic Server utility that you can use to start, suspend, shut down, and restart servers in normal or unexpected conditions. Use th	
Release Configuration	nose Hanager is a treecogic server using that you can use to scart, suspend, shut opin, and restart servers in normal of unexpected corolutions, use the machine.	s page to comigure the startup settings that woole Manager will use to start this server on a remote
Domain Structure	Java Home:	The Java home directory (path on the machine running Node Manager) to use when starting this server. More Info
C146ZDT	Java Vendor:	The Java Vendor value to use when starting this server. More Info
➡-Environment	BEA Home:	The BEA home directory (path on the machine running Node Manager) to use when starting this server. More Info
	Root Directory:	The directory that this server uses as its root directory. This directory must be on the computer that hosts Node Managet. If you do not specify a Root Directory value, the domain directory is used by default. More Info
	Class Path:	The clampath (path on the machine running Node Manager) to use when starting this server. More lafe
	Arguments: - <u>Xt:HusPerrsSize</u> =512nj	The arguments to use when starting this server. Hore Joh

- 5. Specify the -XX:MaxPermSize=512m in the Arguments section.
- 6. Restart the AdminServer and **DC_JMS_1** and **DC_JMS_2** managed servers.

6 Foreign Server Creation

This topic contains the following sub-topics:

- Create JMS Module This topic explains systematic instructions to create the JMS Module.
- Create Foreign Server This topic provides systematic instructions to create the Foreign server.
- Configure Foreign Server This topic explains systematic instructions to configure the foreign server.

6.1 Create JMS Module

This topic explains systematic instructions to create the JMS Module.

1. Under the **Domain Structure** left panel, navigate to the **Services** drop-down option, and click **Messaging**, and then **JMS Modules**.

The Summary of JMS Module screen displays.

ORACLE WebLogic Server Adr	ninistration Console 12c	Q			
Change Center	🕜 Home Log Out Preferences 🔤 Record Help	Welcome, infra Connected to: FC146ZDT			
View changes and restarts	Home >Summary of Servers >Cluster-JMS >Summary of Servers >Summary of Clusters >Cluster-JMS >Summary of JMS Modules >Cluster-JMS >Summary of JMS Modules >Cluster-JMS >Summary of JMS Modules >Cluster-JMS >Summary of JMS				
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Summary of JMS Modules				
Lock & Edit Release Configuration	JMS system resources are configured and stored as modules similar to standard Java EE modules. Such resources includent that the standard standard standard standard standard standard (SAF) parameters. You can administ resources.				
Domain Structure	This page summarizes the JMS system modules that have been created for this domain.				
FC146ZDT Domain Partitions Environment	Customize this table				
Deployments Services	JMS Modules (Filtered - More Columns Exist)				
Messaging	New Delete	Showing 1 to 1 of 1 Previous Next			
JMS Servers Store-and-Forward Agents JMS Modules	Name 🗞	Туре			
Path Services	New Delete	Showing 1 to 1 of 1 Previous Next			
Data Sources					
Persistent Stores Foreion INDI Providers					

Figure 6-1 Summary of JMS Module

2. Click New in the JMS Module table.

The Create JMS System Module screen displays.



Figure 6-2	Create JMS	System	Module
------------	------------	--------	--------

Change Center	🏠 Home Log Out Preferences 🔛 Record Help	Q	Welcome, infra Connected to: FC146ZE
View changes and restarts	Home >Summary of Servers >Cluster-JMS >Summary of Servers Modules	S >Summary of Clusters >Cluster-JMS >Summary of	JMS Modules >Cluster-JMS >Summary of JMS Modules >Cluster-JMS >Summary of JMS
No pending changes exist. Click the Release Configuration button to allow others to edit the Jomain.	Create JMS System Module		
Lock & Edit	Back Next Finish Cancel		
Release Configuration	The following properties will be used to identify yo	ur new module.	
Jonnain Structure C142DDT Domain Partitions Environment Deployments Services Instructure Provides Provides		JMS store-and-forward (SAF) parameters. You	seources include queues, topics, connection factories, templates, destination keys, quota, can administratively configure and manage JMS system modules as global system
low do I 🖂	What would you like to name the descriptor file name? If ye	ou do not provide a name, a default will be assi	gned.
Configure JMS system modules	Descriptor File Name:		
Configure JMS servers			

3. Enter the Name as JMS_MODULE, and click Next.

The Create JMS System Module - Targets screen displays.

Figure 6-3	Create JMS S	ystem Module -	Targets
------------	--------------	----------------	---------

ORACLE WebLogic Server A	dministration Console 12c	õ
Change Center	A Home Log Out Preferences Record Help	Welcome, weblogic Connected to: FCU8SDomain
View changes and restarts	Home >Summary of Server Templates >DC_JHS_Template-0 >Summary of Servers >Summary of Higratable Targets >Summary of Higratable Targets >Summary of JHS Hodules	JMS Servers >JMSServer-1 >Summary of JMS Servers >JMSServer-1 >Summary of
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration	Create JHS System Hodule Back Med. The following properties will be used to target your new JHS system module.	
Domain Structure	Use this page to select the server or cluster on which you would like to deploy this JMS system module. You can reconfigure	e targets later if you wish.
B-Environment Servers Ousters Server Templates	Targets :	
	Servers AdminServer	
Work Managers Startup and Shutdown Classes	Clusters	
-Deployments S-Services	Chuster App All servers in the cluster	
How do L. 🛛	Cluster-JHS	
Configure 345 system modules Configure 345 servers	All servers in the cluster	

4. Select the target as **Cluster-JMS**, and then click **Next**.

The Create JMS System Module - Add resources to this JMS system module screen displays.



ORACLE WebLogic Server Ad	ninistration Console 12c	Q
Change Center	🏦 Home Log Out Preferences 🔤 Record Help	Welcome, infra Connected to: FC146ZDT
View changes and restarts	Home >Summary of Servers >Cluster-JMS >Summary of Servers >Summary of Clusters >Cluster-JMS >Summary of JMS Modules >C Modules	Cluster-JMS >Summary of JMS Modules >Cluster-JMS >Summary of JMS
No pending changes exist. Click the Release Configuration button to allow others to edit the	Create JMS System Module	
domain.	Back Nod Finish Cancel	
Release Configuration	Add resources to this JMS system module	
Domain Structure	Use this page to indicate whether you want to immediately add resources to this JMS system module after it is created. J	JMS resources include queues, topics, connection factories, and such.
FC1462DT Domain Partitions Erwironment	Would you like to add resources to this JMS system module?	
Deployments Services Messaging	Back Next Finish Cancel	
- Hologyng Esvers - Hologyng		

Figure 6-4 Create JMS System Module - Add resources

5. Select the check box, and click Finish.

The JMS_MODULE is created and successful message displays on the Settings for JMS_MODULE screen.

Figure 6-5 Settings for JMS_MODULE - Messages

<u>^</u>	_				
🖬 Home Log Ou	ut Preferences 🔤	Record Help	Q	Welcome, infra Connected to: FC146Z	
Home >Cluster-JM Modules >JMS_M		1odules >Cluster	-JMS >Summary of JMS Modules >JMS_Module >S	ummary of Services >Summary of JMS Modules >FCUBSJMSModule >Summary of JMS	
essages					
The JMS mod	dule was created suc	cessfully.			
-					
ettings for JMS_	_Module				
Configuration	Subdeployments	Targets Se	curity Notes		
This page displays general information about a JMS system module and its resources. It also allows you to configure new resources and access existing resources.					
Name:			JMS_Module	The name of this JMS system module. More Info	
Scope:			Global	Specifies if the JMS system module is accessible within the domain, a partition, or a resource group template. More Info	
Descriptor File	Name:		jms/jms_module-jms.xml	The name of the JMS module descriptor file. More Info	
This page summ	narizes the JMS reso	urces that have	been created for this IMS system module, inc	luding queue and topic destinations, connection factories, JMS templates, destination sort kevs,	

6.2 Create Foreign Server

This topic provides systematic instructions to create the Foreign server.

1. In the Summary of JMS Modules screen, click MDB_MODULE.

The Settings for MDB_MODULE - Configuration screen displays.



Configure JMS system modules Configure resources for JMS system mod							
How do I	E New	Delete			There are no items	to display	Showing 0 to 0 of 0 Previous Next
Foreign JNDI Providers		ame 🌣	Туре		JNDI Name	Subdeployment	Targets
Bridges Data Sources Persistent Stores		Delete					Showing 0 to 0 of 0 Previous Nex
MessagingJMS ServersStore-and-Forward AgentsJMS ModulesPath Services	destina Custo	This page summarizes the JMS resources that have been created for this JMS system module, including queue and topic destinations, connection factories, JMS templates, destination sort is destination outra, distributed destinations, foreign servers, and store-and-forward parameters.					factories, JMS templates, destination sort keys,
Deployments Services	Descrip	tor File Name:		j	ms/mdb_module-jms.xml	The name of the JMS modul	e descriptor file. More Info
Concurrent Templates Resource Management Startup and Shutdown Classes	Scope:			G	Slobal	Specifies if the JMS system partition, or a resource grou	module is accessible within the domain, a p template. More Info
Domain Structure	Name:			N	MDB_MODULE	The name of this JMS system	m module. More Info
hanges will automatically be activated as y nodify, add or delete items in this domain.		ge displays general inform	ation about a	IMS syster	m module and its resources. It also allows yo	u to configure new resources and access ex	isting resources.
Configuration editing is enabled. Future	Configu	ration Subdeployments	Targets	Security	Notes		
liew changes and restarts	Modules	MDB_MODULE	ry or aerver re	inplates >0	Contraction process and the second second	nary of 243 Produces Photo-Photocol. Paulinia	y or sing modules in the module in summary or sin
hange Center	Mana N	commune of Consers >Commu	nu of Conver Ter	andator >D	V IMC Tamplate 0 > Summany of Separate > Summ	many of IMC Modular SMDR, MODULE SSummar	y of JMS Modules >MDB_MODULE >Summary of JI

Figure 6-6 Settings for MDB_MODULE

2. Click New.

The Create a New JMS System Module Resource screen displays.

