

ITAC

(Interactive Test Automation Cartridge)

Authors	Abhishek Seelamanthula
	Madhukar Gangadhar
Contributors	Praneeth Molakala
	Rahul Babu Challa
	Siri Cheemaladinne
Interactive COP Reviewers	Javeed Shaik
	Bhawana Jha
	Praneeth Molakala
Asset Approvers	Srivathsan Ramanujam
	Sonal Naik



Emulator & Real Device Set up for MAC

Setup Appium for iOS and Android in Mac Machine

Step 1: Install JAVA SDK

Download Link here: http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html

Step 2: Install Android Studio

Download Link here: https://developer.android.com/studio/index.html

Step 3: Install Home Brew

Open Terminal app in Mac machine and execute below commands

ruby -e "\$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)"

subhajit.dey — ruby -e #!/usr/bin/ruby\012# This script installs to /usr/local onl...

Last login: Fri Apr 26 10:44:07 on ttys003

[AMAC02L34K8DR53:~ subhajit.dey\$ ruby -e "\$(curl -fsSL https://raw.githubusercont]
ent.com/Homebrew/install/master/install)"
==> This script will install:
/usr/local/bin/brew
/usr/local/share/doc/homebrew
/usr/local/share/man/man1/brew.1
/usr/local/share/zsh/site-functions/_brew
/usr/local/etc/bash_completion.d/brew
/usr/local/Homebrew

Press RETURN to continue or any other key to abort

Step 4: Install Node.js

Download installer: https://nodejs.org/en/download/ and run



Step 5: Install NPM

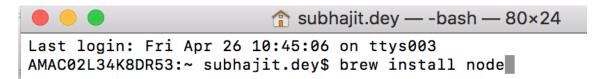
Open Terminal app in Mac machine and execute below 3 commands one after another

a. brew update



Last login: Fri Apr 26 10:45:06 on ttys003
AMAC02L34K8DR53:~ subhajit.dey\$ brew update

b. brew install node



c. npm install -g npm



Last login: Fri Apr 26 10:45:06 on ttys003
AMAC02L34K8DR53:~ subhajit.dey\$ npm install -g npm

Step 6: Setup the Environment

To open bash_profile in terminal, type the following command:

open -e .bash_profile



Once the above command is executed the bash profile will open in Text file. Refer to the below screenshot. Edit that file for setting up the environment paths. Add the paths in the file and save it.



.bash_profile \color
export JAVA_HOME=\$(/usr/libexec/java_home)

export ANDROID_HOME=/Users/subhajit.dey/Library/Android/sdk
export PATH="\${PATH}:/\$ANDROID_HOME/platform-tools:/\$ANDROID_HOME/tools/bin"
export PATH="/usr/local/Cellar/carthage/0.31.1/bin:\$PATH"
export PATH=\$HOME/local/bin:\$PATH

Note: If bash profile not available, create a bash_profile by following command

- 1. Start up Terminal
- 2. Type "cd ~/" to go to your home folder
- 3. Type "touch .bash_profile" to create your new file.
- 4. Edit .bash_profile with your favorite editor (or you can just type "open -e .bash_profile" to open it in TextEdit.

Once it Opens in Text Edit then paste below lines

export ANDROID_HOME=/Users/user/Library/Android/sdk export PATH=\$ANDROID_HOME/platform-tools:\$PATH export PATH=\$ANDROID_HOME/tools:\$PATH export JAVA_HOME=\$(/Library/Java/JavaVirtualMachines/jdk1.8.0_141.jdk) export PATH=\${JAVA_HOME}/Contents/Home/bin:\$PATH export PATH=/usr/local/bin:/usr/local/sbin:~/bin:\$PATH export PATH=\$PATH:/opt/bin:\$PATH

Then Save (Ctrl+S) and exit

NOTE: As default Android studio and Java takes the above mentioned paths, if you have changed the path then do change it here with correct version

Step 7: Install Appium

In Terminal install Appium command line mentioned below one by one:

npm install -g appium@1.6.0-beta1 npm install wd



Step 8: Install Carthage

Now execute the following commands one after another to get into WebDriverAgent and Install carthage:

cd /usr/local/lib/node_modules/appium/node_modules/appium-xcuitest-driver/WebDriverAgent brew install carthage npm i -g webpack

Step 9: Check whether Appium is installed from command line

Open new terminal window and execute below command

appium

```
Last login: Fri Apr 26 10:58:52 on ttys001
AMAC02L34K8DR53:~ subhajit.dey$ appium
```

Once executed it will start the Appium Server like below screenshot

```
subhajit.dey — node /usr/local/bin/appium — 80×24

Last login: Fri Apr 26 11:09:40 on ttys001

[AMAC02L34K8DR53:~ subhajit.dey$ appium

[Appium] Welcome to Appium v1.9.1

[Appium] Appium REST http interface listener started on 0.0.0:4723
```

Step 10: Install Appium GUI desktop Server

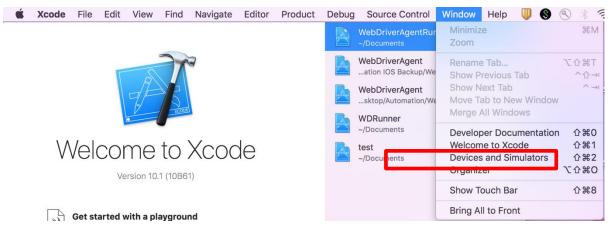
Download link: http://appium.io/

Step 11: Install XCode from App Store if it is not already previously installed.

