

OBTR JMS Configuration Using Websphere Default
Messaging Provider
Oracle Banking Treasury Management
Release 14.5.2.0.0
[August] [2021]



Table of Contents

| | |
|--|------------|
| 1. PURPOSE | 1-1 |
| 2. INTRODUCTION | 2-1 |
| 3. PRE-REQUISITES | 3-1 |
| 3.1 NODES | 3-1 |
| 3.2 NODE AGENTS | 3-1 |
| 3.3 CLUSTER..... | 3-2 |
| 3.4 MANAGED SERVERS | 3-2 |
| 3.5 DATASOURCE..... | 3-3 |
| 3.6 SHARED FOLDER..... | 3-3 |
| 4. JMS CONFIGURATION | 4-1 |
| 4.1 SERVICE INTEGRATION BUS CREATION | 4-1 |
| 4.2 BUS MEMBER (FILE STORE CREATION) | 4-3 |
| 4.3 DESTINATION QUEUE CREATION | 4-9 |
| 5. RESOURCE CREATION | 5-1 |
| 5.1 QUEUE CREATION..... | 5-1 |
| 5.2 CONNECTION FACTORY CREATION..... | 5-4 |
| 5.2.1 Managed Servers SIB Ports | 5-6 |
| 5.3 JMS ACTIVATION SPECIFICATIONS FOR CLUSTER | 5-8 |
| 6. APPLICATION DEPLOYMENT | 6-1 |
| 6.1 RESTART SERVERS | 6-1 |
| 7. FREQUENTLY ASKED QUESTIONS | 7-1 |
| 7.1 HOW TO TEST THE DEPLOYMENT | 7-1 |
| 7.2 WARNING DURING BUS MEMBER CREATION | 7-4 |
| 7.3 MESSAGE ENGINES NOT GETTING STARTED | 7-5 |
| 7.4 CANNOT ESTABLISH CONNECTION ERROR | 7-5 |
| 7.5 HOW TO SETUP FOR SCHEDULER/NOTIFICATIONS | 7-5 |
| 7.6 WHAT OTHER MODULES USES JMS QUEUE'S | 7-5 |
| 8. REFERENCES | 8-1 |

1. Purpose

The purpose of this document is to explain the steps required for JMS Configuration using WEBSHERE DEFAULT MESSAGING PROVIDER for Websphere 8.5.5

2. Introduction

The default messaging provider is installed and runs as part of WebSphere Application Server, and needs no further administration. WebSphere administrative console is used to configure JMS resources for applications and can manage messages and subscriptions associated with JMS destinations.

The default messaging provider is the Java™ Message Service (JMS) API implementation for messaging (connection factories, JMS destinations, and so on). The concrete destinations (queues and topic spaces) behind the default messaging provider interface are implemented in a service integration bus.

The default messaging provider is based on service integration technologies., this document deals with

- Service Bus Creation

A service integration bus consists of one or more bus members. A bus member can be an application server or a cluster. Each bus member will have one (or possibly more in the case of clusters) messaging engine that manages connections to the bus and messages.

- JMS connection factories and service integration

A JMS connection factory is used to create connections to JMS resources on a service integration bus.

- JMS queue resources and service integration

Creation of JMS queue resources provided by the default messaging provider for JMS point-to-point messaging and supported by a service integration bus.

- Application access to JMS resources

Describes the application access to Java Message Service (JMS) resources provided by the default messaging provider.

3. Pre-Requisites

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

3.1 Nodes

2 nodes are created

WebSphere, software

Views: All tasks

Cell=ofss222565Cell01, Profile=Dmgr01

Nodes

Use this page to manage nodes in the application server environment. A node corresponds to a physical computer system with a distinct IP host address. The following table lists the managed and unmanaged nodes in this cell. The first node is the deployment manager. Add new nodes to the cell and to this list by clicking Add Node.

Preferences

Add Node Remove Node Force Delete Synchronize Full Resynchronize Stop

| Select | Name | Host Name | Version | Discovery Protocol | Status |
|--------------------------|-------------------------|--------------------------|--------------|--------------------|--------|
| <input type="checkbox"/> | ofss220239Node02 | ofss220239.in.oracle.com | Base 8.5.5.0 | TCP | + |
| <input type="checkbox"/> | ofss222565CellManager01 | ofss222565.in.oracle.com | ND 8.5.5.0 | TCP | + |
| <input type="checkbox"/> | ofss222565Node03 | ofss222565.in.oracle.com | ND 8.5.5.0 | TCP | + |

Total 3

3.2 Node Agents

Both the Node Agents are started.

WebSphere, software

Views: All tasks

Cell=ofss222565Cell01, Profile=Dmgr01

Node agents

Use this page to manage node agents and application servers on the node that a node agent manages. The node agent process serves as an intermediary between the application servers on the node and the deployment manager. The node agent process runs on every node and is specialized to perform node-specific administration functions, such as server process monitoring, configuration synchronization, file transfer, and request routing.

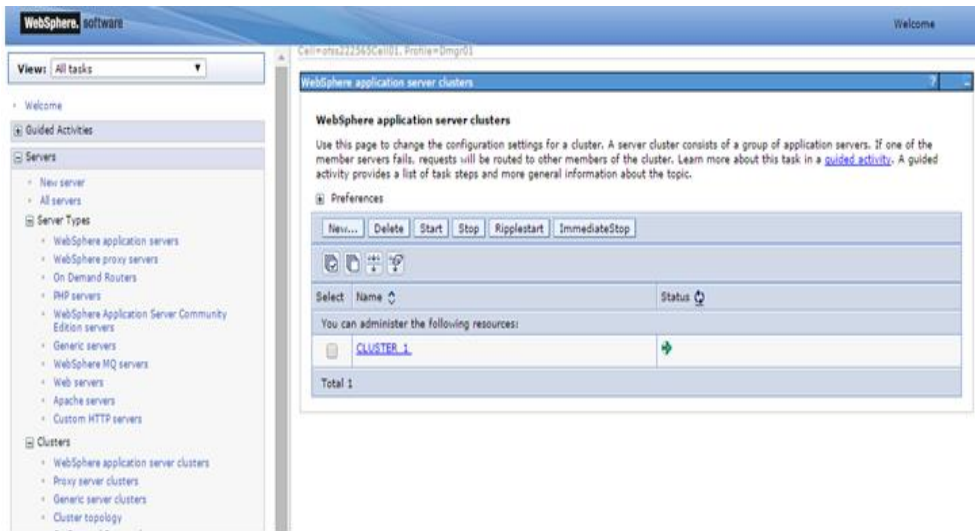
Preferences

Stop Restart Restart all Servers on Node

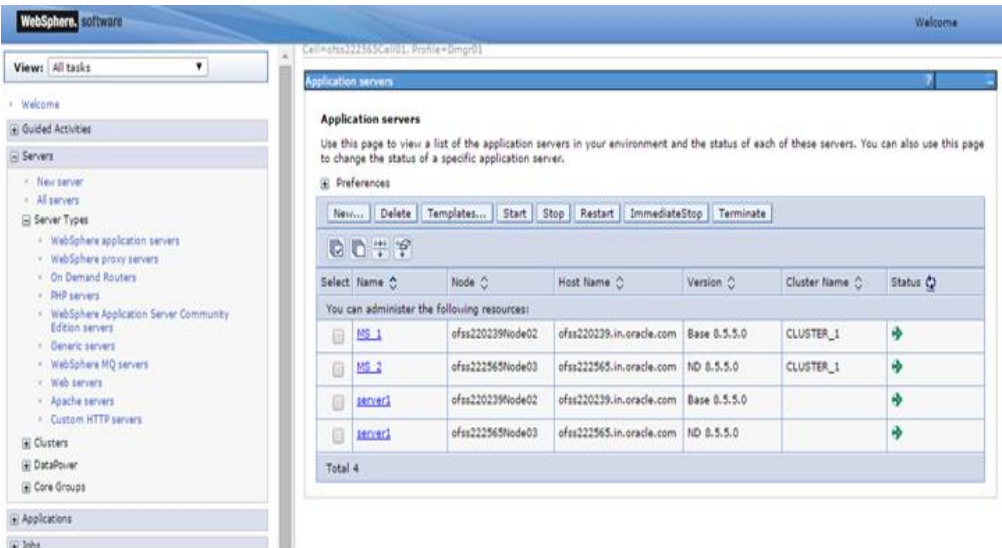
| Select | Name | Node | Host Name | Version | Status |
|--------------------------|-----------|------------------|--------------------------|--------------|--------|
| <input type="checkbox"/> | nodeagent | ofss220239Node02 | ofss220239.in.oracle.com | Base 8.5.5.0 | → |
| <input type="checkbox"/> | nodeagent | ofss222565Node03 | ofss222565.in.oracle.com | ND 8.5.5.0 | → |

Total 2

3.3 Cluster

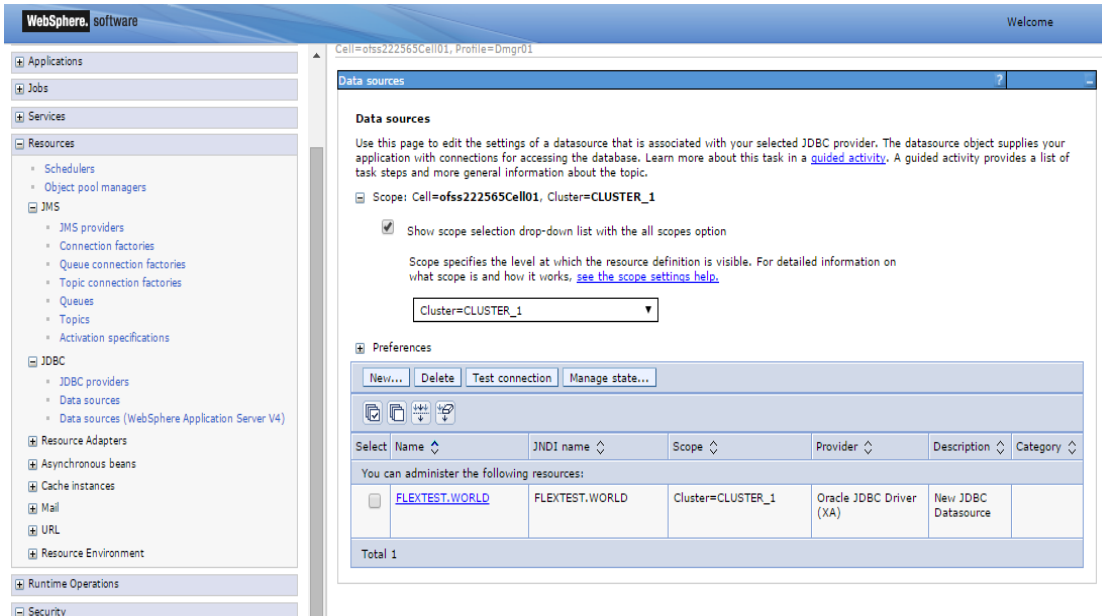


3.4 Managed Servers



3.5 DataSource

Ensure that DataSource required for the MDB ear is created with Target as Cluster_1



3.6 Shared Folder

Shared folders for File Store Creation are required and this folder should be accessible across both the servers (eg, NFS mount). For fail over of messaging engines to another, all servers in cluster require a separate folder. If there are 4 Managed Servers in the clusters then 4 separate folders are required.

