

Hands-on setup guide (Windows)

1. Pre-requisites

- **Git** If required check this link to install it : [Download Git](#)

To check open a Git Bash Terminal and type : `git --version`

Note: All provided command will have to be issued in the Git Bash Terminal.

Note: We will call `<Archive directory>` the directory where are the provided archives into the `Hands-on` . This directory is coming from the USB pen and should be copied for instance on the Desktop or the Home directory. So when you will read : `cd <Archive directory>` you will understand `cd ~/Desktop` or `cd ~/Bureau` or `cd ~` depending where you've copied the `Hands-on` directory from the USB pen.

2. Create `c:\Hands-on` directory

```
mkdir /c/Hands-on
```

To check open a Git Bash Terminal and type : `ls /c/Hands-on`

2.1 Install Android SDKs

Unzip provided archive into your directory `c:\Hands-on` :

Open a Git Bash Terminal and type :

```
cd <Archive directory>
unzip ./Hands-on/Windows/Android.zip -d /c/Hands-on/
```

To check open a Git Bash Terminal and type : `ls /c/Hands-on/Android` and you should see `Sdk` and `Plugins` directories.

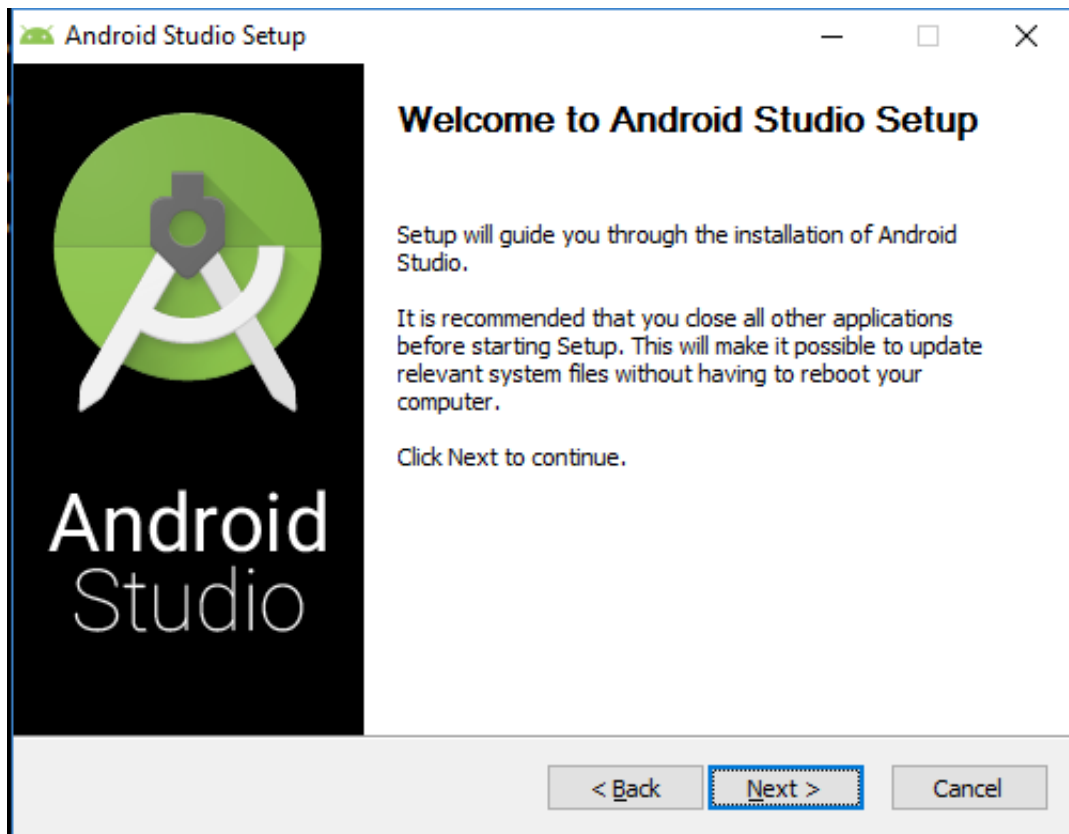
2.2 Install Android Studio

Install provided archive into your directory `c:\Hands-on` :

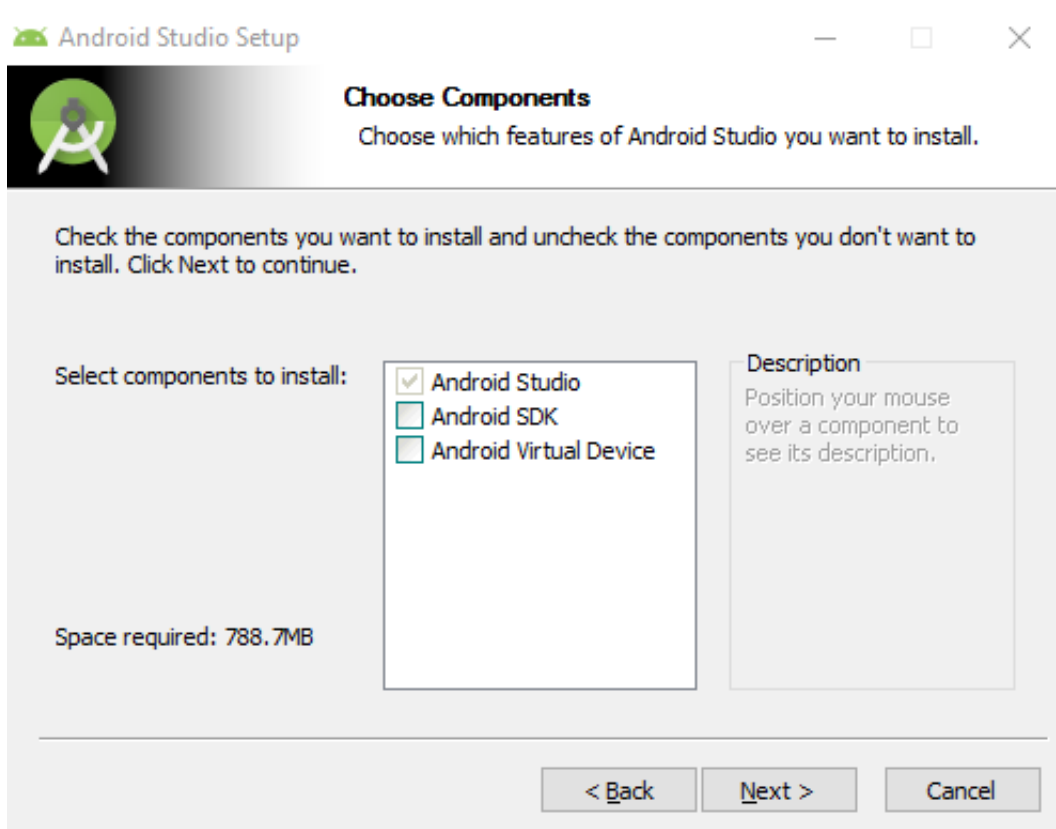
Double click on

```
<Archive directory>\Hands-on\Windows\android-studio-bundle-145.3537739-windows.exe
```

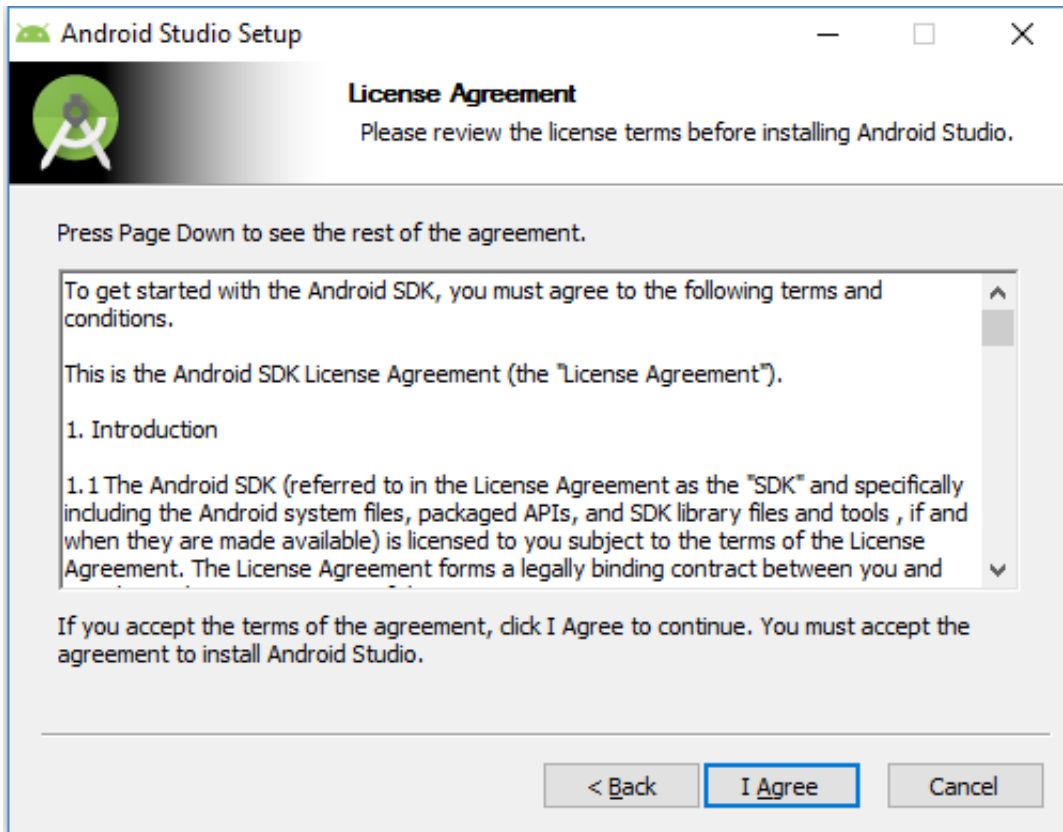
You will see the following window :



