

Kudos Boards

Create and utilise a new
messaging bus

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Drives Performance
for IBM® Connections

ISW

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Step 1: Create the new Bus for Kudos

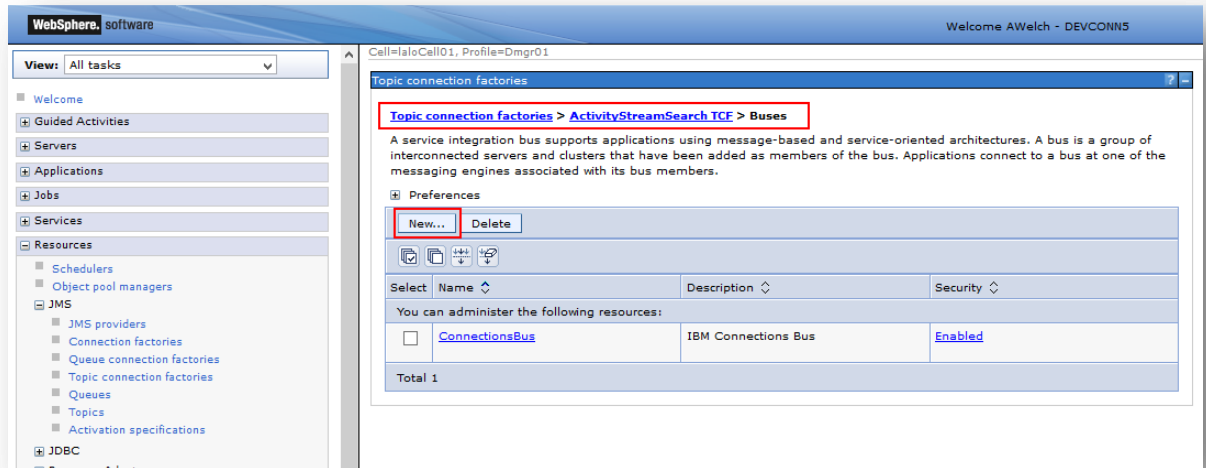
Open and login to the ISC

Open

Resources → JMS → Topic connection factories

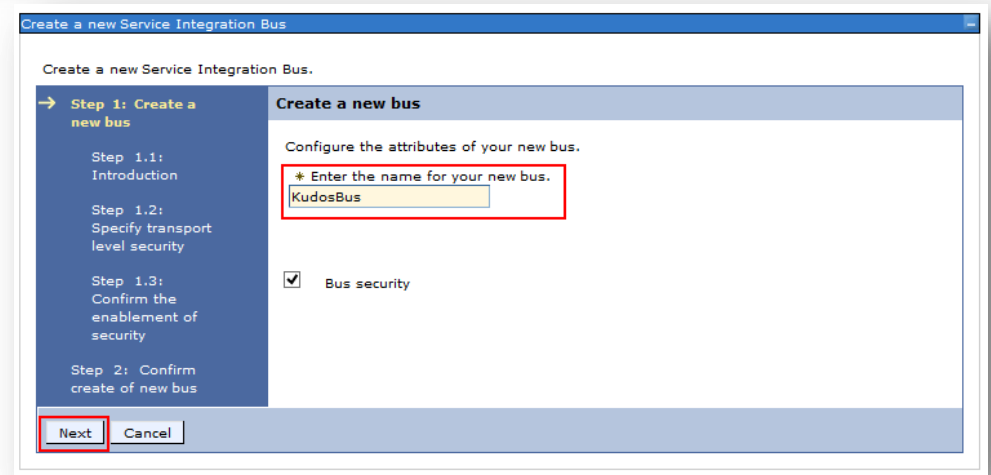
Navigate through one of the factories to the **Buses**