Eg,

/scratch/MessageStore/JMS_1/

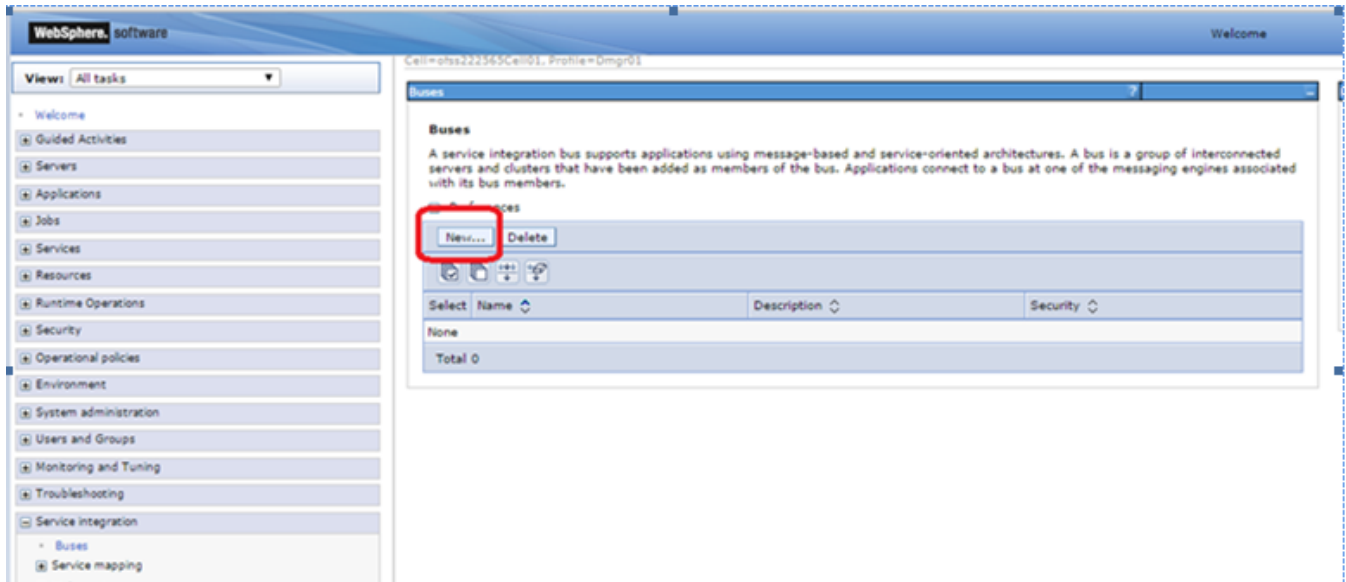
/scratch/MessageStore/JMS_2/

/scratch/ MessageStore /JMS_3/

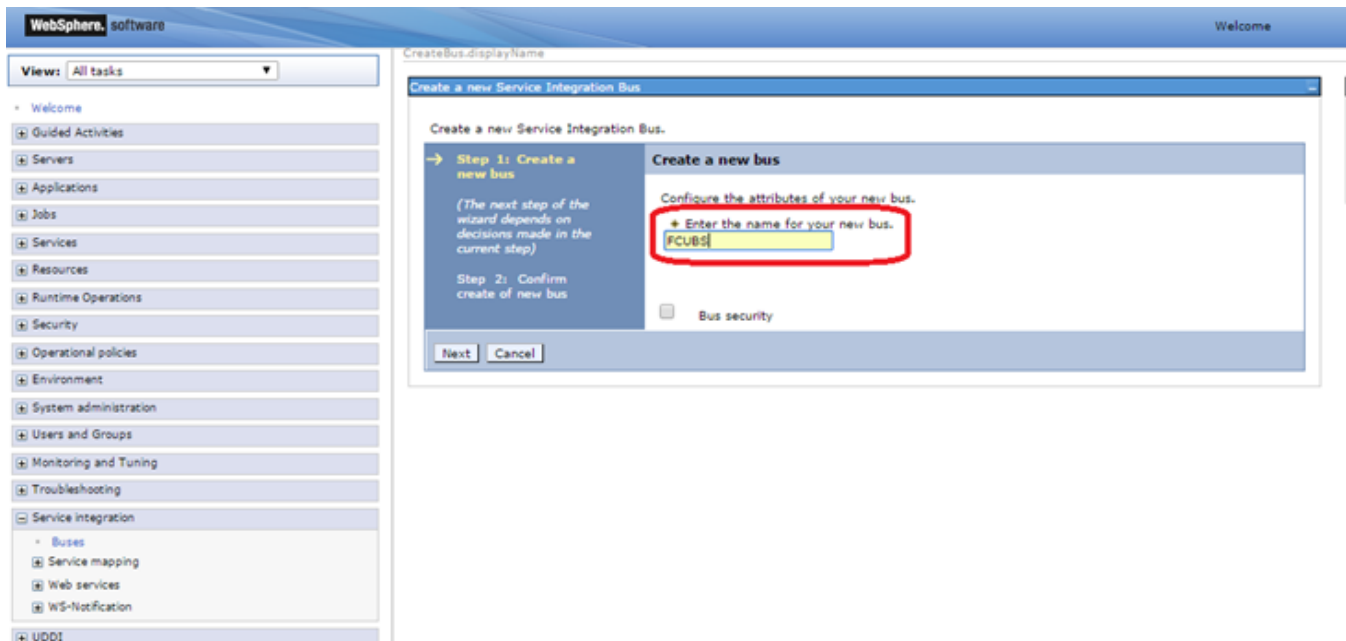
4. JMS Configuration

4.1 Service Integration Bus Creation

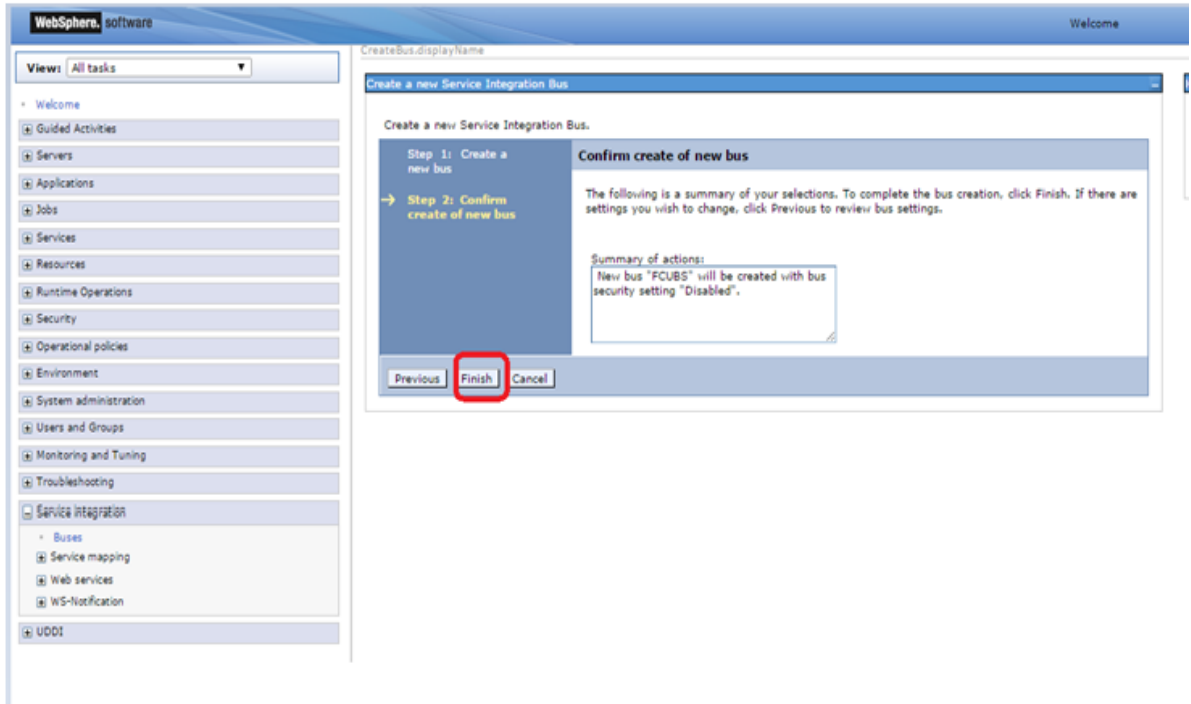
- 1) Navigate to Service Integration > Buses > Click on New.



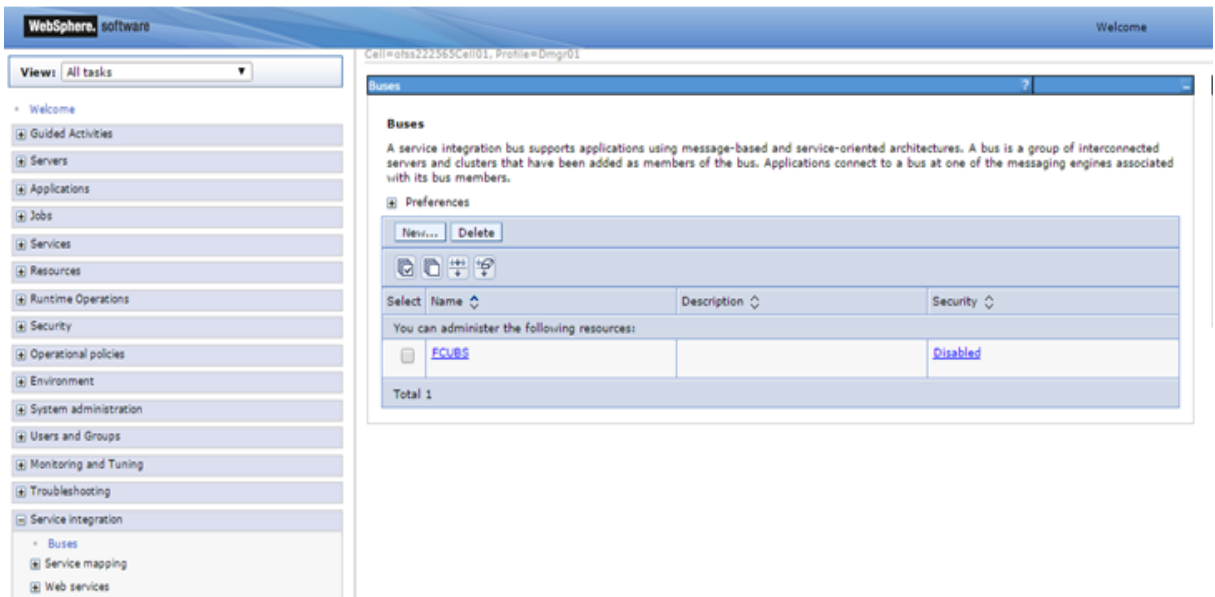
- 2) Enter Name for the new Bus, Uncheck "Bus Security" if security is not enabled during OBTR property file build and click on Next.



- 3) Click on Finish.

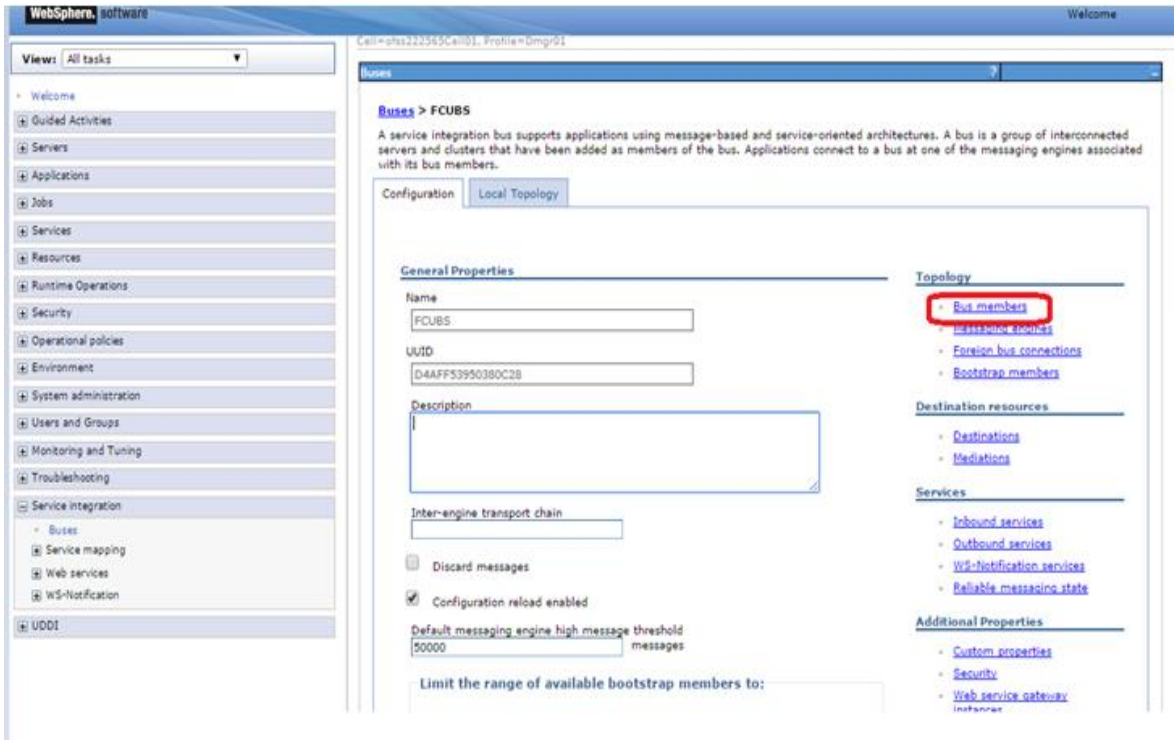


4) New Bus FCUBS is created.

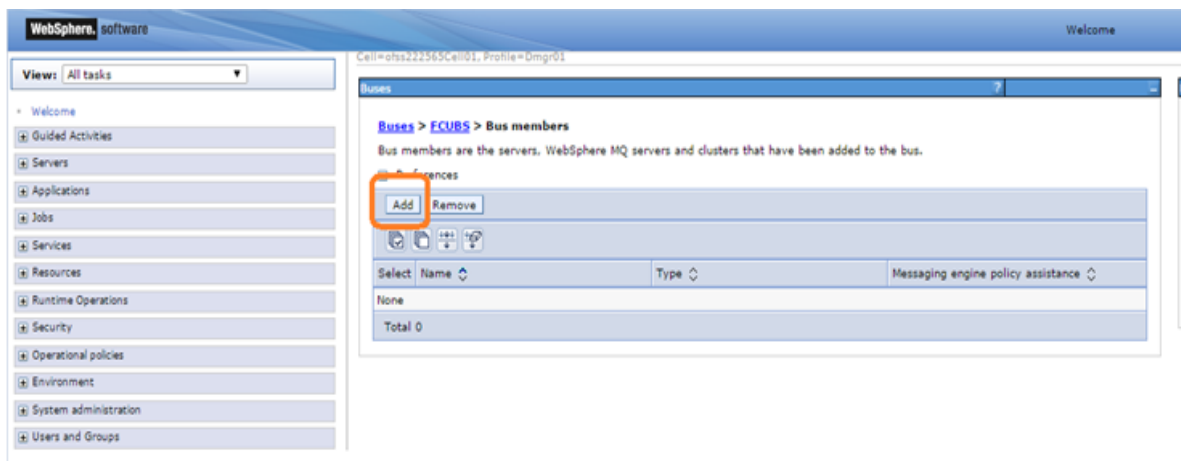


4.2 Bus Member (File Store Creation)

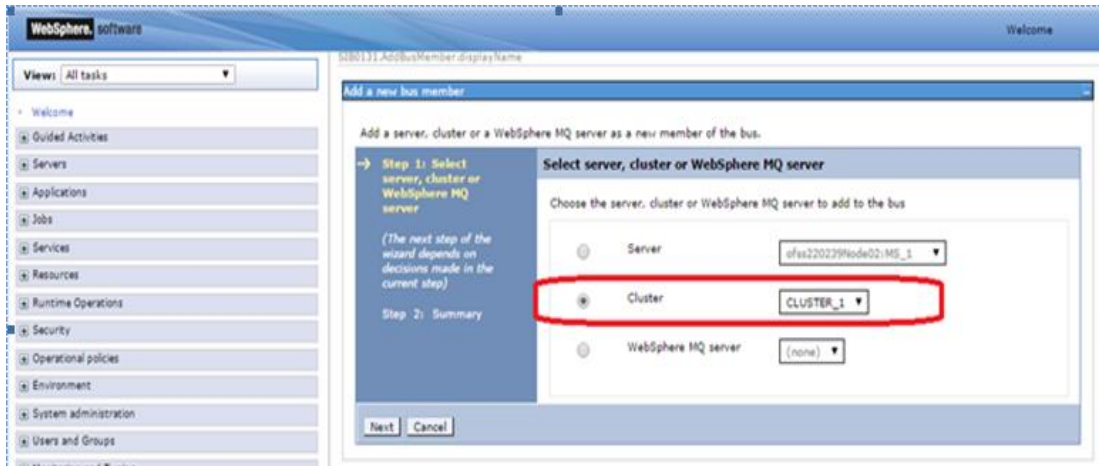
- 1) Navigate to Service Integration > Buses > Click on FCUBS(new bus Created) > Click on Bus Member under Topology