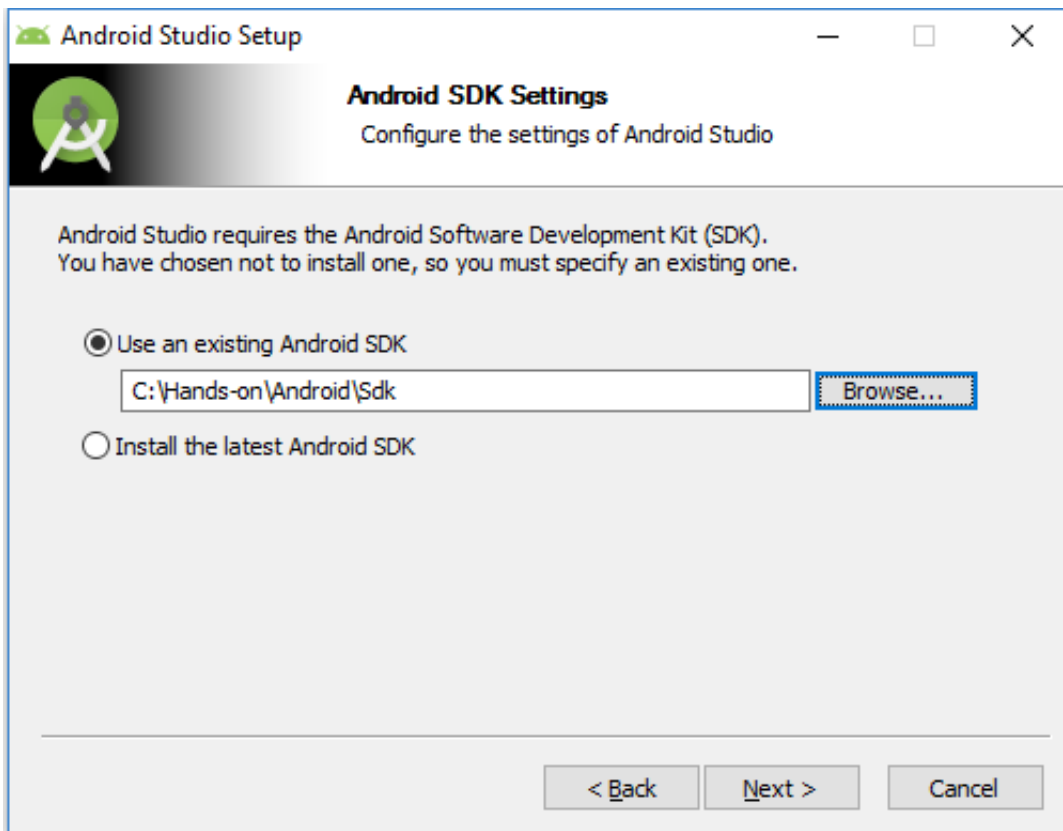
- Click **Next**
- Uncheck **Android SDK**
- Uncheck **Android Virtual Device**



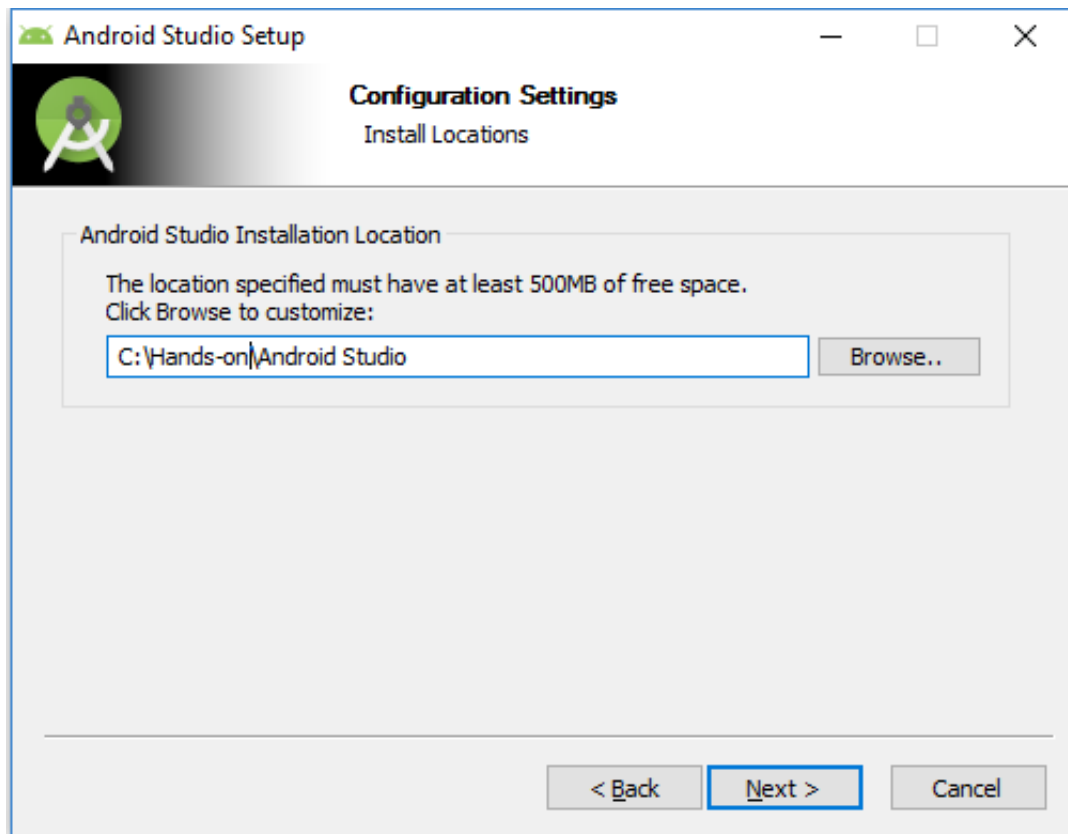
- Click **Next**



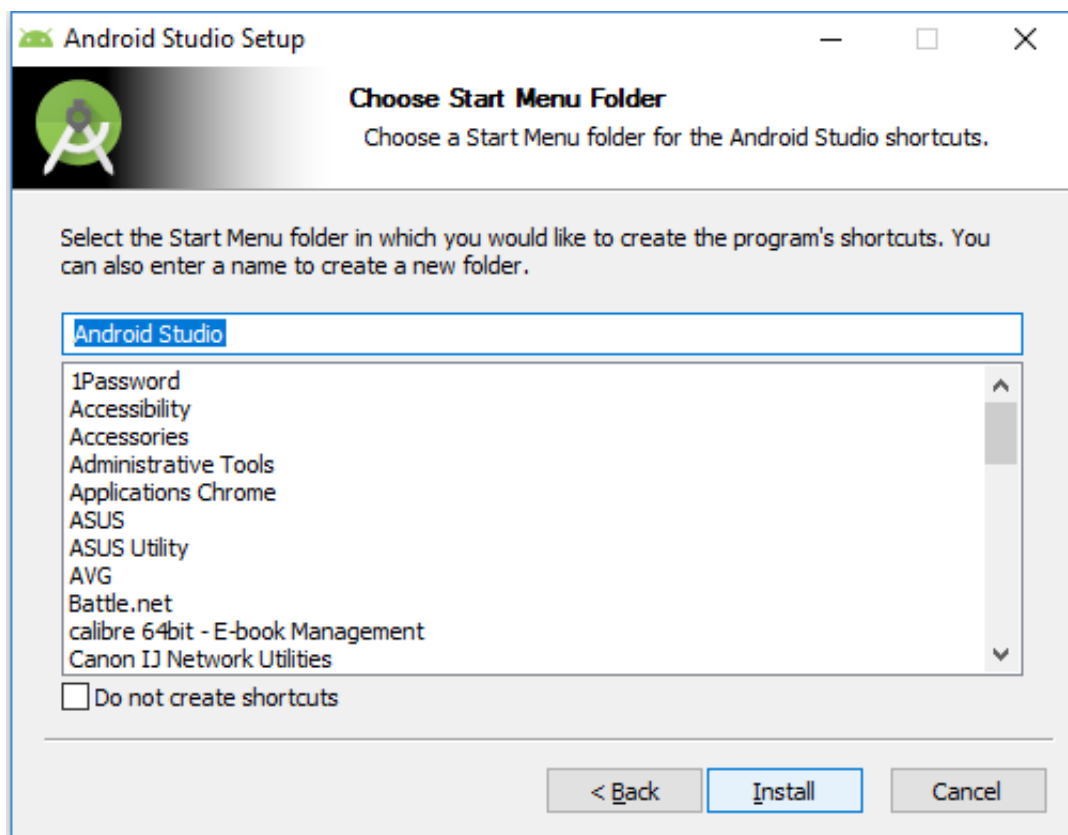
- Click
- Set existing Android SDK path to :



