

Guide to setting up the IDE

This installation guide document is not a substitute but a complementary resource for the videos provided in the course.

Please note that this is a working document and that errors may remain.

There are a lot of things that are discussed in the videos that are not discussed here. This installation guide is only to help you download, install and setup your system – we highly recommend you viewing the videos to understand the process fully. The installation guide combines install and configuring instructions from several MOOC resources without going into detail about other features discussed in videos.

Setting up Eclipse IDE

Open Eclipse:

Double click on the ADT bundle you've downloaded and unzipped into your computer.



Figure 1: Locating ADT Bundle

When you open up this folder there will be this inside

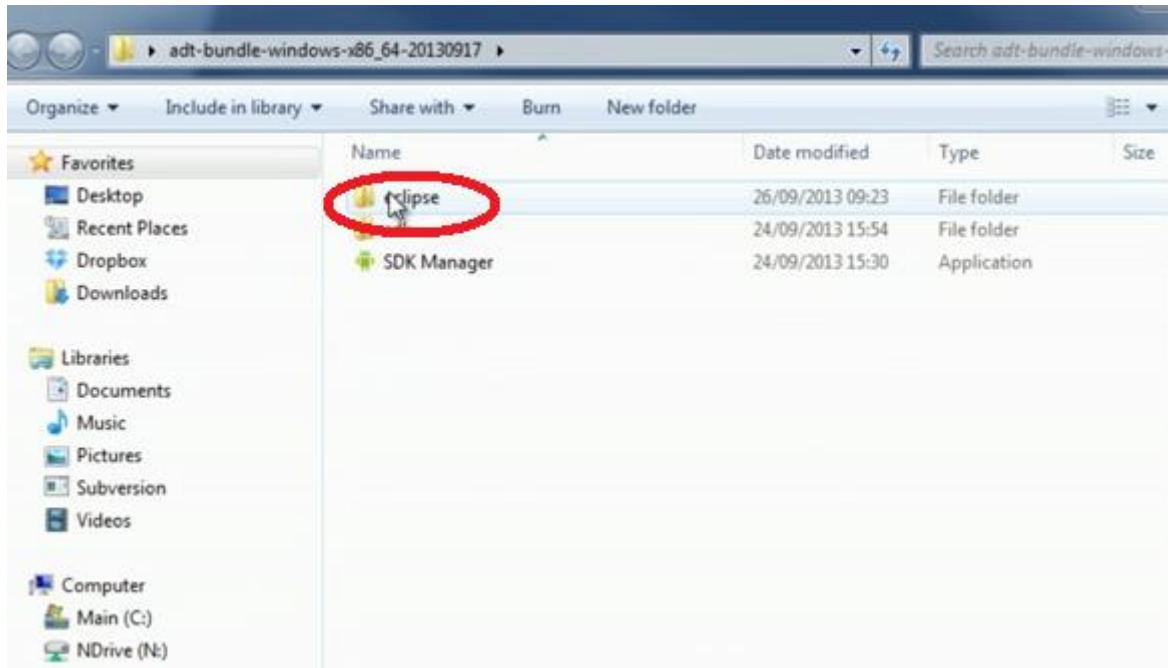


Figure 2: Double click on eclipse folder

Now double click on the eclipse folder to go inside.