Select **New**



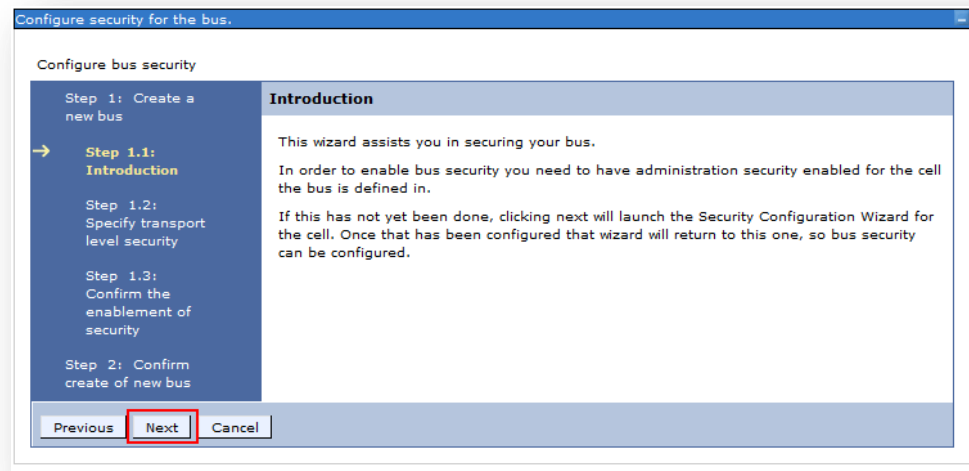
Enter the name: **KudosBus**

Click **Next**

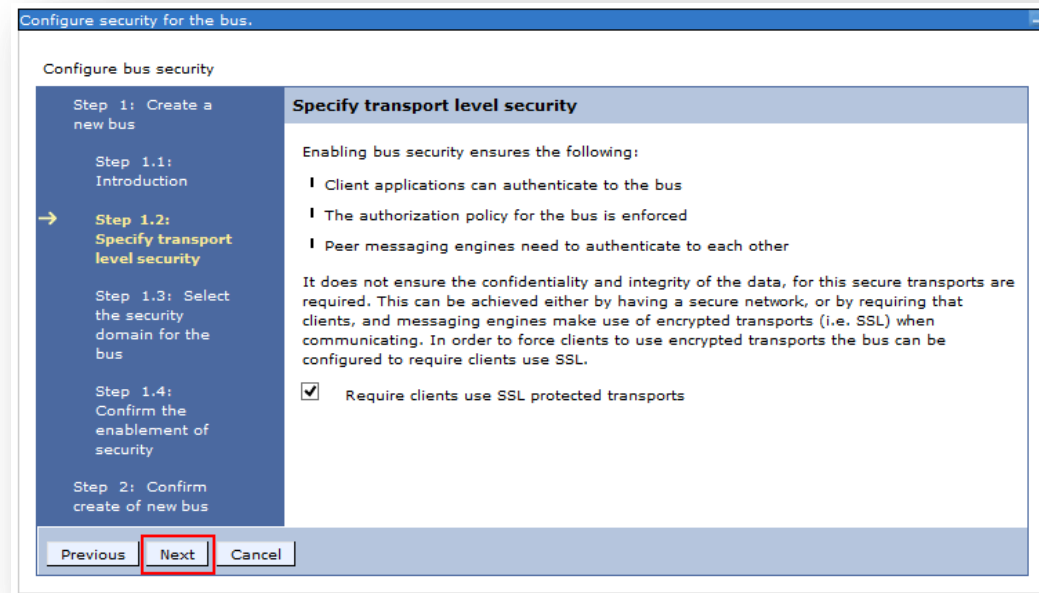




Click **Next**



Click **Next**





Click **Next**

Configure bus security.

Configure security for the bus.

Step 1: Create a new bus

Step 1.1: Introduction

Step 1.2: Specify transport level security

→ Step 1.3: Select the security domain for the bus

(The next step of the wizard depends on decisions made in the current step)

Step 1.4: Confirm the enablement of security

Step 2: Confirm create of new bus

Select the security domain for the bus

You are configuring a bus that consists of bus members that are all Version 7 and above. You can therefore configure the bus to use a security domain other than the global security domain.

If the bus uses a domain other than the global security domain then you cannot add members that are earlier than version 7 to this bus.

Use the global security domain

Inherit the cell level security domain

Use an existing security domain

(none) v

Create a new security domain

Previous **Next** Cancel

Click **Next**

Configure bus security for the bus.

Configure bus security

Step 1: Create a new bus

Step 1.1: Introduction

Step 1.2: Specify transport level security

Step 1.3: Select the security domain for the bus

→ Step 1.4: Confirm the enablement of security

Step 2: Confirm create of new bus

Confirm the enablement of security

The following is a summary of your selections. To complete the bus member creation, click Finish. If there are settings you wish to change, click Previous to review security settings.

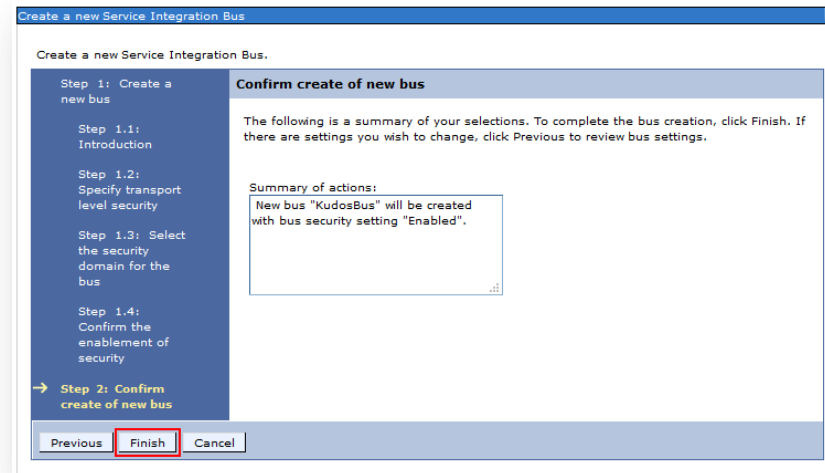
Summary of actions to be performed based on the input provided.