- Configure installation directory to : for Android Studio

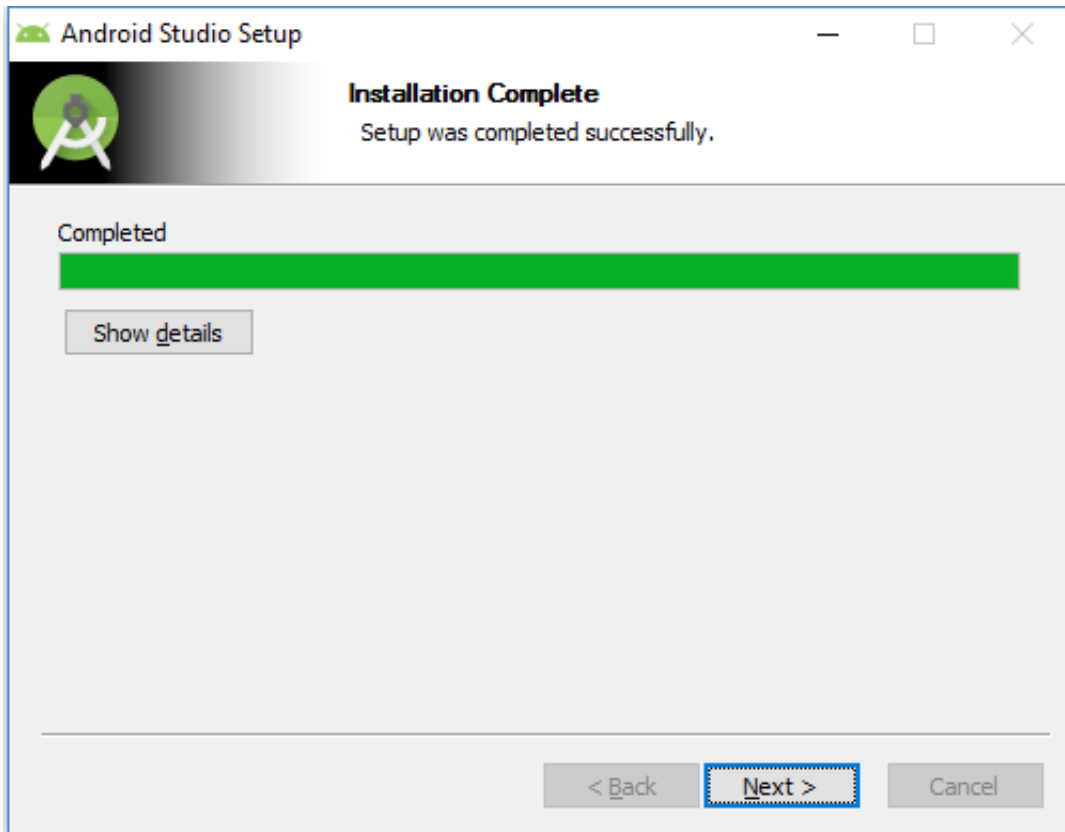


- Click **Next**

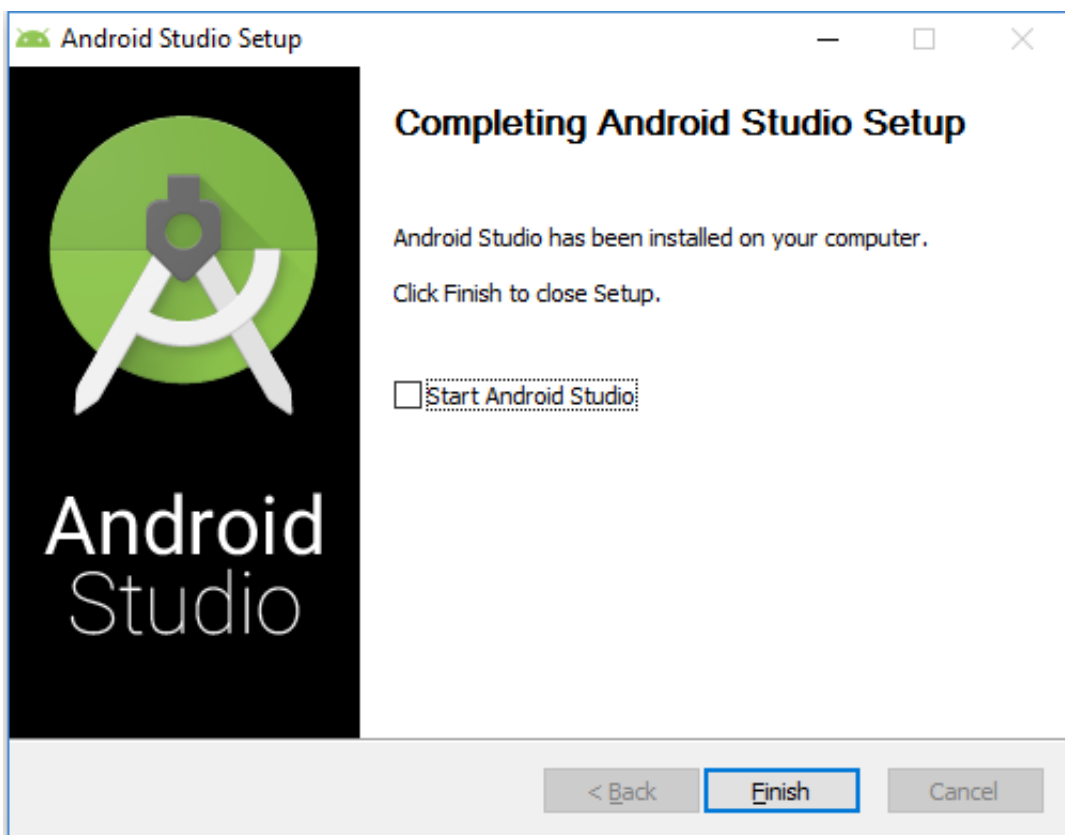


- Click **Install**

Wait for the installation finish.



- Click **Next**



- Uncheck **Start Android Studio**
- Click **Next**

2.3 Hands-on project

Unzip provided archive into your directory `c:\Hands-on` :

Open a Git Bash Terminal and type :

```
cd <Archive directory>
unzip ./Hands-on/Windows/2017-handson-kotlinAndroid.zip -d /c/Hands-on/
```

To check open a Git Bash Terminal and type :

```
cd /c/Hands-on/2017-handson-kotlinAndroid
git lg
```

you should read :

```
* 9b50a75 (origin/solution, solution) Exercise 2.5 : Kotlin & Rx
* a911fe9 Exercise 2.4 : Lambda
* a7911d8 Exercise 2.3 : Function extensions
* 8112ad2 Exercise 2.2 : Kotlin extensions
* acbd955 Exercise 2.1 : Prepare MainActivity
* 5e9f1f6 (tag: End-Part1) Exercise 1.4 : Lateinit & Companion Object
* 1d67724 Exercise 1.3 : Collections
* 15a64ab Exercise 1.2 : When
* 76f22bc Exercise 1.1 : Data class kotlin
* 9003149 (HEAD -> master, origin/master, origin/HEAD) Mode offline (#1)
* 24d0724 Initial commit
```

Create your working branch:

```
git checkout -b mywork
git lg
```

you should read :

```
* 9b50a75 (origin/solution, solution) Exercise 2.5 : Kotlin & Rx
* a911fe9 Exercise 2.4 : Lambda
* a7911d8 Exercise 2.3 : Function extensions
* 8112ad2 Exercise 2.2 : Kotlin extensions
* acbd955 Exercise 2.1 : Prepare MainActivity
* 5e9f1f6 (tag: End-Part1) Exercise 1.4 : Lateinit & Companion Object
* 1d67724 Exercise 1.3 : Collections
* 15a64ab Exercise 1.2 : When
* 76f22bc Exercise 1.1 : Data class kotlin
* 9003149 (HEAD -> mywork, origin/master, origin/HEAD, master) Mode offline (#1)
* 24d0724 Initial commit
```

3. Install Gradle cache

/!\ Warning: Due to Gradle open issue ([Gradle's cache stores the native OS absolute path](#)), you have to create exactly the same directory !/!\

Unzip provided archive into your directory `C:\Hands-on` :

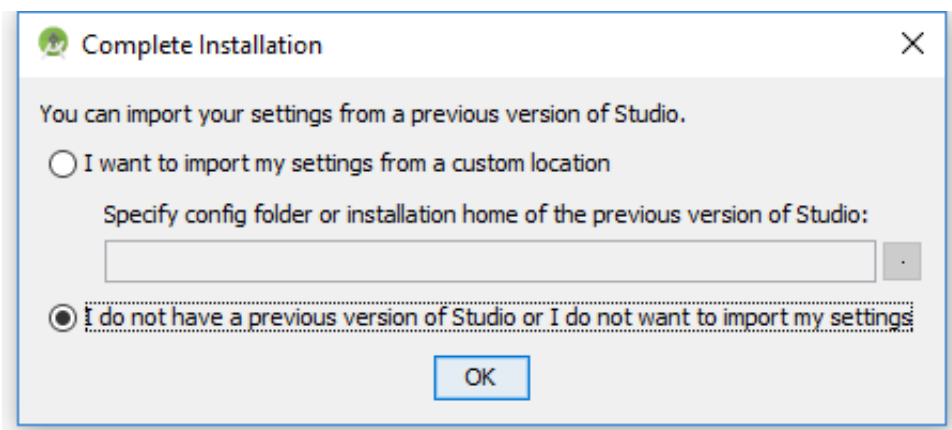
Open a Git Bash Terminal and type :

```
cd <Archive directory>
unzip ./Hands-on/Windows/gradle.zip -d /c/Hands-on/
```

To check open a Terminal and type : `ls /c/Hands-on/gradle` and you should see `gradle` directories.

