This word document details the steps involved for setting up and using remote JMS between 2 jboss eap 6.0 server instances running on standalone mode.The 3 projects that are involved for this work are as follows

1. switchyard-RemoteJMSWriter – Deployed to JBOSS server instance 2(name:standalone1).
2. switchyard-myJmsReceiver - Deployed to JBOSS server instance 1(name:standalone).
3. switchyard-myJmsReceiverWD - - Deployed to JBOSS server instance 1(name:standalone).

The server details are as follows

JBOSS server instance 1(name:standalone) – This is the server instance that will be the receiver and will have the Queue sitting on this server instance

JBOSS server instance 2(name:standalone1) – This is the server instance that will be the sender and will be sending messages to the remote Queue sitting on this server instance 1

**Configuration changes on server instance 1**

1. Setting up the queue, this can be done manually via the standalone-full.xml file or via the admin console. For this project I did it manually via the standalone-full.xml file.
2. The snippet to add to the standalone-full.xml file is as follows

 <jms-destinations>

 <jms-queue name="intPO">

 <entry name="queue/intPO"/>

 <entry name="java:jboss/exported/jms/queue/intPO"/>

 </jms-queue>

 </jms-destinations>

 </hornetq-server>

Where intPO is the name of the Queue and entry name has to be in the format shown above.

1. If no authentication is needed set the following

<hornetq-server>

 <persistence-enabled>true</persistence-enabled>

 **<security-enabled>false</security-enabled>**

**Configuration changes on server instance 2**

There are multiple steps involved for this part of the work and the steps are as follows:

**Non Managed Connections**

1. Add a new connection factory under <jms-connection-factories> in standalone-full.xml

<connection-factory name="ConnectionFactory1NonMgmt">

 <connectors>

 <connector-ref connector-name="remote-jms-nonmgmt"/>

 </connectors>

 <entries>

 <entry name="java:/ConnectionFactory1NonMgmt"/>

 </entries>

 </connection-factory>

1. Add the connector details as following

<subsystem xmlns="urn:jboss:domain:messaging:1.2">

.

. <connectors>

 <connector name="remote-jms-nonmgmt">

 <factory-class>org.hornetq.core.remoting.impl.netty.NettyConnectorFactory</factory-class>

 <param key="host" value="localhost"/>

 <param key="port" value="5445"/>

 </connector>

.

.

<netty-connector name="netty" socket-binding="messaging"/>

**Managed Connections**

1. Add a new pooled connection factory under <jms-connection-factories> in standalone-full.xml <jms-connection-factories> in standalone-full.xml.

<!--

 <pooled-connection-factory name="ConnectionFactory1Mgmt">

 <user>jmsuser</user>

 <password>jmspwd</password>

 <transaction mode="xa"/>

 <connectors>

 <connector-ref connector-name="remote-jms-mgmt"/>

 </connectors>

 <entries>

 <entry name="java:/ JmsXA"/>

 </entries>

 </pooled-connection-factory>

 -->

The <user> and <password> are not a required field and if needed will have to be setup as a application user for this setup to work, using either UI or add-user command from the CLI.If no username/pwd are needed make sure to set up the following:

If no authentication is needed set the following

<hornetq-server>

 <persistence-enabled>true</persistence-enabled>

 **<security-enabled>false</security-enabled>**

1. Add the connector details as following

<subsystem xmlns="urn:jboss:domain:messaging:1.2">

.

. <connectors>

<netty-connector name="remote-jms-mgmt" socket-binding=" remote-jms-binding "/>

1. Add the following under

<socket-binding-group name="standard-sockets" default-interface="public" port-offset="${jboss.socket.binding.port-offset:100}">

.

.

.

<outbound-socket-binding name="remote-jms-binding">

 <remote-destination host="localhost" port="5445"/>

 </outbound-socket-binding>

Alternate way if you don’t want to configure explicit “outbound-socket-binding”, would be to use the following

. <connectors>

 <connector name=" remote-jms-binding ">

 <factory-class>org.hornetq.core.remoting.impl.netty.NettyConnectorFactory</factory-class>

 <param key="host" value="localhost"/>

 <param key="port" value="5445"/>

 </connector>