Options	Values
Enable administrative security	Already configured prior to running this wizard
Enable bus security	True
Require use of SSL protected transports	True
Inter-engine Authentication alias	(none)
Bus security domain	Inheriting the cell level domain

Previous **Next** Cancel



Click **Finish**





Step 2: Add the connectionsAdmin User to Security on the Bus

Open the *KudosBus*

Select *Security*

The screenshot shows the "Topic connection factories" configuration window. The breadcrumb path is "Topic connection factories > Boards TCF > Buses > KudosBus". Below the breadcrumb is a descriptive paragraph about service integration buses. The "Configuration" tab is active, showing "Local Topology". The window is divided into several sections: "General Properties" with fields for Name (KudosBus), UUID (DD94DD463B1EA0A0), and Description; "Inter-engine transport chain" with a text box; checkboxes for "Discard messages" (unchecked) and "Configuration reload enabled" (checked); a "Default messaging engine high message threshold" of 50000; and a "Limit the range of available bootstrap members to:" section with three radio button options. On the right, there are expandable sections for "Topology", "Destination resources", "Services", and "Additional Properties". The "Security" option under "Additional Properties" is highlighted with a red box. At the bottom are "Apply", "OK", "Reset", and "Cancel" buttons.



Select

Users and groups in the bus connector role

Topic connection factories

[Topic connection factories](#) > [Boards TCF](#) > [Buses](#) > [KudosBus](#) > [Security for bus KudosBus](#)

Configure the security settings for your service integration bus.

Configuration

[Launch Bus Security Wizard](#)

General Properties

Enable bus security

Inter-engine authentication alias
(none)

Permitted transports

Allow the use of all defined transport channel chains

Restrict the use of defined transport channel chains to those protected by SSL

Restrict the the use of defined transport channel chains to the list of permitted transports

Use the Server ID when running mediations

Mediations authentication alias
(none)

Authorization Policy

[Users and groups in the bus connector role](#)

- [Manage default access roles](#)
- [Manage destination access roles](#)
- [Manage foreign bus access roles](#)
- [Manage temporary destination prefix access roles](#)
- [Manage topic access roles](#)
- [Manage users and groups not known to the user repository](#)

Additional Properties

- [Permitted transports](#)

Related Items

Click **New**

Topic connection factories

[Topic connection factories](#) > [Boards TCF](#) > [Buses](#) > [KudosBus](#) > [Security for bus KudosBus](#) > [Users and groups in the bus connector role](#)

Users in the bus connector role are able to connect to the bus to perform messaging operations. Users can have this role either by specifically having that role, or because they are in a group with that role.

⊕ Preferences

[New...](#) [Delete](#)

Select	Name	Type
<input type="checkbox"/>	Server	Group

Total 1



Select **Users**

Search for connectionsAdmin

Click **Next**

This screenshot shows the "SIB Security Resource Wizard" window at Step 1: Search for Users or Groups. The "Resource" field contains "KudosBus". Three radio buttons are present: "The built in special groups", "Groups", and "Users". The "Users" radio button is selected and highlighted with a red box. Below it, the "Search pattern" field contains "connections*" and the "Maximum number of search results to display" field contains "20". The "Next" button is visible at the bottom left.

SIB Security Resource Wizard

SIB Security Resource Wizard

→ Step 1: Search for Users or Groups

Step 2: Select Users or Groups

Step 3: Summary

Search for Users or Groups

Use this step to search for the users and groups to give access to for the specified resource.

Resource
KudosBus

The built in special groups

Groups

Users

* Search pattern
connections*

* Maximum number of search results to display
20

Next Cancel

Check the **connectionsAdmin**

Click **Next**

This screenshot shows the "SIB Security Resource Wizard" window at Step 2: Select Users or Groups. The "Resource" field contains "KudosBus". A table with two columns, "Select" and "Name", is displayed. The "connectionsadmin" entry has a checked checkbox in the "Select" column and is highlighted with a red box. The "Next" button at the bottom is also highlighted with a red box.

SIB Security Resource Wizard

SIB Security Resource Wizard

Step 1: Search for Users or Groups

→ Step 2: Select Users or Groups

Step 3: Summary

Select Users or Groups

Use this step to select the users and groups to grant access for.