Figure 6-7 Create a New JMS System Module Resource

ORACLE WebLogic Server	Administration Console 12c	Q				
Change Center	🏠 Home Log Out Preferences 🔤 Record Help	Welcome, infra Connected to: FC146ZD				
View changes and restarts	Home >Summary of Servers >Summary of Server Templates >DC_JMS_Template-0 >Summar	y of Servers >Summary of JMS Modules >MDB_MODULE >Summary of JMS Modules >MDB_MODULE >Summary of JMS Modules >MDB_MODULE				
Pending changes exist. They must be activated to take effect.	Create a New JMS System Module Resource					
Activate Changes	Back Next Finish Cancel					
Undo All Changes	Choose the type of resource you want to create.					
Domain Structure	Use these pages to create resources in a JMS system module, such as queues, topics	, templates, and connection factories.				
PC14020T ▲ IP-Domin Pratitions IP-Environment IS-Servers IP-S		nation for creating the resource. For targetable resources, like stand-alone queues and topics, connection factories, distributed queues and agains for selecting appropriate server targets. You can also associate targetable resources with subdeployments, which is an advanced				
	O Connection Factory	Defines a set of connection configuration parameters that are used to create connections for JMS clients. More Info				
	O Queue	Defines a point-to-point destination type, which are used for asynchronous peer communications. A message delivered to a queue is distributed to only one communic. More Inflo				
	, О Торіс	Defines a publish/subscribe destination type, which are used for asynchronous peer communications. A message delivered to a topic is distributed to all topic communes. Note Info				
How do I E Configure quotas for destinations	O Distributed Queue	Defines a set of queues that are distributed on multiple JMS servers, but which are accessible as a single, logical queue to JMS clients. More Info				
Configure JMS templates Configure destination keys	O Distributed Topic	Defines a set of topics that are distributed on multiple JMS servers, but which are accessible as a single, logical topic to JMS clients. More Info				
Configure topics						
Configure queues	Foreign Server	Defines foreign messaging providers or remote WebLogic Server instances that are not part of the current domain. More Info				
Configure connection factories		part of the content collibility information				
Configure uniform distributed topics	○ Quota	Controls the allotment of system resources available to destinations. More Info				
Configure uniform distributed queues Configure foreign centers	-					

3. Select the Foreign Server resource, and click Next.

The Create a New JMS System Module Resource - Foreign Server Properties screen displays.



ORACLE' WebLogic Server Ad	Iministration Console 12c	Q
Change Center	🟦 Home Log Out Preferences 🔤 Record Help	Welcome, infra Connected to: FC146ZD
View changes and restarts	Home >Summary of Servers >Summary of Server Templates >DC_JMS_Template-0 >Summary of Servers >Summary of JMS Modules >MDB_MODULE >Summary of JMS	Modules >MDB_MODULE >Summary of JMS Modules >MDB_MODULE
Pending changes exist. They must be activated	Create a New JMS System Module Resource	
to take effect.	Back Next Finish Cancel	
Undo All Changes	Foreign Server Properties	
Domain Structure	The following properties will be used to identify your new foreign server. The current module is MDB_MODULE.	
FC146ZDT		
Domain Partitions	* Indicates required fields	
- EnvironmentServersClustersServer Templates	* Name: ForeignServer.1	
Migratable Targets Coherence Clusters Resource Groups	Back Next Finish Cancel	
Resource Group Templates Machines Virtual Hosts Virtual Targets		
Whyte Managerer		

Figure 6-8 Create a New JMS System Module Resource - Foreign Server Properties

4. Specify **Name** of the foreign server, and then click **Next**.

The Create a New JMS System Module Resource - Targets screen displays.

Figure 6-9 Create a New JMS System Module Resource - Targets

	dministration Console 12c Q
Change Center	🏠 Home Log Out Preferences 🗟 Record Help
View changes and restarts	Home >DC_JMS_Template-0 >Summary of Servers >Summary of Migratable Targets >Summary of JMS Servers >JMSServer-1 >Summary of JMS Servers >JMSServer-1 >Summary of Migratable Targets >Summary of JMS Modules >JMS_MODULE
No pending changes exist. Click the Release Configuration button to allow others to edit the	Create a New JMS System Module Resource
domain.	Back Not Frish 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 -Clusters -Server Templates	The following JMS module targets will be used as the default targets for your new JMS system module resource. If the module's targets are changed, this resource will also be retargeted appropriately.
Migratable Targets Coherence Clusters Machines	Targets :
Virtual Hosts Work Managers	Clusters
Startup and Shutdown ClassesDeploymentsServices	Cluster-JMS
How do I	Back Net Fnish Advanced Targeting Cancel
Configure quotas for destinations	

5. Click Advanced Targeting.

How do I...

The Create a New JMS System Module Resource - Advanced Targeting screen displays.

	Administration Console 12c	Ŏ					
Change Center	🏦 Home Log Out Preferences 🔤 Record Help	Welcome, infra Connected to: FC146ZDT					
View changes and restarts	Home >Summary of Servers >Servers >Ser	mmary of JMS Modules >MDB_MODULE					
Pending changes exist. They must be activated to take effect.	Create a New JMS System Module Resource						
Activate Changes	Activate Changes Indo All Changes Indo All Changes The following properties will be used to target your new JMS system module resource						
Undo All Changes							
Domain Structure FC1462DT	Use this page to select a subdeployment to assign this system module resource. A subdeployment is a mechanism by which JMS resources are grouped and targeted to a server insta 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 sub						
-Environment -Servers	Select the subdeployment you want to use. If you select (none), no targeting will occur.						
Clusters Server Templates	Subdeployments: (none) V Create a New Subdeployment						
Migratable Targets Coherence Clusters Resource Groups	What targets do you want to assign to this subdeployment?						
Resource Group Templates Machines	Targets :						
Virtual Hosts Virtual Targets Work Mananers	Back Next Finish Cancel						
How do I							

6. Click the **Create a New Subdeployment** button.

The Create a New Subdeployment screen displays.


Figure 6-11 Create a New Subdeployment

🏠 Home Log Out Preferences 🔤 Record Help	Q Welcome,	infra Connected to: FC146ZDT
Home >Summary of Servers >Summary of Server Templates >DC_JMS_Template-	-0 >Summary of Servers >Summary of JMS Modules >MDB_MODULE >Summary of JMS Modules >MDB_MODULE >Summary of JMS	Modules >MDB_MODULE
Create a New Subdeployment		
OK Cancel		
Subdeployment Properties		
The following properties will be used to identify your new subdeployment.		
Subdeployment Name:	MDB_SUB	
OK Cancel		

7. Specify the Subdeployment Name as MDB_SUB, and click OK.

The **Create a New JMS System Module Resource** screen displays to target **MDB_SUB** module.



	ministration Console 12c Q
Change Center	Home Log Out Preferences 🖉 Record Help Generation Connected to: FCUBSDomain
View changes and restarts	Home >DC_JNS_Template 0 >Summary of Server Templates >DC_JNS_Template 0 >Summary of Servers >Summary of JNS Modules >JMS_MODULE >Summary of JMS Modules >MDB_MODULE >Summary of JMS Modules >JMS_MODULE >SUMMARY of JMS_MODULE >SUMMARY of JMS Modules >JMS_MODULE >SUMMARY of JMS Modules >JMS_MODULE >SUMMARY of JMS_MODULE >SUMMARY OF JMS_MODUL
Pending changes exist. They must be activated to take effect.	Create a New JMS System Module Resource
Activate Changes Undo All Changes	Back Net Finish Cancel 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 3MS resources are grouped and targeted to a server instance, cluster, or SAF agent. If recessary, you can create a new subdeployment by clicking the Create a New Subdeployment button. You can also reconfigure subdeployment targets later by using the parent module's subdeployment management page.
Server TemplatesMigratable TargetsCoherence ClustersMachines	Select the subdeployment you want to use. If you select (none), no targeting will occur. Subdeployments: MDB_SUB Create a New Subdeployment.
Virtual HostsWork ManagersStartup and Shutdown ClassesDeployments D-Services Fi-Messarion	What targets do you want to assign to this subdeployment? Targets:
How do I	Servers
Configure quotas for destinations Configure JMS templates	AdminServer
Configure destination keys	Clusters
Configure topics Configure queues Configure connection factories	Cluster App All servers in the cluster
Configure uniform distributed topics	JMS Servers
Configure uniform distributed queues Configure foreign servers Configure JMS SAF	JHSServer-1
System Status	Back Net Frish Cancel

8. Select Targets as a Cluster-App, and then click Finish.

The foreign server is created.



