

## APPIUM WINDOWS INSTALLATION STEP BY STEP PROCEDURE

### Requirements

- Appium (latest version)
- Android SDK
- Any IDE
- Java (JDK) greater than 11
- Node JS (optional only if we use Appium GUI)

### IDE Installation

Install Eclipse or IntelliJ or any IDE of your choice. **(Note: Please have the latest version of the IDE)**

### Java Installation

1. To install java latest version, navigate to the below link [Java Downloads | Oracle India](#)
2. Click on the latest version of JAVA and download.

JDK 23    JDK 21    JDK 17    GraalVM for JDK 23    GraalVM for JDK 21    GraalVM for JDK 17

#### **JDK Development Kit 23 downloads**

JDK 23 binaries are free to use in production and free to redistribute, at no cost, under the [Oracle No-Fee Terms and Conditions](#) (NFTC).

JDK 23 will receive updates under these terms, until March 2025, when it will be superseded by JDK 24.

Linux    macOS    Windows

Product/file description	File size	Download
x64 Compressed Archive	228.76 MB	<a href="https://download.oracle.com/java/23/latest/jdk-23_windows-x64_bin.zip">https://download.oracle.com/java/23/latest/jdk-23_windows-x64_bin.zip</a> (sha256)
x64 Installer	205.26 MB	<a href="https://download.oracle.com/java/23/latest/jdk-23_windows-x64_bin.exe">https://download.oracle.com/java/23/latest/jdk-23_windows-x64_bin.exe</a> (sha256)
x64 MSI Installer	204.00 MB	<a href="https://download.oracle.com/java/23/latest/jdk-23_windows-x64_bin.msi">https://download.oracle.com/java/23/latest/jdk-23_windows-x64_bin.msi</a> (sha256)

3. After download completed, double click on exe file.
4. Once installation is completed, open the cmd prompt and enter the below command  
**java -version**
5. Should display the version of java installed.
6. If shown JAVA installation is completed.

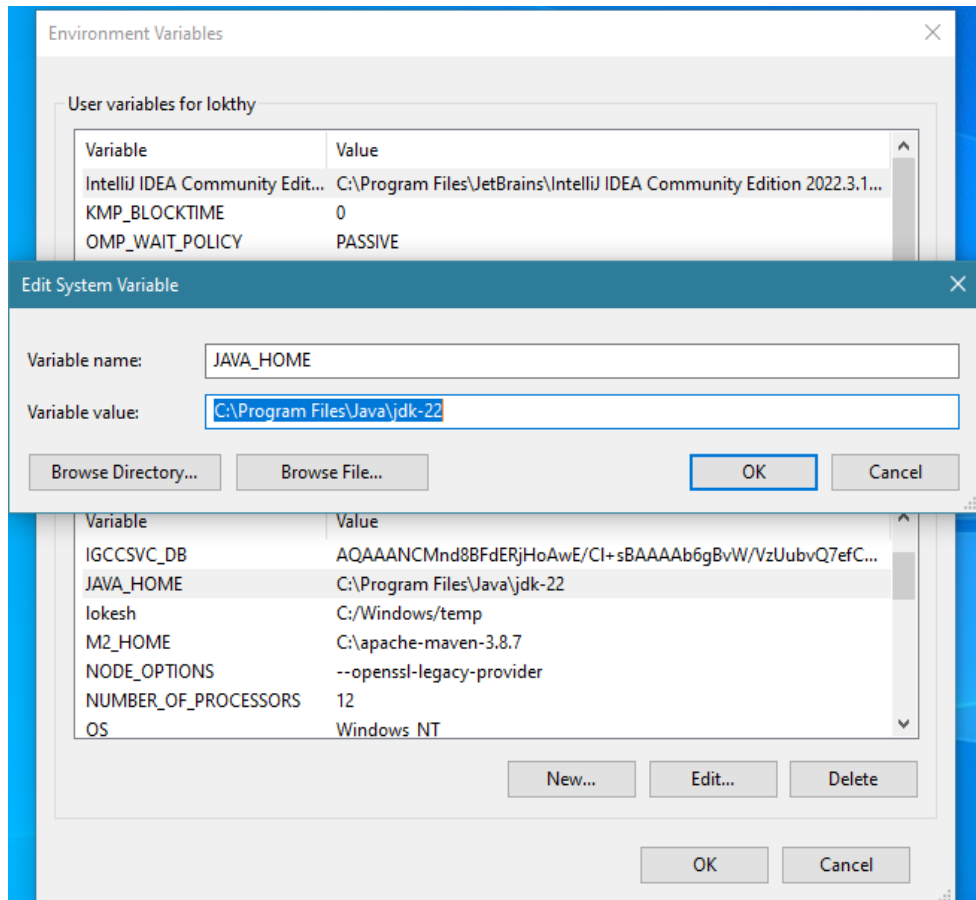
**NOTE: You can install any version of JDK which is greater or equal to version 11.**