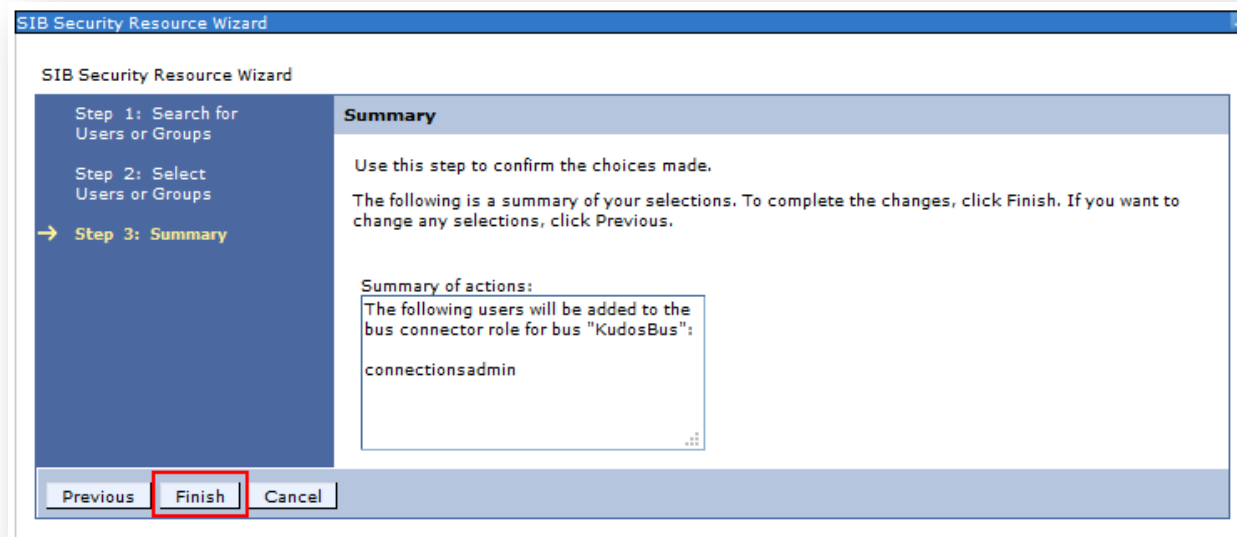
Resource
KudosBus

Select	Name
<input checked="" type="checkbox"/>	connectionsadmin

Previous Next Cancel



Click **Finish**

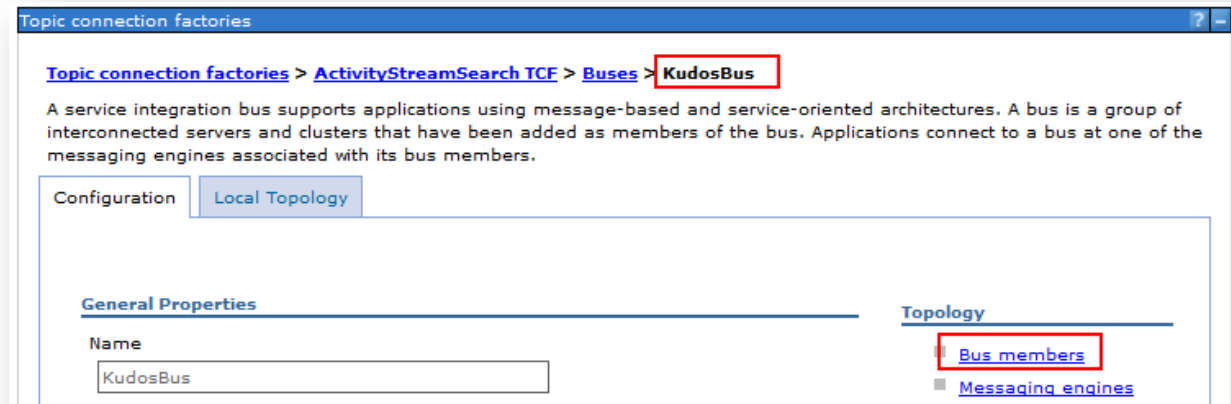




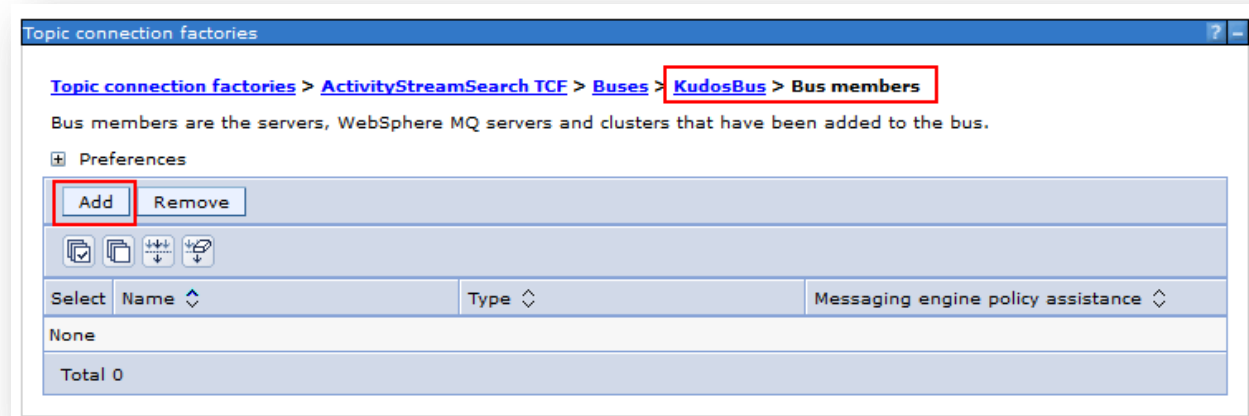
Step 3: Add a new member to the KudosBus

