Nuero4j Studio- Debug Plugin.

NEURO4J.ORG



PDF version available online at http://static.neuro4j.org/download/doc/studio/StudioDebugPlugin.pdf

ABOUT THIS GUIDE

This guide describes how to use Debug Plugin for Neuro4j Flows.

Online html version available at http://neuro4j.org/docs/wf/flowdebugtool

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OVERVIEW

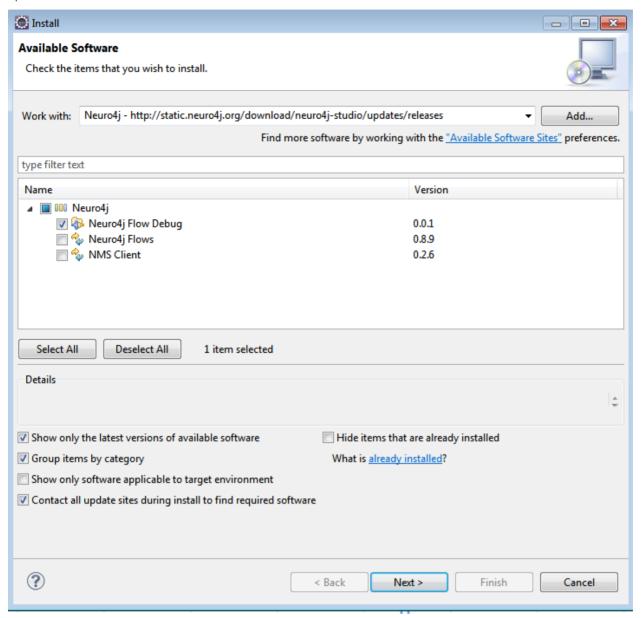
Neuro4j Flow Debug Tool is eclipse plugin which allows the developer to track the execution of a flow step-by-step in Neuro4j Studio in order to locate errors precisely.

Using the Debug Tool, developers can easily check the storefront behavior of flows or monitor the status of the flow context at each step using a special view.

INSTALLATION STEPS



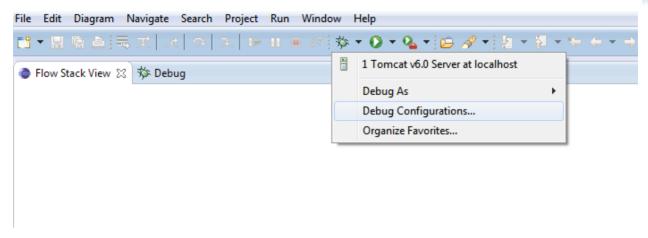
Neuro4j Debug Tool is part of Neuro4j Studio (from version 0.8.9) and can be downloaded from Download Page or installed using update site.



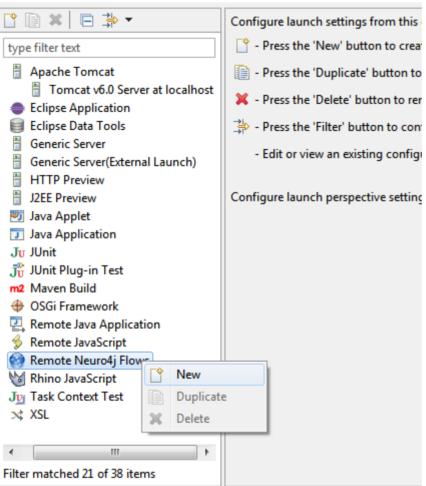
CREATING NEW REMOTE DEBUG CONFIGURATION

- 1) Setup and Run container (ex. Tomcat) in debug mode:
 - a. In file catalina.*
 - set JPDA_OPTS=-Xdebug -Xnoagent -Xrunjdwp:transport=dt_socket,server=y,address=8888,suspend=n
- 2) Click Debug Configuration...





