

APPIUM TUTORIAL

What is Appium?

Appium is a mobile application testing tool that is currently trending in **Mobile Automation Testing Technology**.

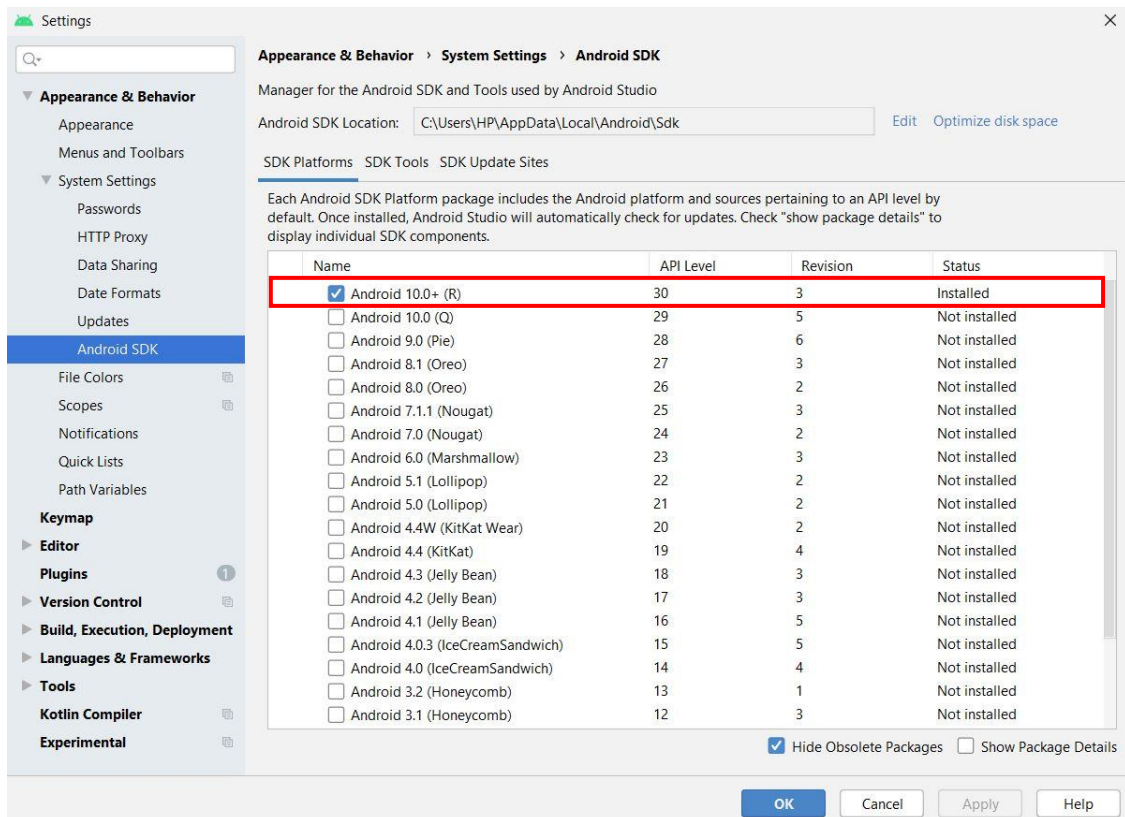
Appium is an open-source automation mobile testing tool, which is used to test the application. It is a cross-platform mobile automation tool, which means that it allows the same test to be run on multiple platforms. Multiple devices can be easily tested by Appium in parallel. Appium is used for automated testing of **native**, **hybrid**, and **web** applications.