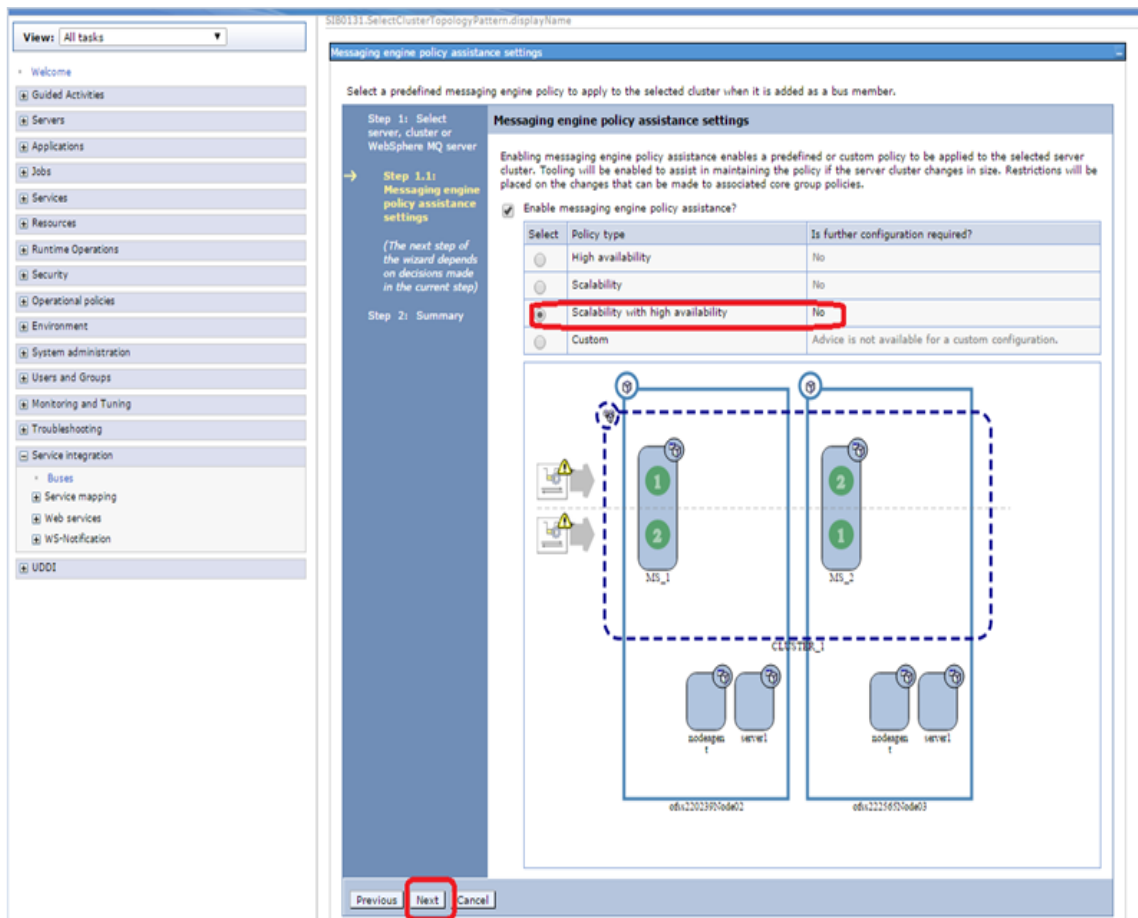
- 2) Click On Add



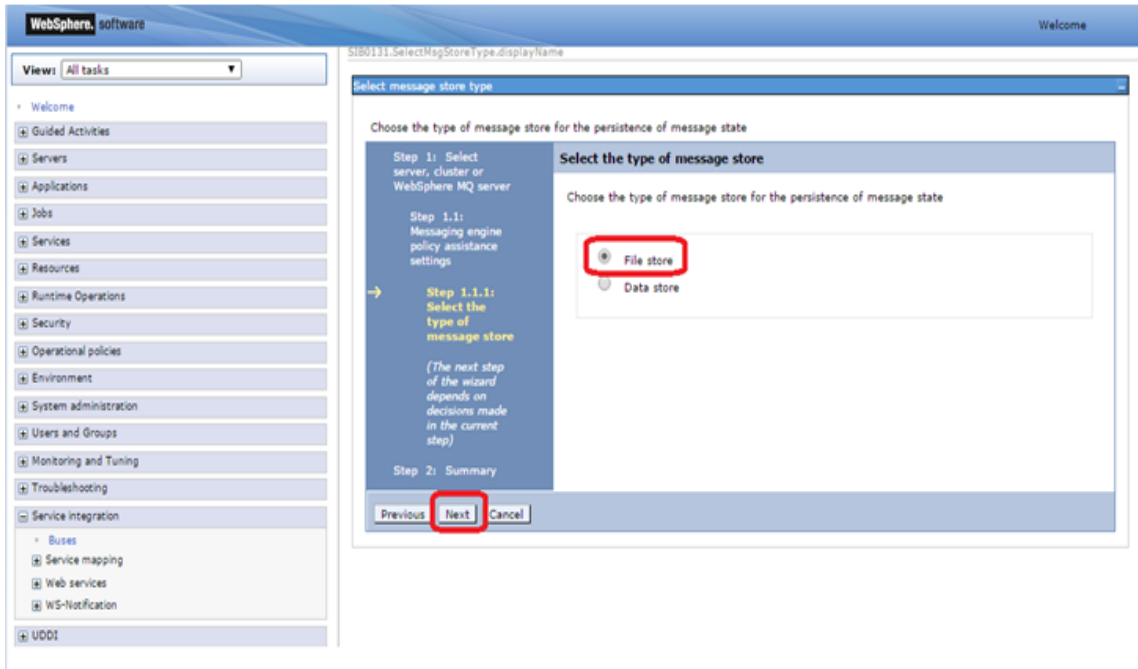
3) Select Cluster and Click on Next



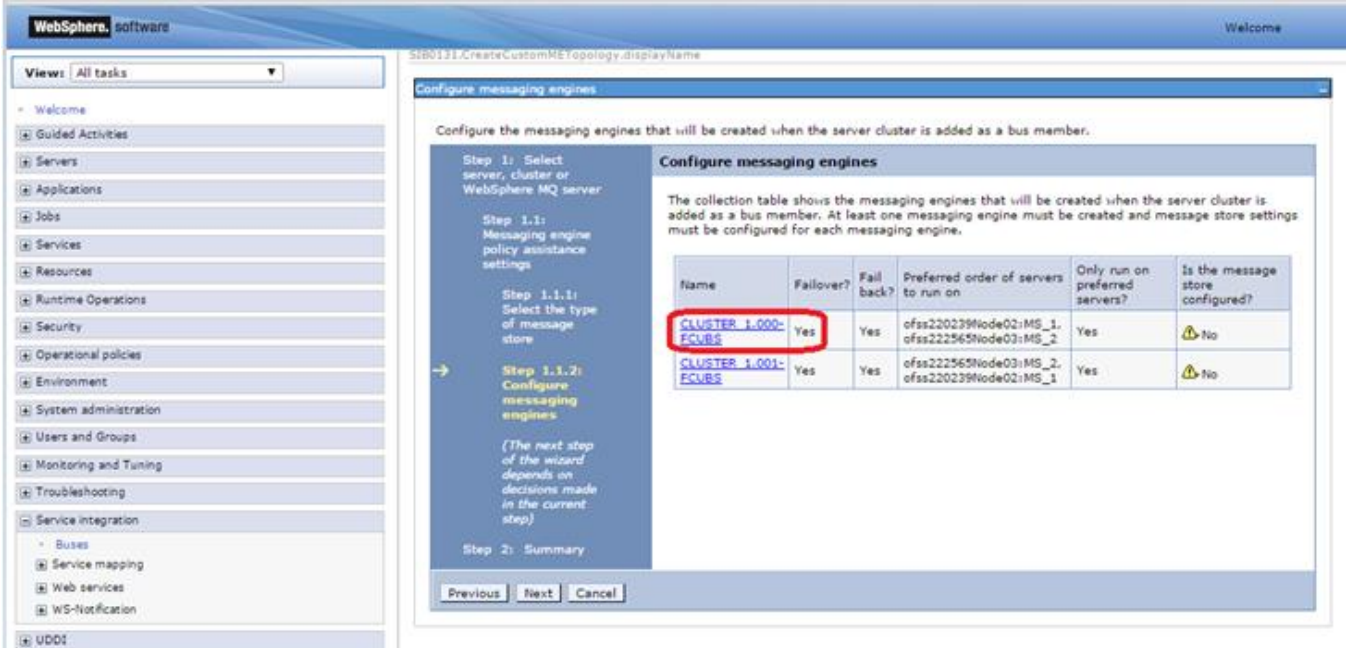
4) Select Scalability and High Availability Policy Type and Click on Next.