View changes and restarts Configuration editing is enabled. Future dynamics with excitonation of the MS system models and its resources. It also allows you to configure new resources and access existing resources. Domain Structure Name: ND8_MODULE The name of the JNS system modele More Info Specifies of the MS system modele screes the MS system modele is resources. It also allows you to configure new resources and access existing resources. MD8_MODULE The name of the JNS system modele is accessible within the domain, a partial resource group template. More Info Specifies of the MS system modele descriptor file. Name: Inself resources that have been created for this MS system modele descriptor file. More Info More do L. Specifies of the INS modele descriptor file. More Info Work Managers The page summatices the INS resources that have been created for this MS system modele, including queue and topic destinations, connection factories, INS templates, destination out, sets, destination queue, and store and forward parameters. Provide Managers Startup and Shutdown Classes Opegionents Opegionents Provide II. No task help found. System Status Name of the INS resources that have been created for this INS system modele, including queue and topic destinations, connection factories, INS templates, destination out, foreign servers, and store and-forward parameters. Provide II. No task help found. Targets <t< th=""><th>Change Center</th><th>Settings for MDE</th><th>_MODULE</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	Change Center	Settings for MDE	_MODULE								
Configuration eding is enabled. Future damain. Image will want want a weight of a spectra want want a weight of a spectra want a weight o	View changes and restarts	Configuration	Subdenloymente	Tarnete Sen	rity Notes						
Image: NDB_MODULE The name of this JMS system module. More Info Image: Global Specifies if the JMS system module is accessible within the domain, a partial inspective accessible mithin the domain, a partial inspective. More Info Image: Global Specifies if the JMS system module is accessible within the domain, a partial inspective. More Info Image: <	changes will automatically be activated as you					and its resources. It also	allows you to configu	ire new resources ar	nd access existing resources.		
Be Environment Soper Global Specifies if the 2NS system module is accessible within the domain, a partial resource group template. More Info Bescriptor File Name: jms/mdb_module-jms.xml The name of the 3NS module descriptor file. More Info Machines Startup and Shutdown Classes Descriptor File Name: jms/mdb_module-jms.xml Descriptor File Name: jms/mdb_module-jms.xml The name of the 3NS module descriptor file. More Info Machines Startup and Shutdown Classes File Name: jms/mdb_module-jms.xml Descriptor File Name: jms/mdb_module-jms.xml The name of the 3NS module descriptor file. More Info Machines System status Castomize this table Startup and Shutdown Classes Descriptor File Name: Stowing 1 to 1 of 1 Proving Server Stowing 1 to 1 of 1 Proving Server Not task help found. Note Additional Classes Stowing 1 to 1 of 1 Proving Server System Status Note X Type JNDI Name Stokedployment Image: Foreign Server NA MDB_SUB Claster-App	Domain Structure										
Golal Specifies if the VPS system module is accessible within the domain, a partial resource group template. Golal Specifies if the VPS system module is accessible within the domain, a partial resource group template. Golar Specifies if the VPS system module is accessible within the domain, a partial resource group template. Golar Coherence Clusters Descriptor File Name: ins/mdb_module-jms.xml Machines ins/mdb_module-jms.xml The name of the JNS module descriptor file. Machines ins/mdb_module-jms.xml The name of the JNS module descriptor file. Machines ins/mdb_module-jms.xml The name of the JNS module descriptor file. Machines ins/mdb_module-jms.xml The name of the JNS module descriptor file. Machines ins/mdb_module-jms.xml The name of the JNS module descriptor file. Machines ins/mdb_module-jms.xml The name of the JNS module descriptor file. Machines Submary of Resources that have been created for this JNS system module, including queue and topic destinations, connection factories, JNS templates, destination out, eds. Services Summary of Resources Summary of Resources System Status Notask help found. Showing 1 to 1 of 1 Pm Meel Defene Stowing 1 to 1 of 1 Pm New Defene	-Environment	Name:			MD	B_MODULE			The name of this JMS system me	odule. More Info	
Descriptor File Name: jms/mdb_module_jms.ml The name of the JMS module descriptor file. More Info Modnines This page summarizes the JMS resources that have been created for this JMS system module, including queue and topic destinations, connection factories, JMS templates, destination out, and destinations, foreign servers, and store-and-forward parameters. Despinements Costering and Shutdown Classes Despinements Costering and Shutdown Cla	ClustersServer Templates	Scope:			Glo	bal					nin the domain, a partition
Image: Starbus and Shutdown Classes This page summarizes the JMS resources that have been created for this JMS system module, including queue and topic destinations, connection factories, JMS templates, destination sort keys, destination out keys, destination ou	Coherence Clusters	Descriptor File	Name:		jms	s/mdb_module-jms.xml			The name of the JMS module de	escriptor file. More	Info
How do L Summary of Resources No task help found. New Debte System Status Name A Type JNDI Name Health of Running Servers Foreign Server NA ND8,5UB Fraid (1) New Debte Stowing 1 to 101 Pro-											
Summary of Resources No task help found. New Detem System Status Health of Running Servers Failed (1) Summary of Resources Showing 1 to 1 of 1 Pro- Showing 1 to 1 of 1	Work Managers Startup and Shutdown Classes Deployments					this JMS system modul	e, including queue and	d topic destinations,	connection factories, JMS templat	tes, destination sort l	keys, destination quota, o
System Status Name 0 Type JNDI Name Subdeployment Targets Health of Running Servers Foreign Server NA NOB_SUB Cluster-App Failed (1) New Debte Showing 1to 101 Print Showing 1to 101 Print	Work Managers Startup and Shutdown Classes Deployments Services	destinations, fo	reign servers, and st			this JMS system modul	e, including queue and	l topic destinations,	connection factories, JMS templat	tes, destination sort l	keys, destination quota, o
Health of Running Servers Failed (1) Foreign Server 1 Foreign Server NVA MDB_SUB Uister App Showing 1to 1of 1 Pro	Work Managers Deployments Services Centers	destinations, fo	reign servers, and str s table			this JMS system modul	e, including queue and	l topic destinations,	connection factories, JMS templat	tes, destination sort i	keys, destination quota, o
Faled (1) New Delete Showing to 1 of 1 Pro-	Work Managers Startup and Shutdown Classes Deployments B-Services B-Messaninn How do I	destinations, for	reign servers, and sto s table esources			this JMS system modul	e, including queue an	l topic destinations,	connection factories, JMS templat		
	Work ManagersStartup and Shutdown Classes	destinations, for Customize thi Summary of R New Delete	reign servers, and sto s table esources	ore-and-forward	parameters.	this JMS system modul	1	I topic destinations,			howing 1 to 1 of 1 Prev
	Howk Managers Startup and Shutdown Classes Startup and Shutdown Classes Services Services Services Services No task help found. System Status	destinations, for	reign servers, and sto s table esources	ore-and-forward	ype	this JMS system modul	JNDI Name	I topic destinations,	Subdeployment		howing 1 to 1 of 1 Prev
	Work Managers Startup and Shutdown Classes Deployments B-Services B-Messanion Now do L	destinations, for	reign servers, and sto s table esources			this JMS system modul	e, including queue and	d topic destinations,	connection factories, JMS templat		
	Work ManagersWork ManagersStartup and Shutdown ClassesDeployments	destinations, fo Customize thi Summary of R New Delete New Delete ForeignSet	reign servers, and str s table esources	ore-and-forward	ype	this JMS system modul	JNDI Name	i topic destinations,	Subdeployment	S	howing 1 to 1 of 1 Pre Targets Cluster-App
Warning (0) OK (3)	Health of Running Servers System Status Field (1) Critical (0) Critical (0) Verfoaded (0) Warning (0)	destinations, fo Customize thi Summary of R New Delete New Delete ForeignSet	reign servers, and str s table esources	ore-and-forward	ype	this .MS system modul	JNDI Name	I topic destinations,	Subdeployment	S	howing 1 to 1 of 1 Prev Targets Cluster-App

Figure 6-13 Settings for MDB_Module - Message

6.3 Configure Foreign Server

This topic explains systematic instructions to configure the foreign server.

1. In the Settings for MDB_MODULE screen, click ForeignServer-1 in the Summary of Resources table.

Figure 6-14 Settings for MDB_Module - Message

Change Center	Settings for MDB_MODULE								
View changes and restarts	Configuration	Subdeployments	Targets Secur	tv Notes					
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.				,	ources. It also allows you to co	nfigure new resources a	nd access existing resources.		
Domain Structure									
-Environment	Name:			MDB_MODULI	E		The name of this JMS system module	e. More Info	
Servers Clusters Server Templates	Scope:			Global			Specifies if the JMS system module is resource group template. More Info		n the domain, a part
LMigratable Targets Coherence Clusters	Descriptor File	Name:		jms/mdb_mod	dule-jms.xml		The name of the JMS module descrip	tor file. More In	fo
Virtual Hosts Virtual Hosts Startup and Shutdown Classes Deployments -Services Messaninn		reign servers, and st			ystem module, including queu	e and topic destinations,	connection factories, JMS templates, d	lestination sort ke	ys, destination quo
Work Managers Startup and Shutdown Classes Deployments Services	destinations, fo	reign servers, and st is table			ystem module, including queu	e and topic destinations,	connection factories, JMS templates, d	lestination sort ke	ys, destination quo
Work Managers Startup and Shutdown Classes Deployments -Services FD-Messaninn	destinations, fo	reign servers, and st is table esources			ystem module, including queu	e and topic destinations,	connection factories, JMS templates, d		ys, destination quo
Work Managers Startup and Shutdown Classes Deployments Services 	destinations, for	reign servers, and st is table esources	ore-and-forward p		ystem module, including queu	e and topic destinations,	connection factories, JMS templates, d Subdeployment	Shi	
Work Managers Startup and Shutdown Classes Deployments Services Messanino 	destinations, for Customize thi Summary of R New Delete	reign servers, and st is table (esources	ore-and-forward p	vrameters.		e and topic destinations,	1	Sho	owing 1 to 1 of 1
Work Managers Startup and Shutdown Classes Deployments Services Messanino tow do L No task help found.	destinations, for	reign servers, and st is table esources a rver-1	ore-and-forward p	pe	JNDI Name	e and topic destinations,	Subdeployment	Sho	owing 1 to 1 of 1 Targets

The Settings for ForeignServer-1 screen displays.