3) Select Remote Neuro4j Flows and click New



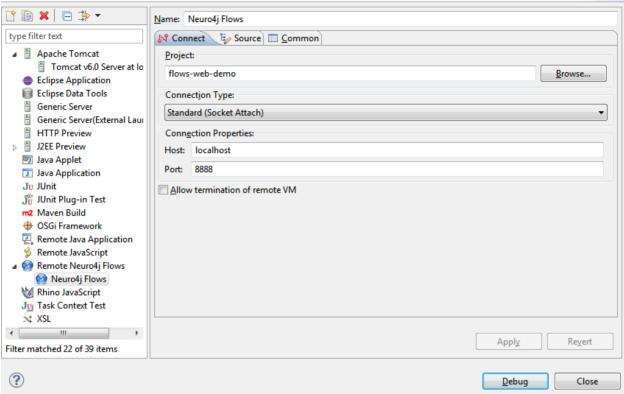
4) Set up port and host. Click debug.



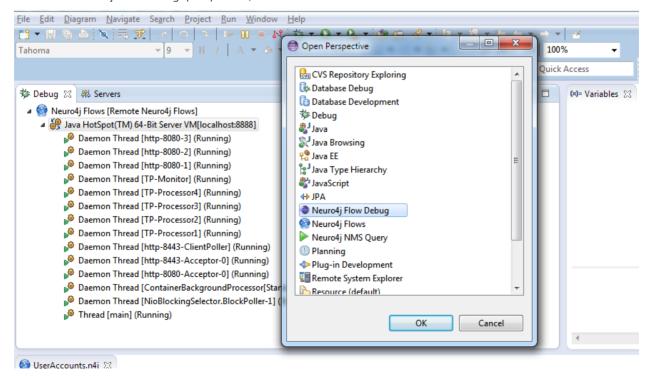
Create, manage, and run configurations

Flow debug description

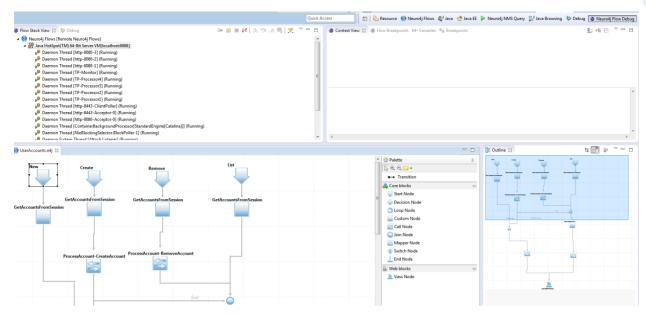




5) Switch to "Neuro4j Flow Debug" perspective;

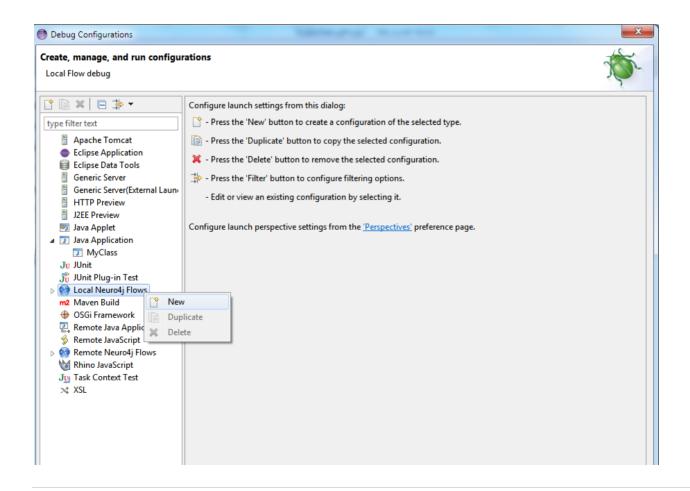






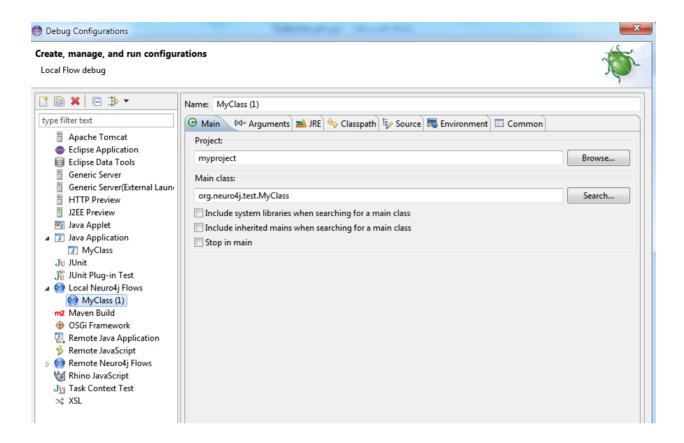
CREATING NEW LOCAL DEBUG CONFIGURATION

To debug your application, select a Java file with main method which will execute flow, right-click on it and select Debug As → Local Neuro4j Flows.