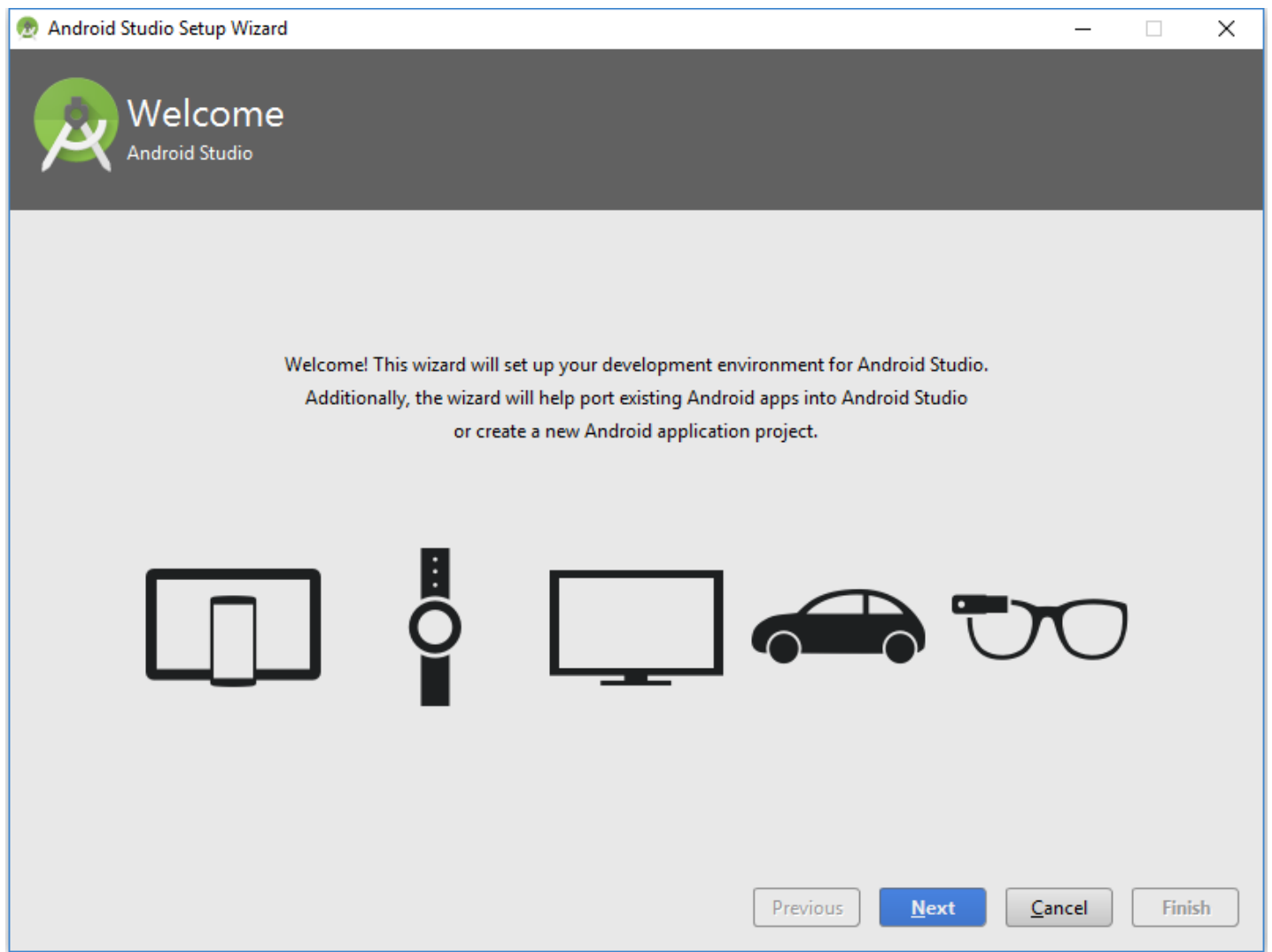
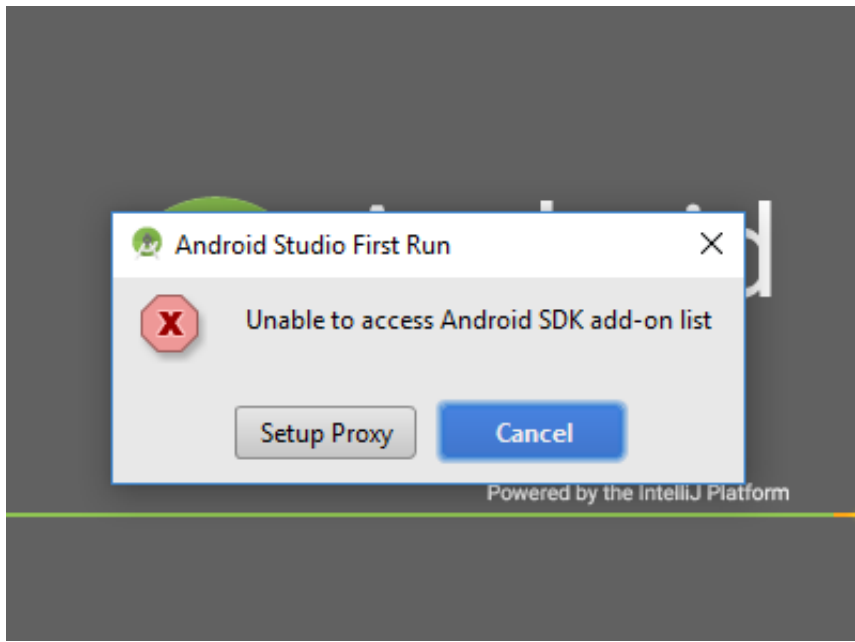
4. Complete Android Studio offline setup

Double click on Android Studio `c:\Hands-on\Android Studio\bin\studio64.exe`



You will see...

Just ignore the message and click on `Cancel`



Select installation



Install Type

Choose the type of setup you want for Android Studio:

☐ Standard

Android Studio will be installed with the most common settings and options.
Recommended for most users.