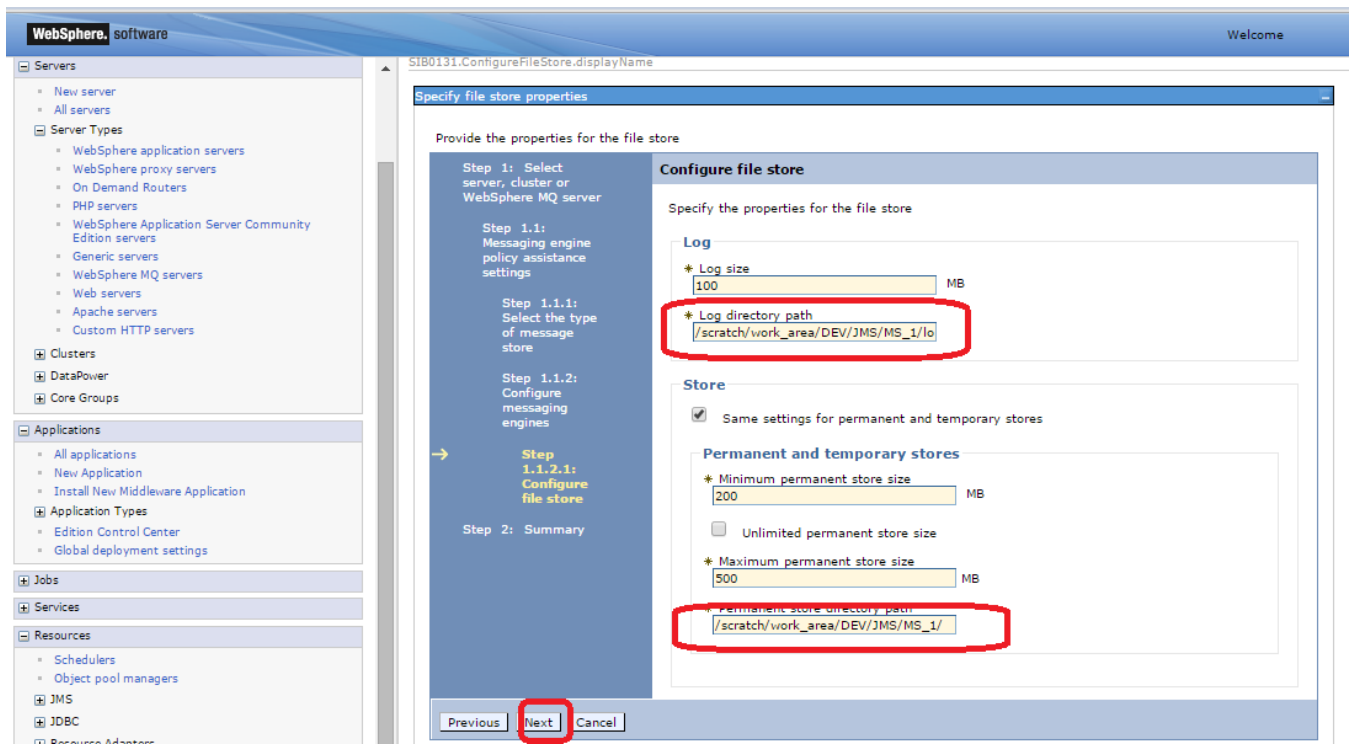
5) Select File Store and Click on Next



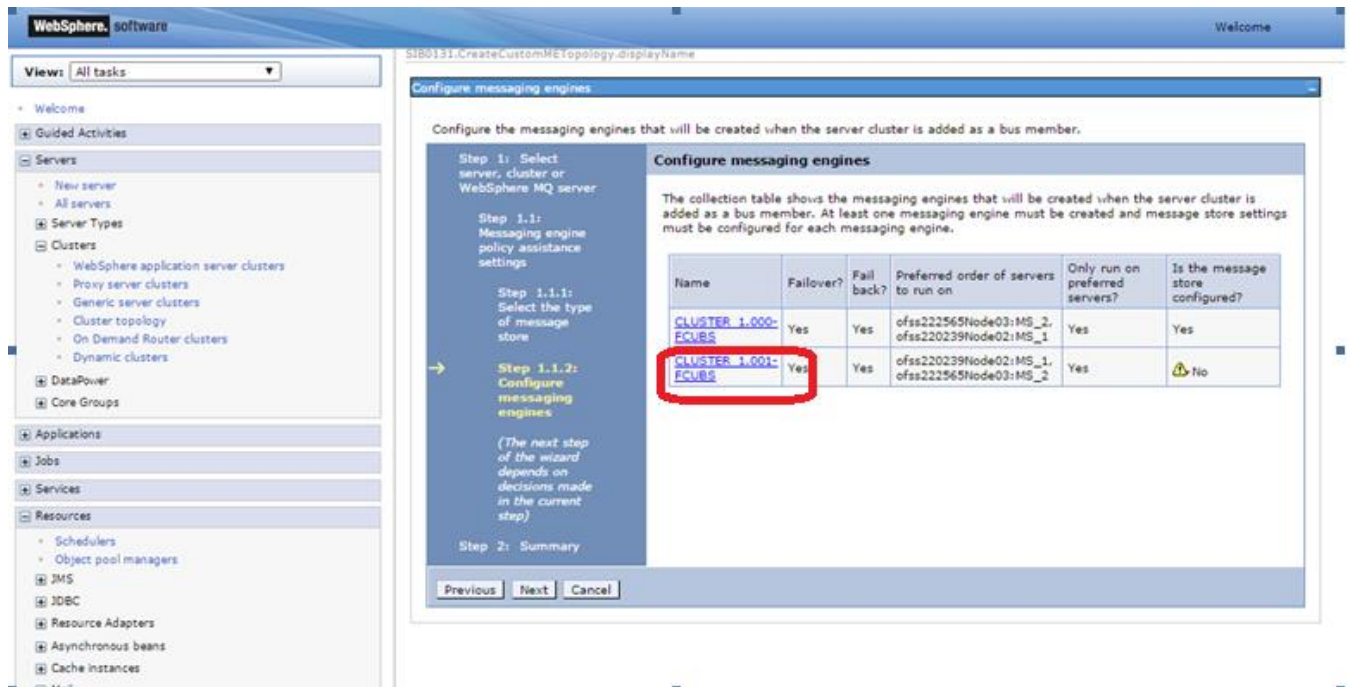
6) Select the Node 1 Message Engine



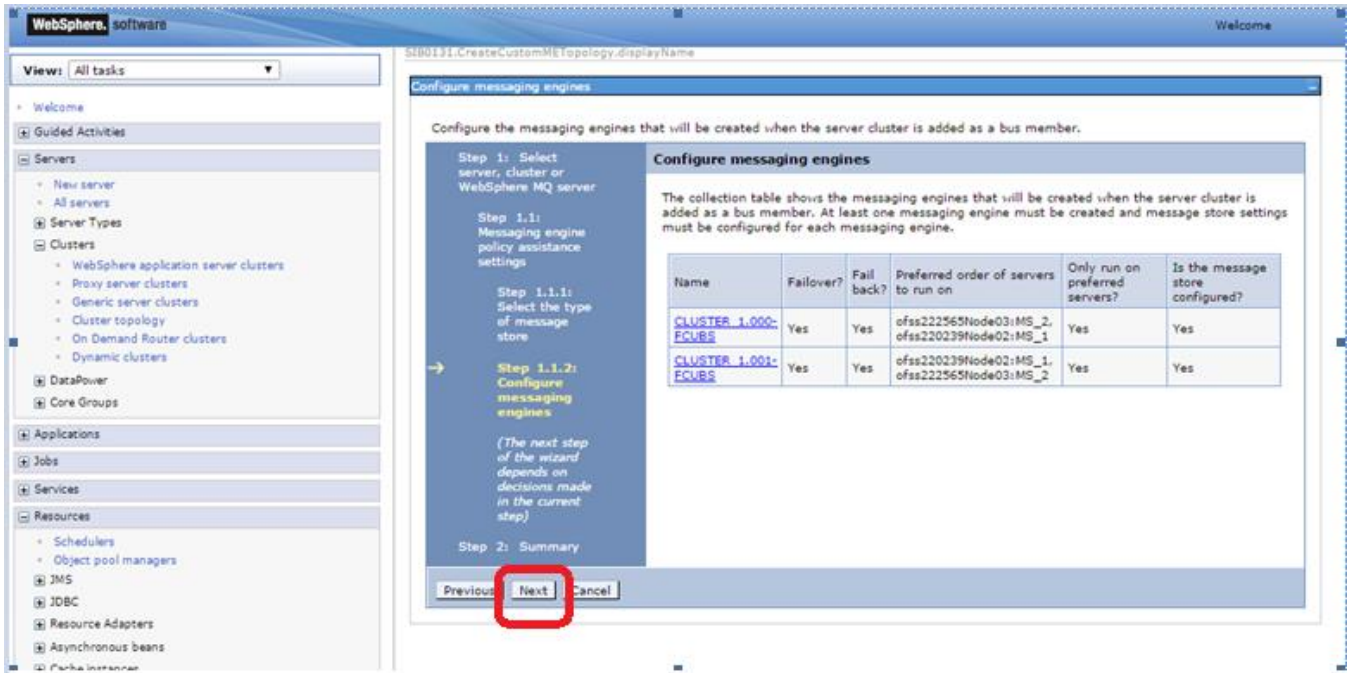
- 7) Enter the Log Directory Path and Permanent store directory path(shared path across the nodes) and Click on Next



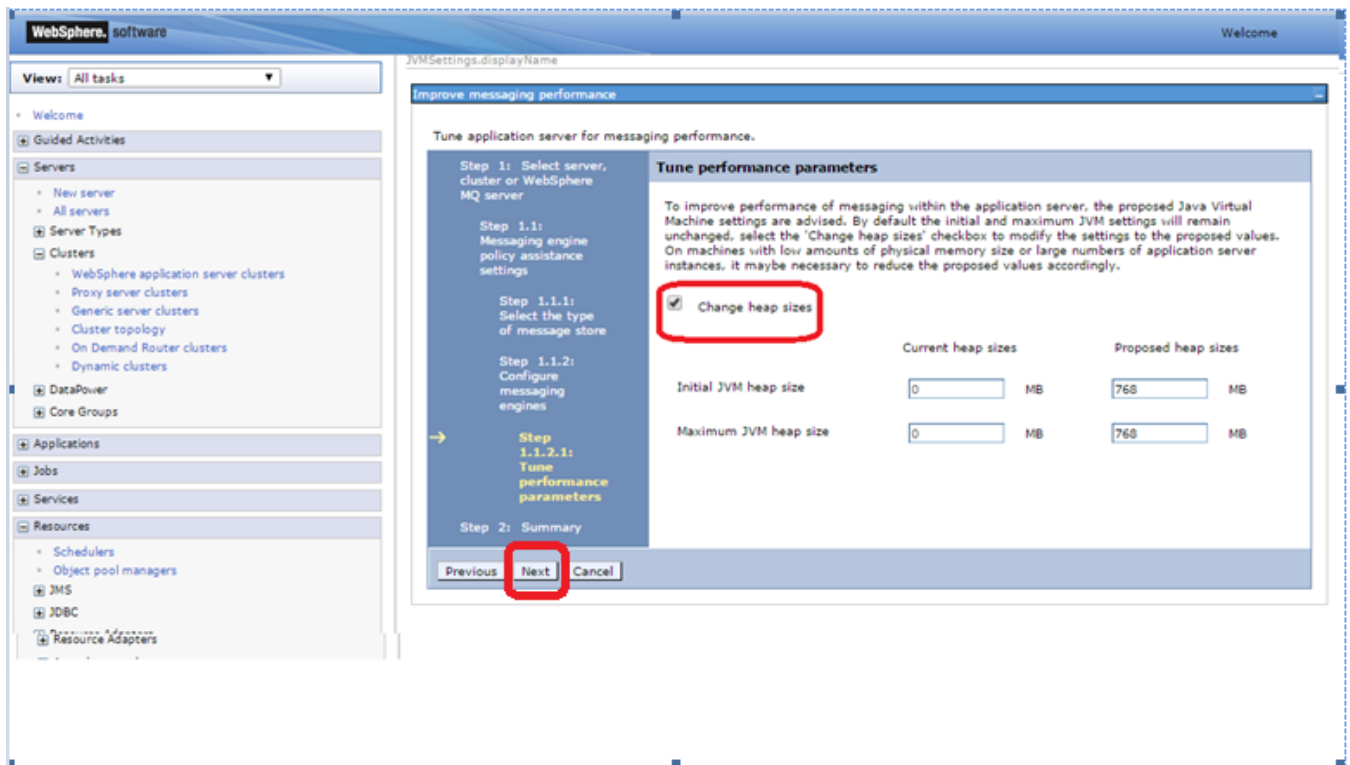
- 8) Click on other message engine and set the File Store



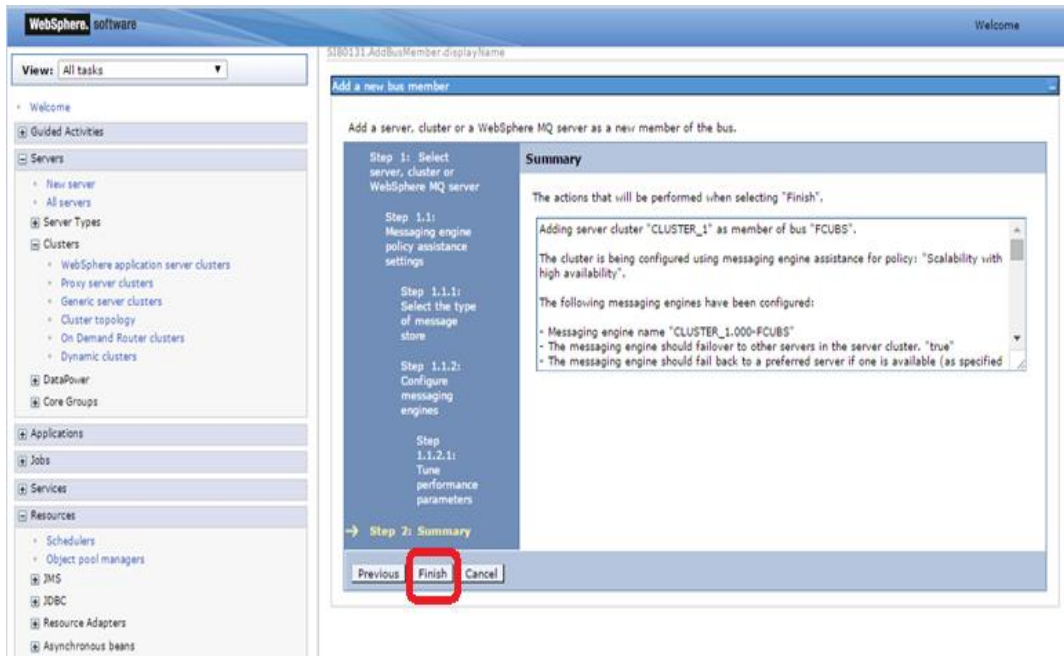
9) Click on Next after Setting File Store for all messaging engines.



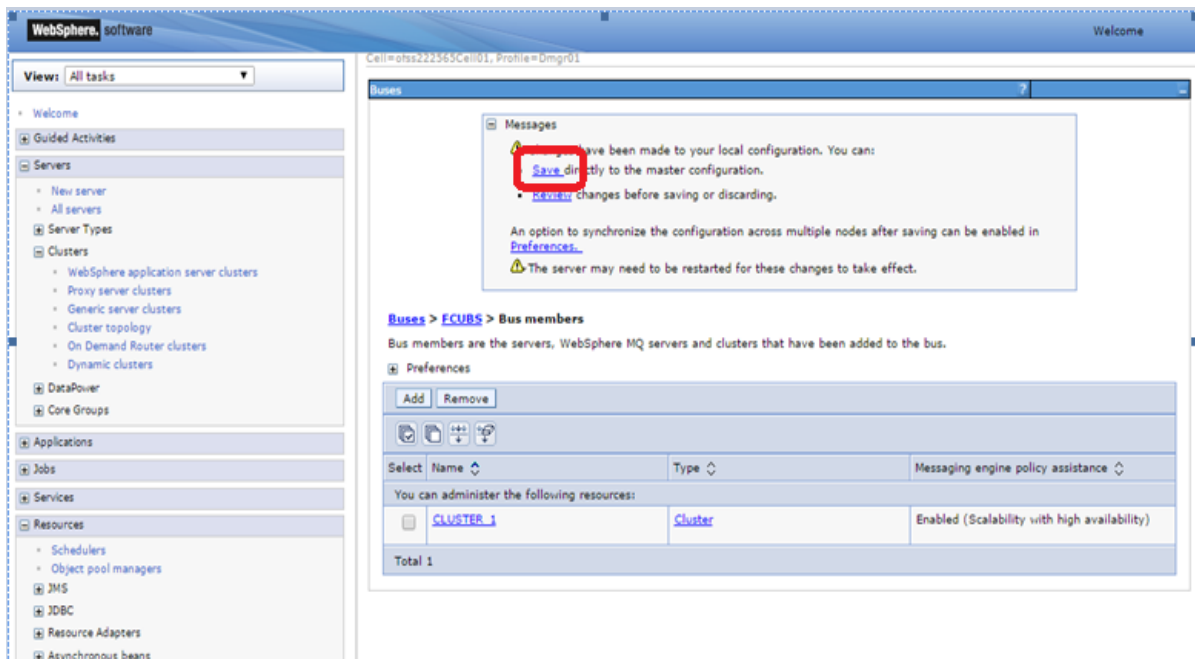
10) Select Change Heap Sizes and Click on Next



11) Click on Finish



12) Click on Save



4.3 Destination Queue Creation

- 1) Navigate to Service Integration > Buses > Click on FCUBS(new bus Created) > Click on Destination under Destination Resources

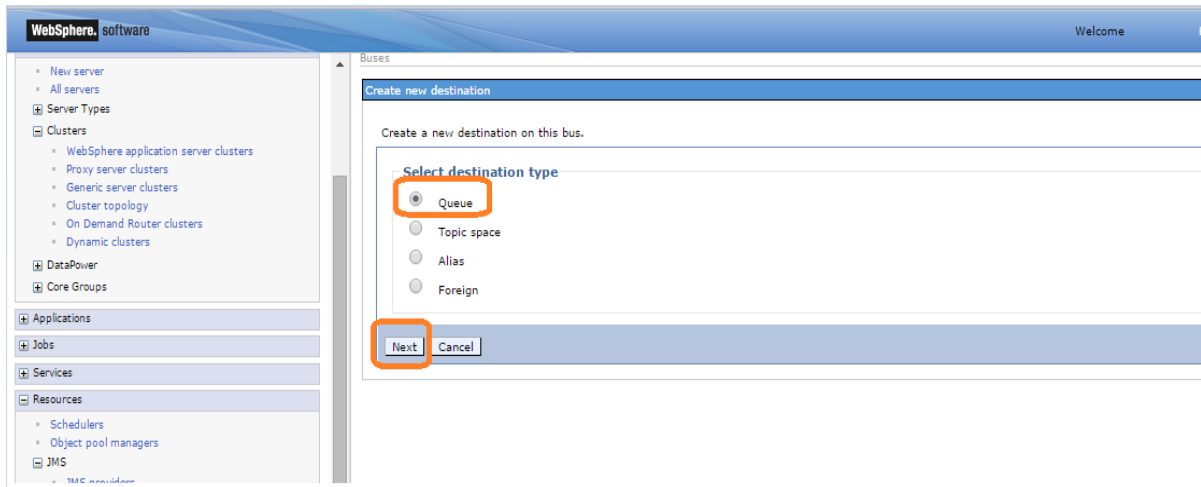
The screenshot shows the WebSphere software interface. On the left is a navigation tree with categories like Clusters, DataPower, Core Groups, Applications, Jobs, Services, and Resources. The main area displays the configuration for a bus named 'FCUBS'. It includes fields for Name, UUID, and Description. There are tabs for 'Configuration' and 'Local Topology'. A 'Destination resources' section is highlighted with a red box, containing links for 'Destinations' and 'Mediations'. Other sections include 'General Properties', 'Topology', 'Inter-engine transport chain', and 'Services'.

