

## =====5\_Appium setup on Windows=====

### Softwares:

#### Appium CLI

- a. Node (**node -v**)
  - i. <https://nodejs.org/en/download/>
  - ii. Go with the LTS version (Long Term Support Version - Stable)
  - iii. .msi file for WIN OS
  - iv. The path will be automatically set in Environment variables for Windows (confirmed)
- b. Npm (**npm -v**)
  - i. This will be installed as part of node js
  - ii. No need to explicitly install this
- c. Appium CLI:
  - i. To install Appium CLI: **npm install -g appium**
  - ii. To know the version: **appium -v**
  - iii. To get the location of Appium installation: **where appium**
  - iv. To start the Appium server: **appium**

```
C:\Users\rajatverma01>appium -v
1.22.0

C:\Users\rajatverma01>where appium
C:\Users\rajatverma01\AppData\Roaming\npm\appium
C:\Users\rajatverma01\AppData\Roaming\npm\appium.cmd

C:\Users\rajatverma01>appium
[Appium] Welcome to Appium v1.22.0
[Appium] Appium REST http interface listener started on 0.0.0.0:4723
```

- 1.
2. Appium started on 0.0.0.0:4723
3. 4723 - Default port for Appium start
4. To get help for Appium commands: **appium --help**
5. To run Appium server on a different port: **appium -p 4725**
- v. To stop the Appium server: **Ctrl+C**

#### Appium Desktop

- a. <https://appium.io/downloads.html>
- b. <https://github.com/appium/appium-desktop/releases/tag/v1.22.0>
- c. **Appium-Server-GUI-windows-1.22.0.exe**
- d. This is the latest version:

**i. They are not giving Appium Inspector included in this app**

1. This inspector helps in identifying the UI elements for Native apps.
- ii. You need to download other applications:
  1. <https://github.com/appium/appium-inspector/releases>
  2. **Appium-Inspector-windows-2021.9.2.exe**

NOTE:

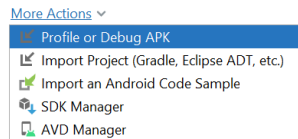
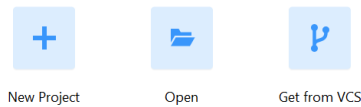
1. We have installed Appium CLI and Appium Desktop app
2. **We can not run both on the same ports**
  - a. To run Appium server on a different port: **appium -p 4725**

**Java JDK -1.8**

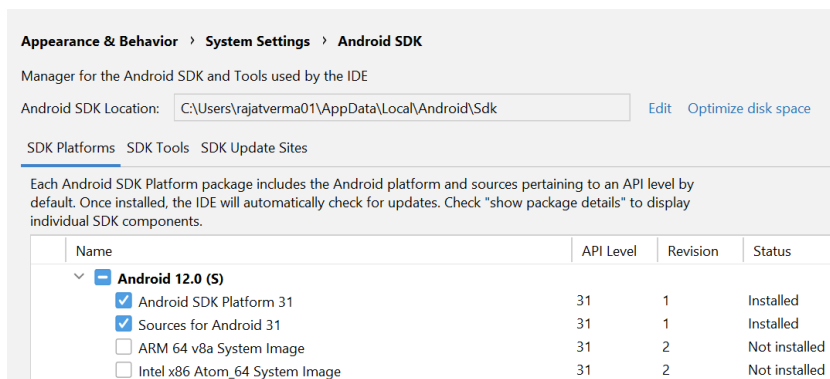
- a. <https://www.oracle.com/java/technologies/downloads/#java8-windows>
- b. **jdk-8u311-windows-x64.exe**
- c. To check Java is installed in your machine: **java -version**

**Android Studio**

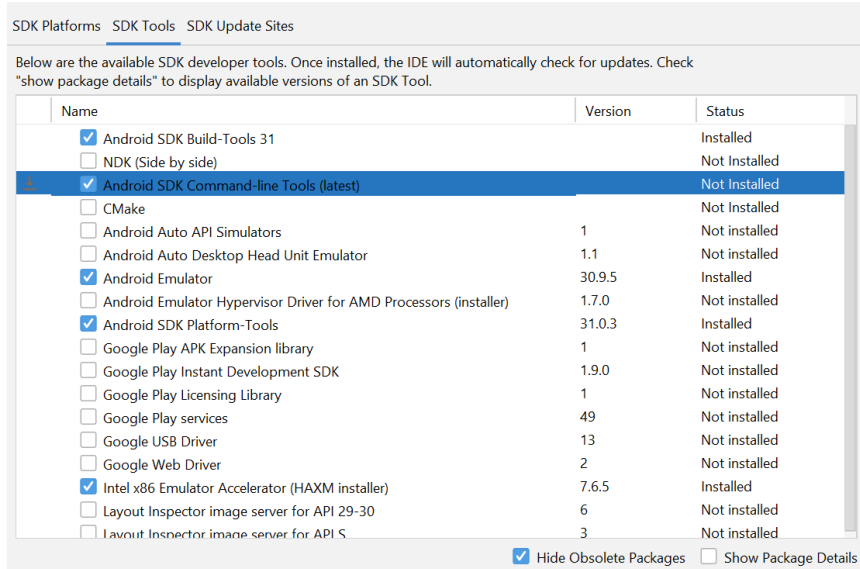
- a. <https://developer.android.com/studio>
- b. Download and Install it with default settings.
- c. Let it download the required files.