☒ Custom

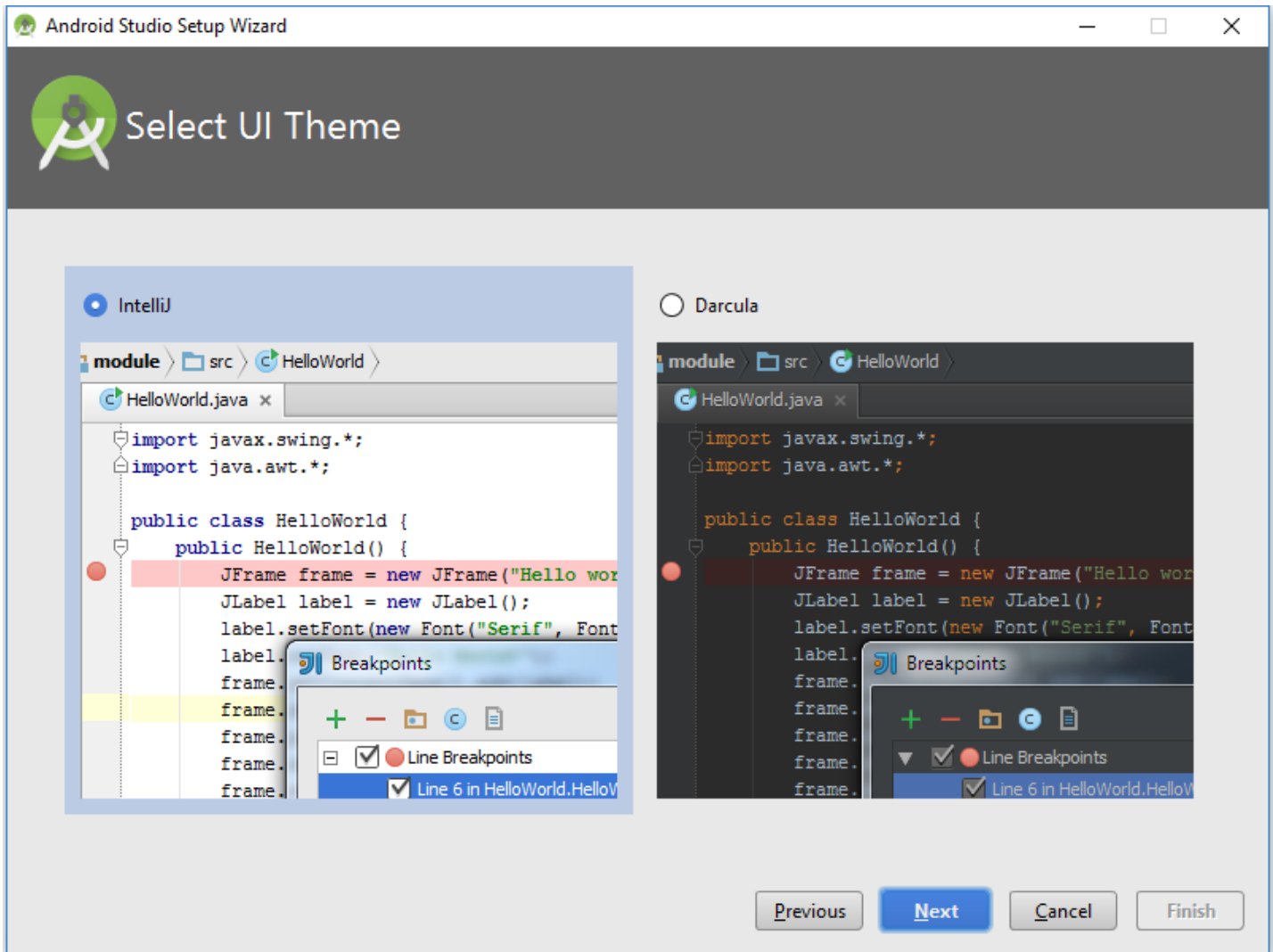
You can customize installation settings and components installed.

Previous

Next

Cancel

Finish



Update Android SDK location and set the path defined in chap. 2 above. Should be the absolute path of :

c:\Hands-on\Android\Sdk



SDK Components Setup

Check the components you want to update/install. Click Next to continue.

- ☒ Android SDK – (installed)
- ☐ Performance (Intel ® HAXM) – (installed)
- ☐ Android Virtual Device – (installed)

The collection of Android platform APIs, tools and utilities that enables you to debug, profile, and compile your apps.

The setup wizard will update your current Android SDK installation (if necessary) or install a new version.

Android SDK Location:

Total download size: 0 B

C:\Hands-on\Android\Sdk



Disk space available on drive : 122 GB

An existing Android SDK was detected. The setup wizard will only download missing or outdated SDK components.

Previous

Next

Cancel

Finish



Verify Settings

If you want to review or change any of your installation settings, click Previous.

Current Settings:

Setup Type:

Custom

SDK Folder:

C:\Hands-on\Android\Sdk

Previous

Next

Cancel

Finish



Downloading Components

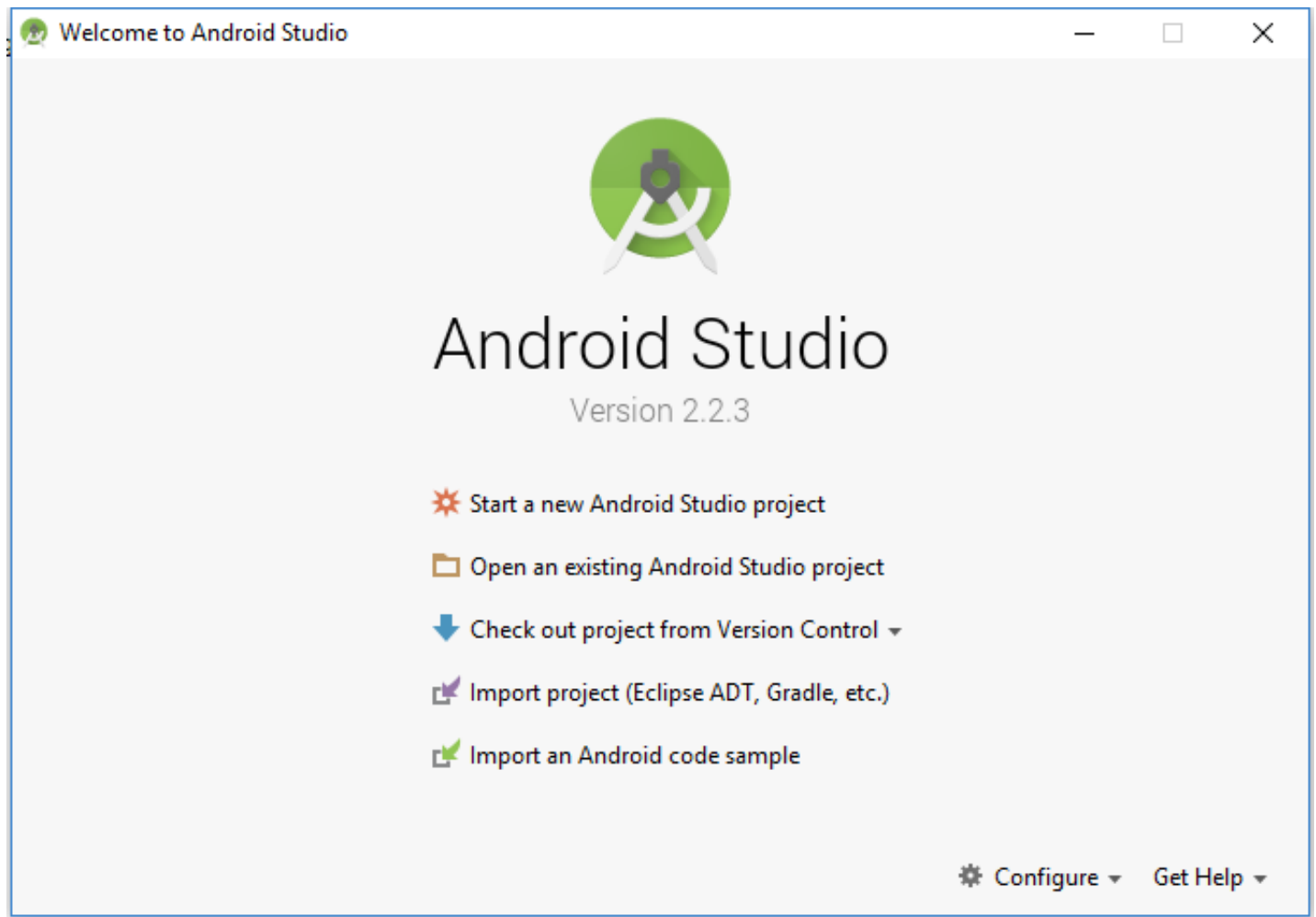
Android SDK is up to date.

