

Tool stack Listing

5-day hands-on workshop on

Java 8, Play and Akka,

with introduction to Reactive Programming

Verizon Corpn. (Hyd'bad and Chennai)

- We will use minimal tool-stack for the workshop. The objective is to avoid distraction by multiplicity of tools available and to remain focused on how quickly and cleanly we can get on with the job at hand.
- The following must be available on each development machine:
 - Java 1.8.x (JDK, not JRE, from Oracle Corporation: be sure to choose the right version - 32 bit/64 bit, and processor type)
 - Scala 2.11.x (from Typesafe Corporation)
 - activator 1.3.x (from Typesafe Corporation)
 - Sbt 0.13.x (again, from Typesafe Corporation)
 - Scala IDE: essentially Eclipse Luna 4.4.0+ (from <http://scala-ide.org>)
 - Git client (Command line tools like *gitbash* is preferred)
 - Firefox (47.x) or Chrome (55.0.x) browser (**must support WebSocket**)
(Note: I will use Dark Websocket Plugin for Chrome)
 - curl 7.x (optional, but can be quite handy)
- All presentation / examples will use Ubuntu Linux 15.x (64-bit) machine but participants are free to use OSs of their own choice. Of course, ease of using Bourne (or similar) shell CLI will be of help.
- Utilities like **sbt** require connectivity to the 'Net (viz., for resolving dependencies and downloading binaries). So, the participants should be able to be online, **if** and **when** necessary, during the sessions.
- The participants should also ensure that environments, especially PATH, JAVA_HOME, SCALA_HOME and SBT_HOME are set according to the installation paths.
- We will use standard JDK features/syntaxes for explanations, elaborations, exemplifications and discussions.
- Even though the stack includes Scala and Java8, we will use minimal Scala.
- As this is a workshop, we will spend considerable time with coding and implementing features. So, let's be ready to *dirty our hands*, as it were.
- Needless to say, we will enjoy while learning, so that the basics stay with us, after the session is over. Let's remember: **concepts remain; programming languages and APIs, come and go.**

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