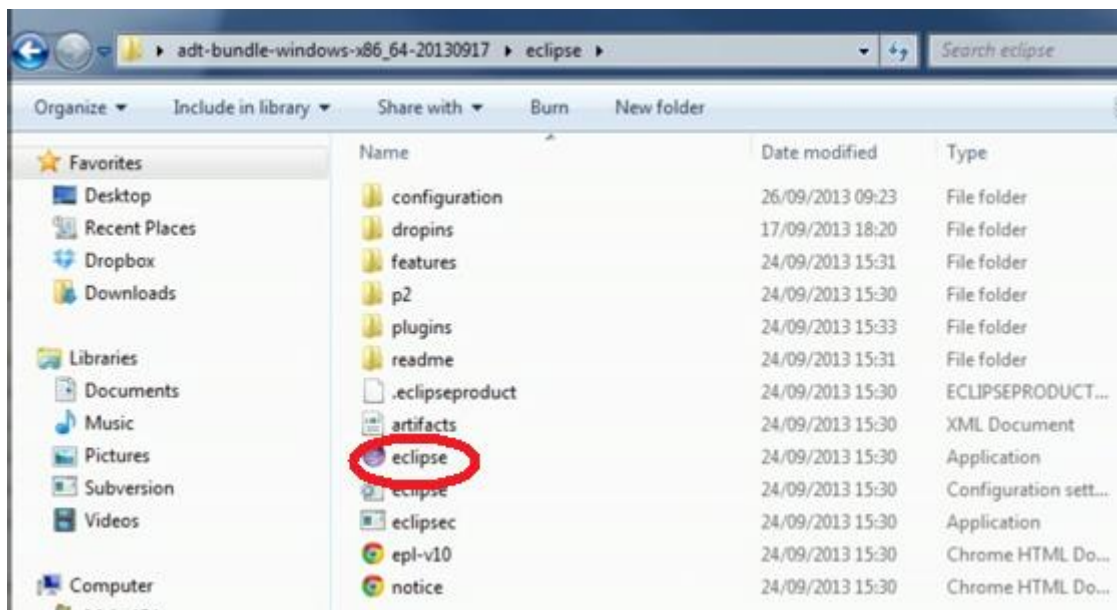


Figure 3: View inside eclipse folder

Locate the eclipse executable file (highlighted in Figure) and double click it. When you run eclipse it will prompt a security message (Figure). Click 'Run' to open eclipse.

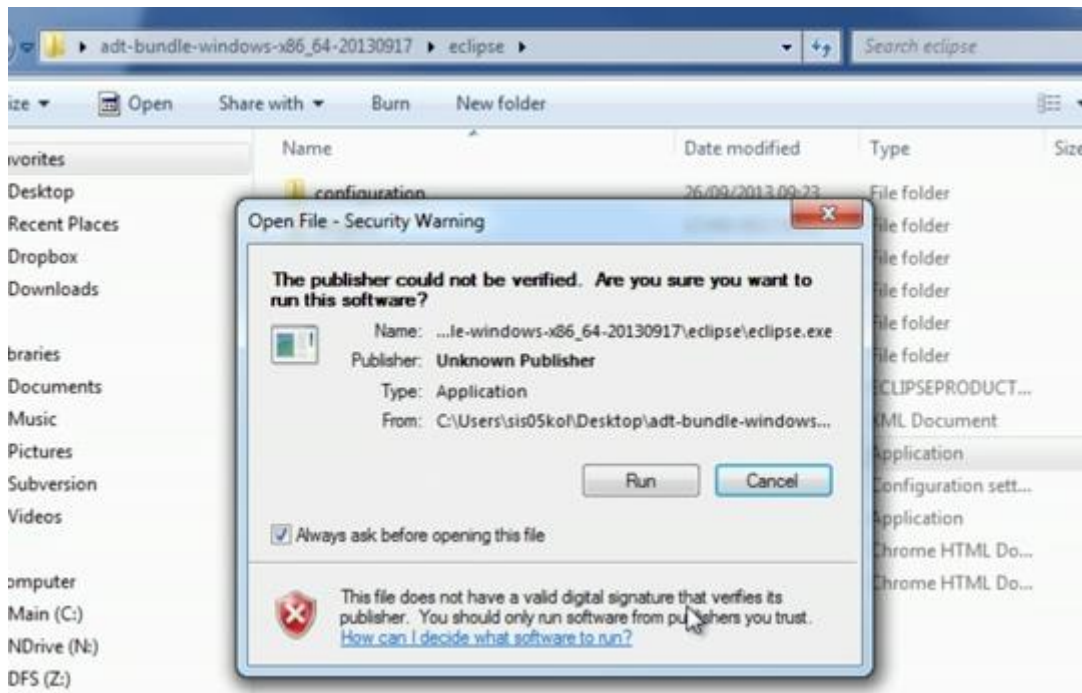


Figure 4: Eclipse Security Warning

When you select 'Run' it will show you a splash screen (Figure).