Open the new *KudosBus*

Select *Bus members*



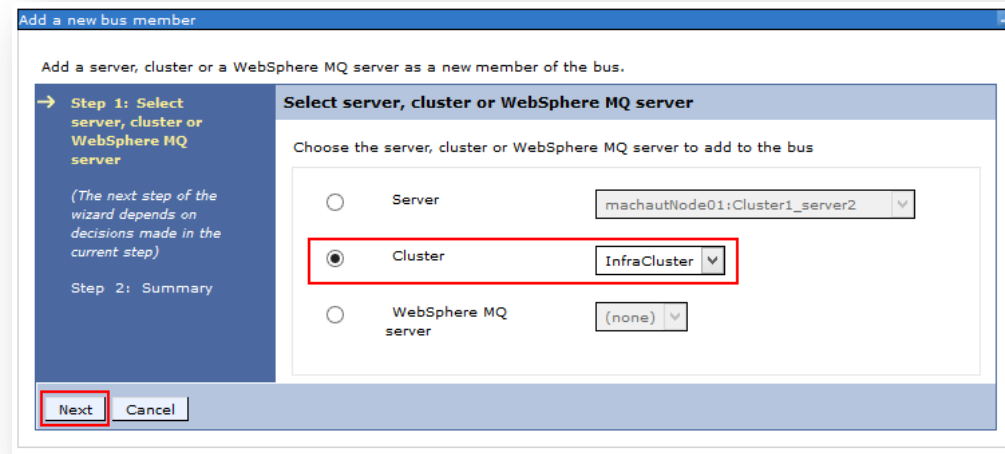
Click *Add*





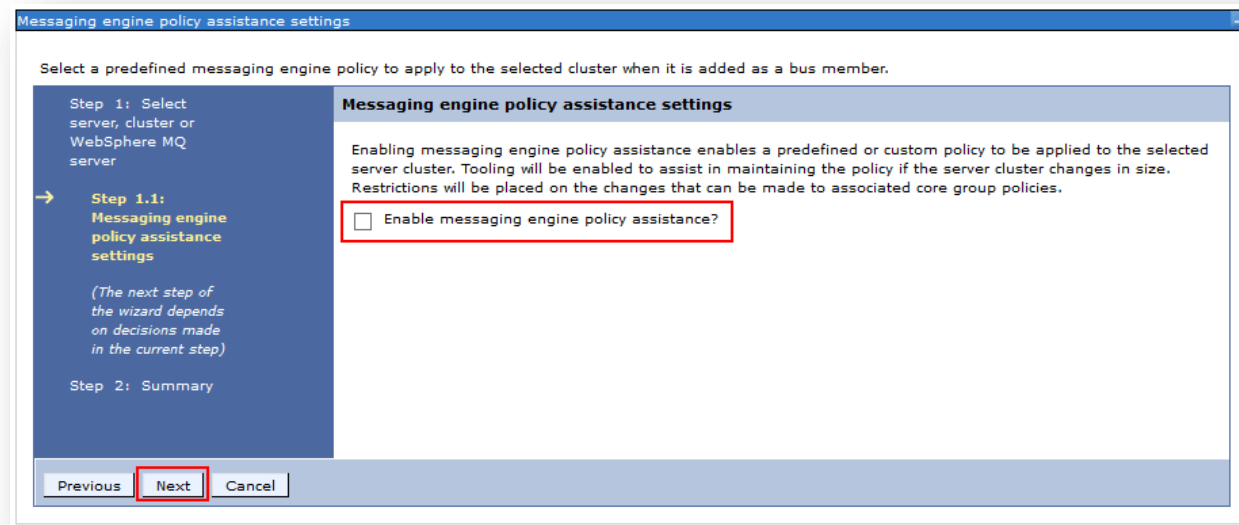
Select the Cluster running the Kudos application.