- d.
- e. More Actions -> SDK manager



- f.



g.

i. To install Android SDK Command-line tools

1. Click on Apply -> Ok -> Accept -> Next -> Finish

h. SDK path:

i. **C:\Users\rajatverma01\AppData\Local\Android\Sdk**

ii. Make sure that folders are present

1. platform-tools

2. tools

a. Bin

i. Path setup:

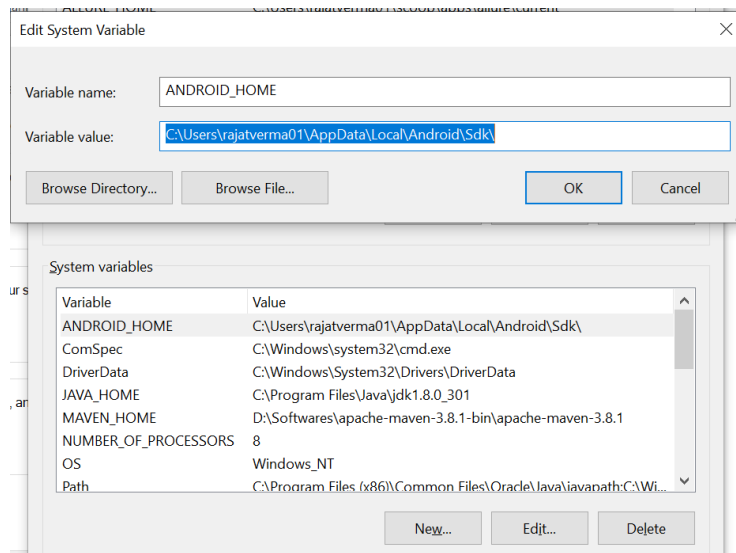
i. User variables:

1. C:\Users\rajatverma01\AppData\Local\Android\Sdk\

ii. System variables:

1. ANDROID\_HOME -

C:\Users\rajatverma01\AppData\Local\Android\Sdk\



## 2. Path -

- a. %ANDROID\_HOME%\platform-tools
- b. %ANDROID\_HOME%\tools
- c. %ANDROID\_HOME%\tools\bin

%ANDROID\_HOME%\platform-tools

%ANDROID\_HOME%\tools

%ANDROID\_HOME%\tools\bin

d.

### iii. Commands:

1. To verify that SDKManager path has been set properly: **sdkmanager --version**
2. To get the list of SDKManager command **sdkmanager --list**
3. To get the list **adb**

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### Appium Doctor

- a. To install appium-doctor: **npm install -g appium-doctor**
- b. To get help: **appium-doctor --help**
- c. To check Android setup: **appium-doctor --android**

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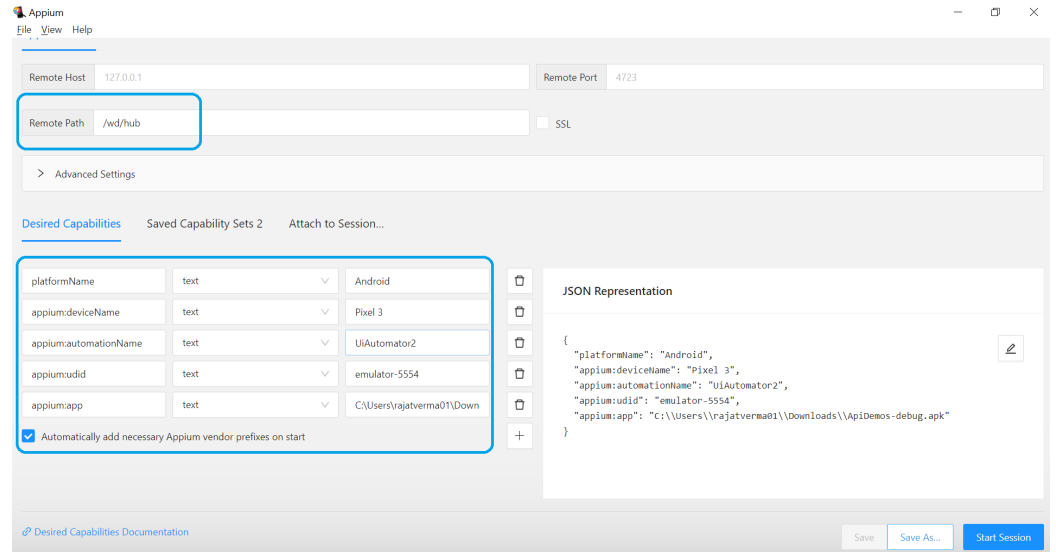
### Emulator setup (Create AVD):