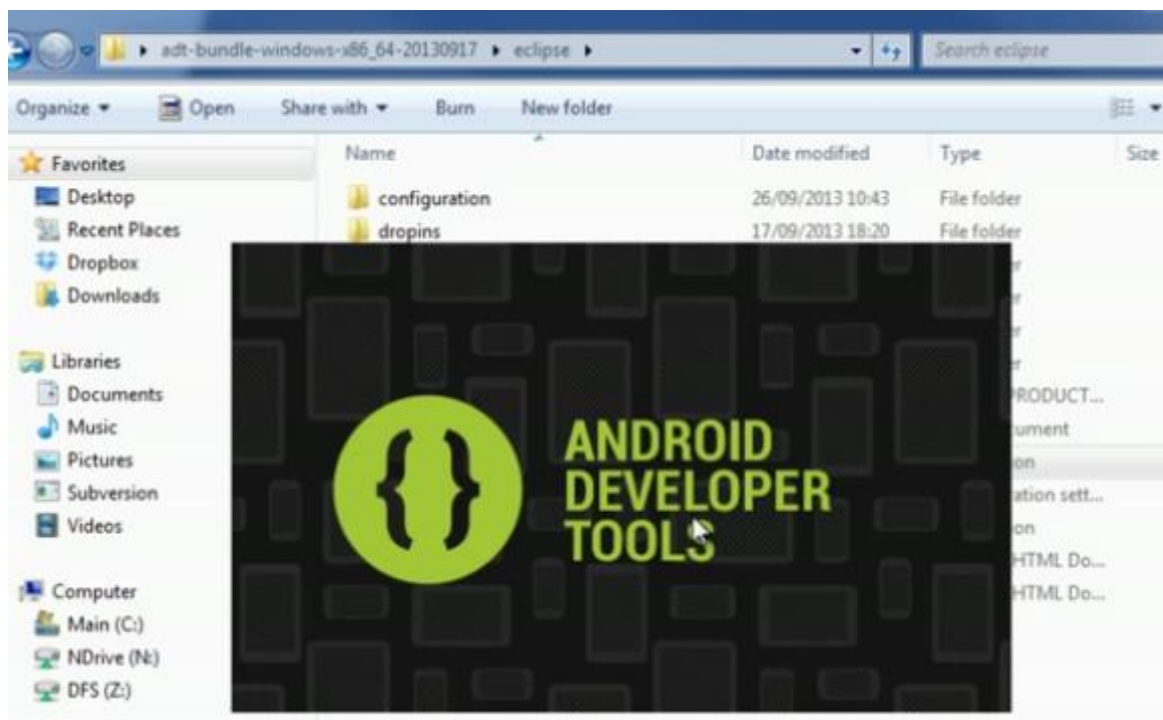


Figure 5: Splash Screen when starting eclipse for Android

After that you will be prompted with a screen like this (Figure).

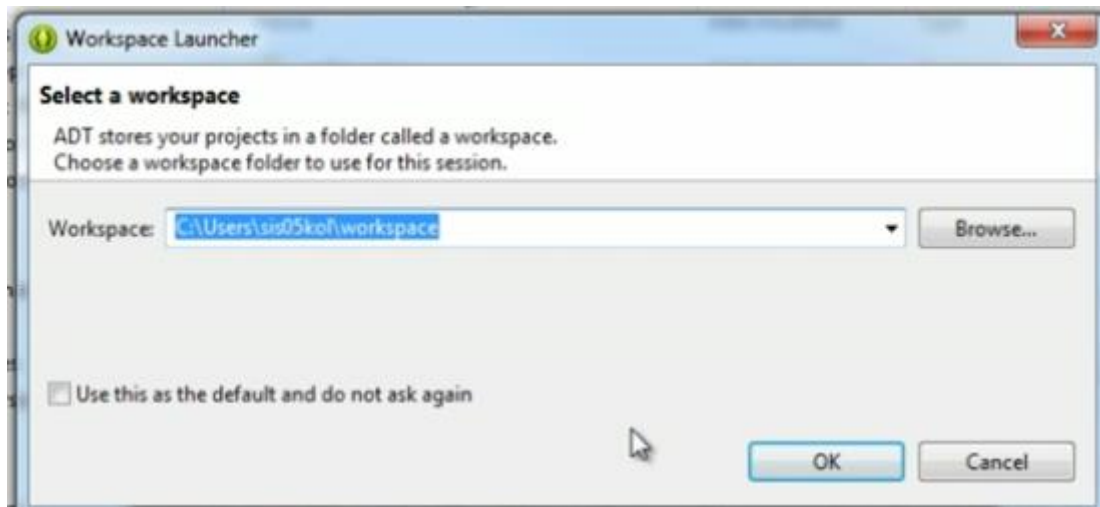


Figure 6: Workspace launcher

The workspace is where you will be creating your programmes. This is a folder in your computer. Then press 'OK'. It will take a little bit of time to configure everything required and then will present a screen similar to this (Figure).