Change Center	😰 Home Log Out Preferences 🔛 R	ecord Help	Q	Welcome, weblogic Connected to: FCUBSDomail		
View changes and restarts	Home >Summary of Queters >Summary Hodules >NDE_MODULE >FereignBerv		ry of Servers >Summary of JMS Modules >HO	8_MODULE > ForeignServer-1 > Summary of Servers > Summary of 2MS		
Click the Lock & Edit button to modify, add or delete items in this domain.	Messages					
Lock & Edt	All changes have been activated. N	to restarts are necessary.				
Release Configuration	Settings for ForeignServer-1					
	Configuration Subdeployment N	Notes				
Domain Structure	General Destrutors Correcto	n Factories				
Chvironment Servers	Old: the Lock & Editbutton in the O	ange Center to modify the	settings on this page.			
Custers Server Templates	fave					
- Mgratable Targets - Coherence Ousters - Machines - Writual Hosts			a WebLogic Server. It contains information (hibe defined on one JHDL directory. Use this	hat allows WebLogic Server to reach the remote 3KDI provider. This way, a number of page to configure a foreign server.		
-Work Managers Startup and Shutdown Classes Deployments	A Name:	ForeignGerver-1		The name of this foreign server. More Info		
B Services	, JMDI Initial Context Factory:	weblogic jndi.W	/UnitaK	The name of the class that must be instantiated to access the 2401 provider. This class name depends on the 2601 provider and the vendor that are being used. More 2+6		
How do L.	£			the are very user. Here pro-		
Oreate foreign connection factories Oreate foreign destinations	MDI Connection URL:	0//10.184.148.1	85:7106.10.184.148.189:7107	The URL that WebLogic Server will use to contact the XKC provider. The syntax of this URL depends on which XKC provider is being used. For WebLogic XHS, leave this field blank if you are referencing WebLogic XHS objects within the user cluster. More Veb.		
System Status 8	1			where are an and ready to a later		
	JNDI Properties Credential			Any Credentals that must be set for the JNDI provider. These Credentals		

Figure 6-15 Settings for ForeignServer-1

 Under the Configuration- General tab, specify the JNDI Connection URL as cluster URL (JMS Managed Servers), and then click Save.

The Cluster URL get saved.

3. In the Settings for ForeignServer-1 screen, click the Configuration and click Connection Factories tab.

The Settings for ForeignServer-1 - Connection Factories screen displays.

Figure 6-16 Settings for ForeignServer-1 - Connection Factories

Change Center	A Home Log Out Preferences	and the second se		Welcome, infra Connected to: FC1464
View changes and restarts	Home >Configuration >ForeignGerve	r-1 >Configuration >Fonegatierver-1 >HD8_HDDUUE >Fonegatierver-1 >	HDB_HDDULE > placeholder > PareignServer 1 > Deelliguration	
Pending changes exist. They must be activated to take effect.	Settings for ForeignServer-1 Configuration Subdeployment			
Activate Changes	Configuration Subospoyment	1 NOTES		
Undo All Changes	General Destinations Conne	ection Factories		
Densial Structure FC142DT → PC142DT → Provan Partbons Drawment PSevers PSever	in a different cluster or server, or This page summarities the foreig ir Customize this table Foreign Consection Factories	reserts a convector factory that resides on another server, and will a famory provide, as florg as the provider seguents ADU. In convection factories that have been created for this domain. (Filtered - Hore Columns Exist)	ch is accessible via 2001. A remote connection factory can be used to	
Resource Groups	New Delete			Showing 0 to 0 of 0 Previous Next.
-Resource Group Templates Machines	Name ris	Local JNDI Name	Remote JNDI Name	
Virtual Hosts		Th	ere are no items to display	
-Work Messoers	New Delete			Showing 0 to 0 of 0 Previous Next
How do I				
Configure foreign servers Create foreign destructions				

4. Click New.

The Create a New Foreign JMS Connection Factory screen displays.



DRACLE WebLogic Server Adr	ninistration Console 12c				0
Change Center	🙆 Home Log Out Preferences 🔙 Record	d Help	9		Welcome, infra Connected to: FC1462DT
View changes and restarts	Home >Configuration >Reneighborver-L >Config	guration >ForeignServer	1 H06,H000.E -Foregeberver 1 H08,H000.E	>placeholder >foreignServer-1 >Configuration	
Pending changes exist. They must be activated to take effect.	Create a New Foreign JMS Connection Fa	actory			
Activate Changes	OK Cancel				
Undo All Changes	Foreign Connection Factory Propertie				
Domain Structure	The following properties will be used to ide	entify your new foreign	n connection factory.		
C1462DT + Domain Partitions Triving	* Indicates required fields				
Servers B-Custers Server Templates	* Names	MDBQCF			
Migratable Targets Coherence Clusters	Local JNDI Name:	MDBQCF			
Resource Groups Resource Group Templates Machines	Remote JNDI Name:	MDBQCF			
- Virtual Hosts - Virtual Targets - Work Managers	OK Cancel				

Figure 6-17 Create a New Foreign JMS Connection Factory

5. Specify the fields Name, Local JNDI Name and Remote JNDI Name as a MDBQCF, and click OK to create the foreign connection factory.

The **MDBQCF** foreign connection factory is created, and displays in **Foreign Connection Factories** table.

Figure 6-18 Settings for ForeignServer-1 - Configuration Connection Factories

ORACLE WebLogic Server Ad	Iministration Console 12c			•
Change Center	A Home Log Out Preferences	Record Help		Welcome, Infra Connected to: FC14620
View changes and restarts	Home >Configuration >Foreigntlerv	ers>Configuration>Foregotiervers>MOB_MODULE>Foregotiervers>	MO0_MODULE >placeholder >forespecterver-1 >Configuration	
Pending changes exist. They must be activated	Settings for ForeignServer-1			
to take effect.	Configuration Subdeploymer	t Notes		
Undo All Changes	General Destinations Con	nection Pactories		
Incl-4207	returned from that directory.	usual can be found on a remote server. When the destination is to on destinations that have been created for this domain.	and up on the local server, a look-up will be performed automatically on	the remote AIDI directury, and the object will be
-Resource Groups	New Delete			Showing 1 to 1 of 1 Previous Next
 Resource Group Templates Machines 	🗆 Name 🖧	Local JNDE Name	Remote 3ND1 Name	
Virtual Hosts Virtual Taroets	MOROCO	MDBQCF	MDBQCF	
- Week Managers	[New] [Diffete]			Showing 1 to 1 of 1 Previous Next
How do L				
Configure foreign servers Create foreign connection factories	<u></u>			

6. Click **Destination** tab.

The Settings for ForeignServer-1 - Destination screen displays.

View changes and restarts		ULE >ForeignServer-1 >HOB_MODULE >ForeignServer-1 >Sur	mary of Servers >3HS Modules >HD8_MODULE >ForeignServer-1	>Configuration
Configuration editing is enabled. Future changes will automatically be activated as you	Settings for ForeignServer-1			
modify, add or delete items in this domain.	Configuration Subdeploym	ent Notes		
Domain Structure	General Destinations C	onnection Factories		
Or-Environment Services Gouters Gouters Goberonce Serves Coheronce Serves Coheronce Cutates Hackines Wirk Hanagers Startup and Shutdown Classes Deployments	directory, and the object will	queue) can be found on a remote server. When this dest or returned from that directory. eign destinations that have been created for this domain.	nation is looked up on the local server, a look-up will be perf	ormed automatically on the remote 2KDC Showing 0 to 0 of 0 Previous Next
B-Services	🔲 Name 🙃	Local JNDI Name	Remote JNDI Name	
How do L.		The	re are no items to display	
Configure foreign servers	New Delete			Showing 0 to 0 of 0 Previous Next
Create foreign connection factories				
System Status				
Health of Running Servers				

Figure 6-19 Settings for ForeignServer-1 - Destination



7. Click New to create the Queue.

The Create a New Foreign JMS Destination screen displays.