- 2) Click on New

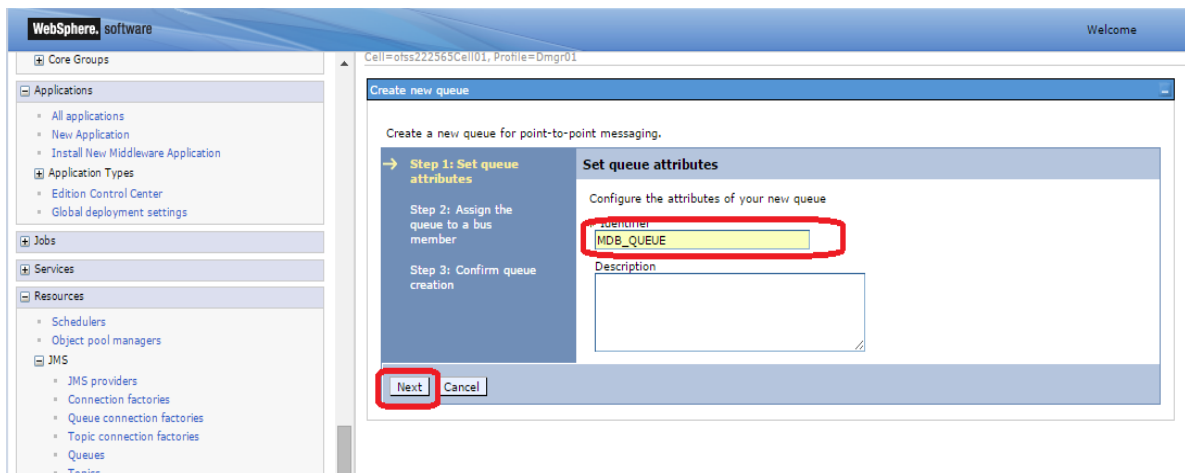
The screenshot shows the 'Destinations' page for the FCUBS bus. It includes a 'New...' button highlighted with a red box, along with 'Delete', 'Mediate', and 'Unmediate' buttons. Below these are icons for refresh, save, and other actions. A table lists existing destinations with columns for Select, Identifier, Bus, Type, Description, and Mediation. The table contains three entries, all with 'FCUBS' as the bus and 'Queue' as the type. A 'Total 3' row is at the bottom.

| Select | Identifier | Bus | Type | Description | Mediation |
|--------------------------|--|-------|-------------|-------------|-----------|
| <input type="checkbox"/> | Default.Topic.Space | FCUBS | Topic space | | |
| <input type="checkbox"/> | SYSTEM.Exception.Destination.CLUSTER_1.000-FCUBS | FCUBS | Queue | | |
| <input type="checkbox"/> | SYSTEM.Exception.Destination.CLUSTER_1.001-FCUBS | FCUBS | Queue | | |
| Total 3 | | | | | |

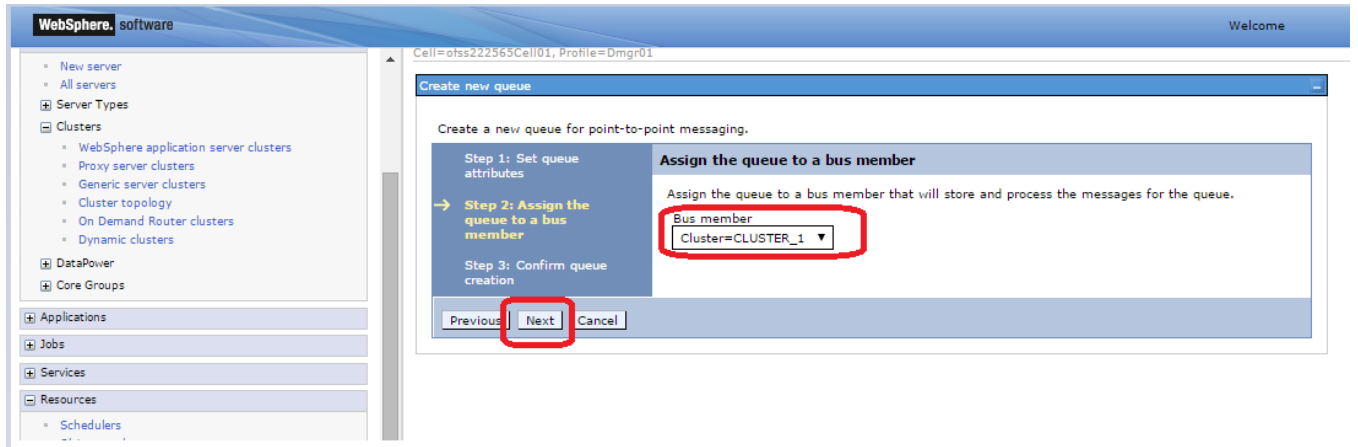
3) Select Queue and Click on Next



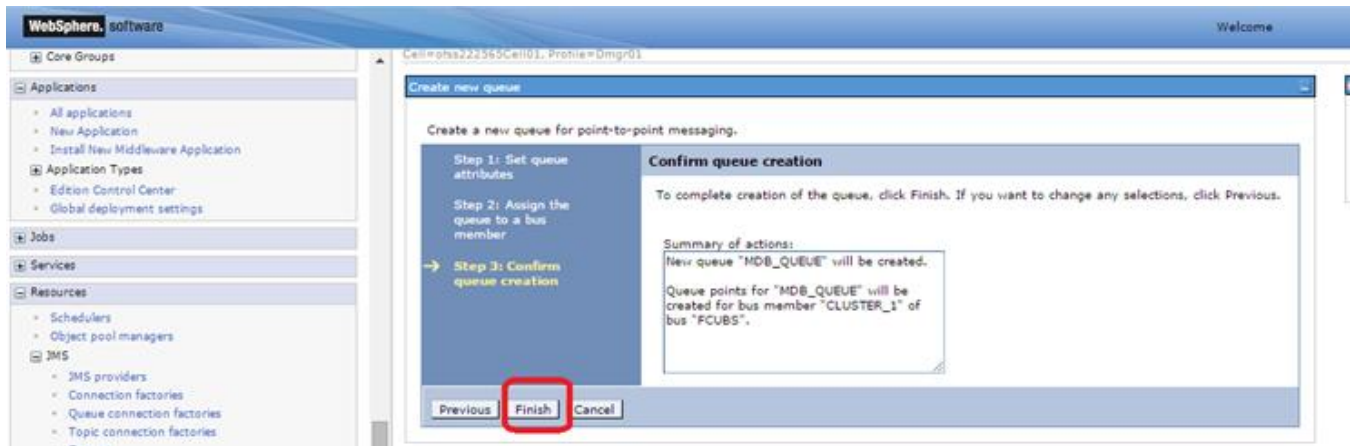
4) Enter Identifier as MDB_QUEUE and Click on Next



5) Select Bus Member as Cluster and Click on Next



6) Click on Finish



7) Click on Save

The screenshot shows the WebSphere software interface. On the left is a navigation tree with categories like Applications, Jobs, Services, and Resources. The main area displays the configuration for 'Buses > FCUBS > Destinations'. A 'Messages' dialog box is open, containing a warning icon and the text: 'Changes have been made to your local configuration. You can: **Save directly** to the master configuration. • Review changes before saving or discarding. An option to synchronize the configuration across multiple nodes after saving can be enabled in Preferences. The server may need to be restarted for these changes to take effect.' The 'Save directly' button is highlighted with a red rectangle. Below the dialog, there is a table of destinations:

| Select | Identifier | Bus | Type | Description | Mediation |
|--------------------------|---------------------|-------|-------------|-------------|-----------|
| <input type="checkbox"/> | Default.Topic.Space | FCUBS | Topic space | | |
| <input type="checkbox"/> | MDR_QUEUE | FCUBS | Queue | | |

8) Similarly create Destinations for all the other Queue's required

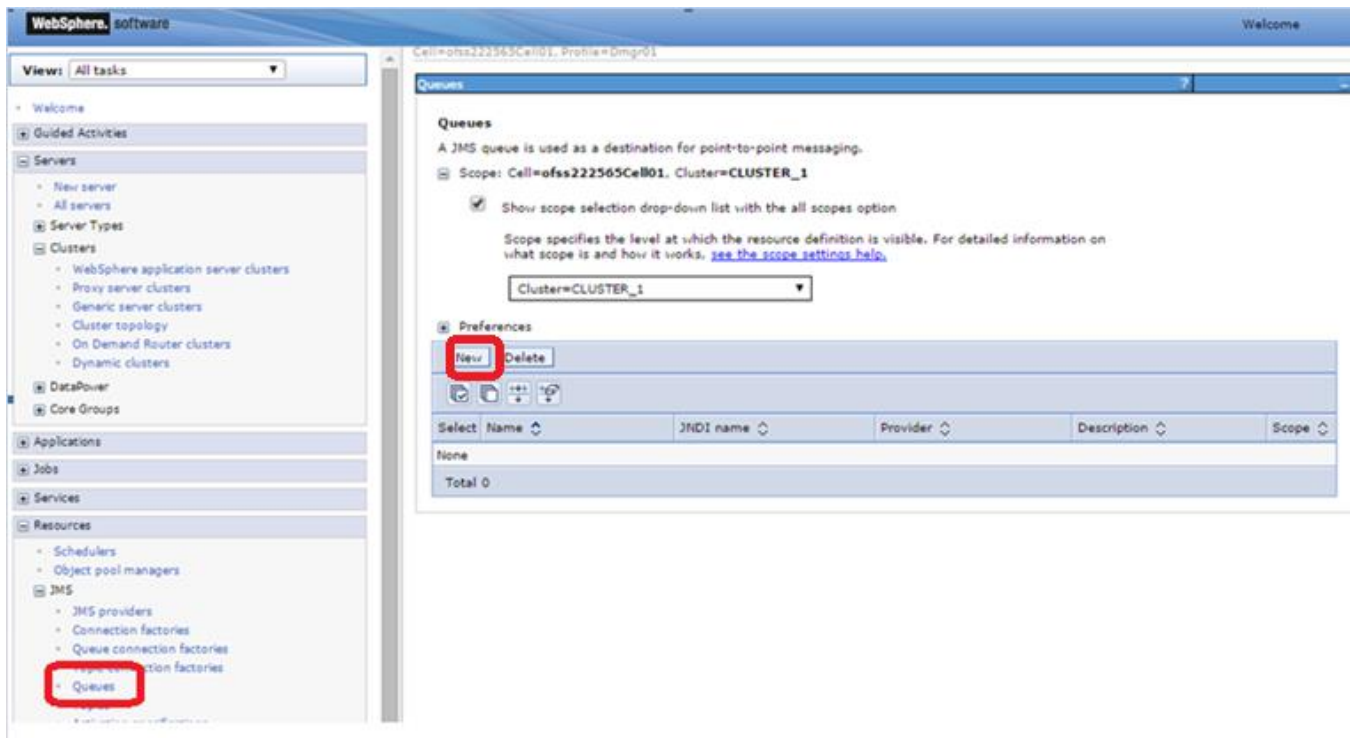
The screenshot shows the same WebSphere software interface as above, but now the 'Destinations' table has three rows highlighted with a red rectangle:

| Select | Identifier | Bus | Type | Description | Mediation |
|--------------------------|---|-------|-------------|-------------|-----------|
| <input type="checkbox"/> | Default.Topic.Space | FCUBS | Topic space | | |
| <input type="checkbox"/> | MDR_QUEUE | FCUBS | Queue | | |
| <input type="checkbox"/> | MDR_QUEUE_DLQ | FCUBS | Queue | | |
| <input type="checkbox"/> | MDR_QUEUE_RESPONSE | FCUBS | Queue | | |
| <input type="checkbox"/> | _SYSTEM.Exception.Destination.CLUSTER_1.000-FCUBS | FCUBS | Queue | | |

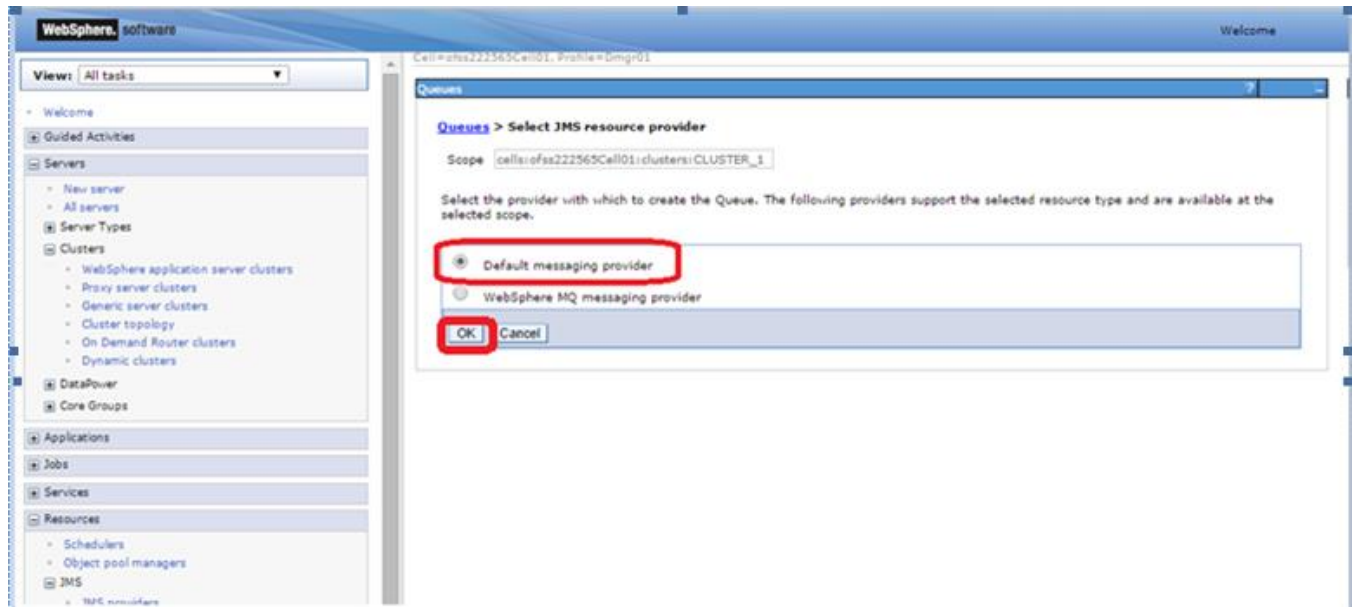
5. Resource Creation

5.1 Queue Creation

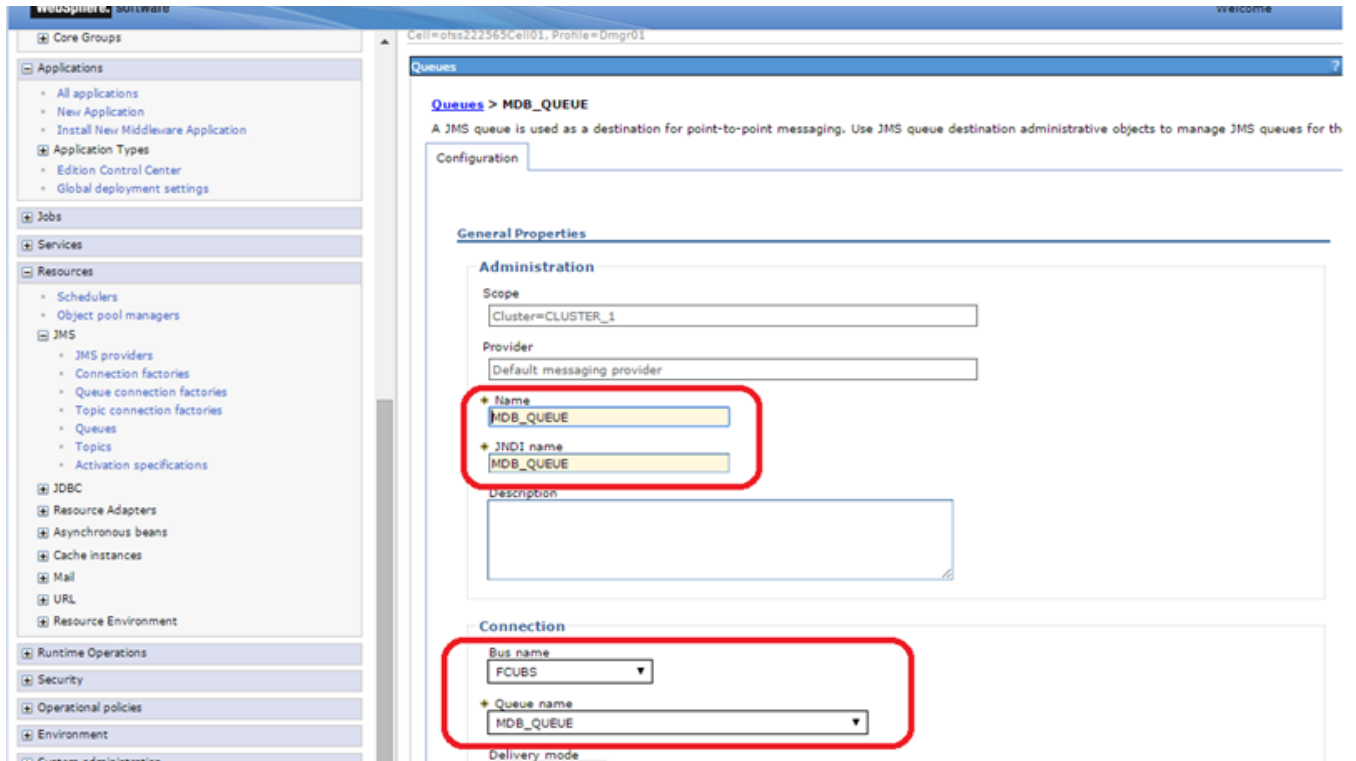
- 1) Navigate to Resources > JMS > Queues > Select Scope as Cluster and Click on New