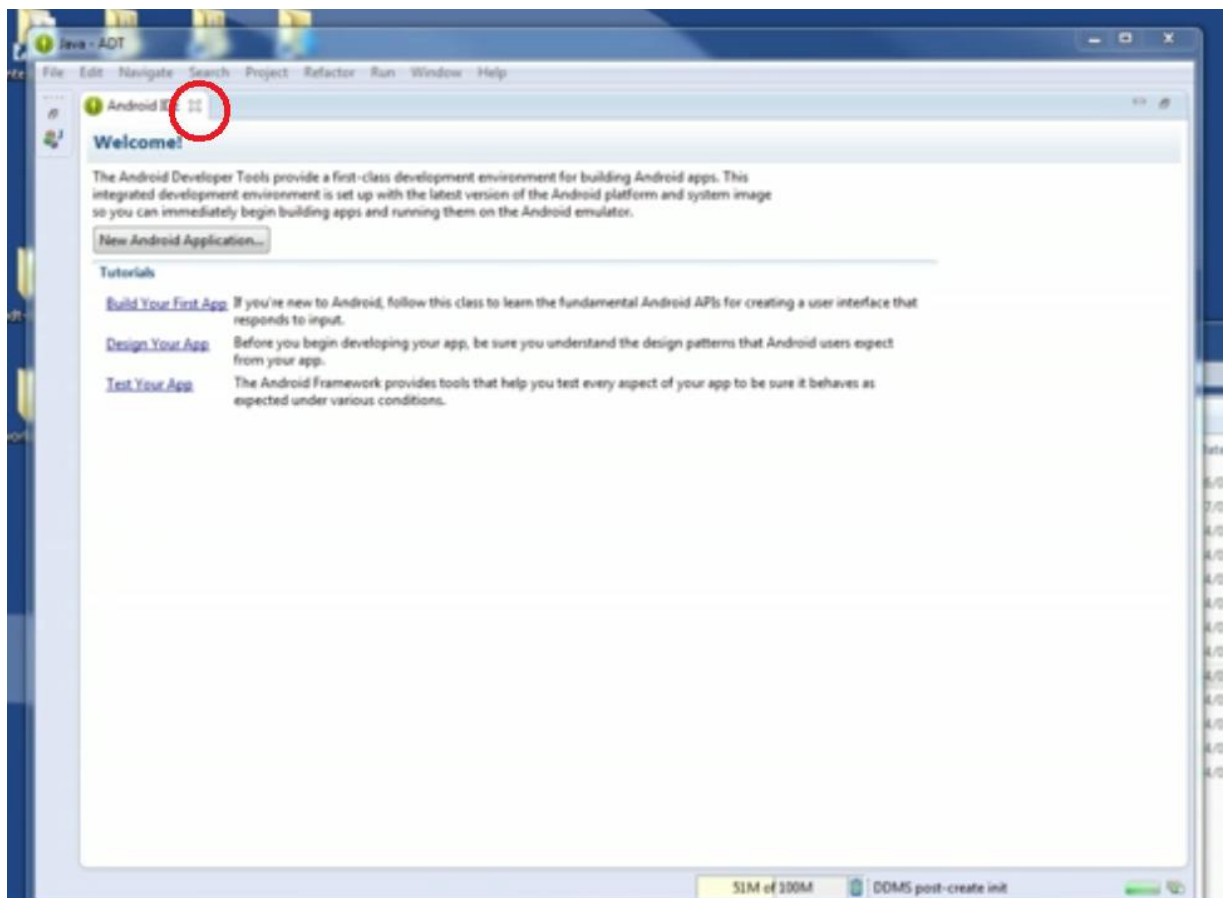


Figure 7: Welcome window from eclipse

Now close this welcome and you will see a screen similar to Figure .

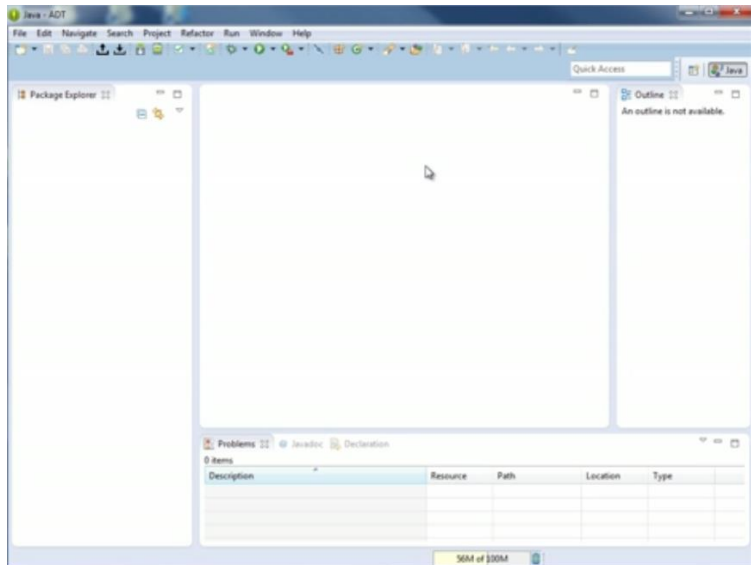


Figure 8: Eclipse IDE

To make sure your IDE is correctly setup first click on Android SDK Manager icon on the tool bar (highlighted in Figure)



Figure 9: Android SDK Manager icon

This will start up the Android SDK Manager.