Figure 6-20 C	create a New Foreign JMS Destination - MDB_Queue	
ORACLE WebLogic Server	dminstration Console 12c	
Change Center	A Home Log Out Preferences 🖉 Record Help	Welcome, infr
View changes and restarts	Home +Canfiguration >Foregotianver-1 >Canfiguration >Foregotianver-1 >HOIL_MODULE >Foregotianver-1 >HOIL_MODULE >placeholder >Foregotianver-1 >Canfiguration	
Pending changes exist. They must be activated	Create a New Foreign IMS Destination	
to take effect.	and the second	

ORACLE WebLogic Server A	Iministration Console 12c		•
Change Center	A Home Log Out Preference	s 🚾 Record Help	Welcome, infra Connected to: FC146201
View changes and restarts	Home >Configuration >ForeignGe	rver 1 > Configuration > ForeignGerver 3 > MOB_MODULE > ForeignGerver 3 > MOB_MODULE > placeholder > ForeignGerver 3 > Configuration	
Pending changes exist. They must be activated to take effect.	Create a New Foreign JMS D	stinution	
Activate Changes	OK Cancel		
Undo All Changes	Foreign Destination Prope	rties	
Domain Structure	The following properties will b	e used to identify your new foreign destination.	
PCL462DT + ® Domain Partitions P Environment	* Indicates required fields		
B-Ousters Server Templates	* Name:	MD8_QUEUE	
Migratable Targets Coherence Clusters	Local 3NDI Names	MD8_QUEUE	

8. Specify the Queue Name, Local JNDI Name, Remote JNDI Name fields as MDB_QUEUE, and then click OK.

MD8_QUEUE

The **MDB_QUEUE** is created, and displays under the **Foreign Destinations** table.

Figure 6-21	Settings for ForeignServer-1 - Message
-------------	--

OK Cancel

Change Center	🏠 Home Log Out Preferences 🔛 Record Help	9	Welcome, infra	Connected to: FC14620
View changes and restarts	Home >Configuration >Foregriterver-1 >Configuration >Fo	reighServer-1 >MDB_MODALE >ForeighServer-1 >MDB_MODALE >placeholder >	foregetienver-1 >Configuration	
Pending changes exist. They must be activated	Settings for ForeignServer-1			
o take effect.	Configuration Subdeployment Notes			
Activate Changes Undo All Changes	General Destinations Connection Factories			
PC1462DT *	returned from that directory. This page summarizes the foreign destinations that h	ave been created for this domain.		
Servers Oupters Server Templates Migratable Targets Coherence Clusters	© Customize this table Foreign Destinations			
Outers Server Templates Migratable Targets			Showing 1 to 4	f of 4 Previous Next
Outers Server Templates Migratoble Tamplates Coherence Outers Resource Groups Resource Groups Resource Groups Machines	Foreign Destinations	Local JNDI Name	Showing 1 to 4 Remote 3HD1 Name	I of 4 Previous Next
Outers Sever Templates Movement Templates Coherence Clusters Resource Group Emplates	Foreign Destinations	Local JNDE Name		f of 4 Previous Next
Clusters Server Templates Magnitude Targets Coherence Clusters Resource Chartes Resource Chartes Machines Machines Withuil Hosts	Foreign Destinations New Destinations Name Name riv		Remote JNDI Name	t of 4. Previous Next
Outris Sever Templates Megatable Targets Megatable Targets Mediates Mediates Mediates Mediate Mediate Mediate Mediate Mediate Mediate Mediate Mediates Mediates Mediates Mediates Mediates Mediates Mediates	Foreign Destinations New Destinations Name A Money CP	H08Q07	Remote 3ND1 Name MD8QCF	t of 4. Previous Next
Cotarias Sever Tençütes Mugatalite Targota Coherence Catalena Resource Graupa Resource Graupa Mudrives Wind Robots Wind R	Foreign Destinations New Destinations Manse Ph Hongo? Mongoutz Hongo?	HDBQC7 HDB_QUEUE	Remote JND1 Name HD8Q/F HD8_QUEUE	t of 4 Previous Next
B-Custons Server Templates Magutable Targots Coherence Cautes Resource Graups Resource Graups Machines Machines 	Foreign Destinations Mose District Name #% Mosec #% Mose_CP Mose_CPULE Mose_CPULE Mose_CPULE_DLQ	MDBQCP MDB_Q4EUE MDB_Q4EUE_DEQ	Remote 3401 Name HODQCF HOD_QCRUE HOD_QCRUE HOD_QCRUE_DQ HOD_QCRUE_SESPONSE	t of 4. Previous Next

- Similarly create foreign destination properties for MDB_QUEUE_RESPONSE, and 9. MDB_QUEUE_DLQ
- **10.** After creating all the resources, Restart the Admin and Managed Servers.



7 Application Deployment

This topic explains systematic instructions to deploy an application.

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

Figure 7-1 Settings for GWMDB

hange Center	a second a second s	Preferences 🛃 Reco			Q						Connected to: base_dom
iew changes and restarts	Home >JMS Modules	>MDB_MODULE >Foreign	Server-1 >JMS N	lodules >Sum	mary of Dep	oloyments >	Summary of Ser	rvers >Su	immary of Deploy	ments >Summary of Servers >Summary of Dep	loyments >GWMDB
onfiguration editing is enabled. Future hanges will automatically be activated as you	Settings for GWMD	В									
odify, add or delete items in this domain.	Overview Deploy	ment Plan Configura	ion Security	Targets	Control	Testing	Monitoring	Notes	5		
- Environment - Servers - Clusters - Vitual Hosts - Migratable Targets	Target Assignme		er instances a	in clusters a	which you	i want to u	ploy this Ente	erprise aj	ppication. Thes	e settings determine where the application i Showing 1 to	1 of 1 Previous Next
Coherence Servers	Component	~			Туре					Current Targets	
	GWMDB				Enterpr	ise Applica	ion			Cluster-App	
Startup and Shutdown Classes	GW_MDB	Bean.jar			EJB					(None specified)	
- Deployments Services	Change Targets									Showing 1 to	1 of 1 Previous Next
w do I											

2. If JMS is configured properly, the **Health** column should show **OK** in the **Deployments** table, otherwise, the warning will be displayed.

Figure 7-2 Summary of Deployments

nange Center	E Ho	ime Log Out Pr	references 🔛 Record Help	Q			weicome,	, weblogic Connected to: base_do
iew changes and restarts	Home of De	>Summary of Env ployments	vironment >Summary of Servers	>Summary of Deployments >JMS Mo	dules >MDB_MODULE >Summa	ery of Environme	ent >Summary of Servers >Summar	ary of Deployments >GWMDB > Summary
nfiguration editing is enabled. Future anges will automatically be activated as you	Summa	ary of Deploym	nents					
dify, add or delete items in this domain.	Contr	ol Monitoring	0					
main Structure								
Deployments Services Homessaging Homessaging				nent to targets in this domain, click	the Install button.			
Store-and-Forward Agents JNS Modules Path Services 		tomize this tab oyments tallUpdate	Delete Start - Stop	×				Showing 1 to 5 cf 5 Previous Nex
JMS Modules Path Services Dath Sources Persistent Stores Foreign JNDI Providers	Depl	oyments		2	State	Health	Түре	Showing 1 to 5 of 5 Previous Nex Deployment Order
	Depl	oyments tall Update	Delete Start - Stop	2	State Active	Health V OK		
- 343 Modules - Path Services B Bridges - Data Sources - Perioten 3100 Providers - Work Contexts • do L	Depl	oyments Iall Update Name	Delete Start - Stop	2			Туре	Deployment Order
	Depl	oyments Iall Update Name \Leftrightarrow E FCUBSAp	Delete Start V Stop	2	Active	🗸 ок	Type Enterprise Application	Deployment Order
Holdes Holdes	Depl	oyments aall Update Name ↔ E C FCUBSAp E G GWEJB	Delete Start Stop	2	Active Active	 ✓ ок ✓ ок 	Type Enterprise Application Enterprise Application	Deployment Order 100 100
	Depl	oyments Iall Update Name ♠ I Control FCUBSAp I Control GWEDB I Control GWEDB	Delete Start Stop	2	Active Active Active	 ✓ ок ✓ ок 	Type Enterprise Application Enterprise Application Enterprise Application	Deployment Order 100 100



8 Frequently Asked Questions

This topic contains the following sub-topics:

- Application and JMS Cluster Deployed on Same Cluster This topic describes the process of deploying Application and JMS clusters on the same cluster.
- Application Shows Warning upon Restart of Managed Servers This topic describes the process for application managed services if shows warning.
- Secure File Store Data This topic provides the information about the secure file store data.
- t3s Protocol This topic provides information about the t3s protocol for configuring the JMS Server.
- Test the Deployment This topic explains systematic instructions to test the deployment.
- Increase maximum number of message-driven bean threads
 This topic provides the information about the message driven bean threads to increase counts.
- High Availability of Servers
 This topic describes the high availability of servers.
- Setup for Scheduler/Notifications
- Other Modules uses JMS Queue's

8.1 Application and JMS Cluster Deployed on Same Cluster

This topic describes the process of deploying Application and JMS clusters on the same cluster.

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

- 1. Foreign Server Creation is not required.
- 2. Targets should be given accordingly during the Sub-Deployment Creation.

8.2 Application Shows Warning upon Restart of Managed Servers

This topic describes the process for application managed services if shows warning.

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 Application Cluster managed servers.