### To set JAVA Path (Environment variables)

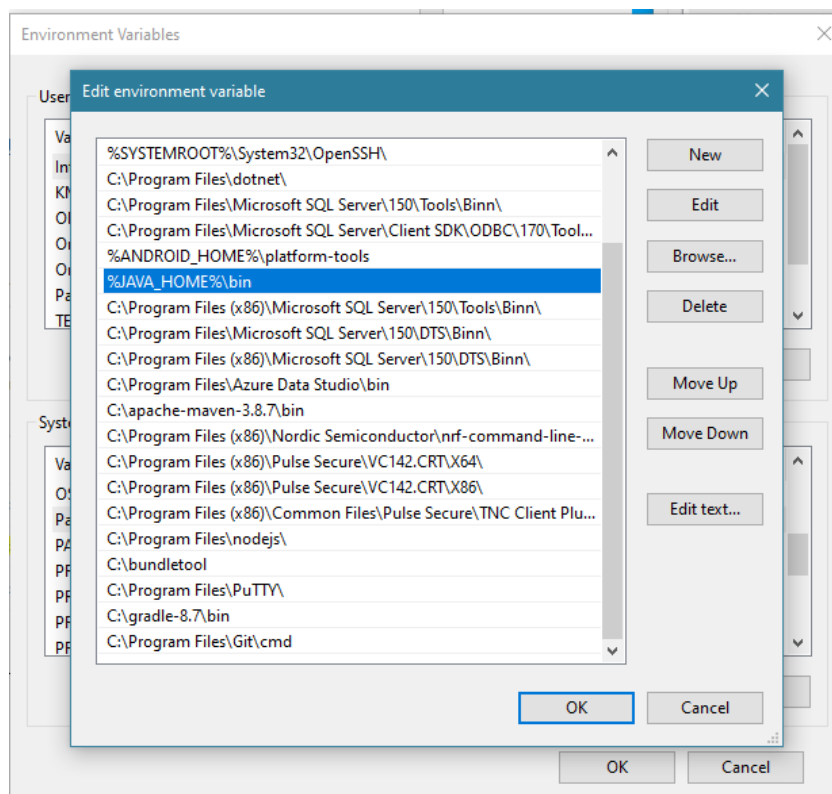
1. Go to Control Panel → System and Security → System → Click on Advanced System Settings
2. Click on the Environment Variables
3. Under System Variables → Click New (Don't use User Variables)

## **Appium Windows Installation**

4. Set **JAVA\_HOME** environment variable as **C:\Program Files\Java\ .....** (Note: Provide correct path of folder and it **bin** should not include at the end)



5. Select the **Path** system variable and click the Edit button
6. Add **%JAVA\_HOME%\bin** to the path variable and click OK



