

STPCon Workshop Pre-requisites

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Workshop Pre-requisites

1. JAVA (1.7 or above) JDK:

1. Download from here:

<http://www.oracle.com/technetwork/java/javase/downloads/index.html>

- Windows Platform Installation Steps:
http://docs.oracle.com/javase/8/docs/technotes/guides/install/windows_jdk_install.html#CHDEBCCJ
- Mac OS X Installation Steps:
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:

1. Download Community Edition: <https://www.jetbrains.com/idea/download/>
2. Advanced user can select editor of their choice but be advised to make sure it supports the plug-ins used for workshop.

4. Maven:

1. Download: <http://mirror.reverse.net/pub/apache/maven/maven-3/3.3.3/binaries/apache-maven-3.3.3-bin.zip>
2. Follow the instructions here: <https://maven.apache.org/install.html>

Pre-requisites: Android SDK setup

We use Android for workshop (on both Mac and Windows platform):

Download Android SDK Tools zip: **Download from SDK Tools Only:**

<http://developer.android.com/sdk/index.html#Other>

- **Windows:** http://dl.google.com/android/android-sdk_r24.3.4-windows.zip
- **Mac OS X:** http://dl.google.com/android/android-sdk_r24.3.4-macosx.zip

1. Extract the files into following location (Create the folder if required):
 1. Windows: C:\android-sdk
 2. Mac: /opt/android-sdk
2. Set the ANDROID_HOME:
 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"
3. 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
- 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: <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`