Oracle® Banking Corporate Lending JMS Configuration on Weblogic Server



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ORACLE

Oracle Banking Corporate Lending JMS Configuration on Weblogic Server, Release 14.8.0.0.0

G29793-01

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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.

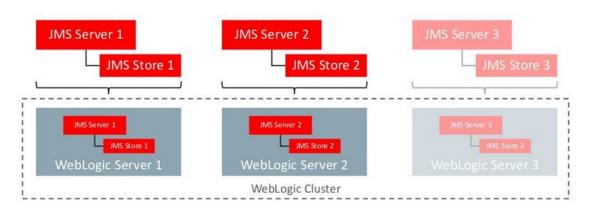
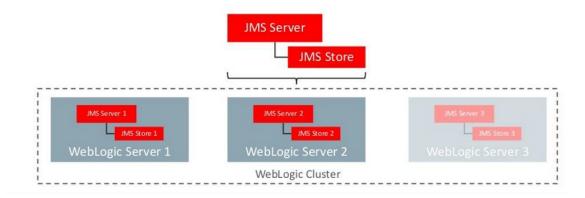


Figure 1-1 Architecture previous to 12c

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.

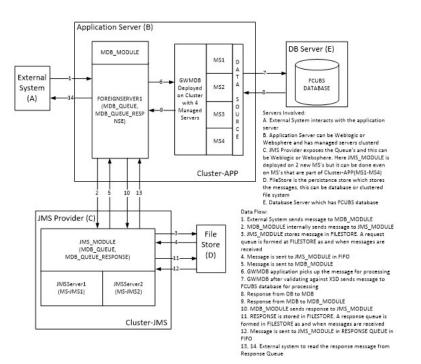


Figure 1-3 Components Diagram and Data Flow

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 |
| | | ervers (Filtered - More Colu ick the <i>Lock & Edit</i> button in th New Clone Delete | e Change Center to activate | | | State RUNNING | | |
| | | ervers (Filtered - More Colu ick the <i>Lock & Edit</i> button in th New Cone Delete Name & | e Change Center to activate | | | | Health | Listen Port |
| Configurable Targets Conference Clusters Michaels Michaels Michaels Michaels Michaels Michaels Michaels Construction Services Services Services Services Michaels | | ervers (Filtered - More Colu lick the Lock & Editbutton in th New Cone Delete Name & AdminServer(admin) | e Change Center to activate Type Configured | Cluster | Machine | RUNNING | Health | Listen Port 7001 |
| Conference Clusters Modifies Mo | | ervers (Filtered - More Colu lick the Lock & Editbutton in th New Cone Delete Name AdminServer(admin) DC_FCUBS_1 | e Change Center to activate Type Configured Dynamic | Cluster Cluster-App | Machine MAC-1 | RUNNING | Health CK Not reachable | Listen Port 7001 7101 |
| Charge Clusters Coherence Clusters Modules Modules Modules Modules Modules Modules Modules Services Services Services Constructed Servers Conservers | | ervers (Filtered - More Colu ick the Lock & Editbutton in th New Cone Delete Name & AdminServer(admin) DC_FCU85_1 DC_FCU85_2 | e Change Center to activate Type Configured Dynamic Dynamic | Cluster Cluster-App Cluster-App | Machine MAC-1 MAC-2 | RUNNING SHUTDOWN SHUTDOWN | Health V OK Not reachable Not reachable | Listen Port 7001 7101 7102 |
| 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 |
| Migratable Targets Coherence Clusters Mohaines Virhal Hosts | | Reverses (Filtered - More Columnic link the Lock & Editbutton in the New Cone Delete Name & Adm/Server(admin) DC_FCUBS_1 OC_FCUBS_3 OC_FCUBS_3 OC_FCUSS_3 OC_FCUSS_4 DC_SMS_1 DC_SMS_1 | e Change Center to activate Type Configured Dynamic Dynamic Dynamic Dynamic Dynamic Dynamic | Cluster -App Cluster -App Cluster -App Cluster -App Cluster -App Cluster -IMS | Machine MAC-1 MAC-2 MAC-1 MAC-2 MAC-1 | RUNNING SHUTDOWN SHUTDOWN SHUTDOWN SHUTDOWN SHUTDOWN | Health ✓ OK Not reachable | Listen Port 7001 7101 7102 7103 7104 7106 |

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