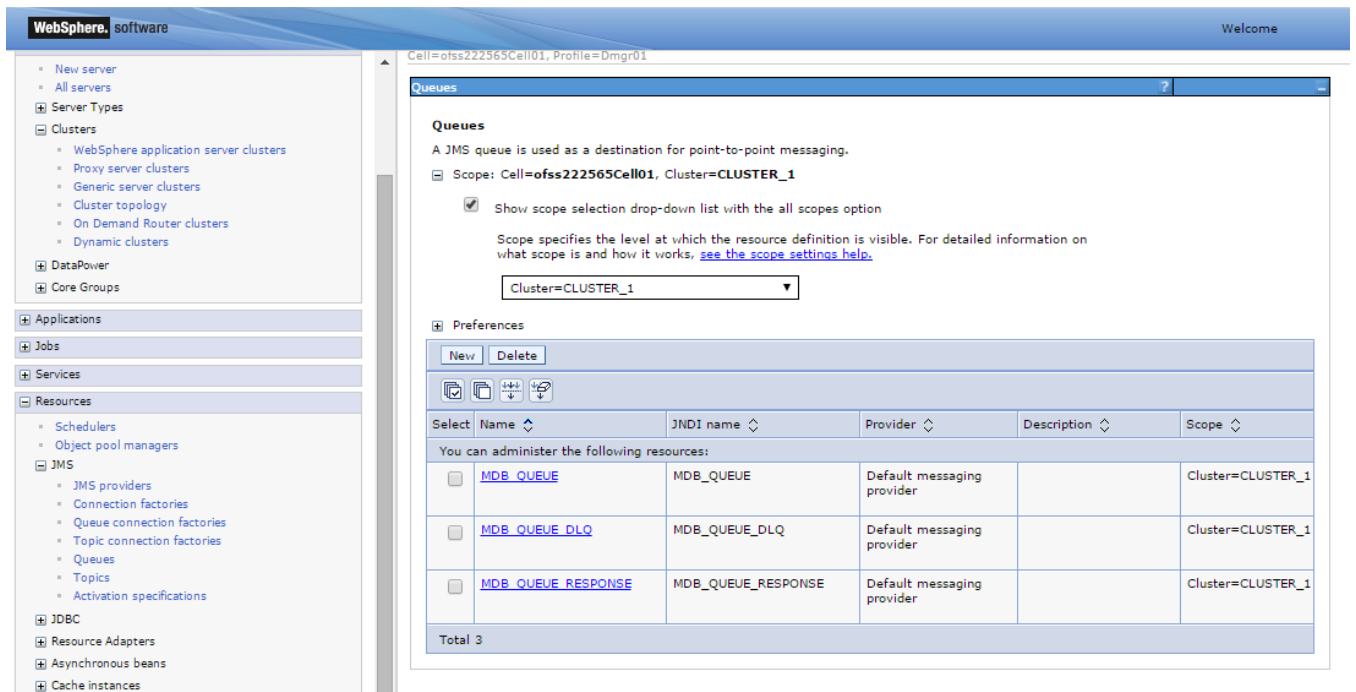
2) Select "Default messaging provider" and Click on OK.



3) Enter The Name, JNDI Name. Select Bus and Queue Name accordingly and Click on OK.

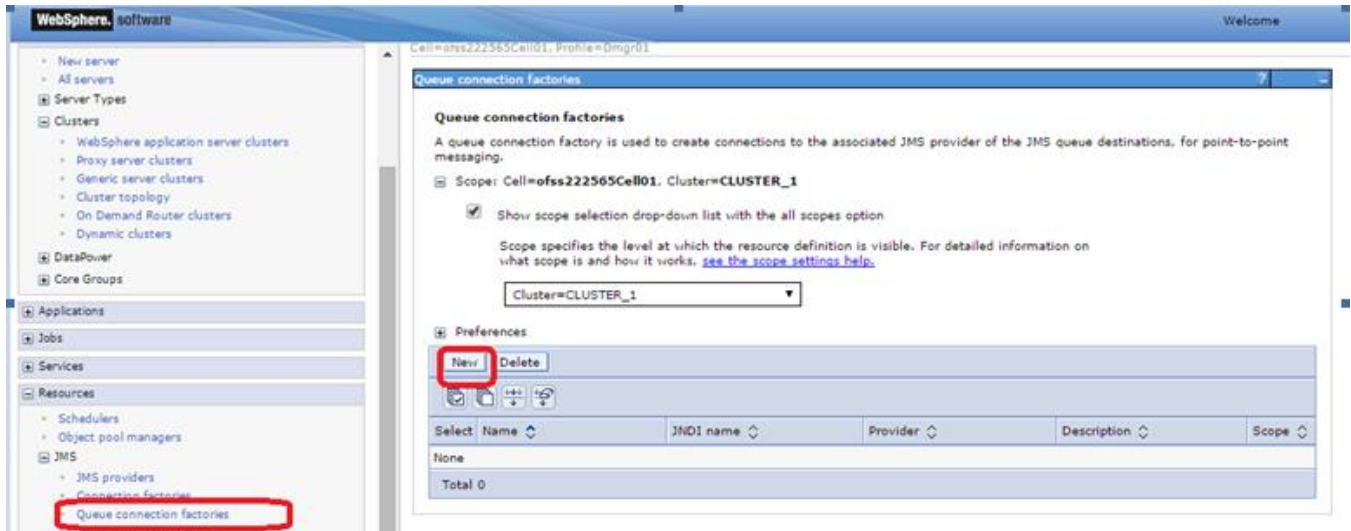


4) Similarly create other Queue's required

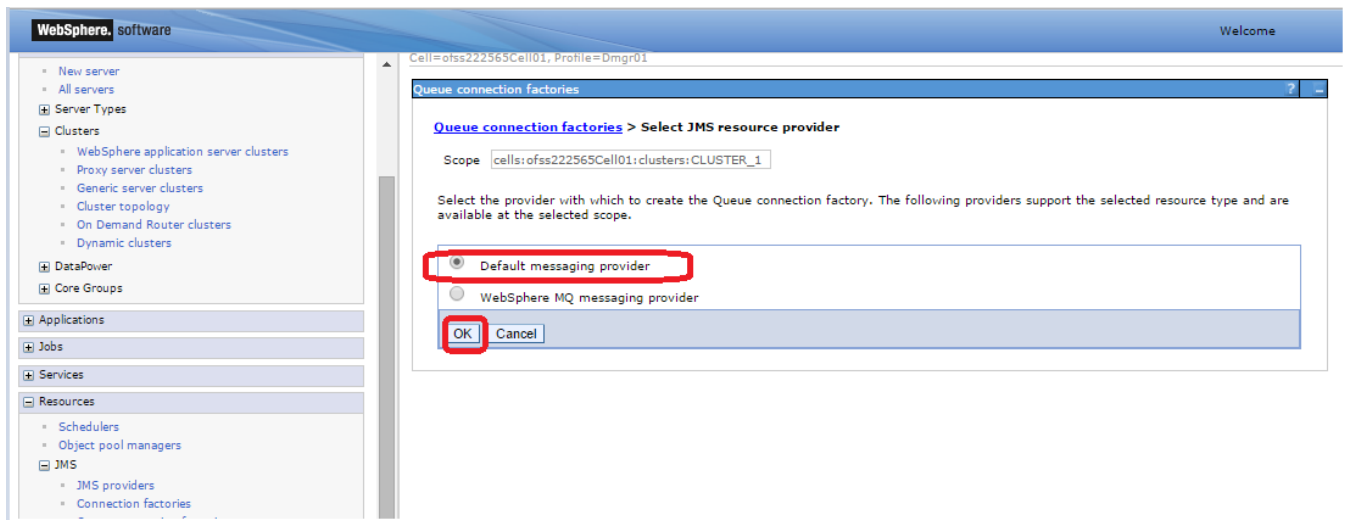


5.2 Connection Factory Creation

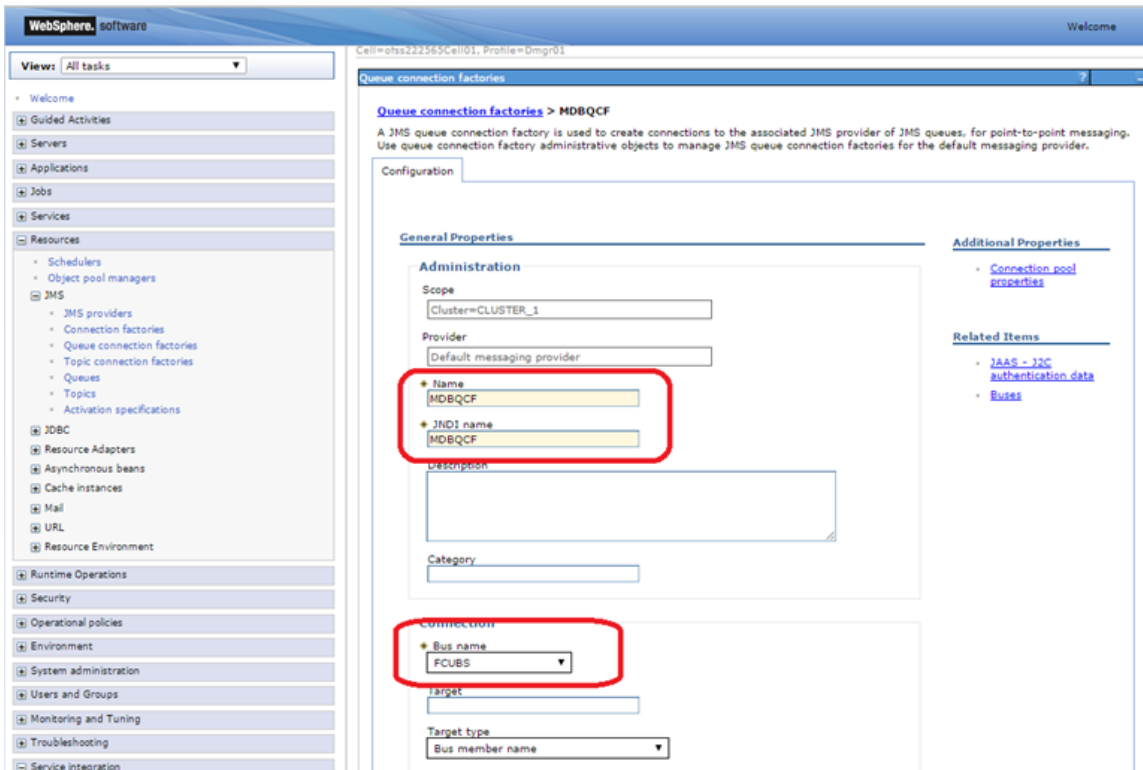
- 1) Navigate to Resources > JMS > Queue Connection Factory > Select Scope as Cluster and Click on New.



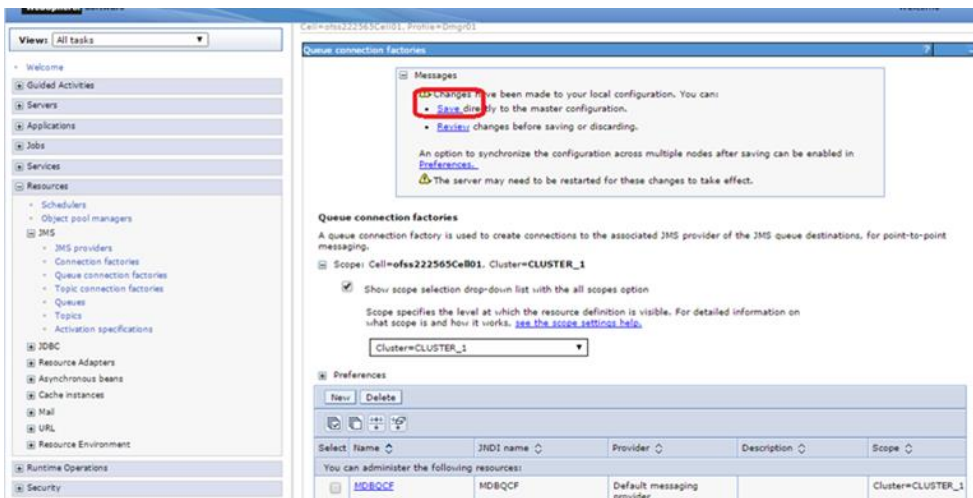
- 2) Select "Default messaging provider" and Click on OK



Enter Name, JNDI Name, Select Bus Name and Click on OK



3) Click on Save



5.2.1 Managed Servers SIB Ports

- 1) Navigate to Servers > Websphere Application Servers > SERVER_NAME > Click on Ports under Communications > Note down the port of SIB_ENDPOINT_ADDRESS

The screenshot shows the WebSphere Administration Console interface. The left sidebar contains a navigation tree with categories like Servers, Clusters, DataPower, Applications, Jobs, Services, and Resources. The main content area displays the 'Ports' configuration for a specific application server. A table lists various ports and their associated transports. The row for 'SIB_ENDPOINT_ADDRESS' is highlighted with a red rectangle.