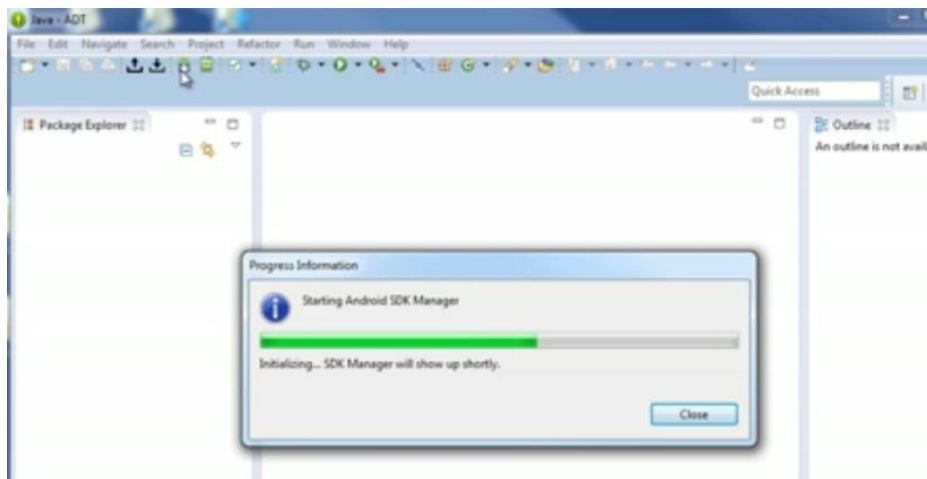


Figure 10: Starting up Android SDK Manager

It could take a little time to open and once it opens you can see the Android SDK Manager (Figure)

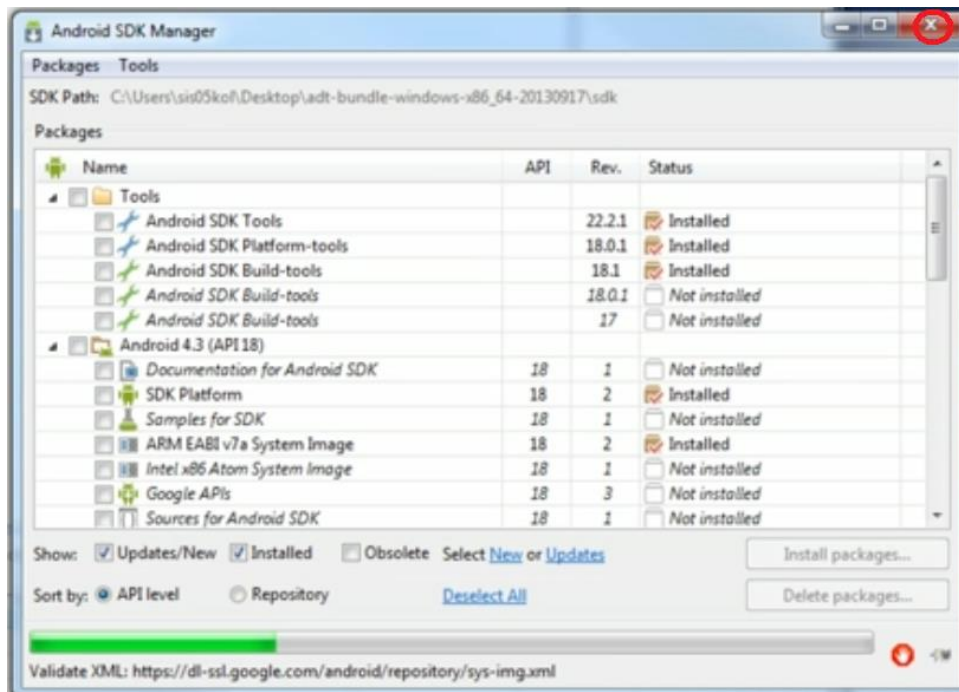


Figure 11: Android SDK Manager

If you did not manage to get Android SDK Manager window it is likely that you have a problem with your Java. It is possible you are running the wrong version of Java – say 64 bit version when you should have 32 bit or vice versa. Also you need to make sure (as said before) you have got both ADT bundle and Java SDK both are compatible (both 32 bit or both 64 bit).

Now close the Android SDK Manager window using top close button.

Next we will be testing the Virtual Device Manager. Click on the Android Virtual Device Manager icon (Figure).



Figure 12: Android Virtual Device Manager icon

This will open the Android Virtual Device Manager (Figure).