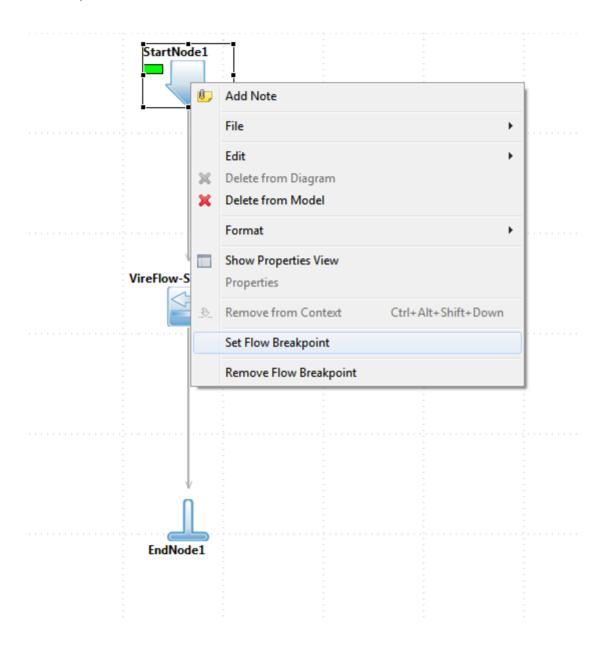


Select project and class which contains main method.





Add breakpoints:

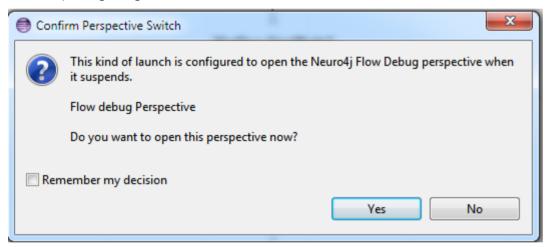




Run debug configuration:

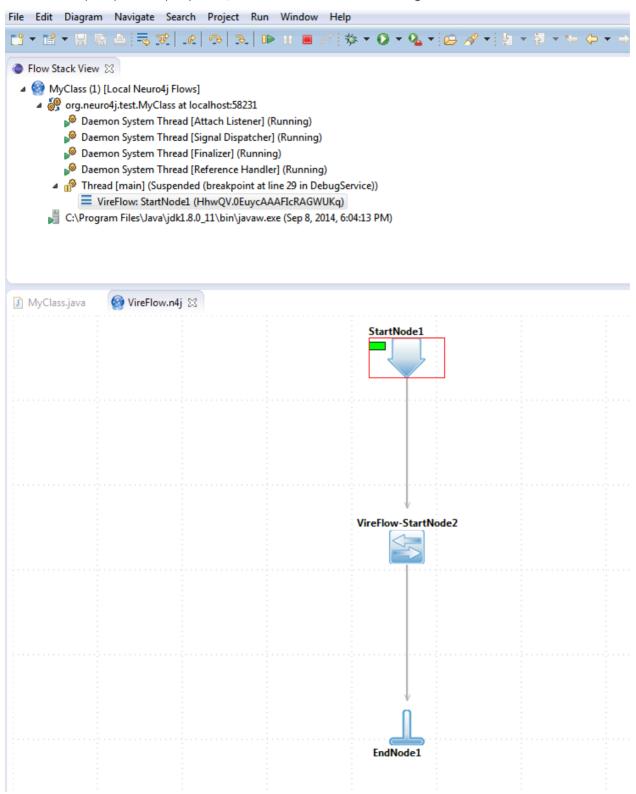


If you start the debugger, Eclipse asks you if you want to switch to the Debug perspective once a stop point is reached. Answer Yes in the corresponding dialog.