| Select | Port Name | Host | Port | Transport Details |
|--------------------------|---|--------------------------|-------|--|
| <input type="checkbox"/> | BOOTSTRAP_ADDRESS | ofss220239.in.oracle.com | 9814 | No associated transports |
| <input type="checkbox"/> | CSIV2_SSL_MUTUALAUTH_LISTENER_ADDRESS | ofss220239.in.oracle.com | 9431 | No associated transports |
| <input type="checkbox"/> | CSIV2_SSL_SERVERAUTH_LISTENER_ADDRESS | ofss220239.in.oracle.com | 9430 | No associated transports |
| <input type="checkbox"/> | DCS_UNICAST_ADDRESS | * | 9362 | View associated transports |
| <input type="checkbox"/> | IPC_CONNECTOR_ADDRESS | localhost | 9640 | No associated transports |
| <input type="checkbox"/> | ORB_LISTENER_ADDRESS | ofss220239.in.oracle.com | 9108 | No associated transports |
| <input type="checkbox"/> | OVERLAY_TCP_LISTENER_ADDRESS | * | 11024 | No associated transports |
| <input type="checkbox"/> | OVERLAY_UDP_LISTENER_ADDRESS | * | 11023 | No associated transports |
| <input type="checkbox"/> | SAS_SSL_SERVERAUTH_LISTENER_ADDRESS | ofss220239.in.oracle.com | 9429 | No associated transports |
| <input type="checkbox"/> | SIB_ENDPOINT_ADDRESS | * | 7284 | View associated transports |
| <input type="checkbox"/> | SIB_ENDPOINT_SECURE_ADDRESS | * | 7293 | View associated transports |
| <input type="checkbox"/> | SIB_MQ_ENDPOINT_ADDRESS | * | 5565 | View associated transports |
| <input type="checkbox"/> | SIB_MQ_ENDPOINT_SECURE_ADDRESS | * | 5585 | View associated transports |
| <input type="checkbox"/> | SIP_DEFAULTHOST | * | 5074 | View associated transports |

- 2) Similarly navigate to all other managed servers in the cluster and note down the port of SIB_ENDPOINT_ADDRESS

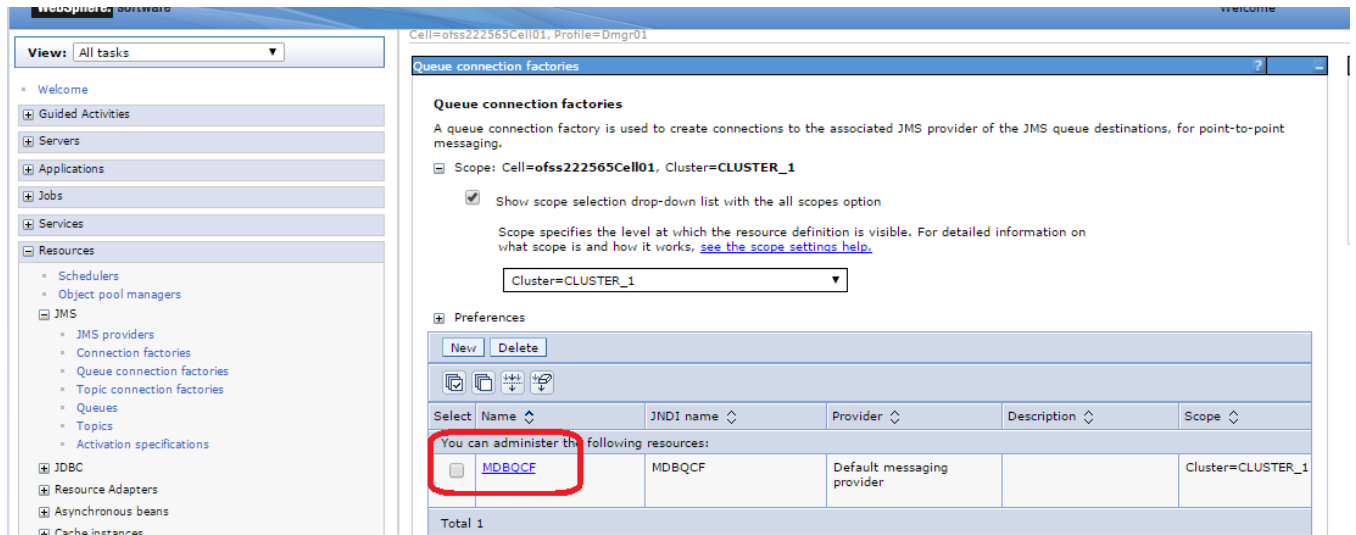
- 3) Prepare the "Provider Endpoint" String as below

<hostname1/IP Address1>:<PORT of SIB_ENDPOINT_ADDRESS>:BootstrapBasicMessaging

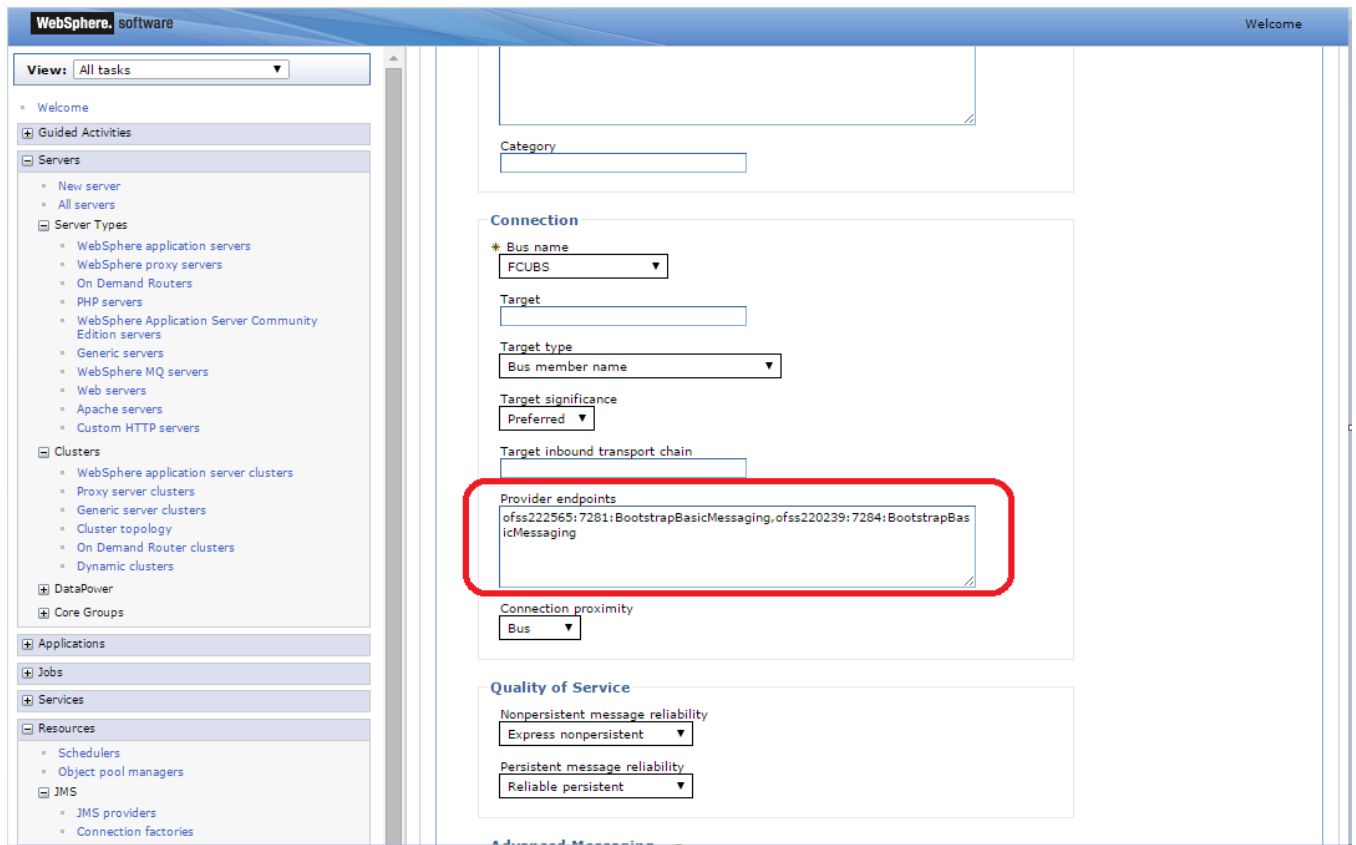
In this case the Provider Endpoint String would be

ofss222565:7281:BootstrapBasicMessaging,ofss220239:7284:BootstrapBasicMessaging

Navigate to Resources > JMS > Queue Connection Factory > Click on newly created connection factory.



4) Update the Provider endpoints as prepared above and Click on OK.



5.3 JMS Activation Specifications for Cluster

- 1) Navigate to Resources > JMS > JMS Providers > Click Default messaging provider for the cluster created

The screenshot shows the WebSphere software interface. On the left is a navigation tree with 'Resources' expanded to 'JMS' > 'JMS providers'. The main content area is titled 'JMS providers' and contains a table of providers. The last row, 'Default messaging provider' with 'Cluster=CLUSTER_1', is highlighted with a red rectangle.

| Select | Name | Description | Scope |
|--------|--|----------------------------|--|
| | Default messaging provider | Default messaging provider | Node=ofss222565Node03,Server=server1 |
| | Default messaging provider | Default messaging provider | Node=ofss222565CellManager01 |
| | Default messaging provider | Default messaging provider | Node=ofss220239Node02,Server=server1 |
| | Default messaging provider | Default messaging provider | Node=ofss222565Node03 |
| | Default messaging provider | Default messaging provider | Node=ofss220239Node02 |
| | Default messaging provider | Default messaging provider | Node=ofss222565Node03,Server=MS_2 |
| | Default messaging provider | Default messaging provider | Cell=ofss222565Cell01 |
| | Default messaging provider | Default messaging provider | Node=ofss220239Node02,Server=MS_1 |
| | Default messaging provider | Default messaging provider | Node=ofss222565CellManager01,Server=dmgr |
| | Default messaging provider | Default messaging provider | Cluster=CLUSTER_1 |

- 2) Under Additional Properties, click Activation specifications.

The screenshot shows the configuration page for a 'Default messaging provider'. The 'Additional Properties' section on the right has 'Activation specifications' highlighted with a red rectangle.

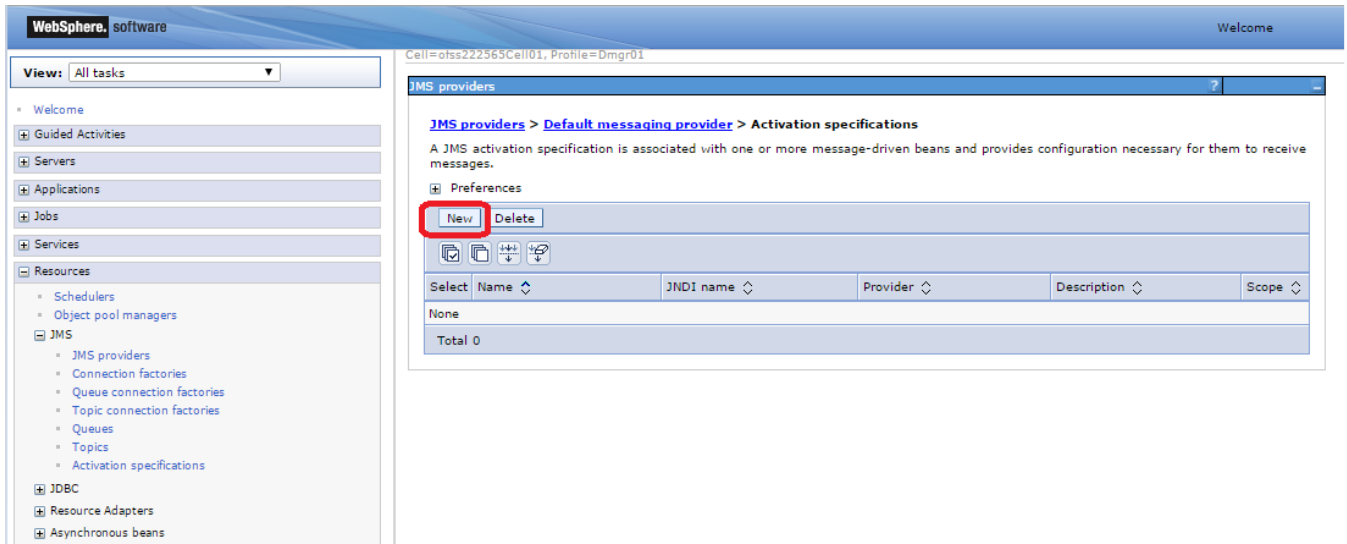
General Properties

- Scope: Cluster=CLUSTER_1
- Name: Default messaging provider
- Description: Default messaging provider

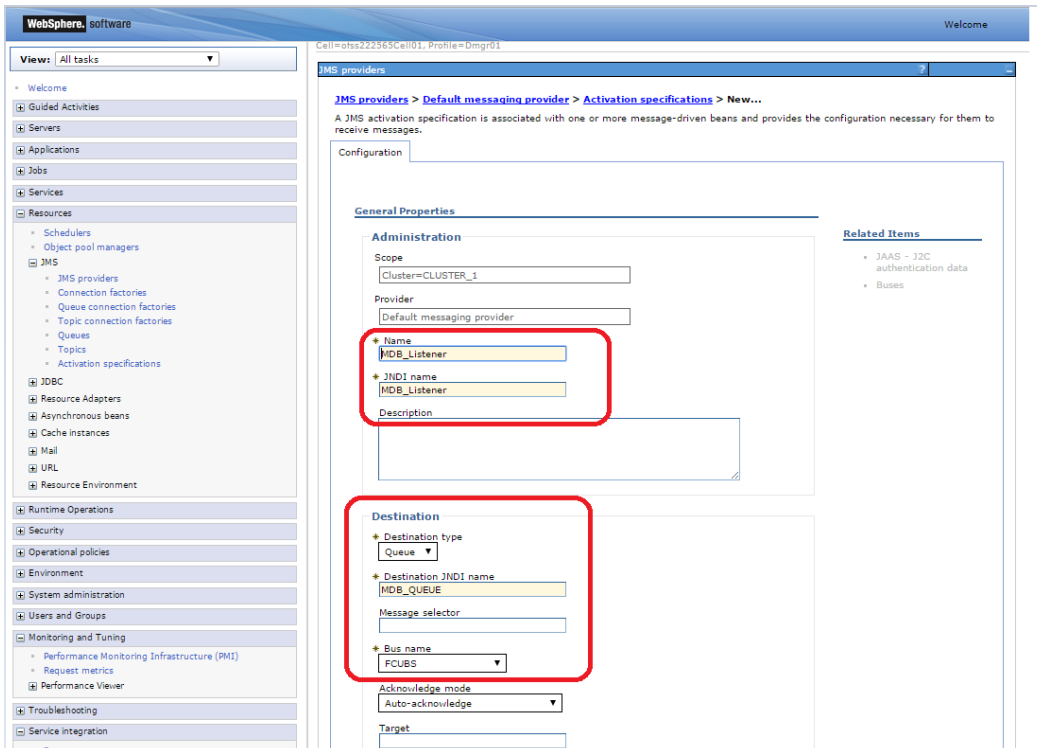
Additional Properties

- Connection factories
- Queue connection factories
- Topic connection factories
- Queues
- Topics
- Activation specifications

3) Click on New.



