

Eclipse-Scala-Gradle-Git Developement Environment Setup

1. URLs you need :

Code base:

In a browser goto:

<https://github.com/apache/kafka>

Fork it: (may require login to your github.com account)

This is your own kafka (, yes) github repo url:

<https://github.com/<your github username>/kafka.git>

Copy this to clipboard (ctrl/command+c)

2. Install java, eclipse and plugins :

Download and install JDK. I used Oracle JDK 1.7.0_72.

Download latest eclipse. I used Eclipse version Mars M4 to write this up. Unzip and run 'eclipse'.

Help - Install New Software - Work with: enter the url <http://download.scala-ide.org/sdk/lithium/e44/scala211/stable/site> - Select All - Next, follow the on screen instructions, to finish the installation.

Help - Install New Software - Work with: enter the url <http://dist.springsource.com/release/TOOLS/update/e4.4/> - Select All - Next,

follow the on screen instructions, to finish the installation.

Note: If you completely new to eclipse, this "follow on screen instructions from here onwards", is usually, few clicks on 'Next', a click on 'Finish', a click on 'OK' and a click on 'Yes' when asked to restart your eclipse.

3. Get the Kafka Source Code :

In eclipse,

Window > Perspective > Open Perspective > Other > Git > Open.

Click on 'Clone a Git repository'.

URI: <https://github.com/<your github username>/kafka.git>

Host: github.com

Repository Path: /<your github username>/kafka.git

Enter your github user name and password.

Check 'store in secure store'.

Click Next.

Select a branch, the latest is 0.8.2.

Pick all or pick one, it is your choice.

Usually, there should be a default 'master' branch, which is missing in this repo.

Click Next.

Choose local directory where you want to clone the sources.

Directory: ~/MySources/kafka

Initial Branch: 0.8.2 or the one you picked in previous step

Check, Import all existing eclipse projects after clone finishes

Ideally, gradle plugin, if exists, should run eclipse task and import the projects into your workspace. For now, it is differed until 'Build Model' step.

Click Finish.

Link to Upstream Apache Kafka repo :

Note: Fetch from this repo, to keep your local repo up to date. Recommended, before you check-in your changes.

You should see 'kafka' entry appear, with the branch version you selected.
Expand it to find 'Remotes'.
Right click, 'new remote'.
Remote name: apache-kafka
Check, 'configure fetch'

Configure Fetch window:
URI: click 'change'

Source Git Repository window:
URI: <https://github.com/apache/kafka.git>
Host: github.com
Repository Path: /apache/kafka.git

Enter your github user name and password.
Check 'store in secure store'.

Click Next.

Click Finish.

Click 'Save and Finish'.

4. Let the projects show up :

Due to this bug,

<https://issues.apache.org/jira/browse/KAFKA-1874>

Edit ~/MySources/kafka/gradle.properties

Change to scalaVersion=2.11 from scalaVersion=2.10.4

Window > Perspective > Open Perspective > Java > Open.
Kafka project missing.

File > Import > Gradle > Gradle Project

Click Next

Browse - to the local directory of clone, ~/MySources/kafka
Click - Build Model

When done you should see this structure:

```
kafka
--clients
--contrib
----hadoop-consumer
----hadoop-producer
--core
--examples
```

Check 'kafka'. It selects all.

Click 'Finish'.

Time for break.

<https://issues.apache.org/jira/browse/KAFKA-1873>

Error:

Description	Resource	Path	Location	Type
scalatest_2.10-1.9.1.jar of core build path is cross-compiled with an incompatible version of Scala (2.10.0). In case this report is mistaken, this check can be disabled in the compiler preference page.	core	Unknown	Scala Version Problem	

Workaround:

Eclipse > Preferences > Scala > Compiler > Build manager
uncheck withVersionClasspathVariable

5. Happy Contributing.