

Suggestions for modifying an IBM MQ JMS client application to use JNDI to do lookups for a ConnectionFactory and a Destination

<https://www.ibm.com/support/pages/node/6980871>

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+++ Question +++

You have an MQ Client application located in host-1 that uses JMS and connects directly into a queue manager located in remote host-2, perhaps by passing connection parameters or by hardcoding the connection data into the application.

Now you want to modify this application to use the JNDI, and do lookups for the ConnectionFactory (connection information for the queue manager) and the Destination (queue or topic).

You would like to get suggestions on how to add the handling of JNDI in your application.

+++ Answer +++

+ Step 1: Look at the following MQ samples:

JmsProducer.java

JmsJndiProducer.java

... which are provided in the fileset:

Linux: MQSeriesSamples*

... and are located in:

/opt/mqm/samp/jms/samples

AIX: mqm.base.samples

... and are located in:

/usr/mqm/samp/jms/samples

Windows: Development Toolkit

... and are located in:

C:\Program Files\IBM\MQ\tools\jms\samples

+ Step 2: Start by reviewing the following sample that does NOT use JNDI

JmsProducer.java

Hopefully, your current MQ Client application looks similar to this sample.

This would provide a "baseline".

+ Step 3: Then look at the similar sample but that uses a JNDI

JmsJndiProducer.java

Then you can compare what is different regarding how to use the JNDI and do the look ups.

+ Step 4: Now your question might be: how do I create a JNDI?

The easiest way is to use a File System Context for JNDI, which is simply a text file called:

.bindings

(Notice that it begins with a dot, thus, in Linux and AIX it is hidden if you use plain "ls").

The following 2 tutorials provide 2 different approaches for

The easiest way:

<https://www.ibm.com/support/pages/node/6956770>

Detailed example of running IBM MQ Explorer to setup JMS Administered objects in the JNDI .bindings file and test with sample JmsJndiProducer for queue and topic

You can run it in Windows, generate a .bindings in Windows and then copy the .bindings file to another host.

This uses only a command line interface, but it is very strict with the syntax and it is not user friendly.

<https://www.ibm.com/support/pages/node/481027>

Detailed example of running IBM MQ JMSAdmin to setup JMS Administered objects in the JNDI .bindings file and test with sample JmsJndiProducer for queue and topic

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