4) Enter Name, JNDI Name, Select Destination Type as Queue and Enter Queue Name, Select Bus and Click on OK



5) Click on Save.

WebSphere software

Cell=otss222565Cell01, Profile=Dmgr01

View: All tasks

- Welcome
- Guided Activities
- Servers
- Applications
- Jobs
- Services
- Resources
 - Schedulers
 - Object pool managers
 - JMS
 - JMS providers
 - Connection factories
 - Queue connection factories
 - Topic connection factories
 - Queues
 - Topics
 - Activation specifications
 - JDBC
 - Resource Adapters
 - Asynchronous beans
 - Cache instances
 - Mail
 - URL
 - Resource Environment

JMS providers

Messages

Changes have been made to your local configuration. You can:

- Save directly to the master configuration.
- Review changes before saving or discarding.

An option to synchronize the configuration across multiple nodes after saving can be enabled in [Preferences](#).

The server may need to be restarted for these changes to take effect.

JMS providers > Default messaging provider > Activation specifications

A JMS activation specification is associated with one or more message-driven beans and provides configuration necessary for them to receive messages.

Preferences

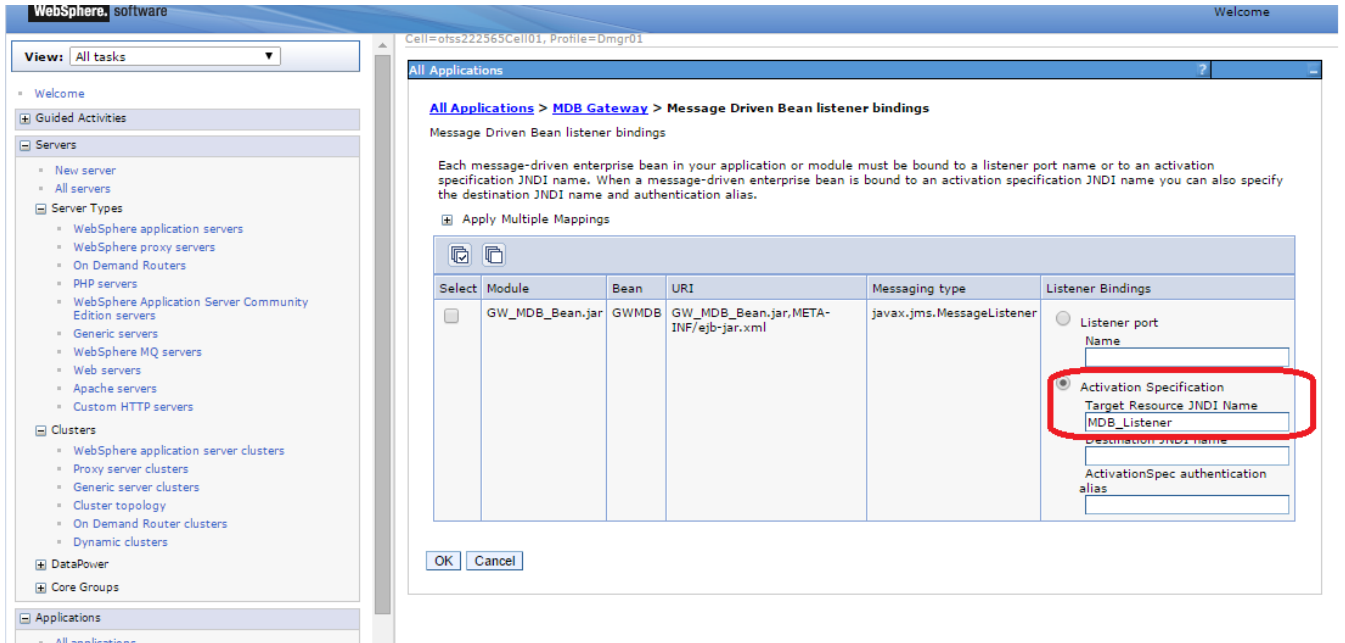
New Delete

| Select | Name | JNDI name | Provider | Description | Scope |
|--------------------------|------------------------------|--------------|----------------------------|-------------|-------------------|
| <input type="checkbox"/> | MDB_Listener | MDB_Listener | Default messaging provider | | Cluster=CLUSTER_1 |

Total 1

6. Application Deployment

- 1) Deploy the EAR with Target as Cluster_1. Except below step rest is usual way of deploying the EAR.
- 2) During deployment give the Activation Specification Created above in the Activation Specification.



6.1 Restart Servers

Restart the Admin and Managed Servers.

7. Frequently Asked Questions

7.1 How to Test the Deployment

- 1) Send a sample message from the any third party application by connecting to

iiop://<hostname or ip>:<BOOTSTRAP_ADDRESS>

eg: iiop://ofss222565:9811

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

Or

- 1) Use the below java program to send a sample message.
- 2) Set Java Home
- 3) Set \$WAS_HOME/runtimes/com.ibm.ws.ejb.thinclient_8.5.0.jar, \$WAS_HOME/runtimes/com.ibm.ws.sib.client.thin.jms_8.5.0.jar and javaee.jar in the CLASSPATH.
- 4) Change the URL, USER, PASSWORD, messageText in the Java Program and Compile.
- 5) Run the program and verify at backend or in MDB log.

```
import java.util.Hashtable;

import javax.jms.JMSEException;

import javax.jms.Queue;

import javax.jms.QueueConnection;

import javax.jms.QueueConnectionFactory;

import javax.jms.QueueSender;

import javax.jms.QueueSession;

import javax.jms.Session;

import javax.naming.Context;

import javax.naming.InitialContext;

import javax.naming.NamingException;

import javax.jms.TextMessage;
```

```

public class JMSQueueTest {
    public JMSQueueTest() {
        super(); }

    private Context ctx;

    private InitialContext initialContext;

    private QueueConnectionFactory queueCF;

    private QueueConnection queueConn;

    private QueueSession queueSession;

    private Queue queue;

    private QueueSender queueSender;

    private final static String JNDI_FACTORY =
"com.ibm.websphere.naming.WsnInitialContextFactory";

    private final static String JMS_FACTORY = "MDBQCF";

    private final static String QUEUE = "MDB_QUEUE";

    private final static String URL = "iiop://ofss222565:9811";

    private TextMessage txtMessage;

    private static String USER = "wasadmin";

    private static String PASSWORD = "wasadmin123";

    private static String messageText = "Hello!";

    private InitialContext getInitialContext(String url) throws Exception {
        Hashtable envHash = new Hashtable();

        envHash.put(Context.INITIAL_CONTEXT_FACTORY, JNDI_FACTORY);

        envHash.put(Context.PROVIDER_URL, url);

        envHash.put(Context.SECURITY_PRINCIPAL, USER);

        envHash.put(Context.SECURITY_CREDENTIALS, PASSWORD);

        try {
            return new InitialContext(envHash);
        }
    }
}

```



```

    } catch (NamingException e) {
        e.printStackTrace();    }
    return new InitialContext(envHash);    }
private void init(Context ctx, String queueName) {
    try {
        ctx = getInitialContext(URL);
        queueCF = (QueueConnectionFactory)ctx.lookup(JMS_FACTORY);
        queueConn = queueCF.createQueueConnection();
        queueSession = queueConn.createQueueSession(false,Session.SESSION_TRANSACTED);
        queue = (Queue)ctx.lookup(queueName);
        queueSender = queueSession.createSender(queue);
        txtMessage = queueSession.createTextMessage();
        queueConn.start();
    } catch (Exception e) {
        e.printStackTrace();    }    }
private void close() throws JMSEException {
    queueSender.close();
    queueSession.close();
    queueConn.close();    }
private void sendMessage(String message) throws JMSEException {
    txtMessage.setText(messageText);
    queueSender.send(txtMessage);    }
public static void main(String[] args) throws Exception {
    JMSQueueTest jmsq = new JMSQueueTest();
    InitialContext ico = jmsq.getInitialContext(URL);
    try {
        jmsq.init(ico, QUEUE);

```

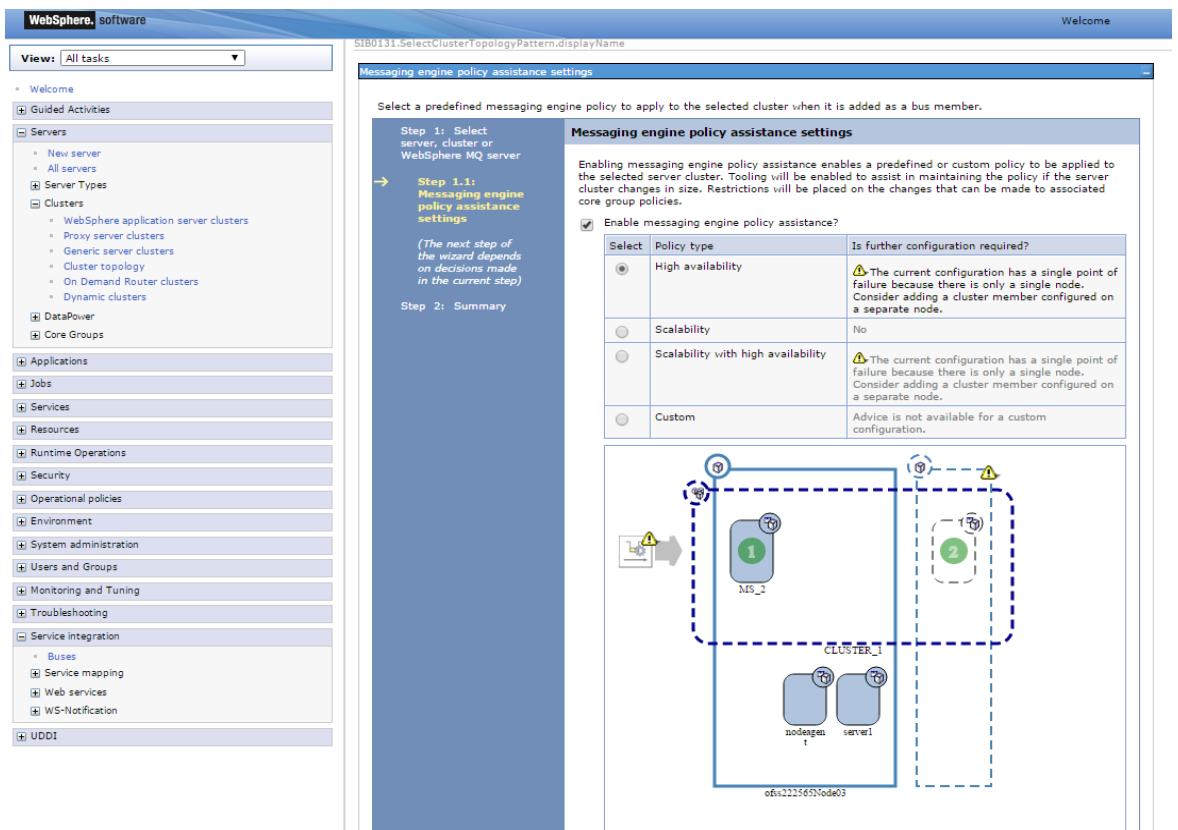
```

    jmsq.sendMessage(messageText);
} catch (JMSEException jmse) {
    jmse.printStackTrace();
} finally {
    jmsq.close();    }
}
}
}

```

7.2 Warning during Bus Member Creation

During Bus member creation Warning is shown in “Is Further configuration Required?”



Examine the resulting diagram and the messages for the selected messaging engine policy type. Act on the messages as follows:

- 1) To add a server or a node, go back and change the cluster topology before you continue with the current procedure.
- 2) To add or remove messaging engines, under Additional Properties, click Messaging engines and use the options on the resulting pane.

- 3) To correct messaging engine policies, under Additional Properties, click Messaging engine policy maintenance and use the options on the resulting pane.

When the "Is further configuration required" column for the selected messaging engine policy type displays No, the configuration is complete.

7.3 Message Engines Not Getting Started

Message engine fail to start and gives SIB Service Bus Unavailable error.

- 1) Ensure that shared folders are empty
- 2) Restart the Managed Servers
- 3) Check the Status of message engines

7.4 Cannot Establish Connection Error

When a message is received on the Queue it throws below error

Caused by: com.ibm.websphere.sib.exception.SIResourceException: CWSIC1001E: A client attempted to connect with a remote messaging engine but the connection cannot be completed. Ensure the messaging engine is started: exception com.ibm.ws.sib.jfapchannel.JFapConnectFailedException: CWSIJ0063E: A network connection to host name localhost/127.0.0.1, port 7,276 cannot be established.

- 1) Ensure that Provider EndPoint contains the SIB_ENDPOINT_ADDRESS of all the servers comma separated
- 2) Eg: <hostname1>:<port1>:BootstrapBasicMessaging, <hostname2>:<port 2>:BootstrapBasicMessaging,
- 3) Restart the servers after making changes

7.5 How to setup for Scheduler/Notifications

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

7.6 What other modules uses JMS Queue's

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

- EMS for swift messages
- GI for upload
- ELCM
- BIP

8. References

- 1) GATEWAY_Applications_WAS.doc
- 2) Resource_Creation_WAS.doc
- 3) OBTR_Application_WAS.doc
- 4) http://129.33.205.81/support/knowledgecenter/SSAW57_8.5.5/com.ibm.websphere.nd.iseries.doc/ae/welc6topmanaging.html
- 5) http://publib.boulder.ibm.com/infocenter/wsdoc400/v6r0/index.jsp?topic=/com.ibm.websphere.pmc.iseries_doc/tasks/tjn9999_.html



OBTR_JMS_Websphere_Configuration

[August] [2021]

Version 14.5.2.0.0

Oracle Financial Services Software Limited
Oracle Park
Off Western Express Highway
Goregaon (East)
Mumbai, Maharashtra 400 063
India

Worldwide Inquiries:

Phone: +91 22 6718 3000

Fax: +91 22 6718 3001

<https://www.oracle.com/industries/financial-services/index.html>

Copyright © 2020, 2021 Oracle and/or its affiliates. All rights reserved.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate failsafe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

This software or hardware and documentation may provide access to or information on content, products and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services.