Please note: this is normally the InfraCluster but might be a custom cluster such as WidgetCluster etc



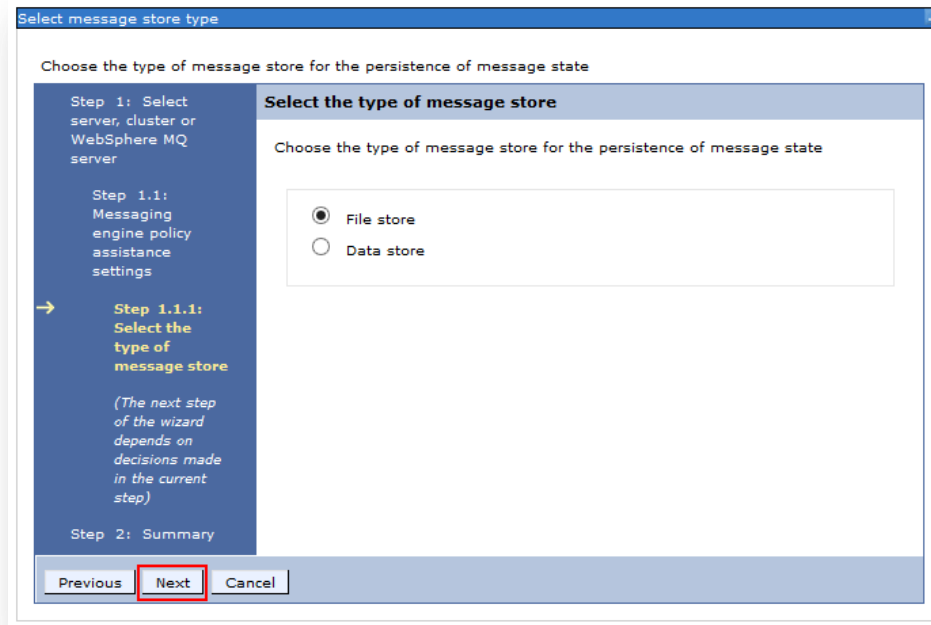
De-select 'Enable messaging...'

Click **Next**





Click **Next**





Enter the properties as follows:

Log

Log size: 500

Log directory path: \${MESSAGE_STORE_PATH}/KudosBus-InfraCluster/log

Store

De-select 'Same settings for permanent and temporary stores'

Permanent Store

Minimum: 500

Maximum: 3000

Permanent store directory path:

\${MESSAGE_STORE_PATH}/KudosBus-InfraCluster/store

Temporary Store

Minimum: 500

Maximum: 1000

\${MESSAGE_STORE_PATH}/KudosBus-InfraCluster/store



Click **Next**

Tune application server for messaging performance.

Step 1: Select server, cluster or WebSphere MQ server

Step 1.1: Messaging engine policy assistance settings

Step 1.1.1: Select the type of message store

Step 1.1.2: Configure file store

→ Step 1.1.3: **Tune performance parameters**

Step 2: Summary

Tune performance parameters

To improve performance of messaging within the application server, the proposed Java Virtual Machine settings are advised. By default the initial and maximum JVM settings will remain unchanged, select the 'Change heap sizes' checkbox to modify the settings to the proposed values. On machines with low amounts of physical memory size or large numbers of application server instances, it may be necessary to reduce the proposed values accordingly.

Change heap sizes

	Current heap sizes	Proposed heap sizes
Initial JVM heap size	<input type="text"/> MB	<input type="text" value="1024"/> MB
Maximum JVM heap size	<input type="text"/> MB	<input type="text" value="1024"/> MB

Previous **Next** Cancel

Click **Finish**

Add a new bus member

Add a server, cluster or a WebSphere MQ server as a new member of the bus.

Step 1: Select server, cluster or WebSphere MQ server

Step 1.1: Messaging engine policy assistance settings

Step 1.1.1: Select the type of message store

Step 1.1.2: Configure file store

Step 1.1.3: Tune performance parameters

→ Step 2: **Summary**

Summary

The actions that will be performed when selecting "Finish".

Adding server cluster "InfraCluster" as member of bus "KudosBus".

File store settings:

- Log size "500"
- Log directory path "\${MESSAGE_STORE_PATH}/KudosBus-InfraCluster/log"
- Minimum permanent store size "500"
- Maximum permanent store size "3000"
- Permanent store directory path "\${MESSAGE_STORE_PATH}/KudosBus-InfraCluster/store"
- Minimum temporary store size "500"
- Maximum temporary store size "1000"
- Temporary store directory path "\${MESSAGE_STORE_PATH}/KudosBus-InfraCluster/store"

Previous **Finish** Cancel



You should now see the new Bus member created in the KudosBus:

The screenshot shows a web application window titled "Topic connection factories". The breadcrumb navigation is "Topic connection factories > ActivityStreamSearch TCF > KudosBus > Bus members". Below the breadcrumb, there is a text description: "Bus members are the servers, WebSphere MQ servers and clusters that have been added to the bus." There is a "Preferences" section with "Add" and "Remove" buttons. Below that is a table with columns: "Select", "Name", "Type", and "Messaging engine policy assistance". The table contains one row: "InfraCluster", "Cluster", and "Disabled". A "Total 1" summary is shown at the bottom of the table.

