

Summary

Apache Tomcat has the ability to run as a Windows Service. This can be useful if you want to run the Jazz Team Server on a Windows-based machine without having to be logged on.

More information

Note: This tech note assumes that your Jazz Team Server deployment is rooted at `C:\program files\IBM\RQM20`; adjust your paths accordingly based on your actual root directory.

1. Start a windows command prompt and navigate to `C:\program files\IBM\RQM20\server\tomcat\bin\` and run the program `service.bat`. Install the Tomcat service `tomcat5` by running this command:

```
C:> service.bat install tomcat5
```

2. If you are using Derby as your the backing database for your Jazz Repository, edit `C:\program files\IBM\RQM20\server\conf\jazz\teamserver.properties` to make the DB location an absolute path. For example, change the value of `db.jdbc.location` to `C:\\program files\\IBM\\RQM20\\server\\repositoryDB`.
3. Execute `C:\program files\IBM\RQM20\server\tomcat\bin\tomcat5w.exe` to configure the service.
4. On the 'Java' tab, uncheck 'Use default':
 - o Change the 'Java Virtual Machine' path to be `C:\Program Files\IBM\RQM20\server\jre\bin\j9vm\jvm.dll`.
 - o Replace the default 'Java Options' with the following:

```
-Dcatalina.base=C:\Progra~1\IBM\RQM20\server\tomcat
-Dcatalina.home=C:\Progra~1\IBM\RQM20\server\tomcat
-Djava.endorsed.dirs=C:\Progra~1\IBM\RQM20\server\tomcat\common\endorsed
-Djava.io.tmpdir=C:\Progra~1\IBM\RQM20\server\tomcat\temp
-Dcom.ibm.team.server.configURL=
file:///C:/Program%20Files/IBM/RQM20/server/conf/jazz/teamserver.properties
-Dcom.ibm.team.repository.provision.profile=
file:///C:/Program%20Files/IBM/RQM20/server/conf/jazz/provision_profiles
-Dlog4j.configuration=file:///C:/Program%20Files/IBM/RQM20/server/log4j.properties
-Djava.awt.headless=true
```

```
-Dorg.eclipse.emf.ecore.plugin.EcorePlugin.doNotLoadResourcesPlugin=true
-Dcom.ibm.team.repository.tempDir=%TEMP%
```

- o If you are using an Oracle Database
 - -DORACLE_JDBC=[path to Oracle JDBC driver jar]
 - o If you are using a DB2 Database, add these two lines:
 - -DDB2I_JDBC=F:\IBM\RQM\server\update-site\plugins\com.ibm.team.repository.jdbcdriver.db2i_0.6.0.I200805291754.jar
 - -DDB2Z_JDBC=F:\IBM\RQM\server\update-site\plugins\com.ibm.team.repository.jdbcdriver.db2z_0.6.0.I200805291754.jar
 - o If you are using a SQL Server Database
 - -DSQLSERVER_JDBC=[path to directory containing SQL Server JDBC driver jar]
 - o Change the "Maximum memory pool" size to be 700.
 - o Change the Thread Stack Size to 1024
5. On the 'Startup' and 'Shutdown' tabs, make sure the 'Mode' setting is 'jvm'.
 6. On the 'General' tab you can change the 'Startup type' to be 'Automatic' if you want the service to start on its own.
 7. Modify all 3 of the provision profiles (usually in C:\program files\IBM\RQM20\server\config\jazz\provision_profiles and change the 'url' property in each one to an absolute path. For example change `url=file:./update-site` to `url=file:///C:/Program Files/IBM/RQM20/server/update-site` in the profile.ini file. Do not make backups of the profile files in this directory as all files found will be treated as potential profiles to be used for provisioning. Also make sure that the editor you use to modify the files does not create hidden backup files.
 8. Start the service to test out the server.

References

Apache Tomcat 5.5 Documentation:

<http://tomcat.apache.org/tomcat-5.5-doc/index.html>