Even after proper JMS setup when the managed servers are restarted and Health of the Application is showing Warning, perform the following steps:

Figure 8-1 Summary of Deployments

Coplayments Services Hessaging Hossaging		tomize this table loyments							
Store-and-Forward Agents	(and	all [Update] [Delete]						Showing 1 to 10	of 10 Previous Ne
3MS Modules Path Services		Name 🚔	State	Health	Туре	Targets	Scope	Domain Partitions	Deployment Orde
8-bridges Data Sources Persatent Stores	0	R TS CoreCustomerServiceService	Active	≠ ok	Enterprise Application	Severt	Global		500
Roveins WOI Providers	0	R To Customer Account Service	Active	≠ ok	Enterprise Application	Server1	Global		100
teer do L 💷	0	III TB CustomerService	Active	≠ ox	Enterprise Application	Server1	Global		100
Install an enterprise application Configure an enterprise application	0	ChtAdapter (1.0,1.0)	Active		Library	Server1	Global		100
Update (redeploy) an enterprise application	0	C3bdPixing (1.0,1.0)	Active		Library	Server1	Global		100
Monitor the modules of an enterprise application	0	a Divona	Active	Warning	Enterprise Application	Server1	Global		100
Deploy E38 modules Install a Web application	0	* CPONNE	Active	≠ ox	Enterprise Application	Server1	Global		900
iystem Status	0	8 TB Gw_RestD8	Active	≠ ox	Enterprise Application	Server1	Global		100
tealth of Running Servers as of 3:49 PM	0	Cjav-rs (2.0,2.22.4.0)	Active		Library	Server1	Global		500
Pailed (0)	0	* Theoremuter and	Active	≠ ox	Enterprise Application	Sever1	Global		500

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

8.3 Secure File Store Data

This topic provides the information about the secure file store data.

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

8.4 t3s Protocol

This topic provides information about the t3s protocol for configuring the JMS Server.

To secure the communication with the JMS Server use the 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 the server template, and the port number used in the URL should be a secure port.

8.5 Test the Deployment

This topic explains systematic instructions to test the deployment.

1. Under the **Domain Structure** left panel, navigate to the **Services** drop-down option, and click **Messaging** and then click **JMS Modules**.



The Summary of JMS Module screen displays.

Figure 8-2 Summary of JMS Module

Classical Carter Classical Carter These Salamany of Servers >Claster-MS >Summary of JMS Modules >Claster-MS >Summ											
Nome Statute Market	URACLE WebLogic Server Ad	ministration Console 12c									
Modules Modules Modules Summary of JMS Modules Constain Structure Modules CredeConfiguration Modules Domain Structure Modules CredeConfiguration Modules Domain Structure Modules CredeConfiguration Modules Domain Structure Modules CredeConfiguration Modules Modules Modules <td>Change Center</td> <td>🚹 Home Log Out Preferences 🔤 Record Help</td> <td>Welcome, infra Connected to: FC146</td>	Change Center	🚹 Home Log Out Preferences 🔤 Record Help	Welcome, infra Connected to: FC146								
Configuration Summary of JMS Modules Summary of JMS Modules Mile system resources are configured and stored as modules similar to standard. Such resources includes, such resources, includes, such reso	/iew changes and restarts										
Release Configuration Jet's system resources are complianded and stored as modules smiller to storaked above add resources include queues, stores, connection rectores, templetes, destination resys, or resources and the store add resources include queues, stores, add Jet's add resources and the store add resources include queues, stores, add Jet's add resources and the store add resources and the store add resources include queues, stores, add Jet's add resources and the store add resources include queues, stores, add Jet's add resources and the store add resources include queues, stores, add Jet's add resources and the store add resources and resou	Configuration button to allow others to edit the	Summary of JMS Modules									
LiteZDT Portnamet Performants		distributed queues, distributed topics, foreign servers, and JMS store-and-forward (SAF) parameters. You can adr									
Pomain Patilions Customize this table Performant Deployment D	omain Structure	This page summarizes the JMS system modules that have been created for this domain.									
Services JPS rodues (nite of Profe Columns CASI) Image: Messaging New Debte Image: Modules New Debte TMS Services New Debte TMS Services New Debte TMS Services Showing 1 to 1 of 1 Previces Image: Messaging New Debte TMS Services Showing 1 to 1 of 1 Previces Image: Messaging Showing 1 to 1 of 1 Previces	Domain Partitions	Customize this table									
Hessaging New Delete Showing 1 to 1 of 1 Previous MS Serves Store and Forward Agents New New Delete Type MS Modules New Delete Showing 1 to 1 of 1 Previous Peth Services New Delete Showing 1 to 1 of 1 Previous		JMS Modules (Filtered - More Columns Exist)									
- Store and Forward Agents - MSM Modules - Path Services - Brank services - Bran	E-Messaging	New Delete	Showing 1 to 1 of 1 Previous Next								
Path Services Showing 1 to 1 of 1 Previous Showing 1 to 1 of 1 Previous	Store-and-Forward Agents	□ Name ↔	Туре								
	Path Services	New Delete	Showing 1 to 1 of 1 Previous Next								
President Stores remember Stores remember Stores											

2. Navigate into JMS_MODULE and clickMDB_QUEUE.

The Settings for MDB_QUEUE screen displays.

3. Click the **MONITORING** tab.

The Settings for MDB_QUEUE screen displays with Destinations table.

Figure 8-3 Settings for MDB_QUEUE - Monitoring tab

-										
Configuration editing is enabled. Future hanges will automatically be activated as you	Settings for MDB_QUEUE									
nodify, add or delete items in this domain.	Configuration	Security	Monitoring	Subdeployment	Notes					
omain Structure	1							elow to manage the messages on that		
"Environment "Servers "Outstens "Virtual Hosts "Migratable Targets "Coherence Servers "Coherence Clusters	Customize t	his table (Filtered	stributed queue's		ment page, sele	ct the check box next to its name, and	I then click the Show Messages butt			
Machines	Show Messa	ages						Showing 1 to 2 of 2 Previous Ne		
	Show Messa	-				Consumers Current	Consumers High	Consumers Total		
Machines Work Managers Startup and Shutdown Classes Deployments Services	Name «	~	erver-1@MDB_(QUEUE		Consumers Current	Consumers High			
Machines Work Managers Startup and Shutdown Classes	Name (JMS_MC JMS_MC		erver-1@MDB_(erver-2@MDB_(Consumers Total		

4. Select any one server, and click **Show Messages**.

The Summary of JMS Messages screen displays.

Figure 8-4 Summary of JMS Messages

Configuration editing is enabled. Future changes will automatically be activated as you	Summary of JMS Mess	ages				
modify, add or delete items in this domain.	This page summarizer selected messages, m messages from a dest Click on a message to	iove messages to ar ination.	ages for a stand-alone queue, a c nother destination, export messag	istributed queue, or a topic of e contents in XML format to .	furable subscriber. Use this page I another file, import XML formatted	to view message details, create new messages, delete message contents from another file, or drain all the
Serves Cluster Virtual Hosts Knyrabbe Targets Coherence Servers Coherence Clusters Work Managers Work Managers Startup and Shutdown Classes Dedownets	Message Selector:		une Fxict)		Apply	
Deputyments D-Services		Move ~ Import				Showing 1 to 0 of 0 Previous Next
How do I	🔲 ID 🗞	CorrId	Time Stamp	State String	JMS Delivery Mode	Message Size
 Manage queue messages 				There are no items	to display	
Manage distributed queue messages Manage topic durable subscribers	New Delete v	Move ~ Import	Export V			Showing 1 to 0 of 0 Previous Next
System Status	<u>ا</u>					



5. Click New.

The Produce JMS Message screen displays.

Change Center			recome, rebuye connected to base_domain
View changes and restarts	Home >Configuration >MDBQCF >JMS I	Nodules >JMS_MODULE >MDB_QUEUE >Summary of JMS Messages >JMS Modules	>JMS_MODULE >MDB_QUEUE >Summary of JMS Messages
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Produce JMS Message OK Cancel		
Domain Structure	JM5 Message		
-Environment -Servers	The following properties will be used	i to produce a JMS message.	
Clusters Virtual Hosts	Type:		
Migratable Targets Coherence Servers Coherence Clusters	Correlation ID:		
Machines Work Managers	Expiration:		
	Priority:	4 🔻	
-Messaning -	Delivery Mode:	Persistent •	
How do I E Manage queue messages	Delivery Time:	-1	
 Manage distributed queue messages Manage topic durable subscribers 	Redelivery Limit:	-1	
System Status	Body:		
Health of Running Servers			
Failed (0) Critical (0) Overloaded (0)		A	

Figure 8-5 Produce JMS Message

6. Specify the message in the field of **Body**, and click **OK**.

The message is sent, and displays under the **JMS Messages** table.

Figure 8-6 Summary of JMS Messages

change center						1
View changes and restarts	Home >Configuration >MDBQCF >JMS Modules >	IMS_MODULE >MDB	_QUEUE >Summary of JMS Messages >JMS	Modules >JM5_MODULE >MDB_QU	JEUE >Summary of JMS Messag	es
Configuration editing is enabled. Future	Messages					
changes will automatically be activated as you modify, add or delete items in this domain.						
	Summary of JMS Messages					
Domain Structure						
Environment Servers Clusters Virtual Hosts Virtual Hosts	This page summarizes the available message selected messages, move messages to anoth messages from a destination. Click on a message to view its contents.					
Coherence Servers Coherence Clusters Machines Work Managers Work Managers Deployments Deployments Der Mescaninn	Message Selector:	5.14)		Apply		
How do I						-
Manage gueue messages	New Delete v Move v Import	=xport ~			Showin	g 1 to 1 of 1 Previous Next
Manage distributed queue messages	🔲 ID 🐟	CorrId	Time Stamp	State String	JMS Delivery Mode	Message Size
 Manage topic durable subscribers 	D:<257876.1411126889162.0>		Fri Sep 19 17:11:29 IST 2014	receive transaction	Persistent	472
System Status	New Delete v Move v Import	Export 🗸			Showin	g 1 to 1 of 1 Previous Next
Health of Running Servers						
Failed (0) Critical (0)						

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

8.6 Increase maximum number of message-driven bean threads

This topic provides the information about the message driven bean threads to increase counts.

