

## Android Installation Guide

Android is an operating system based on Linux with a Java programming interface. It provides tools, e.g. a compiler, debugger and a device emulator as well as its own Java Virtual machine (Dalvik Virtual Machine - DVM).

Here are some steps which you need to perform while running android in your system.

### **Assumption:**

Eclipse is already installed in your system. If you don't have Eclipse, Please refer [Eclipse Tutorial](#).

### **Android SDK:**

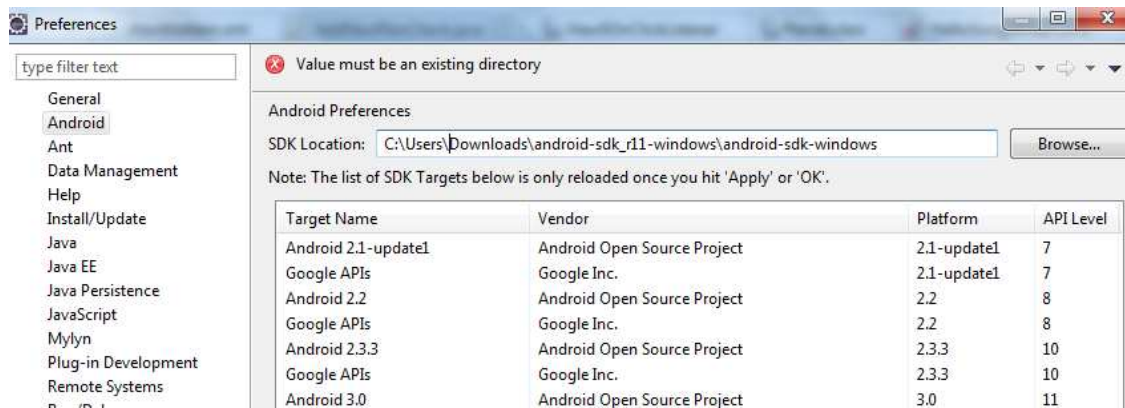
Download the Android SDK from the Android homepage under Android SDK download .

### **Eclipse:**

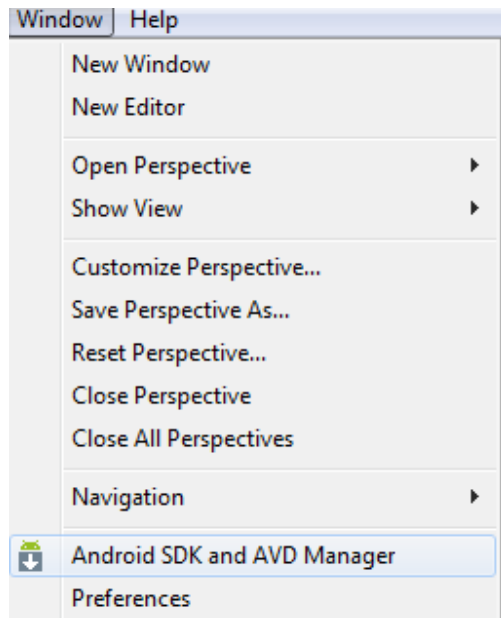
Use the Eclipse update manager to install all available plugins for the Android Development Tools (ADT) from the URL <https://dl-ssl.google.com/android/eclipse/> .

### **Configuration:**

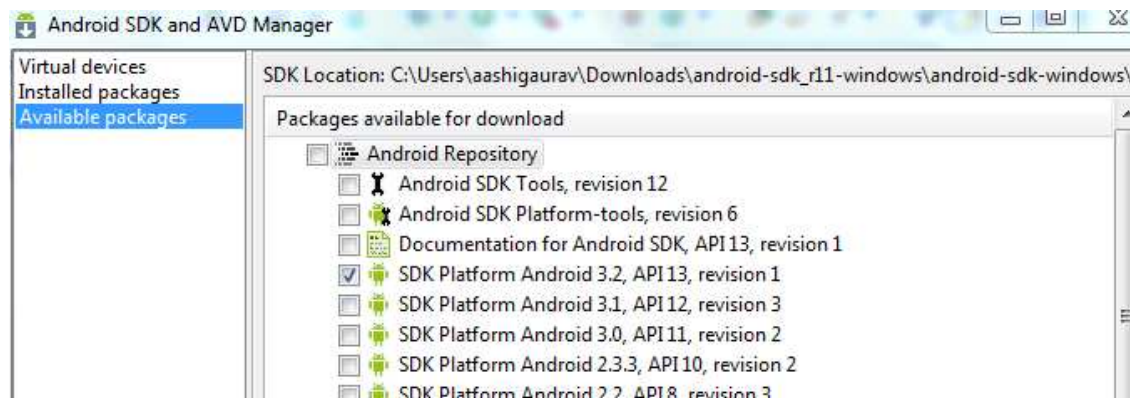
1.In Eclipse open the Preferences dialog via Windows -> Preferences. Select Android and enter the installation path of the Android SDK.