Prerequisites to use Appium

- Install **Java** (JDK)
- Install **Android Studio**
- Install additional Android **SDK tools**
- Install **Appium jar** file
- js (Not required - It by default comes with "node.js" and "NPM", whenever the Appium server is installed. Therefore, it is not required to install node.js and NPM separately. It is already included in current version of Appium.)
- Install **Appium Desktop Client**
- Install **Eclipse IDE** for Java

Appium Installation on windows

1. Install and setup Java:
 - Download the latest version of Java
 - Setup Java Environment Variable.
2. Install and setup Android Studio
 - Download the Android Studio
 - Install additional Android SDK tools (make sure to install Android 10.0+ SDK from the settings)



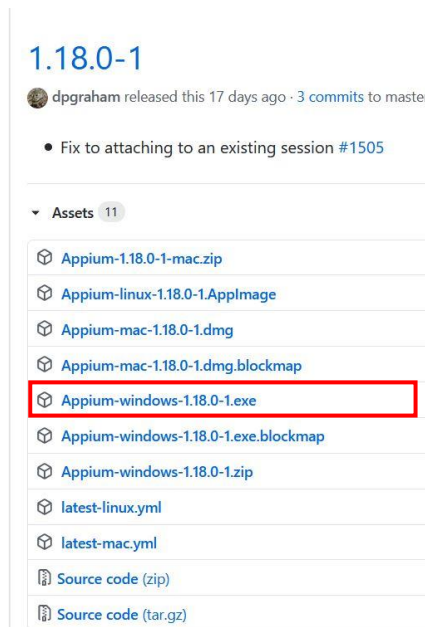
- Setup Android Environment Variable

3. Install the Appium Desktop Client by following these steps –

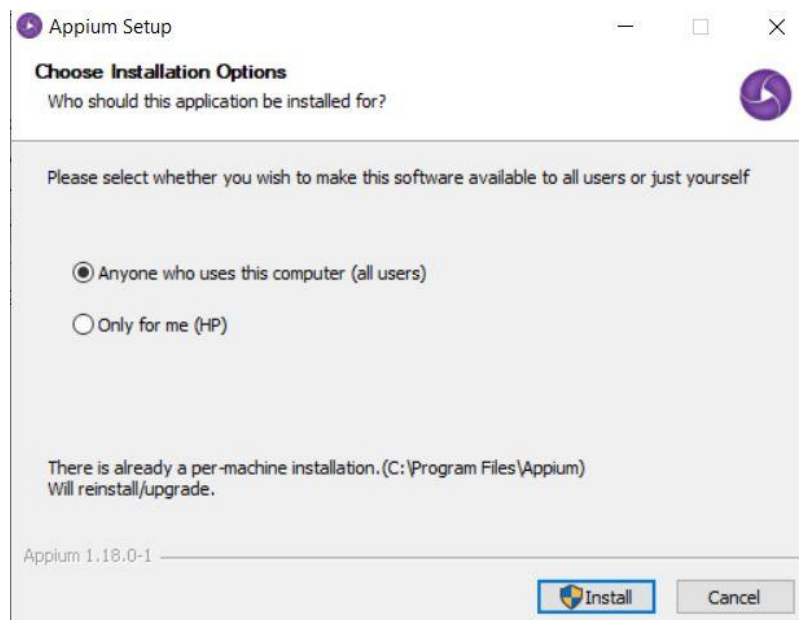
- Go to the following link <http://appium.io/> and click on the Download Appium button.



- For Windows OS, download the **exe file** of Appium desktop setup. So, click on the file as shown in below screenshot.

