***How to install appium on Windows***

There are two ways to install Appium on windows

**Way 1: Installing appium with Node.js**

**Step 1:** Check if node.js is installed on your system

***node --version***

***npm --version***

If node.js is not on your PC. Please follow the Step 2.

**Step 2:** Download node.js installer [https://nodejs.org/en/download/](https://www.youtube.com/redirect?event=video_description&redir_token=QUFFLUhqa1JYTzdoZTRYQ1VFa3VDSFE1Wnd3V1QtMmNjQXxBQ3Jtc0trUkdPR0xoNC1DckY5SXgyT1Noa21qWnczSTl6T0doRlFyR3VpTlhWQVUtOVEwS1NWcmNkemFwUmlNdEJZb3dZU1J5VzBrNjE5ZGx2bVBrVXZaR295M0FXOVB0TG5MM3RYa1RmSVY5bnFyMHZaSFV2UQ&q=https%3A%2F%2Fnodejs.org%2Fen%2Fdownload%2F)

**Step 3:** Run the installer & install node.js & npm

**Step 4:** Check if node.js & npm are installed

***node --version***

***npm --version***

***where node***

***where npm***

**Step 5:** Install appium with node.js

***npm install -g appium***

**Step 6:** Check if appium is installed

***appium -v***

***where appium***

**Step 7:** Start appium

***appium***

**Way 2: Installing appium with APPIUM DESKTOP CLIENT**

**Step 1:** Download appium desktop client for windows

<http://appium.io/>

<https://github.com/appium/appium-desk...>

**Step 2:** Install appium desktop client

**Step 3(Optional):** Start appium through appium desktop client

To check appium installation & dependencies

***Install appium-doctor***

<https://github.com/appium/appium-doctor>

***npm install appium-doctor -g***

***appium-doctor -h***

***appium-doctor –android***

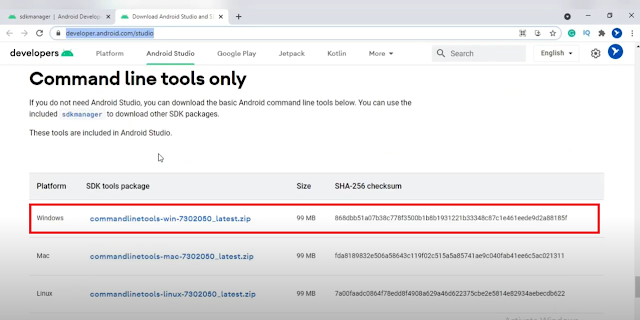
### **How To Download Android SDK using Command line and without android studio on Windows**

**PREREQUISITES:**

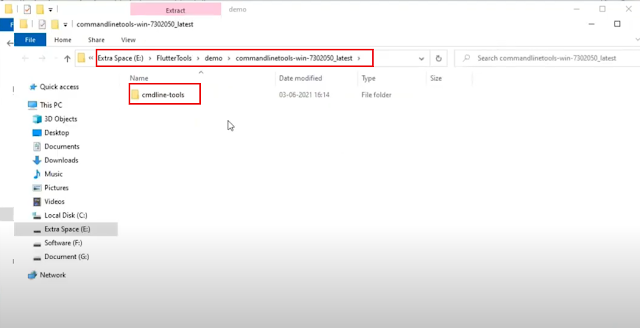
* Java installed on system
* JAVA\_HOME is set in environment variables
* Command to check: java -version
* 200 MB to 1 GB of free space

**Step 1:** You have to download the Command line tool from this URL: <https://developer.android.com/studio>

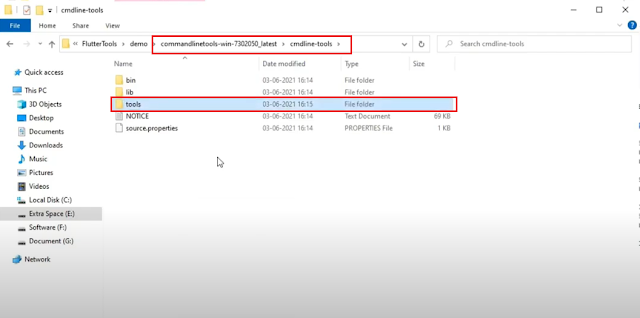
In this link download the **Command line tools only** for windows