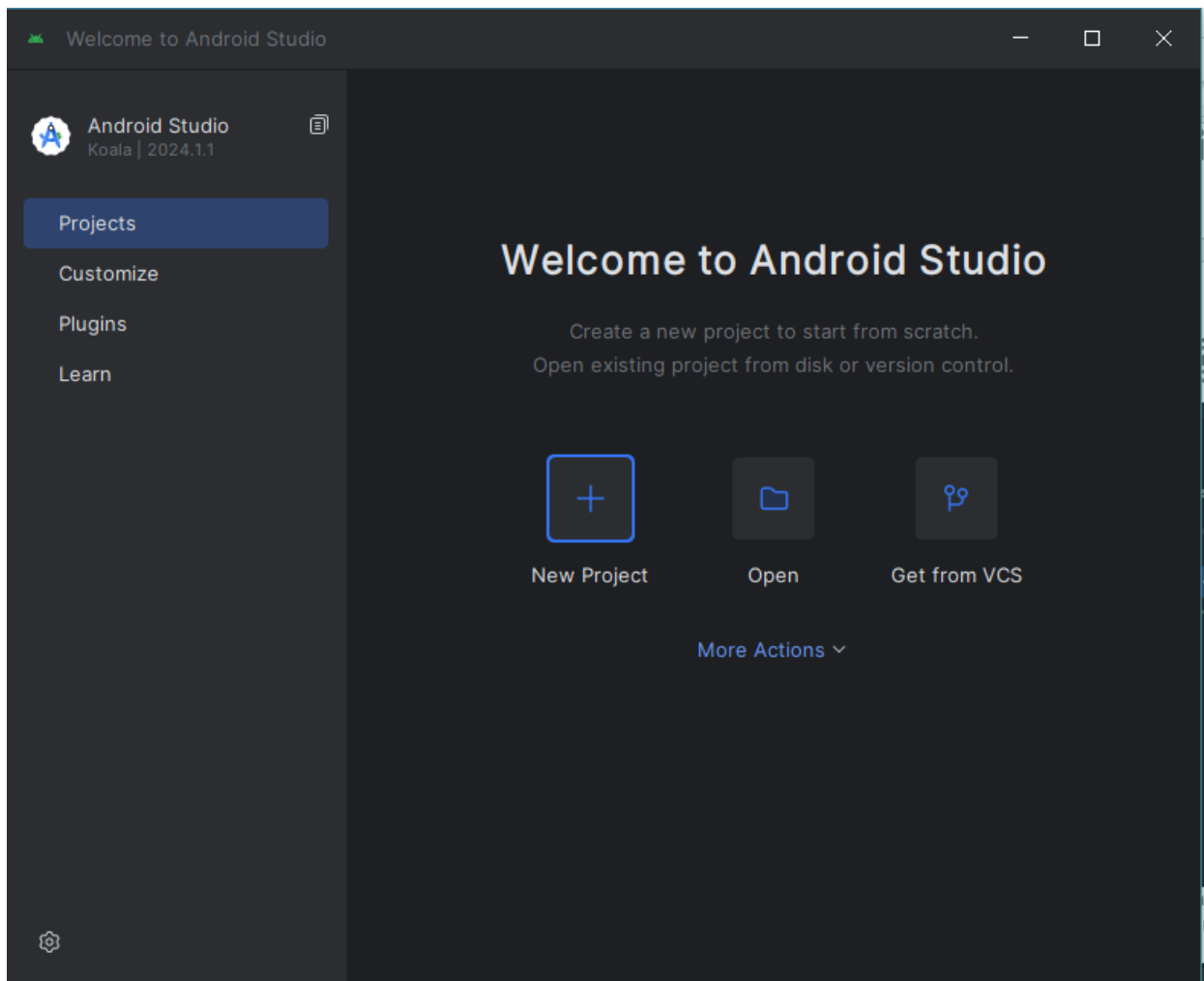
7. Save the environment variable screen.
8. Open a **new** cmd prompt and type **echo %JAVA\_HOME%** and verify the path is displayed in cmd prompt.
9. If **JAVA\_HOME** path is shown, then JAVA environment variable is set.

```
C:\Users\>echo %JAVA_HOME%
C:\Program Files\Java\jdk-22

C:\Users\>java -version
java version "22.0.1" 2024-04-16
Java(TM) SE Runtime Environment (build 22.0.1+8-16)
Java HotSpot(TM) 64-Bit Server VM (build 22.0.1+8-16, mixed mode, sharing)
```

