

Mobile Automation Setup

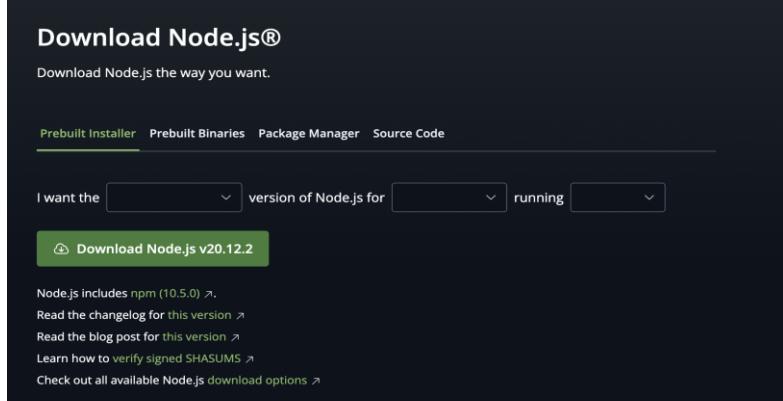
★ Java Setup

- Java JDK installation
 - <https://www.oracle.com/java/technologies/javase/jdk17-archive-downloads.html>
 - Download the installer as per the system configuration.
 - Extract the zip
 - Install on system
- Validate the Installation
 - Open the Terminal/CMD hit the following command to validate the installation.
 - `java -version`



```
→ ~ java -version
java version "17.0.8" 2023-07-18 LTS
Java(TM) SE Runtime Environment (build 17.0.8+9-LTS-211)
Java HotSpot(TM) 64-Bit Server VM (build 17.0.8+9-LTS-211, mixed mode, sharing)
```

★ NodeJS and NPM

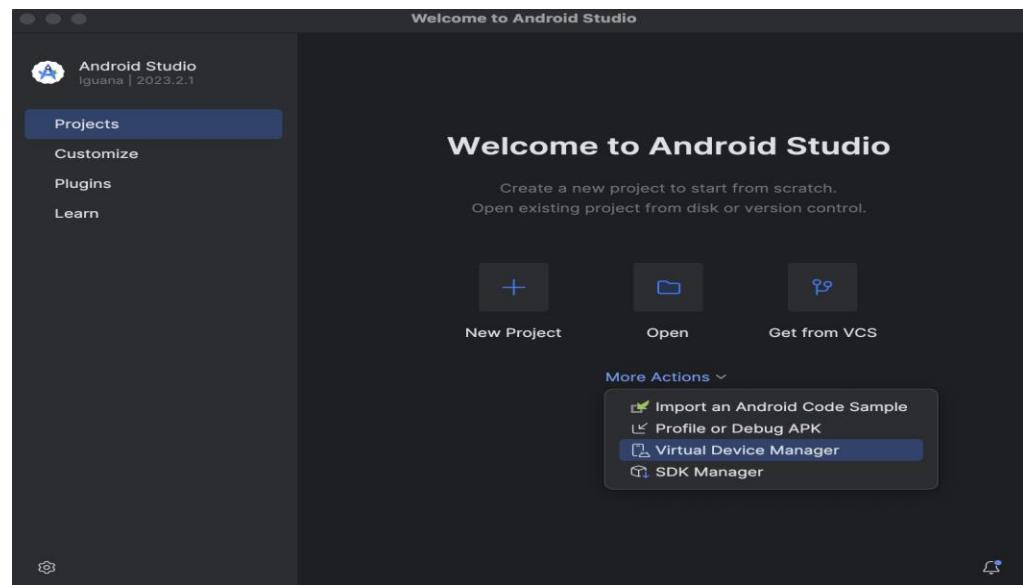
- NodeJs installation
 - <https://nodejs.org/en/download/>
 - 
 - Download and install
 - Validate the changes
 - Open the Terminal/CMD hit the following command to validate the installation.
 - `node -v`
 - `npm -v`

★ Command-line tool setup (iOS)

- Home brew installation
 - <https://brew.sh/>
 - Open the Terminal hit the following command to install the brew.
 - /bin/bash -c "\$(curl -fsSL <https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh>)"

★ Android Studio

- Android studio setup
 - https://developer.android.com/studio?gad_source=1&gclid=Cj0KCQjw_qexBhCoARIsAFgBleunWB8J7quXJM8MghE7Vlf_BE4A2chdssz895KER_bf-1EDMOWCtbYaAo4KEALw_wcB&gclsrc=aw.ds
 - Download the studio file and install it on the system.
 - Open Android studio
 - Click on the more option dropdown and select the Virtual Device Manager

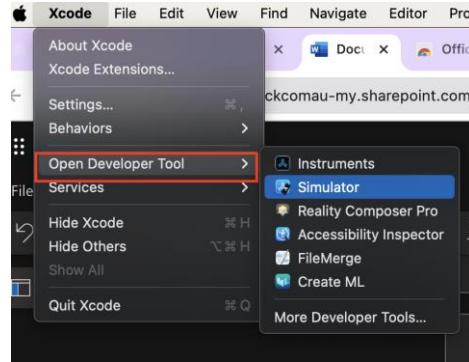


- From Device manager screen Click on the play button
- The emulator will open and boot.
- Open the CMD/Terminal
- Run the command to check the UDID of device
 - **Adb devices**

★ Xcode

- Xcode setup

- Open the Apple store, download the latest Xcode version and install it on the system.
- Simulator setup
 - Open the Xcode create the test project and choose the template pop-up screen will open.
 - Click on iOS and download the simulator file.
 - Click on the location tab and select the SDK version on Xcode app.



- Click on the
- Right click on simulator app
- Click on devices, select the device from list, and click on it.
- Device will boot
- Run the command to check the UDID of device
 - `xcrun simctl list | grep Booted`

★ ZSH Setup – MAC Book Setup.

- Open the Terminal/CMD hit the following command to install the zsh.
 - `sh -c "$(curl -fsSL`
 - Run the `zsh --version` and validate the installation.
 - Run the following commands to configure the ZSH.
 - To create the `zshrc` file
 - `Nano ~/.zshrc`
 - To Open existing `zshrc` file
 - `Open ~/.zshrc`
 - Copy - paste the following PATH in ZSH file.
 - `export JAVA_HOME=$(/usr/libexec/java_home)`
 - `export PATH=$PATH:~/Library/Android/sdk/platform-tools`

- `export ANDROID_HOME=~/Library/Android/sdk`
- `export PATH="$HOME/.bin:$PATH"`
- `export PATH="~/Library/Android/sdk/platform-tools":$PATH`
- Using keyword use the following command
 - **Control + X**
 - Click “Y”
 - Hit the return button
- Boot the zsh file hit the following command
 - `Source ~/.zshrc`

★ Appium 2 Setup

- Appium Driver installation
 - Run the following command to install the Appium
 - `npm i --location=global appium`
 - To validate the appium version
 - `Appium -v`
 - To run the appium server
 - `appium`
- Android driver installation
 - Runt the following command to install the uiAutomator2
 - `appium driver install uiautomator2`
- IOS driver installation
 - Runt the following command to install the xcuitest
 - `appium driver install xcuitest`
- To update the Android and iOS driver just replace the `install` to `update` for installation driver command.
- To validate the drivers are install or not
 - `appium driver list --installed`

```
~ appium driver list --installed
✓ Listing installed drivers
- xcuitest@7.13.0 [installed (npm)]
- uiautomator2@3.0.5 [installed (npm)]
~
```