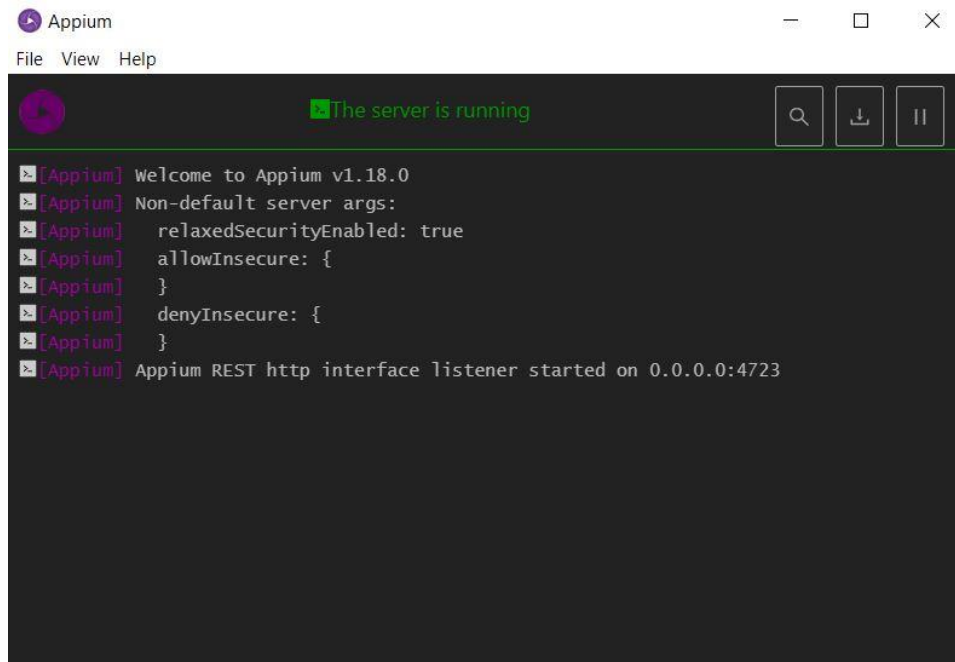


- After downloading the exe file, double click on the downloaded file to run.
- Here, you need to choose the installation options. You can select all users, if you have multiple users on your system, otherwise select only me for the administrator of the system. After choosing the installation option, click on the install button.

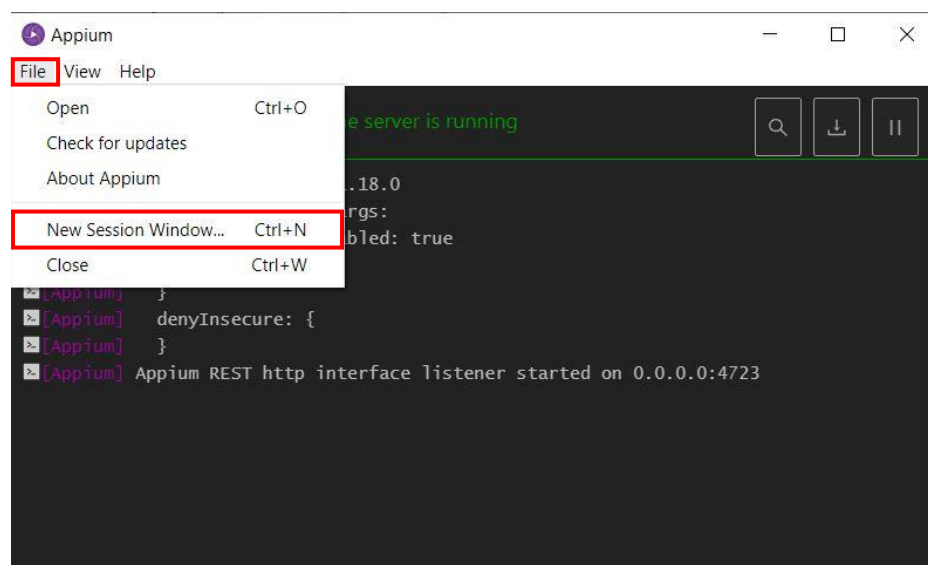


- This will start the installation, which may take time to install.
- Appium has been successfully installed on your system. For completing Appium setup, click on the Finish button. Note that Run Appium is checked. This will start the Appium Desktop.

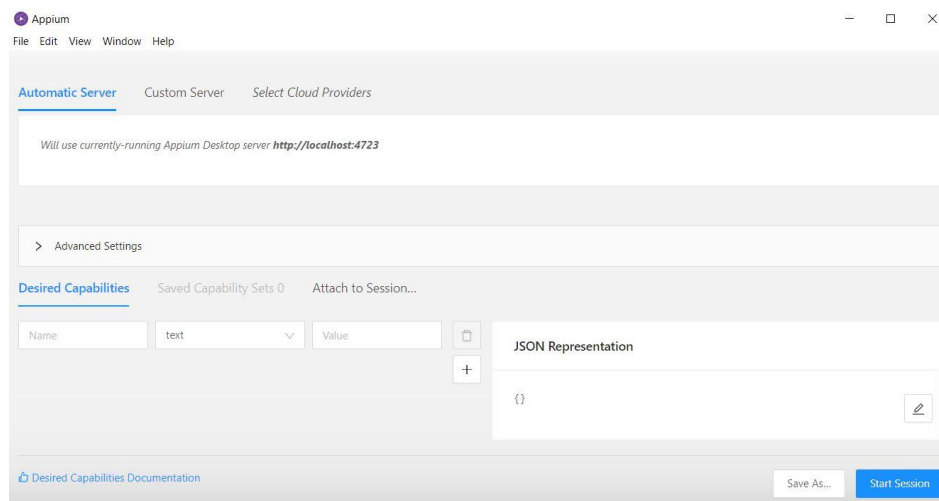
4. Now, Appium Desktop UI will appear on the screen containing the default Host and Port, which can be changed.
Default Host - 0.0.0.0
Default Port - 4723
Then click on the Start Server button and start Appium Server.
5. A new server will launch on the Host and Port specified in previous step. You will see the message on the top of the screen that Server is running.