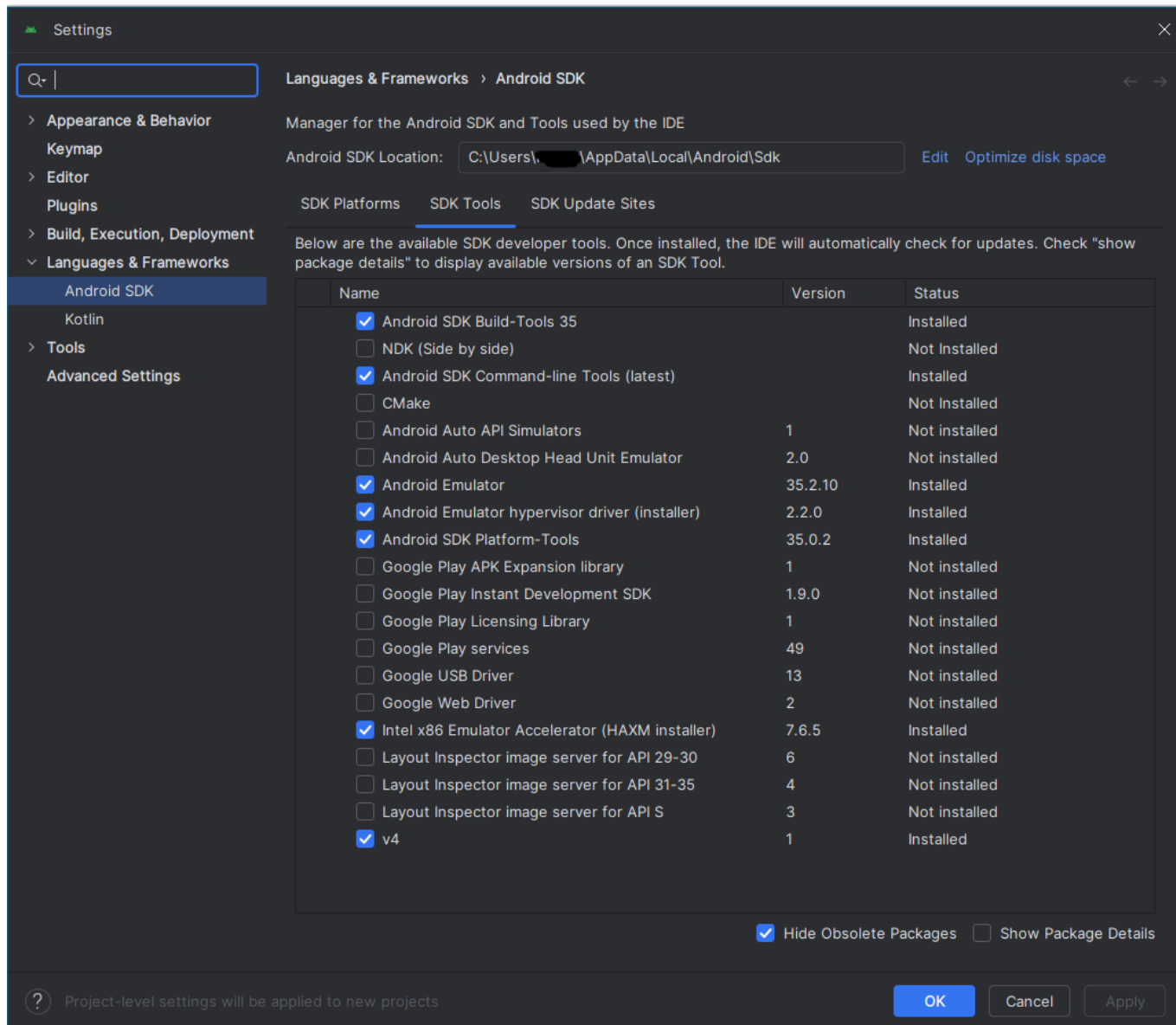
## Android Studio installation for Android SDK and Emulator

