

| Debug

Transact Extensibility for Java (English)

2020 Q1



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| Lesson Overview



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I am going to describe how to debug the Java code

Debug Java Code

- The Design Studio Java IDE provides many debugging tools and views grouped in the Debug Perspective
- To debug the program, define breakpoints. By adding breakpoints in the source code we can specify where the execution of the program should pause
- To set breakpoints in the source code double click on the small left margin in the source code editor.
- DS uses eclipse standard for debugging
 - Step In : F5
 - Step Over : F6
 - Step Out : F7
 - Continue : F8



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The Design Studio Java IDE provides many debugging tools and views grouped in the Debug Perspective

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DS uses eclipse standard for debugging

Shortcut keys for Eclipse Debugging are,

Step In : F5

Step Over : F6

Step Out : F7

Continue : F8

| Remote Java Port

- Remote Debug jBoss from Design Studio
- Set JAVA_OPTS

For Windows

- SET JAVA_OPTS=-Xdebug -Xnoagent -Xrunjdwp:transport=dt_socket, address=8787,server=y,suspend=n%JAVA_OPTS%

For Linux

- JAVA_OPTS="-Xdebug -Xnoagent -Xrunjdwp:transport=dt_socket, address=8787,server=y,suspend=n\$JAVA_OPTS"

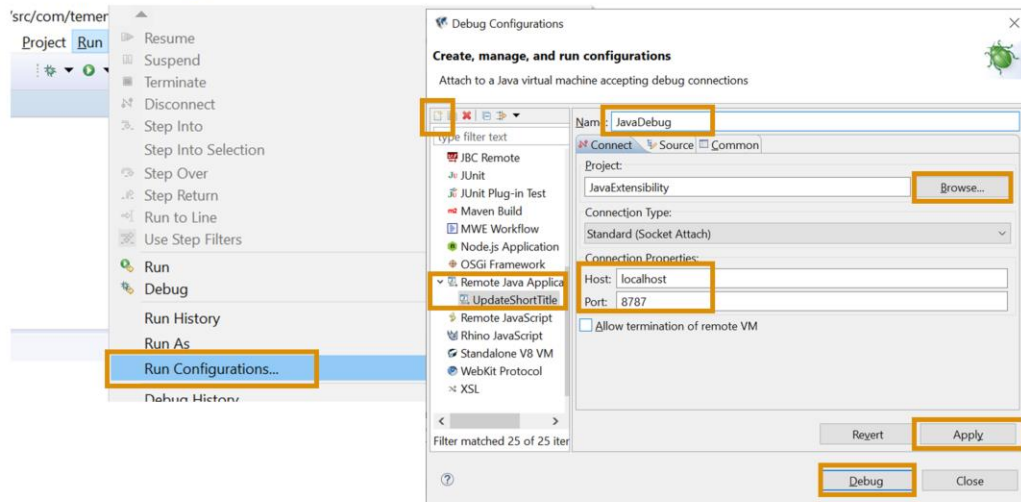
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Set the JAVA_OPTS as shown above to remote debug jBoss from Design Studio.

This JAVA_OPTS can be set in any startup file. Example: This can be added in launch-jboss.bat file

DS Configuration



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Configuring debug in Design Studio

Create a new debug configuration by going to **Run > Debug Configurations...** or click on the DEBUG button in the toolbar and choose DEBUG configuration. In the left side panel, select **Remote Java Application**, and click on New Launch configuration in the toolbar. This will give you a new debug configuration. On the right side, give a meaningful name. Change the port to 8787 and the host to JBoss installation port.

Switch to the debug view with **Window > Show View > Other...**, type in "debug" in the filter box and select the debug view. You should now see a JVM with a bunch of threads.

If all went well, you can now set break points in your code and they should show up automatically in the debugger.

Debugging

The screenshot displays a web application interface on the left and a Java IDE on the right. The web application shows a 'Transfer Between Accounts' form with fields for Debit Account (19461), Debit Currency (USD), Debit Value Date (DD MMM YYYY), Cheque Type, Ordered By 1, and Credit Account (11223). The IDE shows a debugging session for the 'FTVersionDemo' application. The 'Variables' window on the right lists variables: recordid (FT18107370J1), record (TStructure), lastLiveRecord (TStructure), fr (FundsTransferRecord), and f1 (TField). The 'Outline' window shows the 'validateRecord' method in the 'FTVersionDemo' class. The 'Debug' window shows the current instruction being executed: 'f1 = fr.getCreditCurrency();'.

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When the VERSION is launched from the Browser, we can see the current instruction being executed. Values of variables can be seen in the Variables window and also when the mouse hovers on the variable.

| Lesson Summary



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In this lesson we saw how to debug the Java code



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thank.you

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