Afterwards Eclipse opens this perspective, which looks similar to the following screenshot.

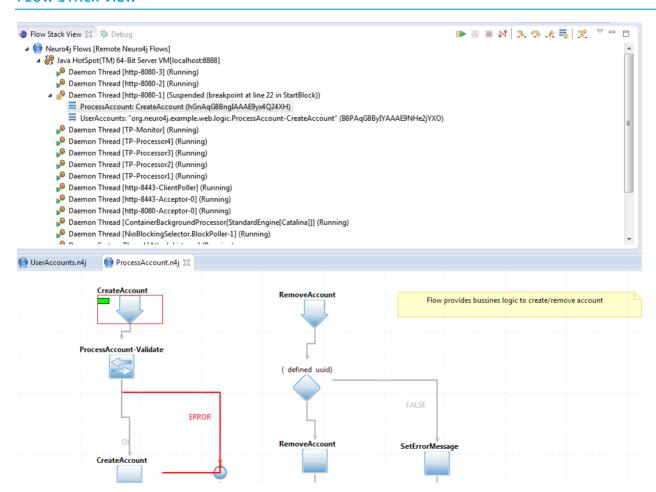




PERSPECTIVE OVERVIEW

Neuro4j Flow Debug perspective provides following views

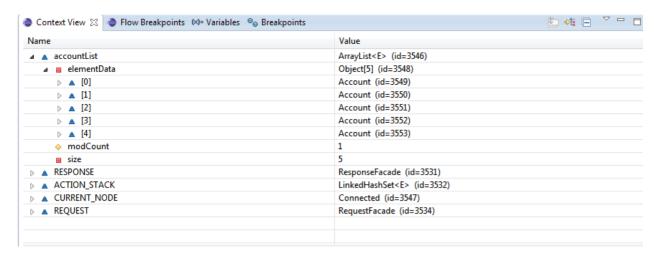
FLOW STACK VIEW



This view displays Call Node's stacks. In this case flow UserAccounts calls CreateAccount.

CONTEXT VIEW

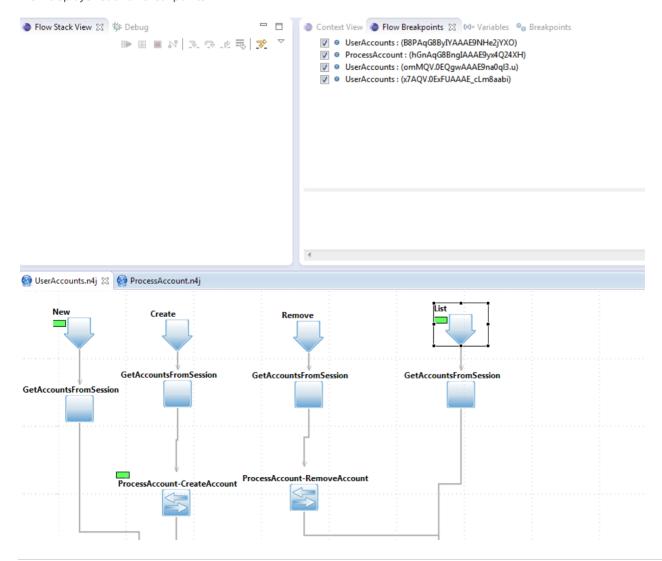




This view displays all objects in Context.

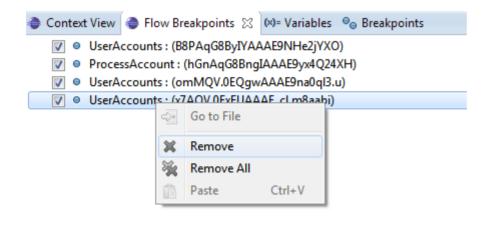
FLOW BREAKPOINTS

View displays list of all breakpoints.





Developer can remove breakpoint using right-click.