1. To download the latest version of Android Studio files navigate to below link
2. [https://developer.android.com/studio?utm\\_source=android-studio](https://developer.android.com/studio?utm_source=android-studio)
3. Download the android studio for WINDOWS and download it.
4. Once download is completed run the exe file and install Android Studio.
5. Open the Android studio and navigate to SDK Manager from the **More Actions** drop down



6. Click the SDK Tools tab and install the below **Mandatory** items
  - Android SDK Build Tools 35
  - Android SDK Command-line tools (latest)
  - Android SDK Platform – tools
7. Install the below optional items in case you would be using an emulator for your testing
  - Android Emulator
  - Android Emulator hypervisor driver (Install only if your processor is AMD)
  - Intel x86 Emulator Accelerator (HAXM Installer) (Install only if your processor is INTEL)

**Note: Emulator should be used only if you have 100 GB of free space in ROM and 6 to 8 GB of free space in RAM**

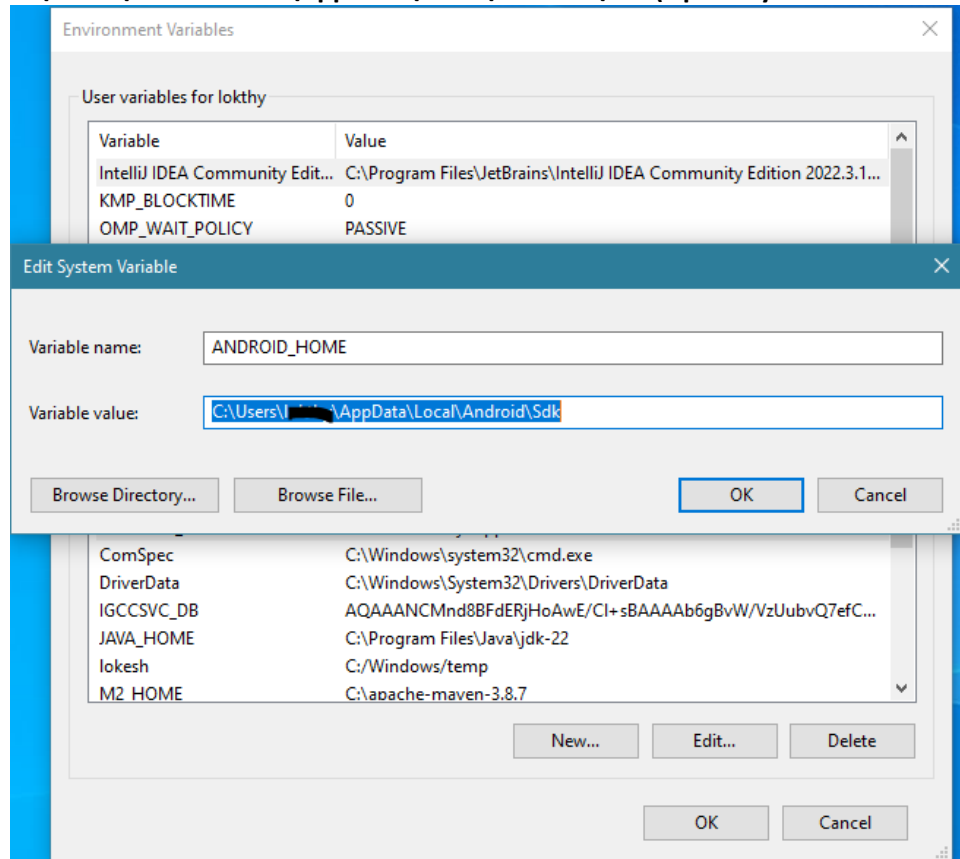


8. SDK will be installed in the given folder of WINDOWS  
**C:\Users\<User Name>\AppData\Local\Android\Sdk (Update your username in path)**  
 Note: You can also find the path in the SDK tools tab)
9. Go to Control Panel → System and Security → System → Click on Advanced System Settings
10. Click on the Environment Variables
11. Under System Variables → Click New (Don't use User Variables)

