Wheat Onboarding

# Agent Machine Requirements:

1. Mac OS
2. Install latest JDK (<http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>)
3. Install latest Android Studio (<https://developer.android.com/studio/index.html>)
4. Install Xcode 7.3.1 (<https://developer.apple.com/download/more/>)
5. Install Command Line Tool for Xcode 7.3.1 (<https://developer.apple.com/download/more/>)
6. Get Android SDK Path from Android Studio

Open Studio->Android Studio->Preferences->Appearence & Behaviour->System Setting->Android SDK (ex: /Users/dinkark/Library/Android/sdk)

1. Get Java Home

Open terminal and run /usr/libexec/java\_home you will get the java home (ex :/Library/Java/JavaVirtualMachines/jdk1.8.0\_102.jdk/Contents/Home)

1. Set Environment variable

open terminal and run follwing commands:

* 1. *touch ~/.bash\_profile*
  2. *open -e ~/.bash\_profile*
  3. Paste these commands in .bash\_profile file:

*export PATH=${PATH}:{YOUR\_ANDROID\_SDK\_PATH}/tools*

*export PATH=${PATH}:{YOUR\_ANDROID\_SDK\_PATH}/platform-tools*

*export PATH=${PATH}:{YOUR\_JAVA\_HOME\_PATH}/bin*

*export JAVA\_HOME={YOUR\_JAVA\_HOME\_PATH}*

*export ANDROID\_HOME={YOUR\_ANDROID\_SDK\_PATH}*

1. Save the file

|  |
| --- |
| **Example .bash\_profile file:**  *export PATH=${PATH}:/Users/dinkark/Library/Android/sdk/tools*  *export PATH=${PATH}:/Users/dinkark/Library/Android/sdk/platform-tools*  *export PATH=${PATH}:/Library/Java/JavaVirtualMachines/jdk1.8.0\_102.jdk/Contents/Home/bin*  *export JAVA\_HOME=/Library/Java/JavaVirtualMachines/jdk1.8.0\_102.jdk/Contents/Home*  *export ANDROID\_HOME=/Users/dinkark/Library/Android/sdk* |

1. Install Appium (<https://www.npmjs.com/package/appium>)

*npm install -g* [*appium@1.5.3*](mailto:appium@1.5.3)

*npm install -g appium-doctor*

1. Run "appium-doctor" in terminal to check everything Appium need is fine.
2. Install Genymotion if want to test on android emulators (<https://www.genymotion.com/>)
3. Install RedwoodHQ Agent on your Agent (Mac) machine (<http://redwoodhq.com/redwood-download/>) follow insturction from <http://www.manula.com/manuals/primatest/redwoodhq/2.0/en/topic/redwoodhq-agent>

# Server Machine Requirements:

1. Windows OS
2. Install RedwoodHQ server on windows machine (<http://redwoodhq.com/redwood-download/>)
3. Do the following on your RedwoodHQ server to get the Appium project template for script and action on RedwoodHQ server  
   1. Copy java\_project\_appium (folder), java\_project\_appium.js into C:\Program Files\RedwoodHQ\project\_templates.
   2. Open C:\Program Files\RedwoodHQ\cli\createProject.js and change

*.usage('Usage: $0 --name [name] --template [Default, Java Based Selenium]')*

to

*.usage('Usage: $0 --name [name] --template [Default, Java Based Selenium, Java Based Appium]')*

* 1. Open C:\Program Files\RedwoodHQ\public\view\ProjectEdit.js , Search "Project Template" change

*store: ["Default","Java Based Selenium"]*

to

*store: ["Default","Java Based Selenium","Java Based Appium"]*

* 1. Open C:\Program Files\RedwoodHQ\routes\scripts.js , Search for CreateNewProject and add one if-else condition

|  |
| --- |
| *if (template == "Java Based Selenium") {*  *template = "java\_project\_selenium";*  *}*  *else{*  *template = "java\_project";*  *}* |
| Change To |
| *if (template == "Java Based Selenium") {*  *template = "java\_project\_selenium";*  *}*  *else if (template == "Java Based Appium") {*  *template = "java\_project\_appium";*  *}*  *else{*  *template = "java\_project";*  *}* |

* 1. Now you will be able to create new project in RedwoodHQ with Appium using Create new project and start writing your test

# Before Running the Test

1. How to start appium on particular port:

run "**appium -p 4496 -bp 2255**" on your terminal or for IOS you can run "**appium -p 4492**" like this.

* 1. 4496,4492 are the port on which we listen appium http server response.
  2. 2255 is the port for Bootstrap port needed for Android only Used by appium to talk to android device
  3. if you want multiple appium session for paralell testing please make sure port for each session is different and bootstarp port should also be different for each android test session.
  4. The final url for lstening will be something like this "<http://0.0.0.0:4492/wd/hub>" and "<http://0.0.0.0:4496/wd/hub>"

1. How to get udid of device :
   * Android:

connect your device to your system and run "**adb devices**" on terminal you will get udid for all the device connected

* + IOS:

connect your device to your system then open the Xcode goto Windows-> Device-> select your device you will see the udid in identifier field.

3. How to Find Launch Activity:

Open terminal and run following command

"{**AAPT\_DIRECTORY**}/aapt dump badging {**APK\_FULL\_PATH**} | grep launchable-activity:\ name"

Ex:

/Users/dinkark/Library/Android/sdk/build-tools/24.0.3/aapt dump badging /Users/dinkark/Documents/AppiumTest/app/Android/Whatsapp.apk | grep launchable-activity:\ name

4.To Run a test case you have to make sure the following things are running

* + RedwoodHQ agent (<http://www.manula.com/manuals/primatest/redwoodhq/2.0/en/topic/redwoodhq-agent>)
  + Appium on desired port
  + Device is connected or emulators are running