Previous

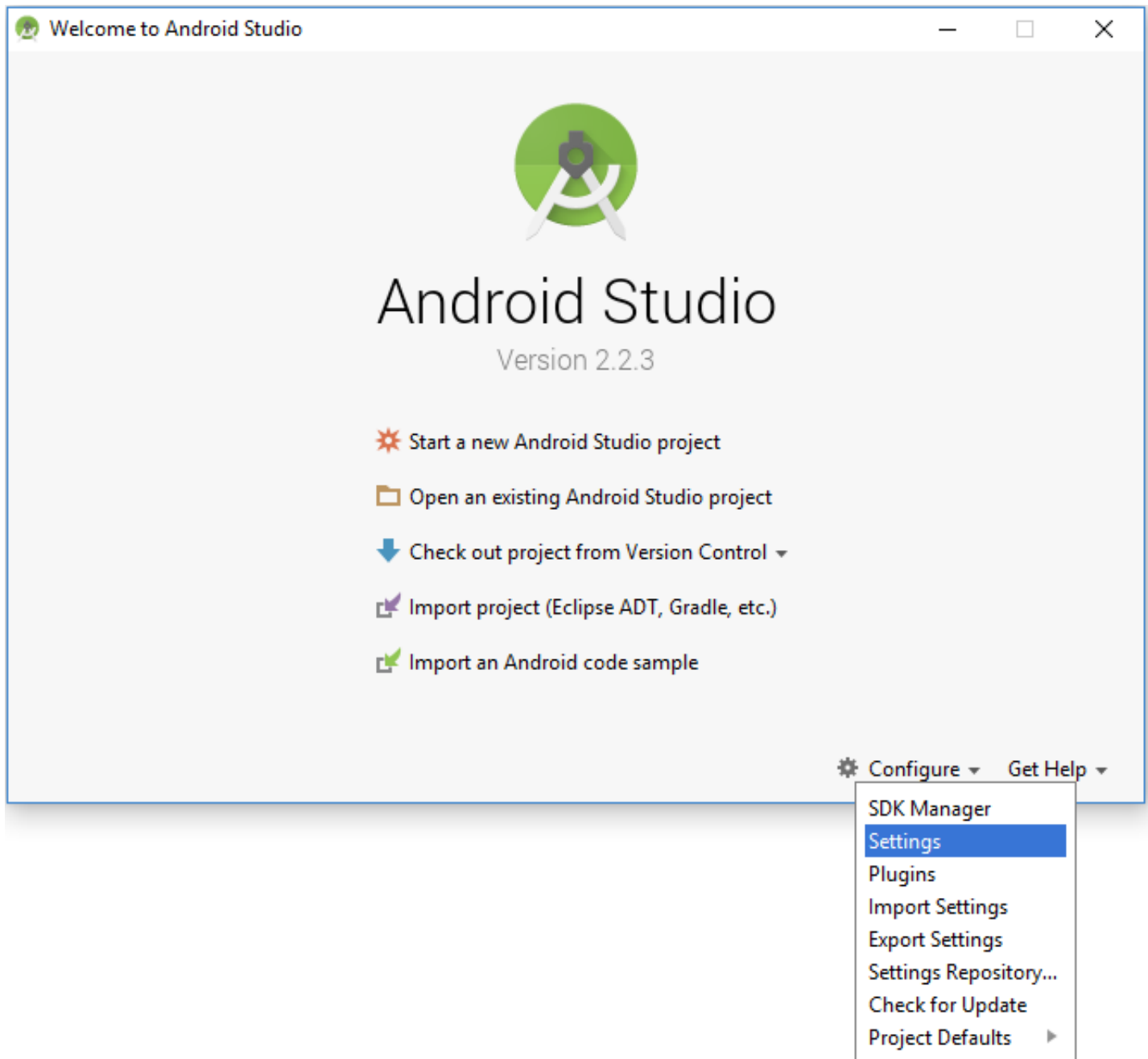
Next

Cancel

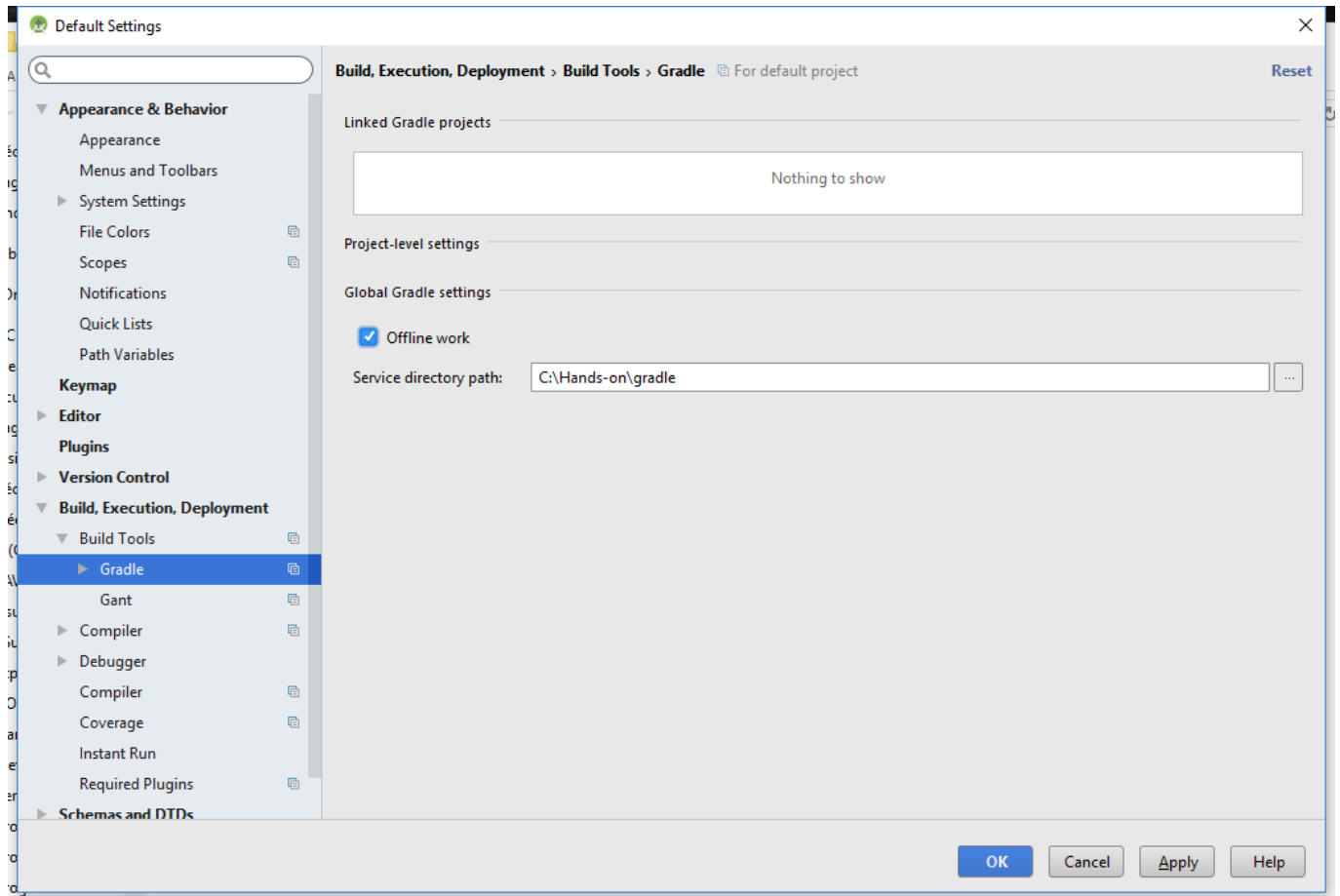
Finish



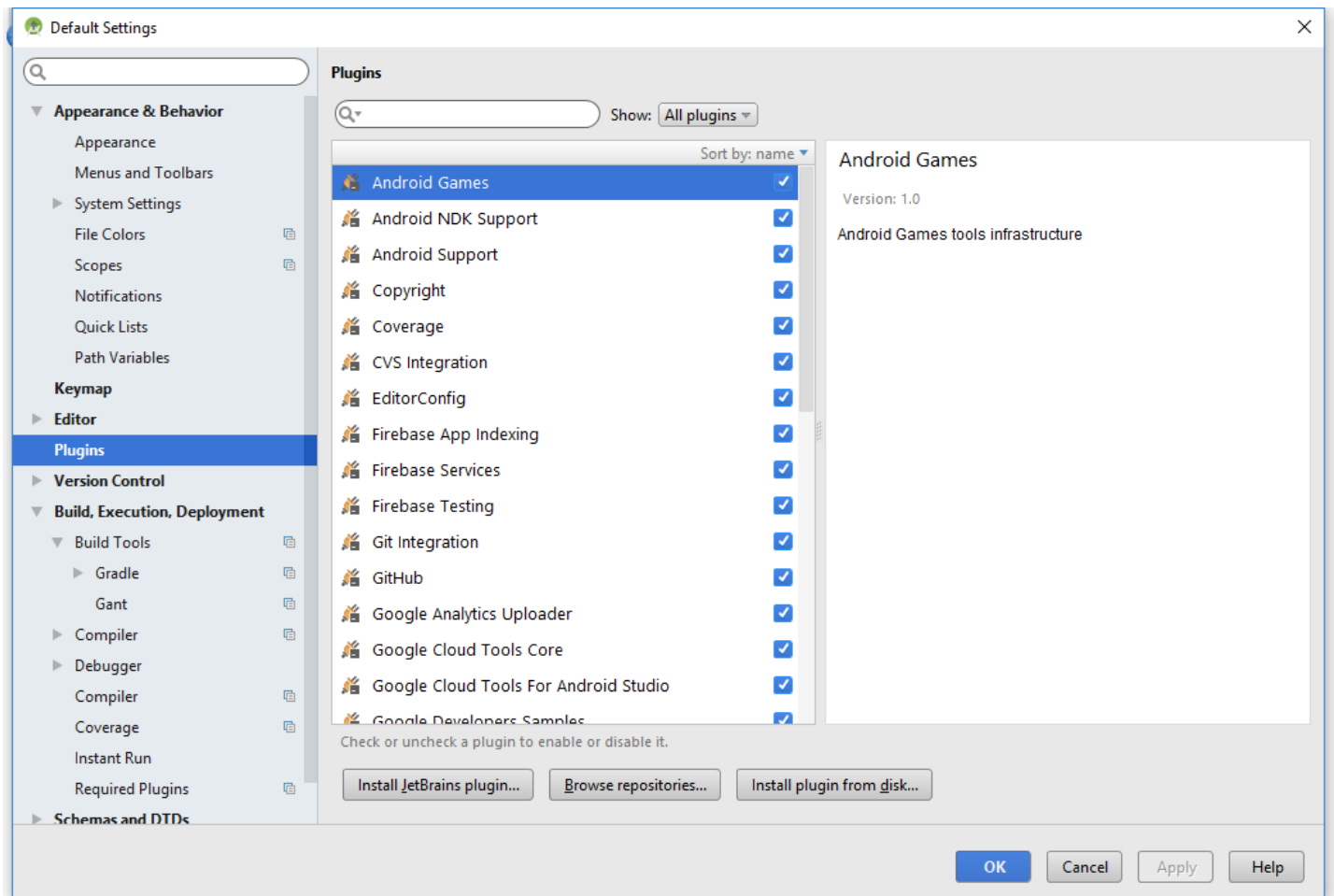
Open `configure` menu and select `Settings`