Open XCode and click Window option from top

Then click on Devices and Simulators option in XCode



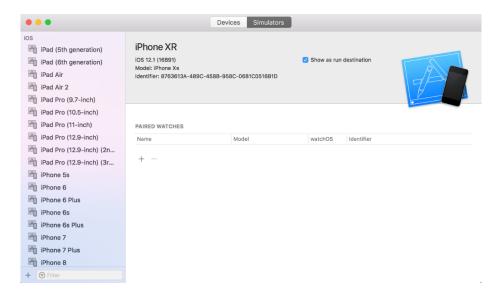


Check whether list of iOS Simulators is already there. Note down the "Model" and "Identifier" values for later use of the desired simulator.

Example:

Model: iPhone XR

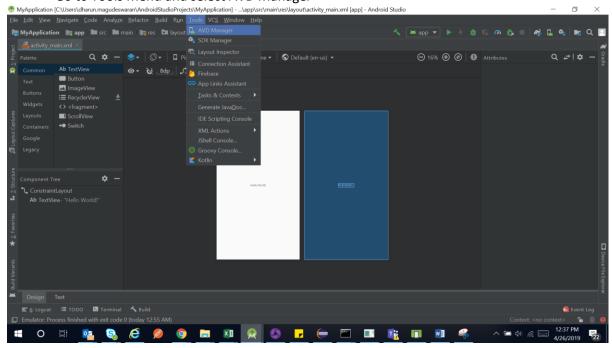
Identifier: 8763613A-489C-458B-958C-0681C0516B1D



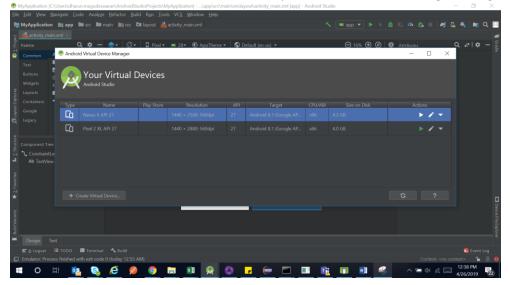


Step 12: Setup Android Simulator from Android Studio

- Open Android Studio
- Go to Tools Menu and select AVD Manager

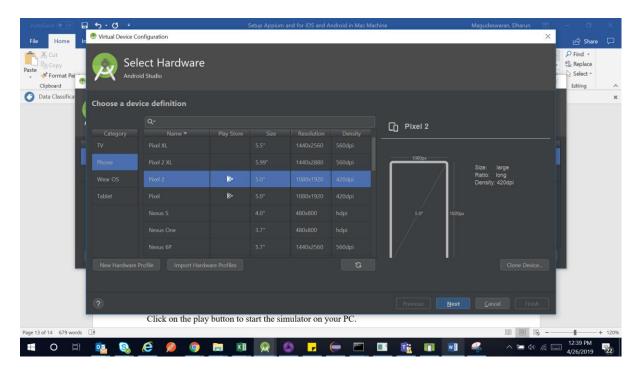


Click on Create Virtual Device button present on the AVD Manager dialog box

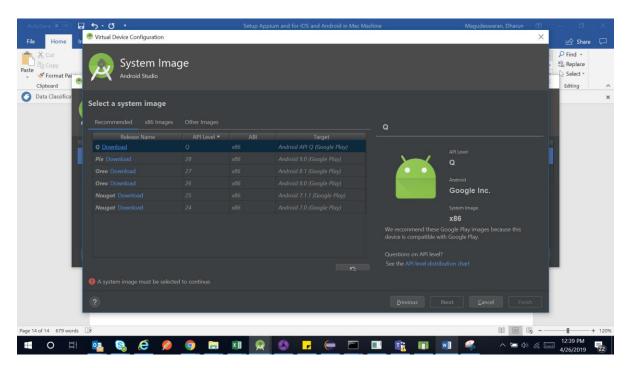




Choose the category and the device as required and select Next



Choose the release version and select Next





- Click on Finish button
- Virtual device will be created on your system.
- Click on the play button to start the simulator on your PC.

Step 13: Run the Android project from Eclipse

- Simulator Settings in Eclipse
- Change the values only in yellow highlighted place if according to simulator name and os version.

```
caps.setCapability(MobileCapabilityType.DEVICE_NAME, "Nexus 6 API 27");
caps.setCapability(MobileCapabilityType.PLATFORM_VERSION, "8.1.0");

// mandatory capabilities
    caps.setCapability(MobileCapabilityType.DEVICE_NAME, "Nexus 6 API 27");
    caps.setCapability(MobileCapabilityType.PLATFORM_NAME, "ANDROID");
    caps.setCapability(MobileCapabilityType.PLATFORM_VERSION, "8.1.0");
    caps.setCapability("noReset", true);
    caps.setCapability(MobileCapabilityType.AUTOMATION_NAME, "UiAutomator2");
    caps.setCapability("autoGrantPermissions",true);
    caps.setCapability("autoAcceptAlerts", true);
    caps.setCapability(MobileCapabilityType.APP,apkFile.getAbsolutePath());
    caps.setCapability("unicodeKeyboard", true);
    caps.setCapability("resetKeyboard", true);
```

• Start the Appium server