The 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 a custom work manager -



- 1. Modify the MDB deployment descriptor, and redeploy the EAR
- Create a Custom Work manager, and add constraints to limit the number of the max MDB threads

This topic contains the following sub-topics:

- Modify weblogic-ejb-jar.xml This topic explains systematic instructions to modify the weblogic-ejb-jar.xml.
- Create Work Manager
 This topic explains systematic instructions to create the work manager.

8.6.1 Modify weblogic-ejb-jar.xml

This topic explains systematic instructions to modify the weblogic-ejb-jar.xml.

 Add <dispatch-policy>GWMDBWM</dispatch-policy> line to the weblogic-ejb-jar.xml of the MDB EAR.

xml version="1.0" encoding="UTF-8"?	
<pre><weblogic-eib-iar< pre=""></weblogic-eib-iar<></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-eib-iar http://xmlns.oracle
<pre><weblogic-enterprise-bean></weblogic-enterprise-bean></pre>	
<ejb-name>GWMDB</ejb-name>	
<pre><!-- EJB Reference Descriptions STARTS--></pre>	
EJB Resource Reference Descriptions STARTS</p	>
<resource-description></resource-description>	
<res-ref-name>FLEXTEST. 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>	
<pre><jndi-name>MDBQCF</jndi-name></pre>	
EJB Resource Reference Descriptions ENDS	
EJB Resource environment Reference Descripti</p	ons STARTS>
<resource-env-description></resource-env-description>	
<resource-env-ref-name>MDB_QUEUE_RESPONSE<td>source-env-ref-name></td></resource-env-ref-name>	source-env-ref-name>
<pre><jndi-name>MDB_QUEUE_RESPONSE</jndi-name></pre>	
<resource-env-description></resource-env-description>	
<resource-env-ref-name>MDB_QUEUE_DLQ<td>e-env-ref-name></td></resource-env-ref-name>	e-env-ref-name>
<pre><jndi-name>MDB_QUEUE_DLQ<!-- jndi-name--></jndi-name></pre>	
<pre></pre>	
<resource-env-description></resource-env-description>	
<resource-env-ref-name>SW_MDB_QUEUE_RESPONSE<</resource-env-ref-name>	/resource-env-ref-name>
<pre><jndi-name>SW_MDB_QUEUE_RESPONSE<!-- jndi-name--></jndi-name></pre>	
<pre></pre>	
EJB Resource environment Reference Descripti</p	ons ENDS>
<pre><dispatch-policy>GWMDBWM</dispatch-policy></pre>	
(weblogic-enterprise-hean)	

Figure 8-7 weblogic-ejb-jar.xml

- 2. Remove if any of the below tags are present in weblogic-ejb-jar.xml.
 - max-beans-in-free-pool
 - initial-beans-in-free-pool
- 3. Save the EAR file, and redeploy the EAR file.

8.6.2 Create Work Manager

This topic explains systematic instructions to create the work manager.

Create a new work manager with the name GWMDBWM (as mentioned in the property file) by below steps -

 Log in to the WebLogic console, and navigate to the Domain Structure, click Environment and then click Work Managers.

The Create a New Work Manager Component screen displays.



ORACLE WebLogic Server Ad	inistration Console 12c	0
Change Center	1 Home Log Out Preferences 🖾 Record Help	Welcome, infra Connected to: FC1462D
View changes and restarts	None >Foregrdenver1 >HO8_HOOULE >Foregrdenver1 >HO8_HOOULE >placeholder >Foregrdenver1 >Configuration >Summ	ary of Deployments - Summary of Servers - Summary of Work Managers
No pending changes exist. Click the Release	Create a New Work Manager Component	
Configuration button to allow others to edit the domain.	Back Next (Fresh) Cancel	
Lock & Edit	Select Work Manager Definition Type	
Release Configuration	What type of Work Manager, Request Class or Constraint do you want to create?	
Domain Structure		
-Coherence Clusters	Work Manager	
-Resource Groups -Resource Group Templates	Response Time Request Class	
- Machines - Virtual Hosts	O Fair Share Request Class	
Virtual Targets Work Managers Concurrent Templates	O Context Request Class	
Resource Management Startup and Shutdown Classes	Maximum Threads Constraint	
Depkyments	O Minimum Threads Constraint	
Security Realms		
Security Realms	Capacity Constraint	
How do I	Back Next Finish Cancel	

Figure 8-8 Create a New Work Manager Component

2. Select Work Manager, and then click Next.

The Work Manager Properties screen displays.

Figure 8-9 Work Manager Properties

ORACLE WebLogic Server Ad	ministration Console 12c			Q.
Change Center	A Home Log Out Prefere	ces 🚾 Record Help		Welcome, infra Connected to: FC1462D1
View changes and restarts	Home >ForeignServer-1 >M0	_HODULE >Foregränver-1 >HOB_HODULE >placeholder >Fore	eignServer-1 >Configuration >Summary of Deployments >Summary of Serv	ers >Summary of Work Hanagers
No pending changes exist. Click the Release	Create a New Work Mana	er Component		
Configuration button to allow others to edit the domain.	Dack Next Fresh	Cancel		
Lock & Edit				
Release Configuration	Work Manager Propert			
Domain Structure PC1462DT *	The following properties v * Indicates required fields	II be used to identify your new Work Manager.		
Opmain Partitions Definitions	What would you like to nan	e your new Work Manager?		
B-Outers	* Name:	GWMDBWM		
- Migratable Targets Coherence Clusters	Scopes	Global 🛩		
Resource Groups - Resource Groups Templates - MacNives - Virtual Hosts - Virtual Targets Work Minocoms	Back (Mest) (Frink)	Cancel		

3. Specify the field **Name** as **GWMDBWM** that is mentioned in the property file, and then click **Next**.

The Select deployment targets screen displays.

ORACLE WebLogic Server Ad	ministration Console 12c		0
Change Center	😰 Home Log Out Preferences 🚂 Record Help	Q	Welcome, infra Connected to: FC1462D
View changes and restarts	Home >Foregetierver-1 >MD0_MODULE >Foregetierver-1 >MD0_M	4000.03 >placeholder >foreignberver-1 >Configuration >Summ	ary of Deployments. >Summary of Servers. >Summary of Work Managers.
Consignation Configuration Configuration Lock & Edit Release Configuration Configuration Configuration Configuration Configuration Constant Structure Configuration Constant Structure Constant Constant Structure Const	Create a New Work Hanager Component Back, 1960; 1960; 1960; 1960; 1960; Select deployment targets You can target be Work Manager to any of Pese WebLope S Available targets : Servers AdvalueServer	Server instances or clusters. Select the same targets on wh	ch you will deploy applications that reference the Work Manager.
Coherence Clusters	Servert		
- Amoune Group Templates - Machines - Wand Hotos - White Bargets - Work Measures How do L., B	Clusters Cluster App All servers in the cluster Part of the cluster Cluster App Cluster App		
Create application-scoped constraints Create application scoped request classes Create application-scoped Work Managers Orate constraints Create request classes Create global Work Managers	Custer-3MS All servers in the cluster Part of the cluster Cluster-3MS Black, Note: Length Cancel		

Figure 8-10 Select deployment targets



4. Select Cluster-App in available targets, and click Finish.

The Summary of Work Managers screen displays.

Change Center	Home Log Out Preferences 🔤 Rec	cord Help		Welcome, weblogic Conn	ected to: FC
View changes and restarts	Home >Summary of Work Managers >MaxTh Environment >Summary of Servers >Summary	hreadsConstraint-0 >Summary of Work Managers >WorkMa ary of Work Managers	anager-0 >Summary of Work Managers >MaxTh	'hreadsConstraint-0 >Summary of Servers >Su	mmary of
Pending changes exist. They must be activated to take effect.	Messages S Work Manager created successfully				
Undo All Changes	Summary of Work Managers				
	A Work Manager defines a set of request classes and thread constraints that manage work performed by WebLogic Server instances. This page displays the g 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, Reguest Classes and Constraints				
FCUBSDomain Di-Envronment Servers Di-Clusters 	and thread constraints defined for this of Global Work Managers are defined at th Customize this table	domain. he domain level. You can also define application-level		his page displays the global Work Manager	s, request cla
FCUBSDomain Di-Forivonment I-Servers Bi-Clusters Coherence Clusters Machines Wirtual Hosts Wirtual Hosts Wark Janagers Startup and Shutdown Classes	and thread constraints defined for this of Global Work Managers are defined at th Customize this table	domain. he domain level. You can also define application-level		his page displays the global Work Manager Showing 1 to 1	
PCUBSDomain Defendment Servers Defendment Defendment Coherene Clusters Nothines Virtual Hots Work Managers Deployments Defendments Defendments Defendmens	and thread constraints defined for this of Global Work Managers are defined at th Customize this table Global Work Managers, Reguest Cla	domain. he domain level. You can also define application-level			
Environment Environment Environment Clusters Clusters Workuters Withual Hosts Work Managers Startup and Slutdown Classes	and thread constraints defined for this Global Work Managers are defined at th Customize this table Global Work Managers, Request Cla New: Clone Delete	domain. he domain level. You can also define application-level asses and Constraints		Showing 1 to 1	

Figure 8-11 Summary of Work Managers

 Click New in the Global Work Managers, Request Classes and Constraints table. The Create a New Work Manager Component screen displays.



