Setting up Eclipse to modify NIFI source

In Windows running Eclipse Neon.2

JDK v1.8 MUST BE INSTALLED

This is in addition to the JRE.

Fresh install of eclipse

Select eclipse for java applications

Open eclipse

File -> Import

Select Maven -> Existing Maven Projects

Browse to Nifi\source\nifi-1.1.x

Ensure everything is selected.

Finish.

"Importing Maven projects" will be at the bottom right.

You will receive a message describing import errors. Click "Resolve All Later".

Allow Maven to install necessary packages.

Eclipse will require a restart

Once restarted, there will be numerous errors--the majority will be: "Plugin execution not covered by lifecycle configuration..."

Window -> Preferences

Maven -> Errors/Warnings

Change "Plugin execution not covered by lifecycle configuration" to Warning

Apply

Allow the Maven projects to update

There may also be the error: "Missing artifact jdk.tools:jdk.tools:jar:1.x"

Go to your installation folder for JDK

Go to your java installation root

Open the jdk folder, go to \lib\

Copy tools.jar

Create a folder in the java installation root called \lib\

Paste tools.jar in there

Restart Eclipse

Right click the nifi root project, click Maven -> Update Project

Now we have to set JDK as the default runtime environment.

Window -> Preferences -> Installed JREs

Click Add -> Standard VM

For JRE Home, select the JDK root directory

Finish

Check the JDK in the list to make it default.

To test that everything worked correctly, right-click the nifi root project

Debug As -> Maven Build…

For “Goals”, type *verify*

Check Debug Output

Click “Debug”

This should take about 20 minutes as the debugger runs through all of the unit tests.

There should now only be a handful of compile errors. Those are expected.