6. Go to **File** and click on the **New Session Window**.



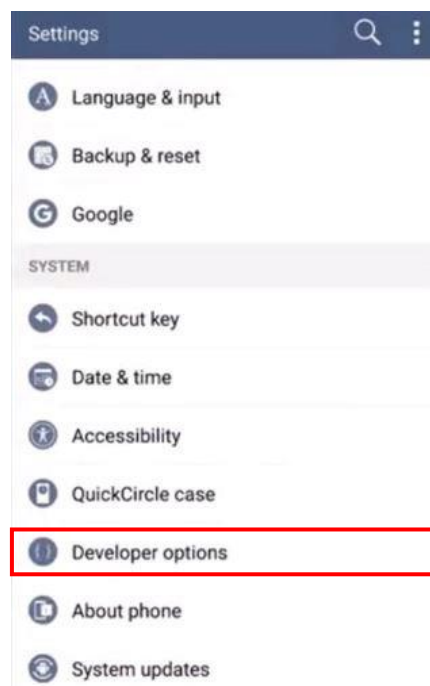
7. Provide all desired capabilities here and Click on the Start Session button to start a new session.



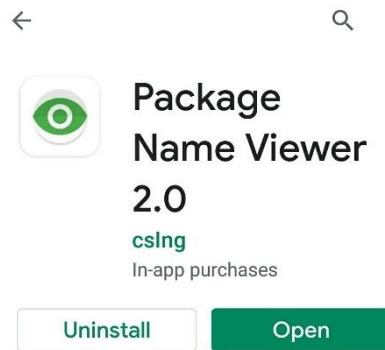
- Download Eclipse IDE for Java
- Download Appium Jar file for Eclipse
- Create a new Project for Appium in Eclipse
- Design test case to test application to launch the app on Android Device

8. Mobile configuration –

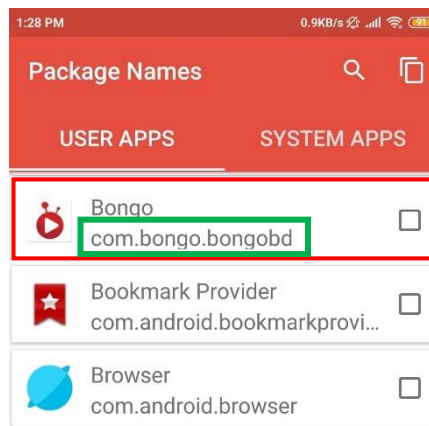
- You have to go on software info>>build number. Then you can start the developer option by clicking the build number 7-10 times continuously. Then turn on the USB debugging from the developer option.



9. Now you have to download the apk file of the application you want to test.
- Install the app (Example- “Bongo” app from google play store)
 - Download “package name viewer” from play store and find the app package for “Bongo” from this app.

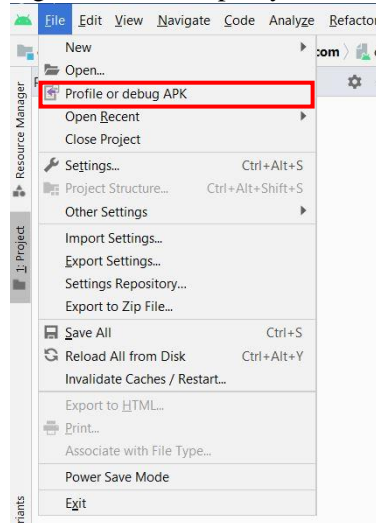


- Copy the app package by clicking -



- Go to this link : <https://apps.evozi.com/apk-downloader/> . Put the app package name and download the apk file from laptop/pc.

