

Using the JMS on JBoss AS 7.1.1 remotely

This is a short paper which show you how to use the JMS on JBoss AS 7.1.1 remotely. First of all you have to do some changes on the server configuration files. You have to create a new user on the server and optional assign some roles to this user. Start your JBoss AS server using the **standalone-full.xml** file configuration. Go to your **JBOSS_HOME/bin** folder and start the **add-user.sh** script on Linux or **add-user.bat** on Windows. Create a new **Application User** and optional assign some roles to this user. The new created user can be found on the **JBOSS_HOME/standalone/configuration/application-users.properties** file which is a text file. If you open this file you will find a line containing the user name you just created along with the password as a hex **MD5** signature.

Example:

```
# A utility script is provided which can be executed from the bin folder to add the users: -
# - Linux
# bin/add-user.sh
#
# - Windows
# bin\add-user.bat
# # The following illustrates how an admin user could be defined, this
# is for illustration only and does not correspond to a usable password.
#
#admin=2a0923285184943425d1f53ddd58ec7a
gmax=b26cca0b69f25c1cc0991d6a15438057
```

The **JBOSS_HOME/standalone/configuration/application-roles.properties** file contain the roles assigned to application users. You can add roles to your created user by editing this file or when you create the user.

Example:

```
# A utility script is provided which can be executed from the bin folder to add the users: -
# - Linux
# bin/add-user.sh
#
# - Windows
# bin\add-user.bat
#
# The following illustrates how an admin user could be defined.
#
#admin=PowerUser,BillingAdmin,
#guest=guest
gmax=user
```

Now open the file **JBOSS_HOME/standalone/configuration/standalone-full.xml** and add your user roles to permissions elements. By default the role assigned is **guest** and I added the role **user**. The types **send** and **consume** are for permissions on Point-To-Point (Queue) messages while the **createNonDurableQueue** and **deleteNonDurableQueue** are for permissions on Pub/Sub (Topic) messages.

Example:

```
<security-settings>
  <security-setting match="#">
    <permission type="send" roles="guest user"/>
    <permission type="consume" roles="guest user"/>
    <permission type="createNonDurableQueue" roles="guest user"/>
    <permission type="deleteNonDurableQueue" roles="guest user"/>
  </security-setting>
</security-settings>
```

Restart the JBoss AS. Open the Java project on the **Eclipse IDE** and fix the **Java Build Path** to contain the **JBoss 7.1.1 Runtime** jars and the **jboss-client.jar** located in **JBOSS_HOME/bin/client** folder. On the class **RemoteConnection.java** change the **username** and **password** for your user and the **URL** of your server if he is not running on the localhost. **QueueClient.java** and **TopicClient.java** are used to test the **JMS** on both Point-To-Point and Pub/Sub systems. Both have a main method and can be started as simple Java application. Before run your tests do not forget to start the **JBoss** server using the **standalone-all.xml** as configuration file by open lunch configuration option on the server and use the following parameter **--server-config=standalone-full.xml**

That's all
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