## Appium Windows Installation

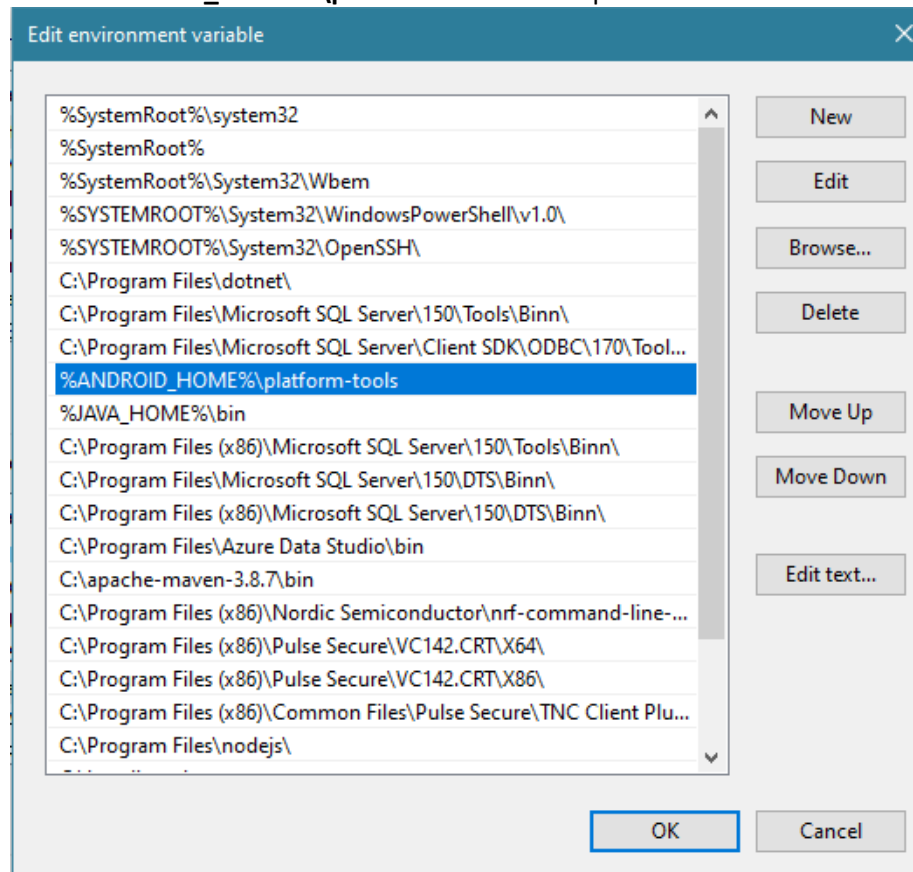
12. Set **ANDROID\_HOME** environment variable as

**C:\Users\<UserName>\AppData\Local\Android\Sdk** (Update your username in path)



13. Select the **Path** system variable and click the Edit button

14. Add **%ANDROID\_HOME%\platform-tools** to the path variable and click OK



15. Save the environment variable screen.
16. Open new cmd prompt and type **echo %ANDROID\_HOME%** and verify the path is displayed in cmd prompt.
17. If **ANDROID\_HOME** path is shown, then ANDROID\_HOME environment variable is set.

```
C:\Users\...>echo %ANDROID_HOME%
C:\Users\...\AppData\Local\Android\Sdk

C:\Users\...>adb --version
Android Debug Bridge version 1.0.41
Version 35.0.1-11580240
Installed as C:\Users\...\AppData\Local\Android\Sdk\platform-tools\adb.exe
Running on Windows 10.0.19044
```