- a. Open Android Studio
  - i. More actions -> AVD Manager
    1. Category -> Phone
    2. Name -> Pixel 3 -> Next
    3. System Image -> Select Latest
- b. AVD name: Pixel 3

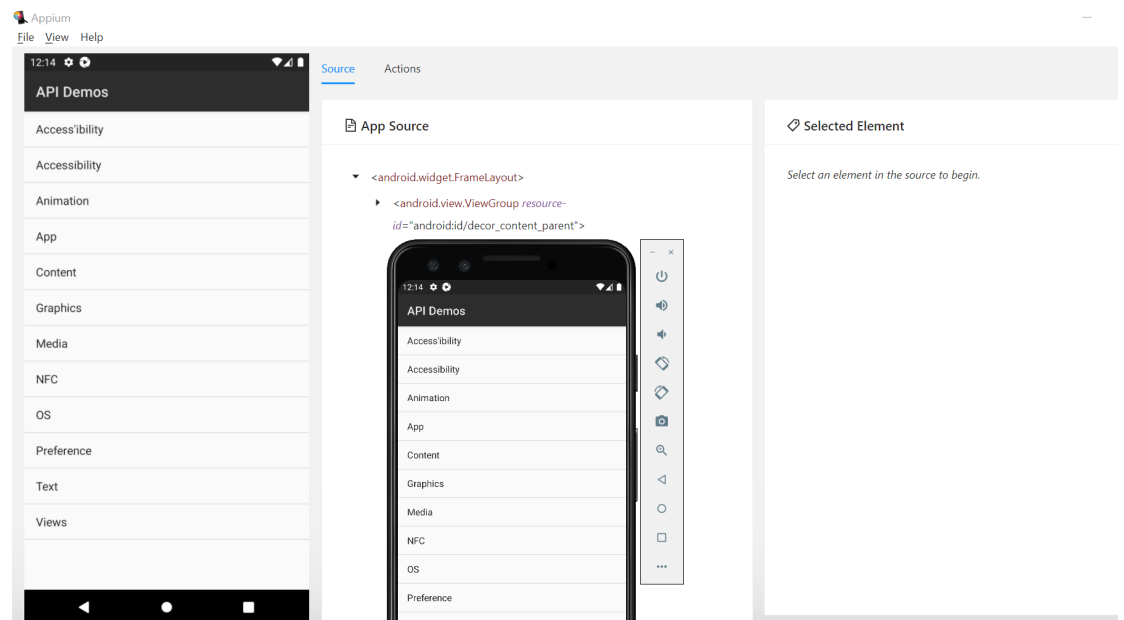
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### Create Driver Session using Appium Desktop:

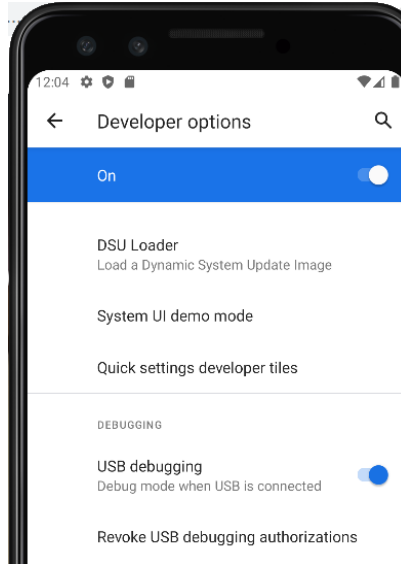
- a. Start Appium Server GUI
  - i. ***The server should be running***
- b. Start Appium Inspector -> Configurations for Desired Capabilities:
  - i. Remote Path: /wd/hub
  - ii. platformName : Android
  - iii. deviceName: Pixel 3
  - iv. automationName: UiAutomator2
  - v. udid: emulator-5554
  - vi. app: C:\Users\rajatverma01\Downloads\ApiDemos-debug.apk



- vii.
- viii. Click on the Start session button and check whether the application is launched on Emulator or not



- ix.
- c. NOTE:
  - i. To get UDID of device: **adb devices**
  - ii. DeviceName need not to be matched
  - iii. **If your device is unauthorized:**
    1. Open Settings in your device
    2. Go to About phone
    3. Click 7 times on Build number -> You'll become Developer
    4. System -> Advanced -> Developer Options
    5. Enable USB Debugging



a.

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### Real Device setup: Enable USB Debugging:

- a. Install the USB drivers
  - i. Google: <https://developer.android.com/studio/run/win-usb>
  - ii. OEMs: <https://developer.android.com/studio/run/oem-usb>
- b. Steps can differ based on the phone manufacturer!
  - i. Settings -> System -> About Phone -> Click Build Number 7-8 times
  - ii. Settings -> Developer Options -> Enable USB Debugging
  - iii. Permission pop-up: Check the box and press Allow to recognize the computer
- c. -> run "**adb devices**" in CMD prompt to check if the device is recognized

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### Vysor

- a. <https://www.vysor.io/download/>
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