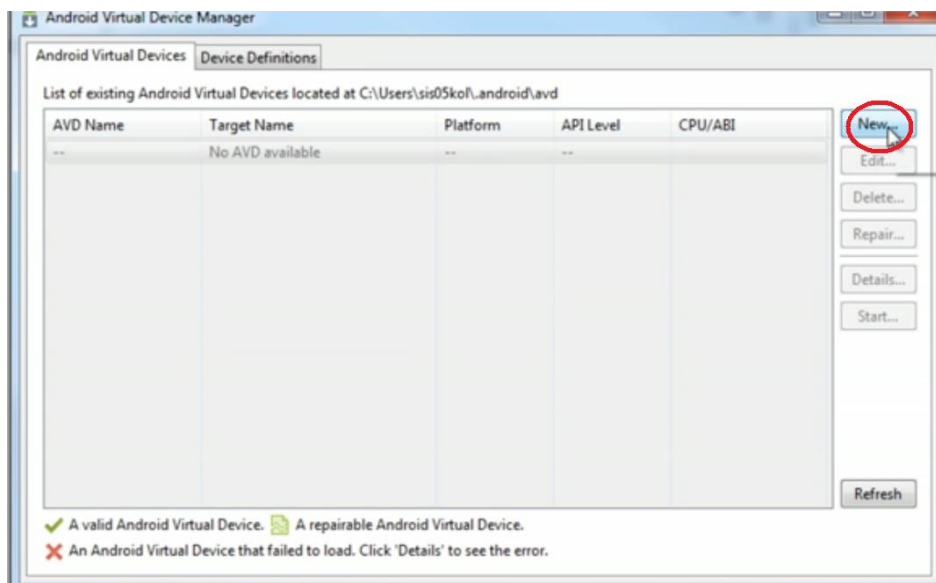


Figure 13: Android Virtual Device Manager

To create a new virtual device (also called an emulator) click 'New'. This will open Create new Android Virtual Device dialog (Figure).

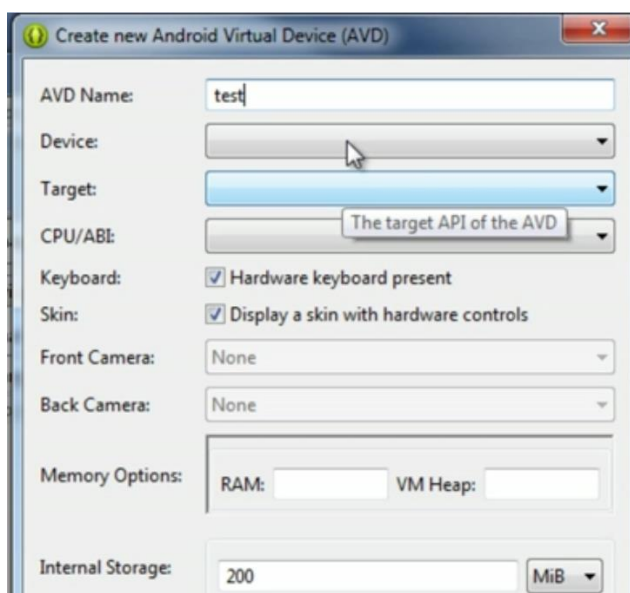


Figure 14: Create new Android Virtual Device

On AVD Name give a name to it. We are calling it 'test'

Now click on the down arrow on Device and you will see a dropdown list of devices. Select a device with low specification.

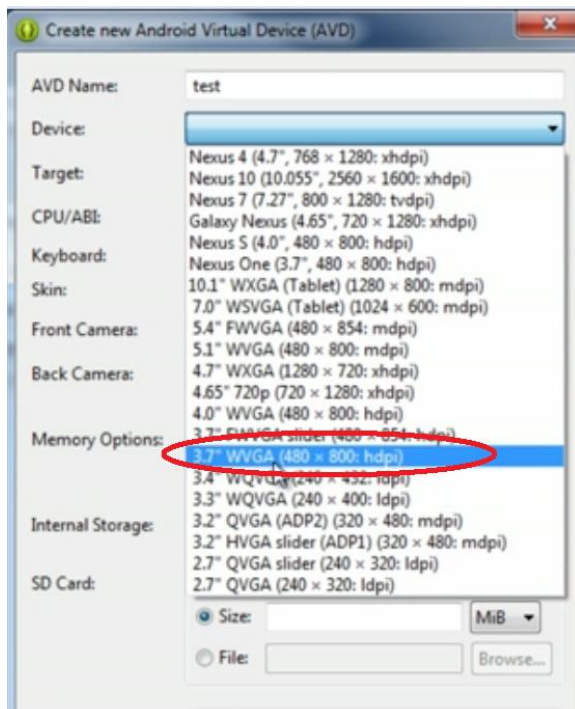


Figure 15: Select a virtual device

Leave all other options as they are and click 'OK'