- Select `Build, Execution, Deployment | Gradle`
- Check `Offline work`
- Set service directory path to : `c:\Hands-on\gradle`
- Then Click on `Apply` button

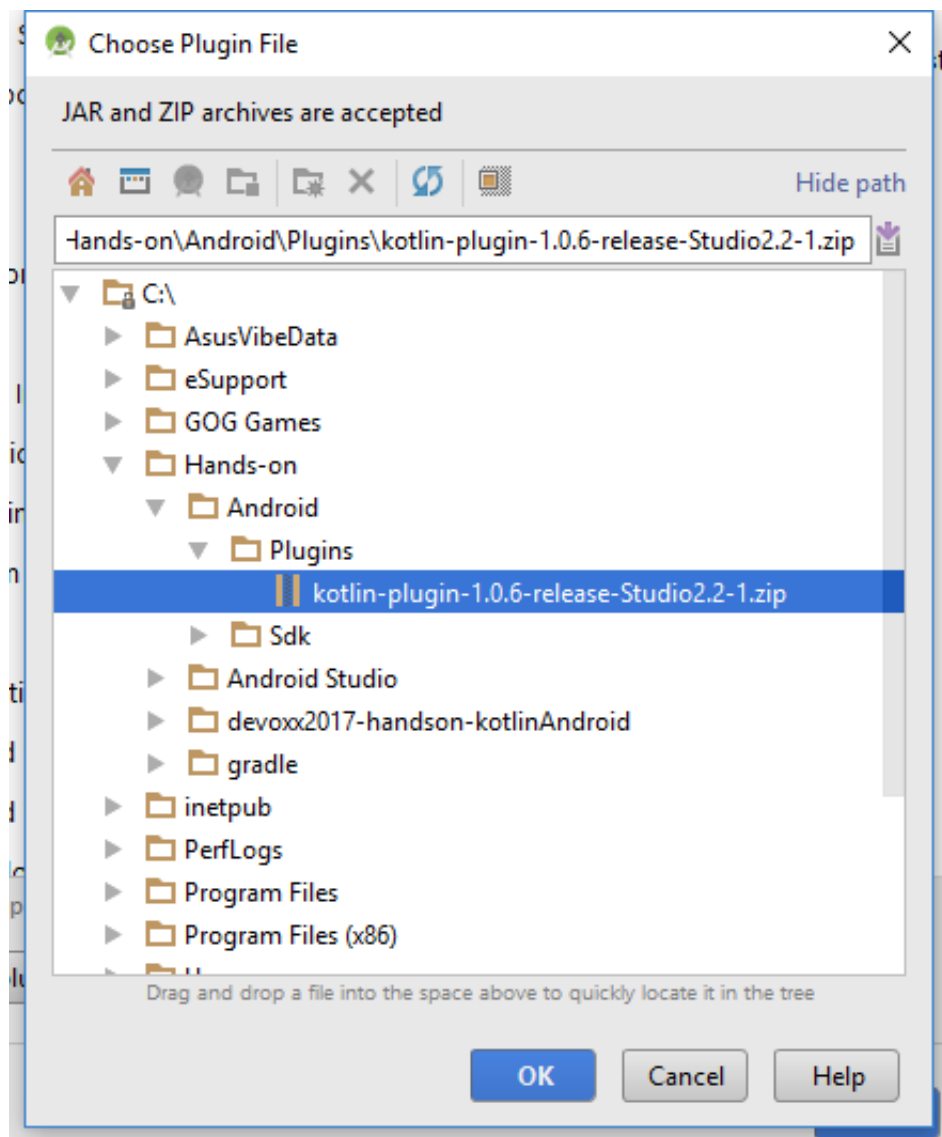


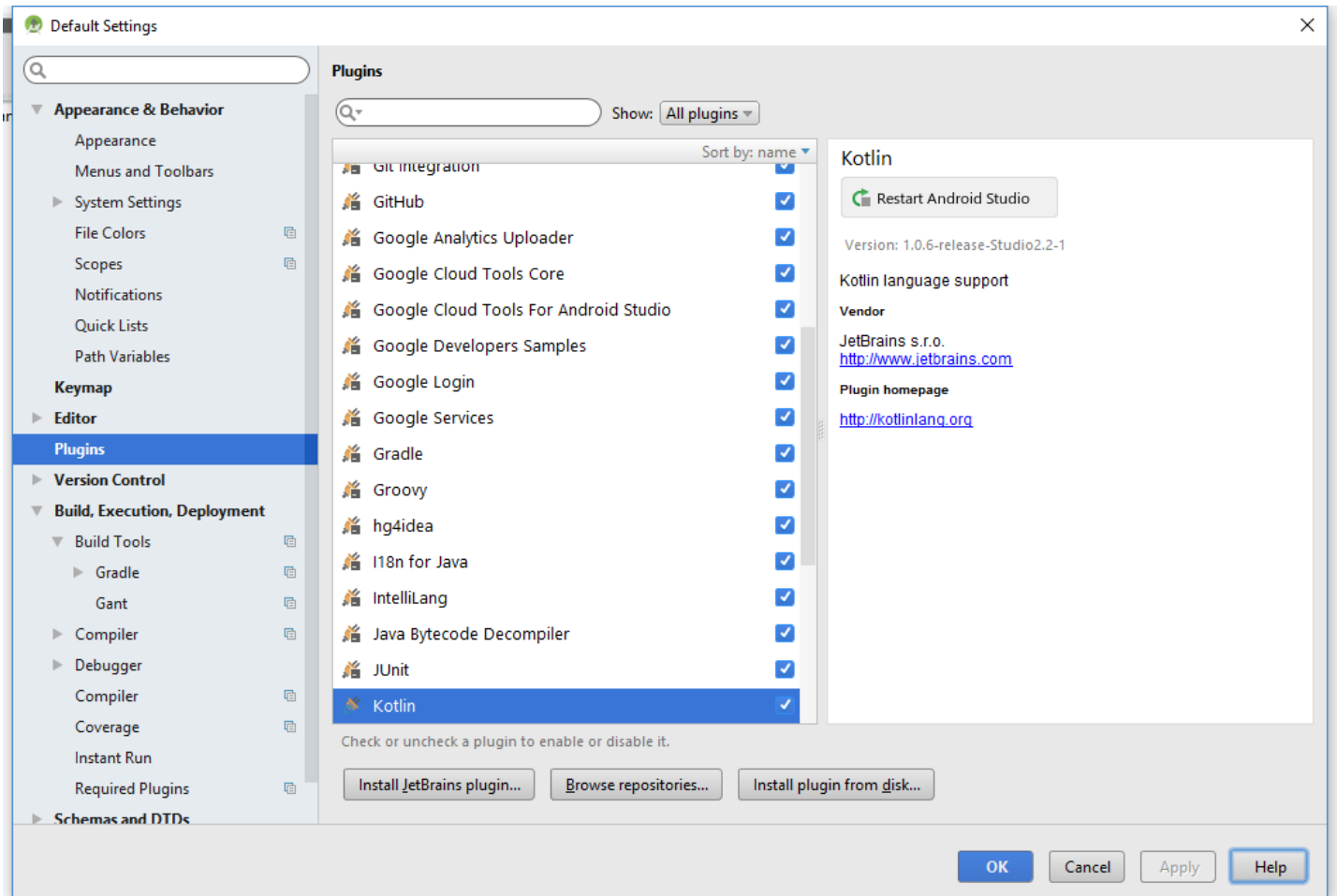
- Select `Plugins`
- Click on `Install plugin from disk...` button



Kotlin 1.0.6 plugin is provided along with the Android SDK archive under the `Plugins` directory :