2. Select Window -> Android SDK and AVD Manager from the menu.



3. Select available packages and select the Android version of the SDK.



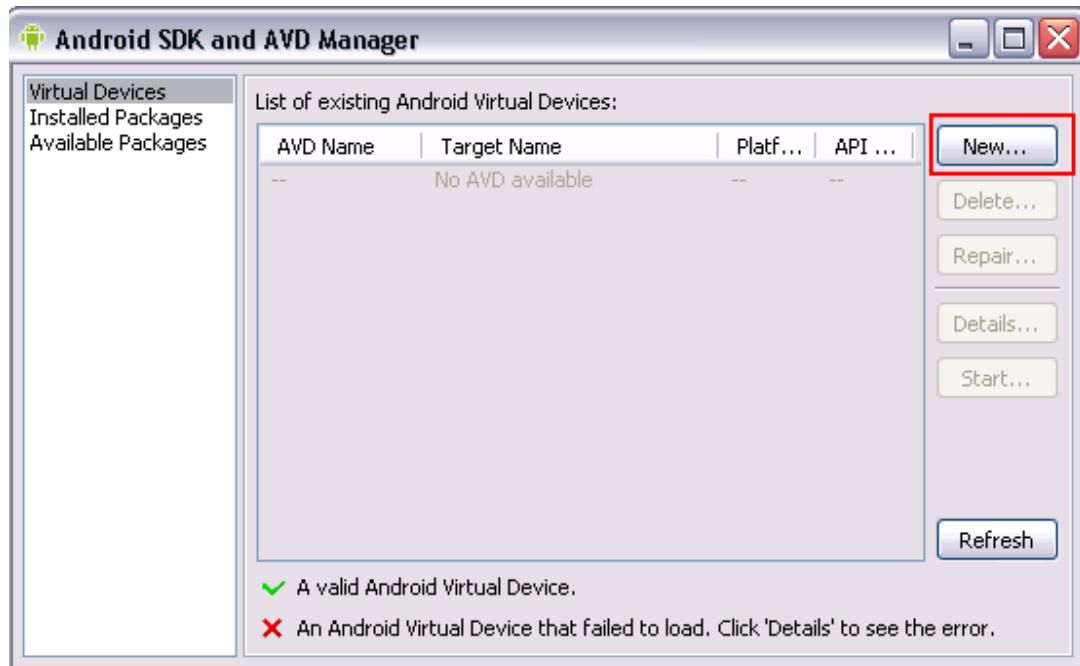
Press "Install selected" and confirm the license for all package.

4. Restart Eclipse.

### **Create an Android Emulator Device:**

The Android tools include an emulator. This emulator behaves like a real Android device in most cases and allow you to test your application without having a real device. You can emulate one or several devices with different configurations. Each configuration is defined via an "Android Virtual Device" (AVD).

To define an AVD click the Virtual devices, press "New" and enter the following.



**Create new Android Virtual Device (AVD)**

Name:

Target:

ABI:

SD Card:

☒ Size:

☐ File:

Snapshot:

☒ Enabled

Skin:

☒ Built-in:

☐ Resolution:  x

Hardware:

Property	Value	
Abstracted LCD density	240	
Max VM application heap size	24	

☐ Override the existing AVD with the same name

At the end press the button "Create AVD". This will create the device and display it under the "Virtual devices". To test if your setup is correct, select your device and press "Start".

After some time your device should be started.



Kudos!!! You are done.