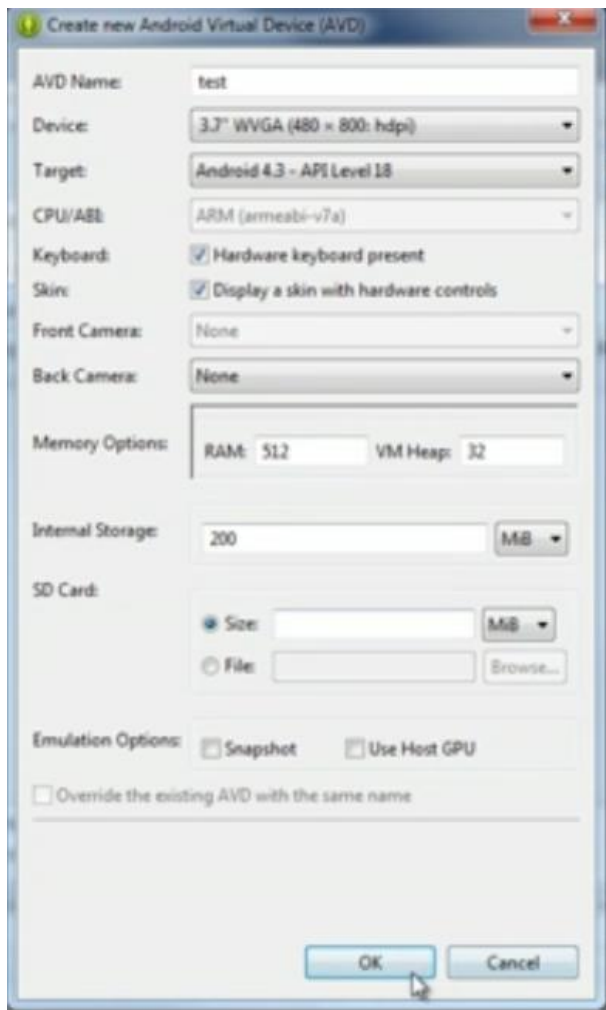


Figure 16: Android Virtual Device options

Now on the Android Virtual Device Manager you can see the newly created virtual device.

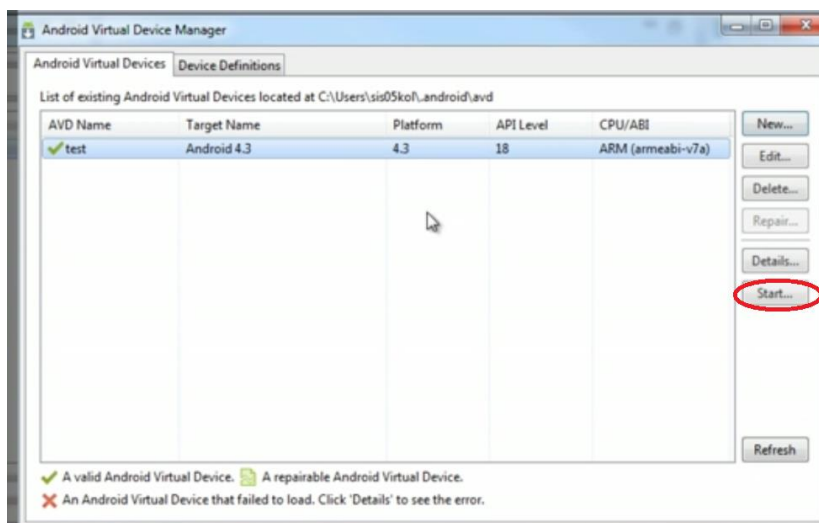


Figure 17: Android Virtual Device Manager with new virtual device

Click on the virtual device you created and click 'Start' to start it.



Figure 18: Launching virtual device

Now click 'Launch'.