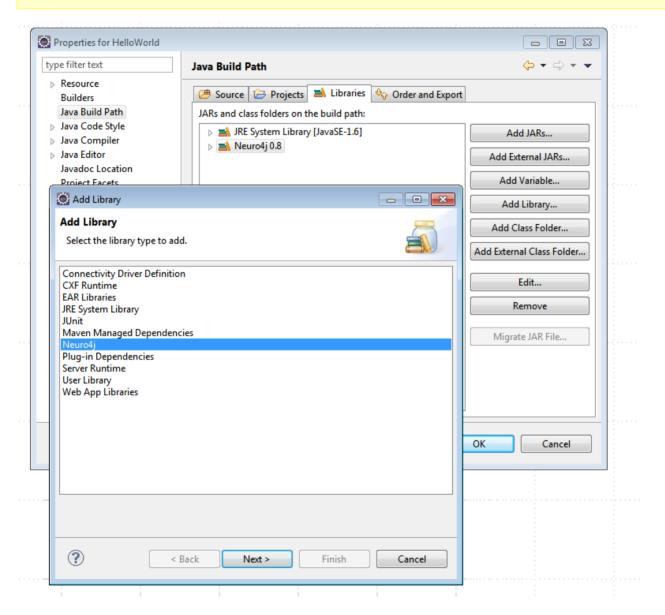




ADDITING/REMOVING BREAKPOINTS

Breakpoint can be added by right-click on node in editor.

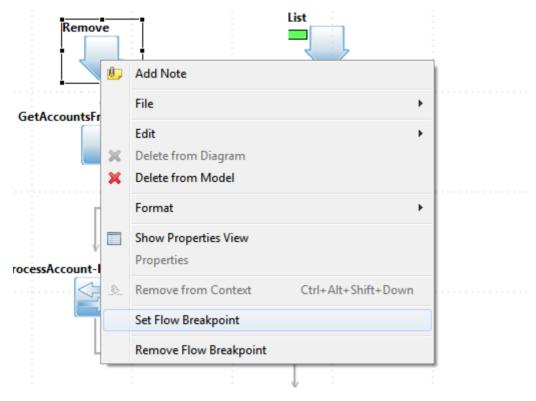
Before additing breakpoint make sure Neuro4j library had been added to classpath!



If library is not in classpath developer will receive error message like:



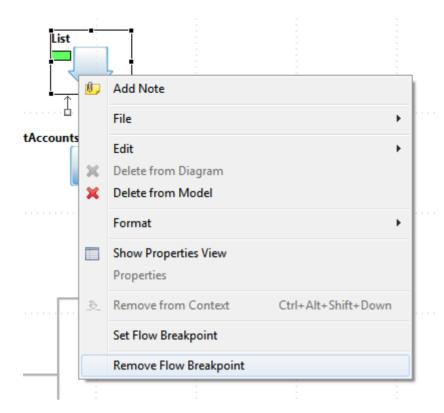




Green bar indicates what node has breakpoint.

Breakpoint can be removed by right-click - > Remove Flow Breakpoint;

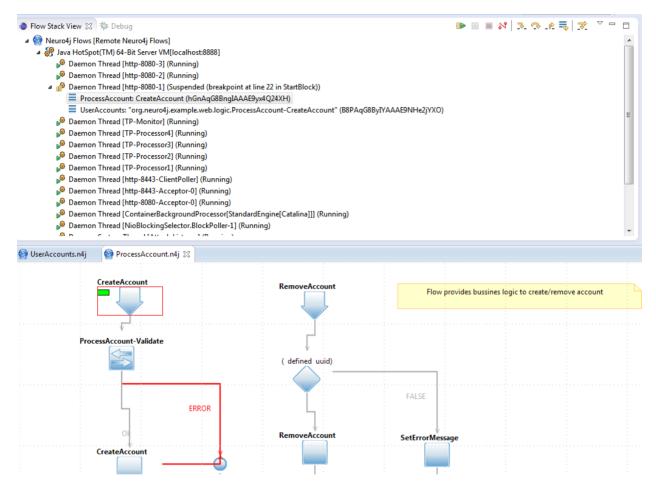






REMOTE DEBUGGING

When you launch your flow application for debugging, Studio switches to the Flow Debug perspective automatically.



Red rectangle around node indicates place where Processor was suspended.

To resume execution click or F8 key, execution will be suspended at next breakpoint.

To make <Step Over> press F6, Processor will suspend execution at next Node.