Select	Name	Type	Messaging engine policy assistance
<input type="checkbox"/>	InfraCluster	Cluster	Disabled



Step 4: Update the Boards TCF to use the new Bus

Open the *Boards TCF*

Bus name: *KudosBus*

The screenshot displays the JBoss JMS console interface. On the left, a navigation tree is visible with 'Topic connection factories' selected. The main content area shows the configuration for the 'Boards TCF'. The 'General Properties' section includes fields for 'Scope' (Cell=laloCell01), 'Provider' (Default messaging provider), '* Name' (Boards TCF), '* JNDI name' (jms/isw/boards/tcf), 'Description' (Topic Connections Factory for Kudos Boards), and 'Category'. The 'Connection' section shows the '* Bus name' dropdown menu set to 'KudosBus'.



Select Durable subscription home
<ClusterWithKudos>.000-KudosBus
ie InfraCluster.000-KudosBus

Durable Subscription

Client identifier
external

Durable subscription home
InfraCluster.000-KudosBus

Click **OK**

Security settings

Select the authentication values for this resource.

Authentication alias for XA recovery
(none)

Mapping-configuration alias
DefaultPrincipalMapping

Container-managed authentication alias
connectionsAdmin

Apply **OK** Cancel



Step 5: Update the Boards Activation Spec to use the new Bus

Open the *Boards Activation Spec*

Cell=laloCell01, Profile=Dmgr01

Activation specifications

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

Scope: Cell=laloCell01

Show scope selection drop-down list with the all scopes option

Scope specifies the level at which the resource definition is visible. For detailed information on what scope is and how it works, [see the scope settings help](#).

Cell=laloCell01

Preferences

New Delete

Select	Name	JNDI name	Provider	Description	Scope
You can administer the following resources:					
<input type="checkbox"/>	Activities Platform Commands Consumer AS	jms/connections/activities/command/consumer/as	Default messaging provider		Cell=laloCell01
<input type="checkbox"/>	ActivityStreamSearch Admin Activation Spec	jms/connections/news/search/admin/as	Default messaging provider		Cell=laloCell01
<input type="checkbox"/>	ActivityStreamSearch FollowingService Activation Spec	jms/connections/news/search/followingservice/as	Default messaging provider		Cell=laloCell01
<input type="checkbox"/>	Blogs Platform Commands Consumer AS	jms/connections/blogs/command/consumer/as	Default messaging provider		Cell=laloCell01
<input type="checkbox"/>	Boards Activation Spec	jms/isw/boards/as	Default messaging provider	Activation specification Kudos Boards	Cell=laloCell01



Bus name: **KudosBus**

Activation specifications

[Activation specifications](#) > Boards Activation Spec

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

Configuration

General Properties

Administration

Scope

Provider

* Name

* JNDI name

Description

Destination

* Destination type

* Destination JNDI name

Message selector

* Bus name

Acknowledge mode

Related Items

- [JAAS - J2C authentication data](#)
- [Buses](#)



Durable subscription home:

<ClusterWithKudos>.000-KudosBus

ie InfraCluster.000-KudosBus

Click **OK**

Subscription Durability

Subscription durability
Nondurable

Subscription name
[]

Client identifier
[]

Durable subscription home
InfraCluster.000-KudosBus

Pass message payload by reference

Applications using this Activation Specification to receive messages:
- do not modify the data Object obtained from a JMS Object Message. The data Object is treated as read only. Read the help before selecting this option.

Applications resending messages that were originally received using this Activation Specification:
- may replace the data Object in a JMS Object Message but do not modify the data Object once it is contained in the Message
- may replace the byte array in a JMS Bytes Message, but only using a single call to writeBytes(byte[]) and do not modify the byte array once it is contained in the Message. Read the help before selecting this option.

Advanced

Share durable subscriptions
In cluster

Share data source with CMP

Read ahead
Default

Always activate MDBs in all servers

Retry interval
30 Seconds

Security settings

Select the authentication values for this resource.

Authentication alias
connectionsAdmin

Apply OK Reset Cancel



Step 6: Update the Boards Event Topic to use the new Bus

Open the **Boards Event Topic**

Bus name: **KudosBus**

The screenshot shows a web-based configuration interface for a JMS topic. The title bar reads "Topics". The breadcrumb navigation is "Topics > Boards Event Topic". Below the title is a brief description: "A JMS topic is used as a destination for publish/subscribe messaging. Use topic destination administrative objects to manage JMS topics for the default messaging provider." The main content area is divided into two sections: "General Properties" and "Connection".
General Properties
- **Administration**
 - Scope: Cell=laloCell01
 - Provider: Default messaging provider
 - Name: Boards Event Topic
 - JNDI name: jms/isw/boards/topic
 - Description: Topic for Kudos Boards events
- **Related Items**
 - Buses
Connection
- Topic name: Boards Event Topic
- **Bus name**: KudosBus (highlighted with a red box)
- Topic space: kudos.boards
- JMS delivery mode: Application



Select Topic space → Create Service Integration Bus destination

A screenshot of a "Connection" dialog box. It has three main sections: "Topic name" with a text field containing "Boards Event Topic"; "Bus name" with a dropdown menu showing "KudosBus"; and "Topic space" with a dropdown menu. The "Topic space" dropdown is open, showing a list of options: "kudos.boards", "Select...", "Default.Topic.Space", "kudos.boards", "Create Service Integration Bus destination" (highlighted in blue), and "other, please specify". A red box highlights the entire "Topic space" section.

