

# STPCon Workshop Pre-requisites

Akhilkumar Patel

[Akhil.patel@infostretch.com](mailto:Akhil.patel@infostretch.com)

# Workshop Pre-requisites

1. JAVA (1.7 or above) JDK:
  1. Download from here:
    1. Windows Platform Installation Steps:  
[http://docs.oracle.com/javase/8/docs/technotes/guides/install/windows\\_jdk\\_install.html#CHDEBCCI](http://docs.oracle.com/javase/8/docs/technotes/guides/install/windows_jdk_install.html#CHDEBCCI)
    2. Mac OS X Installation Steps:  
[http://docs.oracle.com/javase/8/docs/technotes/guides/install/mac\\_jdk.html#CHDBADCG](http://docs.oracle.com/javase/8/docs/technotes/guides/install/mac_jdk.html#CHDBADCG)
2. Node (0.10 or above):
  1. Windows x64 Installer:  
<https://nodejs.org/download/release/latest/node-v4.1.1-x64.msi>
  2. Windows x86 Installer  
<https://nodejs.org/download/release/latest/node-v4.1.1-x86.msi>
  3. Mac OSX Package: <https://nodejs.org/download/release/latest/node-v4.1.1.pkg>
3. Java Editor - IDEA IntelliJ: <https://www.jetbrains.com/idea/download/> - You can download Community Edition
  1. Advanced user can select editor of their choice but be advised to make sure it supports the plug-ins used for workshop .
4. Maven : <http://mirror.reverse.net/pub/apache/maven/maven-3/3.3.3/binaries/apache-maven-3.3.3-bin.zip>
  1. Follow the installation instructions here:
    1. <https://maven.apache.org/install.html>

# Pre-requisites: Android SDK setup

- We use Android for workshop (on both Mac and Windows platform):
  1. Download Android SDK Tools zip: Download from SDK Tools Only:  
<http://developer.android.com/sdk/index.html#Other>
    1. Windows: [http://dl.google.com/android/android-sdk\\_r24.3.4-windows.zip](http://dl.google.com/android/android-sdk_r24.3.4-windows.zip)
    2. Mac OS X: [http://dl.google.com/android/android-sdk\\_r24.3.4-macosx.zip](http://dl.google.com/android/android-sdk_r24.3.4-macosx.zip)
  2. Extract the files into following location (Create the folder if required):
    1. Windows: C:\android-sdk
    2. Mac: /opt/android-sdk
  3. Set the ANDROID\_HOME For Mac :
    1. Setup all the environment variables
      1. For Mac:
        1. Open the .bash\_profile from home folder . You can use vi or other editor
        2. vi ~/.bash\_profile
        3. Copy and paste following values – Make sure to replace 19.1.0 with latest API version you have present in opt/android-sdk/build-tools/ folder
          1. export ANDROID\_HOME=opt/android-sdk
          2. export PATH=opt/android-sdk/tools:opt/android-sdk/platform-tools:opt/android-sdk/build-tools/19.1.0:\$PATH
          3. If you already have sdk installed on different folder, change opt/android-sdk to your SDK folder from step 1
        4. Press 'esc' followed by :wq to save and quit the editor
      2. For Windows:
        1. Go To Computer->Properties->Advanced System Settings->Environment Details and add "ANDROID\_HOME" as system variable with value "C:\android-sdk"
    4. Restart the command prompt or mac terminal after completing following steps.

# Create Android Virtual Device (AVD)

- Type “android” from windows command line or mac terminal and it will open “Android SDK Manager”, where you can manage android sdk packages on your system.
- For workshop, Install following packages:
  - Under tools -
    - Android SDK Platform-tools,
    - Android SDK Build-tools (19.1)
  - Under Android 4.4.2 (API 19)
    - SDK Platform
    - Google APIs Intel x86 Atom System Image
  - Under Extras -
    - Google USB Driver
    - Google Web Driver
    - Intel x86 Emulator Accelerator (HAXM installer)

# Create AVD (using Command line)

- Following will help to setup an emulator from the command prompt -
  - Windows: "%ANDROID\_HOME%\tools\android" list targets
  - Mac: \$ANDROID\_HOME/tools/android list targets
  - For ex: "Google Inc.:Google APIs (x86 System Image):19"
- Find the target that is for x86 version and replace the id for -t option in following command. For ex: I have the target id=1(in red color). Yours might be different.
  - Mac: \$ANDROID\_HOME/tools/android create avd -n STPCon2015 -t 1 -c 500M
  - Windows: "%ANDROID\_HOME%/tools/android" create avd -n STPCon2015 -t 1 -c 500M

# Launch AVD

- From Mac terminal
  - `$ANDROID_HOME/tools/emulator @STPCon2015`  
– `-netfast`
- From Windows command line
  - `"%ANDROID_HOME%/tools/emulator"`  
`@STPCon2015 -netfast`

# Setting up Appium

- There are two versions of Appium:
  - Appium GUI
  - Appium Server
- Setting up the Appium GUI is straight forward
  - Download and setup Appium from <http://appium.io/>

# Appium server (command line)

- Run following from Mac Terminal or Windows command line in sequence
  - `npm install -g appium` # get appium
  - `npm install wd` # get appium client
- Verify appium installation by running following command
  - `appium &` # start appium



- Showslow.org
- Fiddler
- Webpagetest.org
- Perfmap (github) zeman
- Yslow.org
- Pagespeed (google)
- Dynatrace (APM)
- Appdynamics
- Jprofiler