10. Open android sdk and open debug downloaded apk by android studio.



- open AndroidManifest.xml
- find main activities
- copy it

11. Open appium and do configure

12. For finding udid-

run command : adb devices

C:\Users\User>adb devices



```
C:\windows\system32\cmd.exe
Microsoft Windows [Version 10.0.18362.959]
(c) 2019 Microsoft Corporation. All rights reserved.

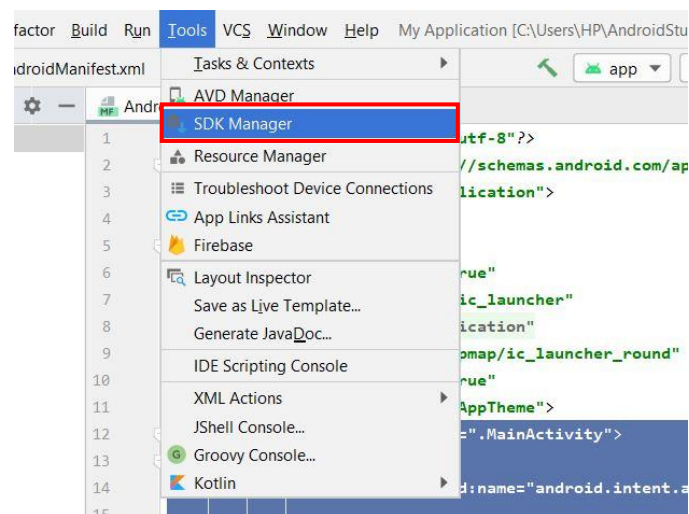
C:\Users\HP>cd c:\adb

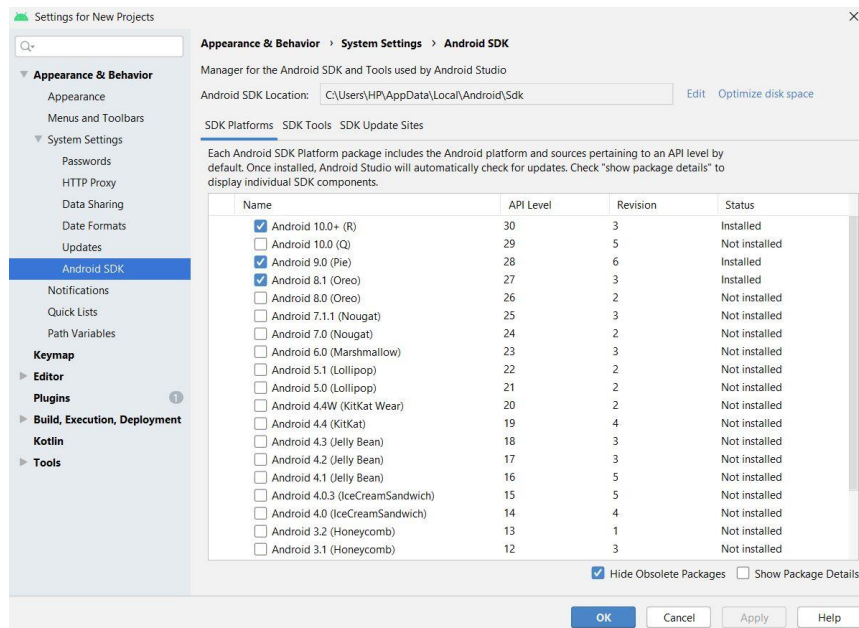
c:\adb>adb devices
* daemon not running; starting now at tcp:5037
* daemon started successfully
List of devices attached
f551a3d1    device

c:\adb>
```

List of devices attached
f551a3d1 device

If you face any prob like adb is not location pls update sdk from android studio.
Go to tools/-> SDK manager->update android 8.01





- You can also download platform tools of android sdk and copy that in C drive with the folder name “adb” and again run the command prompt to get uid of your device.