Thange Center	😰 Home Log Out Preferences 🚾 Record Help	Welcome, infra Convected to: FC1462
New changes and restarts	Home >Foregotever1 >MDB_MDDDL1 >Foregotever1 >MDB_MDDDL2 >placebolder >Foregotever1 >Configuration >Summary of Diglop	matts >Summary of Servers >Summary of Work Managers
Pending changes exist. They must be activated to take effect.	Create a New Work Manager Component	
Activate Changes	Back Next Fresh Carcel	
Undo All Changes	Select Work Manager Definition Type	
Domain Structure	What type of Work Manager, Request Class or Constraint do you want to create?	
C1462DT A	O Work Manager	
B-Environment Servers	O Response Time Request Class	
Ousters Server Templates	○ Fair Share Request Class	
	Context Request Class	
	Maximum Threads Constraint	
	O Minimum Threads Constraint	
- Hitch Macazarea	Capacity Constraint	
tow do I 🗄	(Back) [Ned] [Finith] [Cancel	

6. Select Maximum Threads Constraints, and then click Next.

The Maximum Threads Constraints Properties screen displays.

Figure 8-13	Maximum	Threads	Constraints	Properties
-------------	---------	---------	-------------	------------

ORACLE WebLogic Server Ad	ministration Console 12c		Q
Change Center	🙆 Home Log Out Preferences 🔙 F	lecord Help	Welcome, infra Connected to: FC146201
View changes and restarts	Home >ForeignServer-1 >MD8_MODULE	ForegitServer-1 >MOB_MODULE >placeholder >ForegitServer-1 >Configuration >Sommary of Deployments >Sum	nary of Servers >Summary of Work Managers
Pending changes exist. They must be activated to take effect.	Create a New Work Manager Compo	nent	
Activate Changes	Back Next Frenh Cancel		
Undo-All Changes	Maximum Threads Constraint Pro	perties	
Domain Structure	The following properties will be used * Indicates required fields	to identify your new Havimum Threads Constraint.	
Process Terrors Process Proce	What would you like to name the new * Name: Scope: What is the maximum number of conc Counts	NaxThreadsConstraint-0 Global arret threads to allocate for requests? Enter other a fixed thread count or the name of a data source who 24	se size will be used for the constraint.
How do L.,	Data Source:		
Create application-acoped constraints Create application-acoped request classes Create application-acoped Work Managers	[Back] [Next] [Firish] [[Gacot]		



Next

7. Specify the desired thread count in the **Count** field, and then click **Next**.

The Select deployment targets screen displays.

ORACLE WebLogic Server A	ministration Console 12c	0
Change Center	😰 Hame Log Out Preferences 🐼 Record Help	Welcome, Infra Connected to: FC1462D
View changes and restarts	Huma >foregrdener1>M08_M00ULE>foregrdener1>M08_M00ULE>placeholder>foregrdener1>6a	ofguration > Summary of Deployments > Summary of Servers > Summary of Work Managers
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit	Create a New Work Manager Component	
Release Configuration	Select deployment targets You can target the Work Manager to any of these WebLopic Server instances or clusters. Select the sa	me targets on which you will deploy applications that reference the Work Manages:
Domain Structure PC1462DT * % 'Comain Partitions	Available targets :	
B Environment	Servers	
Servers Servers Servers Templates Migratable Targets Coherence Quaters Resource Groups	AdminServer	
	Servert	
- Resource Group Templates	Clusters	
Virtual Hosts Virtual Targets Work Messeers	Cluster App All servers in the cluster Part of the duster	
How do L	Cluster-App	
Create application-accept constraints Create application-scoped request classes Create application-scoped Work Managers Create constraints Create request classes	Chotor: 345 All servers in the cluster Port of the cluster Chotor: 345	
Create global Work Managers Oreate partition-scoped Work Managers,	Rack Next Finish Cancel	

Figure 8-14 Select deployment targets

8. Select **Cluster-App** target, and then click **Finish**.

The Summary of Work Managers screen displays.

Figure 8-15 Summary of Work Managers

Change Center	🛍 Home Log Out Preferences 🔤 Record Help	<u> </u>	Welcome, weblogic Connected to: FCUBSDomai
View changes and restarts	Home >Summary of Work Managers >MaxThreadsConstr Environment >Summary of Servers >Summary of Work	aint-0 >Summary of Work Managers >WorkManager-0 >Summary of Work Ma k Managers	nagers >MaxThreadsConstraint-0 >Summary of Servers >Summary of
Pending changes exist. They must be activated to take effect.	Messages	iliy	
Undo All Changes	Summary of Work Managers		
Domain Structure FCUBSDomain FCUBSDomain FCUBSTomment FCUBSTORE FC	and thread constraints defined for this domain.	nd thread constraints that manage work performed by WebLogic Server	instances. This page displays the global Work Managers, request classes gers.
Machines Virtual Hosts	Global Work Managers, Request Classes and	Constraints	
	Global Work Managers, Request Classes and	Constraints	Showing 1 to 2 of 2 Previous Next
Virtual Hosts Work Managers Startup and Shutdown Classes Deployments BServices		Constraints Type	Showing 1 to 2 of 2 Previous Next Targets
Virtual Hosts Work Managers Startup and Shutdown Classes Deployments BServices Security Realms	New Clone Delete		
Virtual Hosts Work Managers Startup and Shutdown Classes Deployments BServices	New Clone Delete	Туре	Targets

9. Navigate to newly created Work Manager GWMDBWM.

The Settings for GWMDBWM screen displays.



ORACLE WebLogic Server Adr			Q	
Change Center	1 Home Log Out Preferences 🔛 Record		Welcome, infra Connected to: FC1462D	
View changes and restarts	Home HOB_MODULE HEreignServer L HOB	MODULE >placebolder =ForeignGerver-1 >Configuration >Summary of Depic	ments + Summary of Servers + Summary of Work Hanapers + GWWOJEWW	
Pending changes exist. They must be activated to take effect.	Settlings for GWMD8WM			
to take effect.	Configuration Targets Notes			
Undo All Changes	[Save]			
Domain Structure	Use this page to define the request classes	and constraints for the selected Work Manager.		
PC1462DT + ® Domain Partitions ® Environment	Name:	GWMDBWM	The user-specified name of this Mösan instance. More Info	
-Servers B-Quaters	Scopes	Global	The scope in which this Work Manager is created. Nore Infa	
Server Templates Migratable Targets	👩 Request Class:	(None configured) v New	A request class associated with this Work Manager. This may be a FairShareRequestClass, ResponseTimeRequestClass, or a ContextRequestClass. More Info	
- Resource Groups Resource Group Templates - Machines	🔞 Minimum Threads Constraint:	(None configured) ~ [New]	The minimum number of threads allocated to resolve deadlocks. More $Info_{n}$	
- Witual Hosts - Witual Targets - Work Mesoners	🕂 Maximum Threads Constraint:	[MaxThreadsConstraint-0 ~] New	The maximum number of concurrent threads that can be allocated to execute requests. More $Info_{-\!\!\!-\!\!-\!\!}$	
How do L	Capacity Constraint:	(None configured) ~ [New]	The total number of requests that can be gueued or executing before WebLogic Server begins rejecting requests. More Ma	
Onste constraints Onste request classes Onste clobal Work Managers	5 Stuck Thread Action:	Use server default behavior	Specify how stuck threads should be detected, and what action to take should they occur. More Infa	
System Status	Max Stuck Thread Times	0	Turne after which a essentirep thread is declared as stuck. More $Info_ess$	
Health of Running Servers as of 4:15 PM	Stuck Thread Count:	0	Number of stuck threads after which the Workflarager is also down. Here Info.,	
Failed (0)		17		
Contract Alle	We approximate the second second		the state of the second second second second state of the second s	

Figure 8-16 Settings for GWMDBWM

- **10.** Select the **Maximum Threads Constraint** field to newly created **MaxThreadsConstraint-0**, and click **Save**.
- **11.** Restart managed servers, and notice the change in the number of consumers for the queues.

8.7 High Availability of Servers

This topic describes the high availability of servers.

- Application Server MDB_MODULE and the GWEJB EAR are deployed in a cluster. The cluster has 4 managed servers, if any server goes down then the messages are processed by other managed servers.
- JMS Provider JMS is deployed on 2 managed servers, JMSServer1 and JMSServer2, if anyone goes down others will handle the messages.
- FileStore Filestore is a cluster file system or database where if one node goes down then the other will handle the requests.
- DB Server The database is installed in RAC mode where it has more than 1 node, if a node goes down then other nodes will handle messages.

8.8 Setup for Scheduler/Notifications

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

8.9 Other Modules uses JMS Queue's

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

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