### Install NodeJS

1. A stable version of Node JS can be downloaded from its [official website](#).



The screenshot shows the Node.js download page. At the top, it says "Download Node.js®" and "Download Node.js the way you want." Below this are four tabs: "Package Manager", "Prebuilt Installer" (which is selected), "Prebuilt Binaries", and "Source Code". Under the "Prebuilt Installer" tab, there are three dropdown menus: "I want the" with "v20.17.0 (LTS)" selected, "version of Node.js for" with "Windows" selected, and "running" with "x64" selected. Below these is a large green button that says "Download Node.js v20.17.0". At the bottom, there are several links: "Node.js includes npm (10.8.2)", "Read the changelog for this version", "Read the blog post for this version", "Learn how to verify signed SHASUMS", "Check out all available Node.js download options", and "Learn about Node.js Releases".

2. Download the latest stable version of Node JS depending upon your Operating System and Install it.
3. Once the installation is complete, open the terminal and type the command **node -v** and press enter. It should show the latest version of Node, confirming that node has been installed successfully on your local machine.
4. Next, type the command **npm -v** it should show the latest version of npm installed on your machine. **npm** comes bundled with node and should get installed automatically with Node JS.

## Appium Windows Installation

```
C:\Users\...>node -v
v20.17.0

C:\Users\...>npm -v
10.8.3
```

### Appium 2.0 installation

1. With NodeJS installed successfully, we can now install Appium. Open the terminal/command prompt and type the below command

**npm install -g appium**

```
C:\Users\...>npm install -g appium
npm WARN deprecated typedoc-plugin-resolve-crossmodule-references@0.3.3: Upgrade to typedoc >= 0.24 and remove typedoc-p
ugin-resolve-crossmodule-references from your dependencies

added 4 packages, and changed 479 packages in 43s

57 packages are looking for funding
  run `npm fund` for details
npm notice
npm notice New major version of npm available! 9.8.0 -> 10.1.0
npm notice Changelog: https://github.com/npm/cli/releases/tag/v10.1.0
npm notice Run `npm install -g npm@10.1.0` to update!
npm notice
```

2. To verify that the Appium was successfully installed lets check its version by typing the following command in the terminal  
appium -v

```
C:\Users\...>appium -v
2.11.5
```

3. We can see that version 2.X.X is displayed in the output. This means we have installed the latest version of Appium successfully.

### Appium Driver Installation

1. With Appium 2.0, we need to install the drivers separately
2. To lists all the drivers available for download, run the below command in cmd prompt  
**appium driver list**

```
C:\Users\...>appium driver list
✓ Listing available drivers
- uiautomator2 [not installed]
- xcuitest [not installed]
- mac2 [not installed]
- espresso [not installed]
- safari [not installed]
- gecko [not installed]
- chromium [not installed]
```

3. To install *uiautomator2* driver, the following command should be run in cmd prompt  
**appium driver install uiautomator2**

## Appium Windows Installation



```
C:\Users\...>appium driver install uiautomator2
✓ Installing 'uiautomator2' using NPM install spec 'appium-uiautomator2-driver'
i Driver uiautomator2@2.29.10 successfully installed
- automationName: UiAutomator2
- platformNames: ["Android"]
```

4. To reverify *uiautomator2* is installed properly run the driver list command again

```
C:\Users\...>appium driver list
✓ Listing available drivers
- uiautomator2@3.8.0 [installed (npm)]
- xcuittest [not installed]
- espresso [not installed]
- mac2 [not installed]
- windows [not installed]
- safari [not installed]
- gecko [not installed]
- chromium [not installed]
```