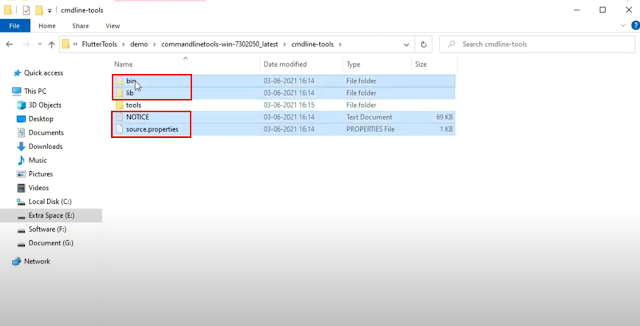
[](https://blogger.googleusercontent.com/img/a/AVvXsEhyGZY_TW7r-Z4UHo7TYWyUHJvHBvwub4CldWEpN6mxOU5MtzbHuv-_bbUTKrxPi1NeWv1Lx7YyVOXsEEzLz_C40Cz3k-F8SvIgI08hZh8BmCK8xJ0KFFor2hvUU-8w9pssMseVnzilmu-vHGDRpzfGhXyeu2ZtUWXOxQByZQZXb0RR4_FY7WqLnBb7=s1277)

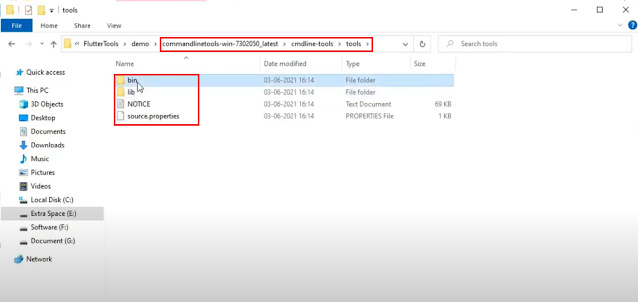
**Step 2:** Now, place the Downloaded "commandlinetools-win-xxxxxxx.zip" and extract it.

[](https://blogger.googleusercontent.com/img/a/AVvXsEiZt3pRl6pjQ9padF-b5apOPOqLM-qRxIYsad8v0AwvyQJ-WB1wSwRimIYgw8jLEkV-cdyIRD9nncI_jRqkLdJcWXVZnQMQIAbBOFVh_PpSkOVpua690a-SPtYGMlT_1zC4o4ph80JrHai5KwM0FMpuMqwtz0GSGKRhvQYxG6uq0XyHbAbCBCgAr1W3=s1051)

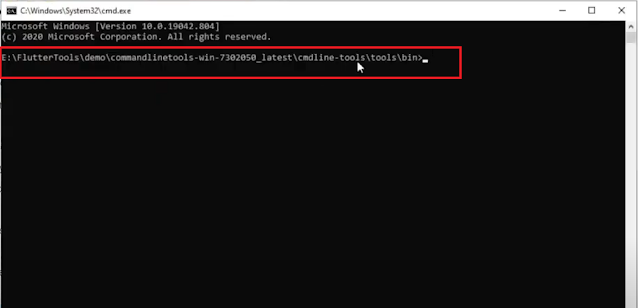
**Step 3:** After extracting the file in the "**cmdline-tools**" folder you have to create one folder named "**tools**" and Cut-Paste all files and folders like **"bin, lib, NOTICE, and source-properties**", in that tools folder.

[](https://blogger.googleusercontent.com/img/a/AVvXsEhNdfMjwuqoQMWTR870T3uG0LWDeVEpRcIFqUBCTdyhQvxgQJ_d12QB8mquVbWBPXbMdbtreKZhGniBTeKlp-e0thJwrwr3QzNaYvyxXBOjG4ws-kWD4vesv8nD-8KE5Zk970-7ThvB1Der8b7h8TsbxAZPh5Qn0BnutuMgIjVRk7vAU6wt6NSg68l4=s1056)

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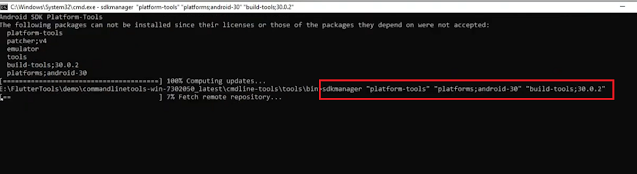
**Step 4:** Now open the command prompt window in "**cmdline-tools\tools\bin**" folder.