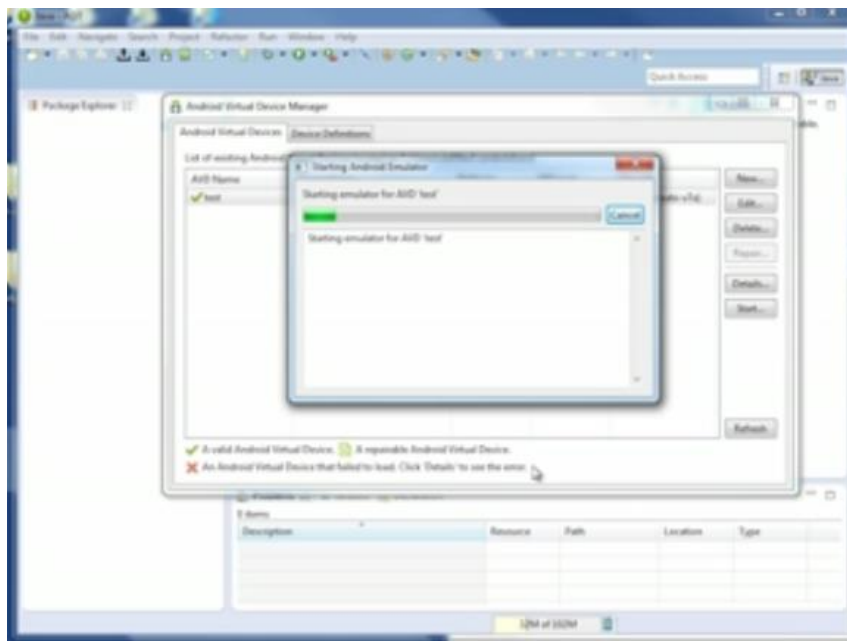


Figure 19: Progress of Launching Virtual Device

It will take quite a bit of time to launch the virtual device. This can be as long as 10-15 minutes. So we suggest at this point you go and get yourself a cup of tea (or coffee) and perhaps a sandwich too ☺

Once the virtual device (emulator) is launched it will look something like this. But remember according to the device you select the emulator you get will differ.

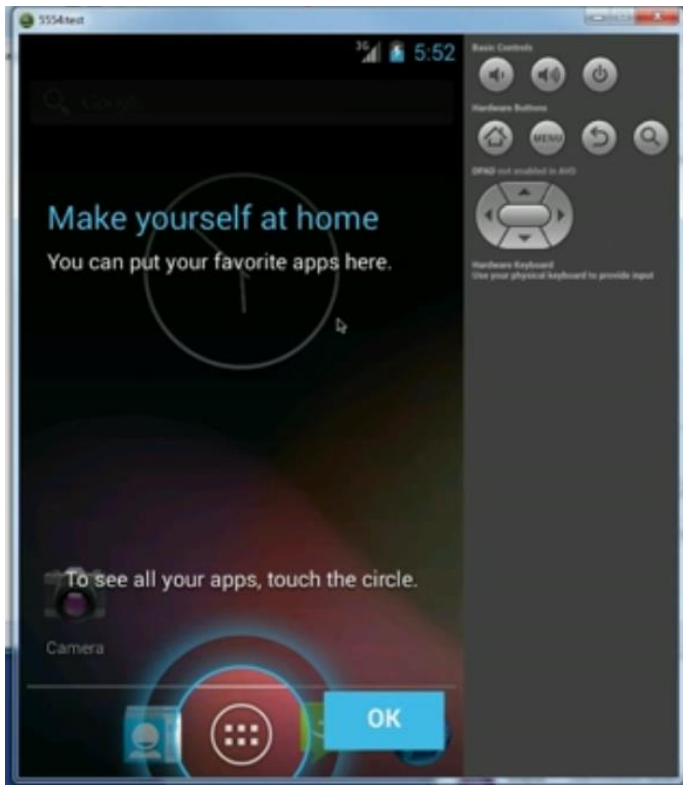


Figure 20: Android Virtual Device (Emulator)

Click the blue 'OK' button.

Because it takes ages to load up it would be a good idea to minimize your emulator and keep it running rather than closing and re-launching.



Figure 21: Android Virtual Device Minimize

Close the Android Virtual Device Manager.

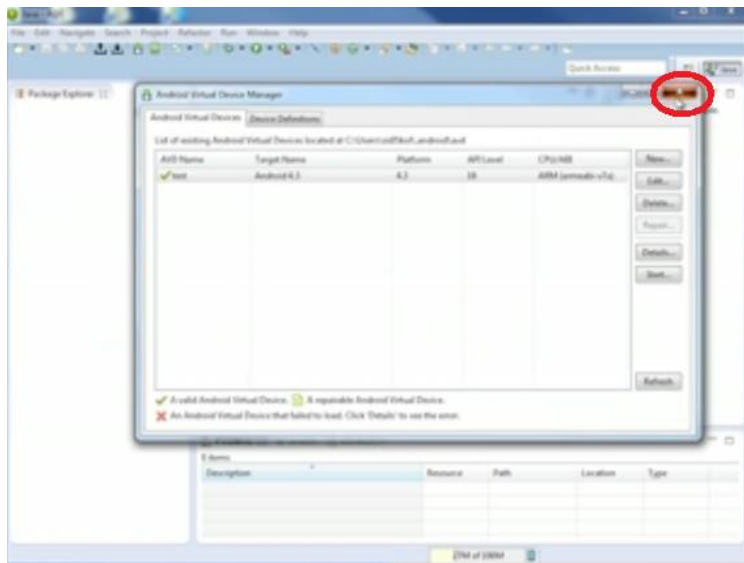


Figure 22: Android Virtual Device Manager - close button