#### Installing appium-doctor (optional)

1. To install appium-doctor run the following command in terminal

**npm install -g appium-doctor**

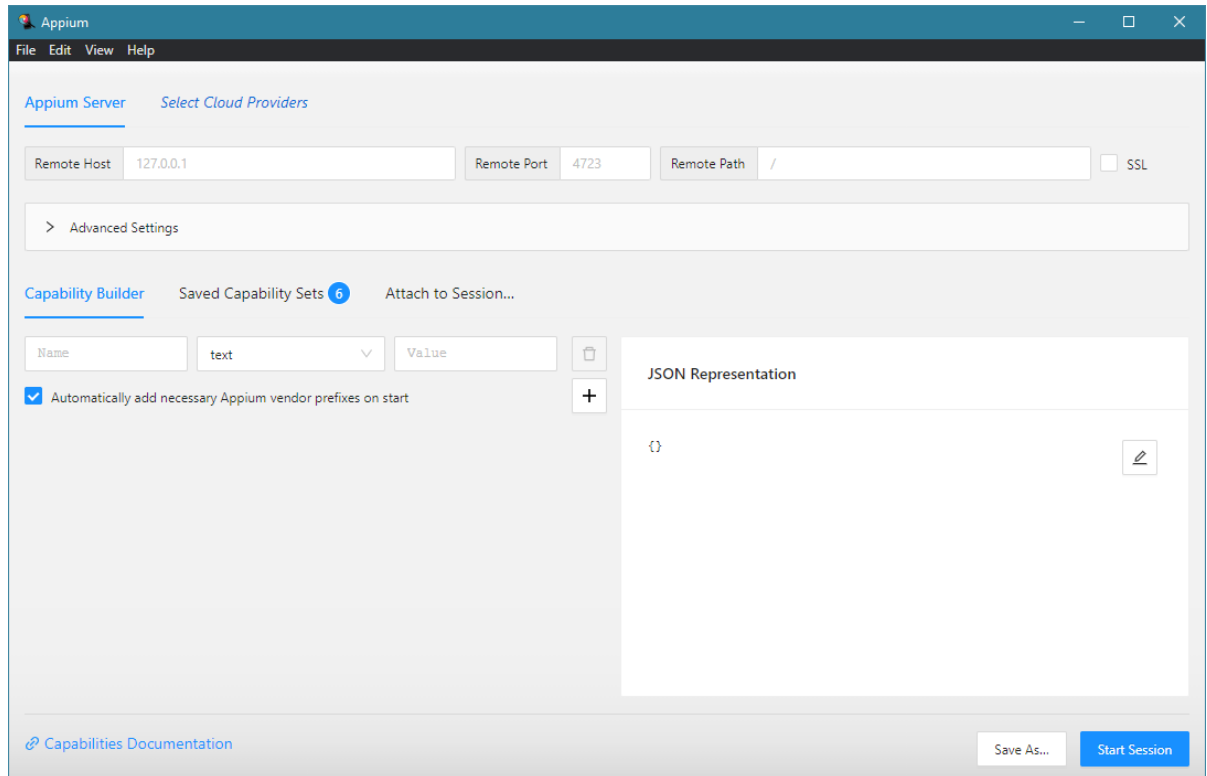
```
C:\Users\...>npm install -g appium-doctor
npm WARN deprecated debug@4.1.1: Debug versions >=3.2.0 <3.2.7 || >=4 <4.3.1 have a low-severity ReDos regression when used in a Node.js environment. It is recommended you upgrade to 3.2.7 or 4.3.1. (https://github.com/visionmedia/debug/issues/797)
npm WARN deprecated authorize-ios@1.2.1: Moved into appium
added 266 packages in 24s
27 packages are looking for funding
```

#### Appium Inspector installation

1. Navigate to <https://github.com/appium/appium-inspector/releases/latest> for the latest Appium inspector installation executable file.
2. Download the Windows executable file. i.e **Appium-Inspector-windows- X.Y.Z.exe (X.Y.Z should be the latest version displayed in page)**
3. Open the downloaded file and wait till installation is completed.
4. Once setup is completed Appium Inspector will be launched

## Appium Windows Installation





## Appium Windows Installation