[](https://blogger.googleusercontent.com/img/a/AVvXsEi9kqGLkgrs7Tww0tmsWWG6ZwSpnFHVwlmcVIQ9IPTY7pea8j0i7EAqDOBjoiDFvHjywfe23i5vVkYPoZn3Z0OlpjNj_jO4fRRGRlUDDWoUB_iD8PWYgDcFI89dJzHv00aUl3v4mR97kocTYrErOA_BegcDJmT8DzeJs7Dsd2mXg4aBxqtlQQ4D-B5-=s922)

**Step 5:** now in cmd, you have to enter this command:

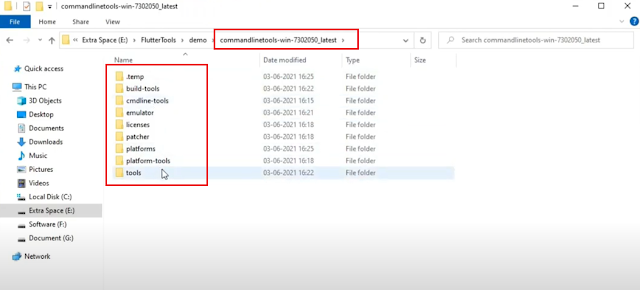
***sdkmanager "platform-tools" "platforms;android-30" "build-tools;30.0.2"***

**Note:** Here, you can enter your specific android version or the latest android version. in my case, I entered "android-30" and "build-tools;30.0.2"

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**Step 6:** Enter the above command and wait for the download SDK. During downloading SDK it asks for an accept android license. then just place "Y".

**Step 7:** In the root folder "commandlinetools-win-xxxxxxx" your android SDK is ready for use.

[](https://blogger.googleusercontent.com/img/a/AVvXsEgFb8B4MebouvMDn_YVYhdNt9RMz2xV6iYWzyqknPn_LwMXEnZfqxw0FkIGDQ1yr0wfBhbFSiYI9_XKHT5Ux1DcOkw6xgf_yDyRrSF1yerGGsHzEVZNSIfGRe4W25yyE2F5nFJPwgZKeqkveruzkAsWWJcFC8k5-SQPblg39-8m37RPfWJNPnuNw2Oj=s1052)

**Step 8:** Set environment variables

**ANDROID\_HOME** = location of android-sdk folder

**Path:** append path of platform\_tools folder

**Step 9:** Check command ***adb*** on command line to verify the sdk manager is downloaded.

### **How To Connect Real Android Mobile Device on Windows**

**PREREQUISITES:**

* An android mobile device
* Connecting cable

**Step 1:** Make device ready

- enable developer mode

- make USB Debugging on

**Step 2:** Connect device to computer system thorugh USB cable

- if asked enable USB Debbugging

**Step 3:** Run command

***adb devices***

adb = android debug bridge

Check your device id displayed.

**Appium Additional Information**

* Appium works in a client-server architecture
* Appium is an ‘HTTP Server’ written using – Node.js platform

**Client libraries**

Java

Python

C#

Javascript

Ruby

PHP

Robot Framework

**Desired Capabilities**

Desired capabilities are a set of keys and values sent to the Appium server to tell the server what kind of automation session we're interested in starting up

Useful links Appium official documentation

<http://appium.io/docs/en/about-appium...>

Appium Design

[http://appium.io/docs/en/about-appium...](https://www.youtube.com/redirect?event=video_description&redir_token=QUFFLUhqbXZhRE1MUXhrM0JjMXJrb0dvNEEwSW94dHVwUXxBQ3Jtc0trb1k3SkwzOXM0TU9ERFBsNTN4YUlYY01wbG8wSGowZ1V4YjA2MjBpZ3h0M095SEp0RkFFR20wSmNocy1WTEE3YXV4V0RFek9BbXBFd3VSOG9zZ2t1OWJzbFZtbjVOZ2o0Z0I5bmxPLU0tUFFWbTZ3QQ&q=http%3A%2F%2Fappium.io%2Fdocs%2Fen%2Fabout-appium%2Fintro%2F%23appium-design)

Desired Capabilities

<http://appium.io/docs/en/about-appium...>