Identifier: kudos.boards

Click **Next**

A screenshot of a "Create new topic space" dialog box. The title bar says "Create new topic space". Below the title bar, it says "Create a new topic space for publish/subscribe messaging." There are two steps: "Step 1: Set topic space Attributes" (selected) and "Step 2: Confirm topic space creation". The "Set topic space Attributes" section has a sub-section "Configure the attributes of your new topic space" with two fields: "Identifier" (containing "kudos.boards") and "Description" (empty). A red box highlights the "Identifier" field. At the bottom, there are "Next" and "Cancel" buttons, with "Next" highlighted by a red box.



Click **Finish**

This is a screenshot of a dialog box titled "Create new topic space". The dialog has a blue header and a light blue body. On the left side, there is a vertical navigation pane with two steps: "Step 1: Set topic space Attributes" and "Step 2: Confirm topic space creation". "Step 2" is highlighted with a yellow arrow. The main area of the dialog is titled "Confirm topic space creation" and contains the following text: "The following is a summary of your selections. To complete creation of the topic space, click Finish. If you want to change any selections, click Previous." Below this text is a box titled "Summary of actions:" which contains two lines of text: "New topic space 'kudos.boards' will be created." and "Publication points for 'kudos.boards' will be created on all bus members of bus 'KudosBus'." At the bottom of the dialog, there are three buttons: "Previous", "Finish", and "Cancel". The "Finish" button is highlighted with a red rectangular box.

The new topic should be selected

Click **OK**

This is a screenshot of a configuration dialog box. It has a white background and a light blue border. The dialog contains several fields: "Bus name" with a dropdown menu showing "KudosBus"; "Topic space" with a dropdown menu showing "kudos.boards" (this field is highlighted with a red rectangular box); "JMS delivery mode" with a dropdown menu showing "Application"; "Time to live" with a text input field and the label "milliseconds"; "Message priority" with a text input field; and an "Advanced" section with a "Read ahead" dropdown menu showing "Inherit from connection factory". At the bottom of the dialog, there are three buttons: "Apply", "OK", and "Cancel". The "OK" button is highlighted with a red rectangular box.



Step 7: Ensure the Nodes are Fully Synchronised

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
You can administer the following resources:					
<input type="checkbox"/>	laloCellManager01	lalo.internal.isw.net.au	ND 8.5.5.4	TCP	↔
<input checked="" type="checkbox"/>	laloNode01	lalo.internal.isw.net.au	ND 8.5.5.4	TCP	↔
<input checked="" type="checkbox"/>	machautNode01	machaut.internal.isw.net.au	ND 8.5.5.4	TCP	↔
<input type="checkbox"/>	webserver1_node	lalo.internal.isw.net.au	Not applicable	TCP	

Total 4



Step 8: Restart the Server(s) running the Kudos Boards application

Open
Server Types →
WebSphere
application servers

Select the Server(s)
running **Kudos**
Boards

Click **Restart**

Cell=laloCell01, Profile=Dmgr01

Application servers

Application servers

Use this page to view a list of the application servers in your environment and the status of each of these servers. You can also use this page to change the status of a specific application server.

Preferences

New... Delete Templates... Start Stop **Restart** ImmediateStop Terminate

Select	Name	Node	Host Name	Version	Cluster Name	Status
<input type="checkbox"/>	Cluster1_server1	laloNode01	lalo.internal.isw.net.au	ND 8.5.5.4	Cluster1	➡
<input type="checkbox"/>	Cluster1_server2	machautNode01	machaut.internal.isw.net.au	ND 8.5.5.4	Cluster1	✖
<input type="checkbox"/>	Cluster2_server1	laloNode01	lalo.internal.isw.net.au	ND 8.5.5.4	Cluster2	➡
<input type="checkbox"/>	Cluster2_server2	machautNode01	machaut.internal.isw.net.au	ND 8.5.5.4	Cluster2	✖
<input checked="" type="checkbox"/>	InfraCluster_server1	laloNode01	lalo.internal.isw.net.au	ND 8.5.5.4	InfraCluster	➡
<input type="checkbox"/>	InfraCluster_server2	machautNode01	machaut.internal.isw.net.au	ND 8.5.5.4	InfraCluster	✖
<input type="checkbox"/>	server1	machautNode01	machaut.internal.isw.net.au	ND 8.5.5.4		✖
<input type="checkbox"/>	server1	laloNode01	lalo.internal.isw.net.au	ND 8.5.5.4		✖

Total 8