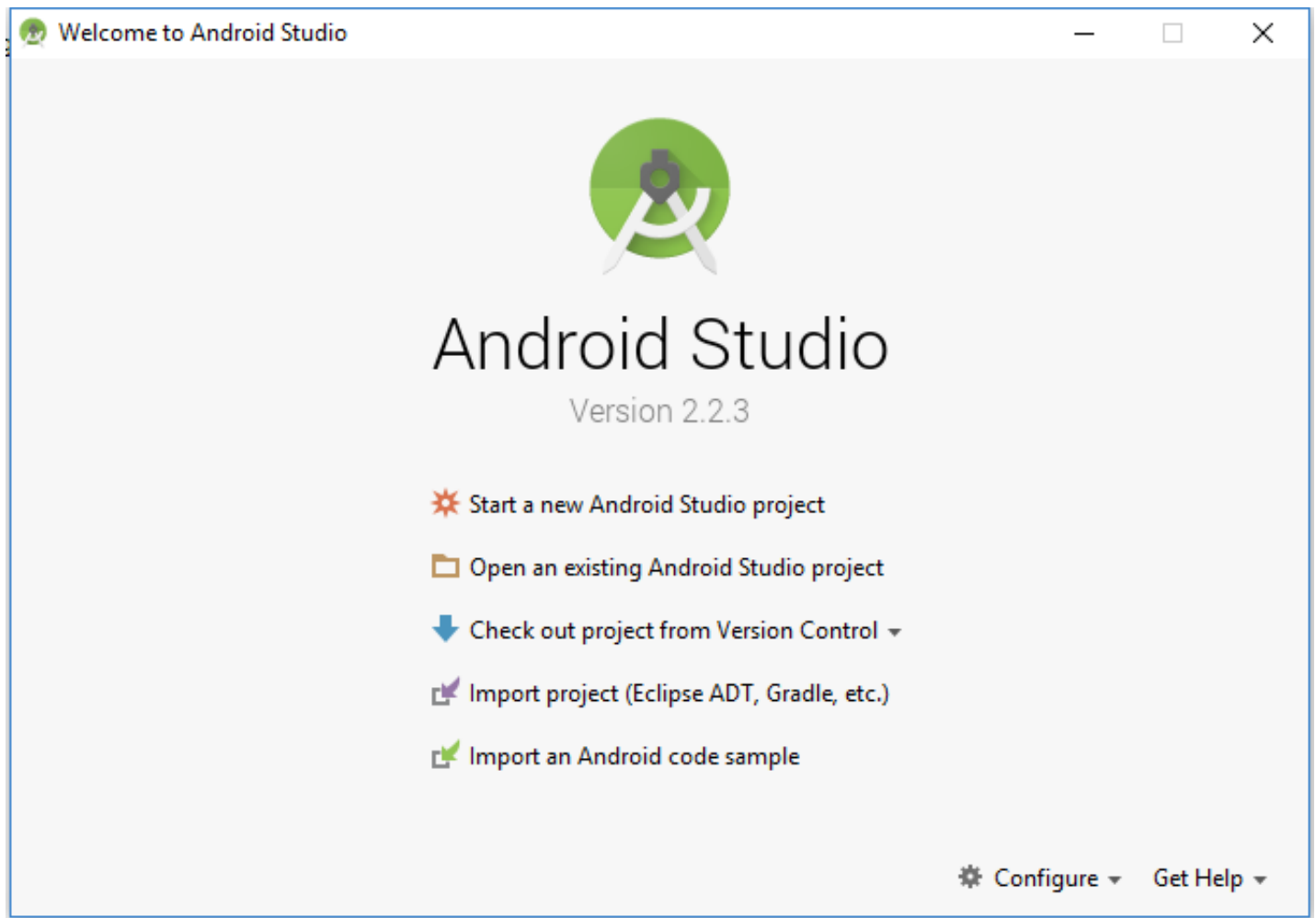
- `c:\Hands-on\Android\Plugins\kotlin-plugin-1.0.6-release-Studio2.2-1.zip`





- Then Click on `Apply` button
- Click on `Restart Android Studio` button

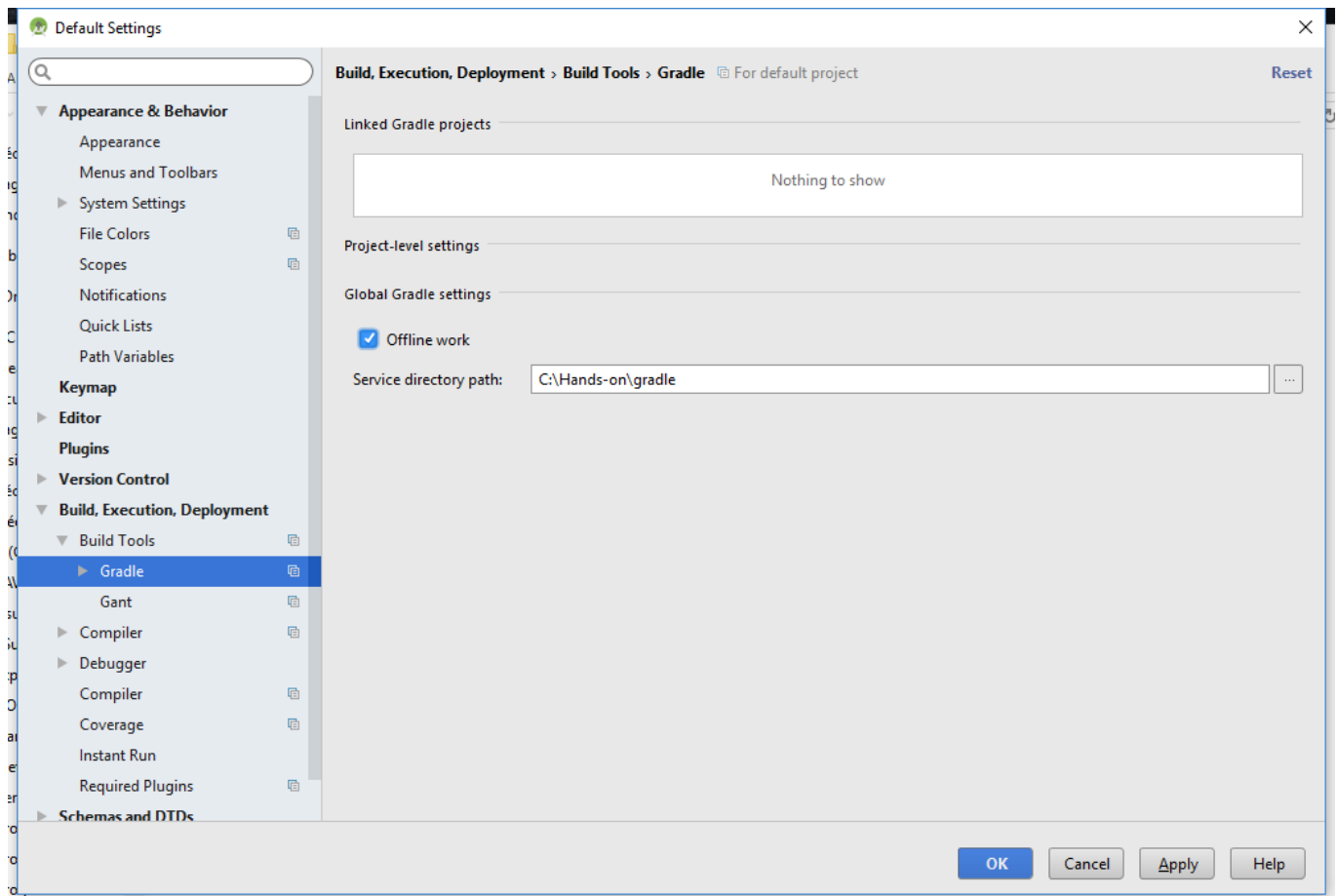
5. Import Hands-on project



- Click `Import project (Eclipse ADT, Gradle, etc.)` and choose `c:\Hands-on\2017-handson-kotlinAndroid` directory
- Click `Add Root`

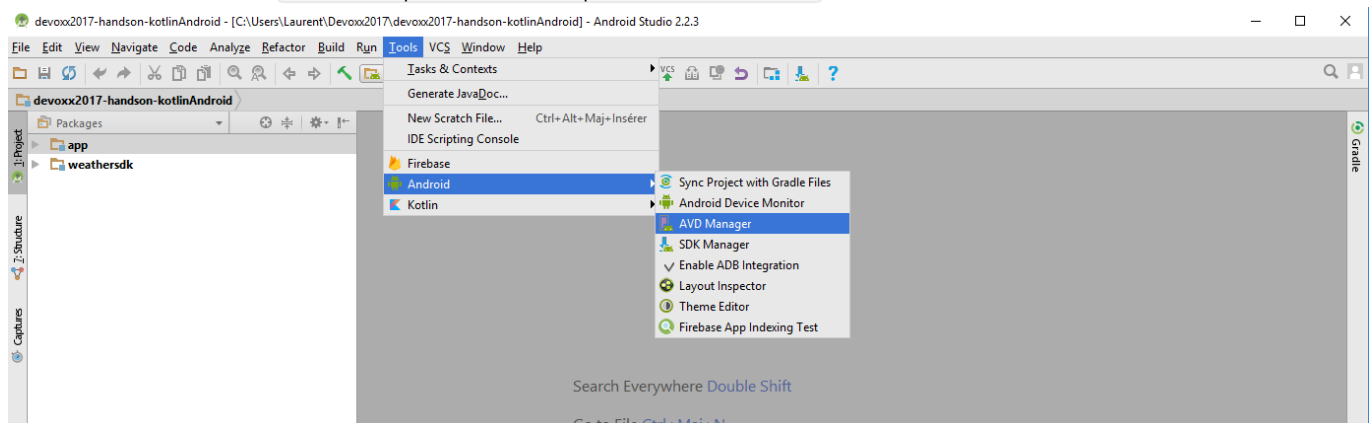
If there is still some errors with Gradle... Double check the following.

- Open `File | Preferences...` menu
- Select `Build, Execution, Deployment | Gradle`
- Check `Offline work`
- Set service directory path to : `c:\Hands-on\gradle`
- Then Click on `Apply` button

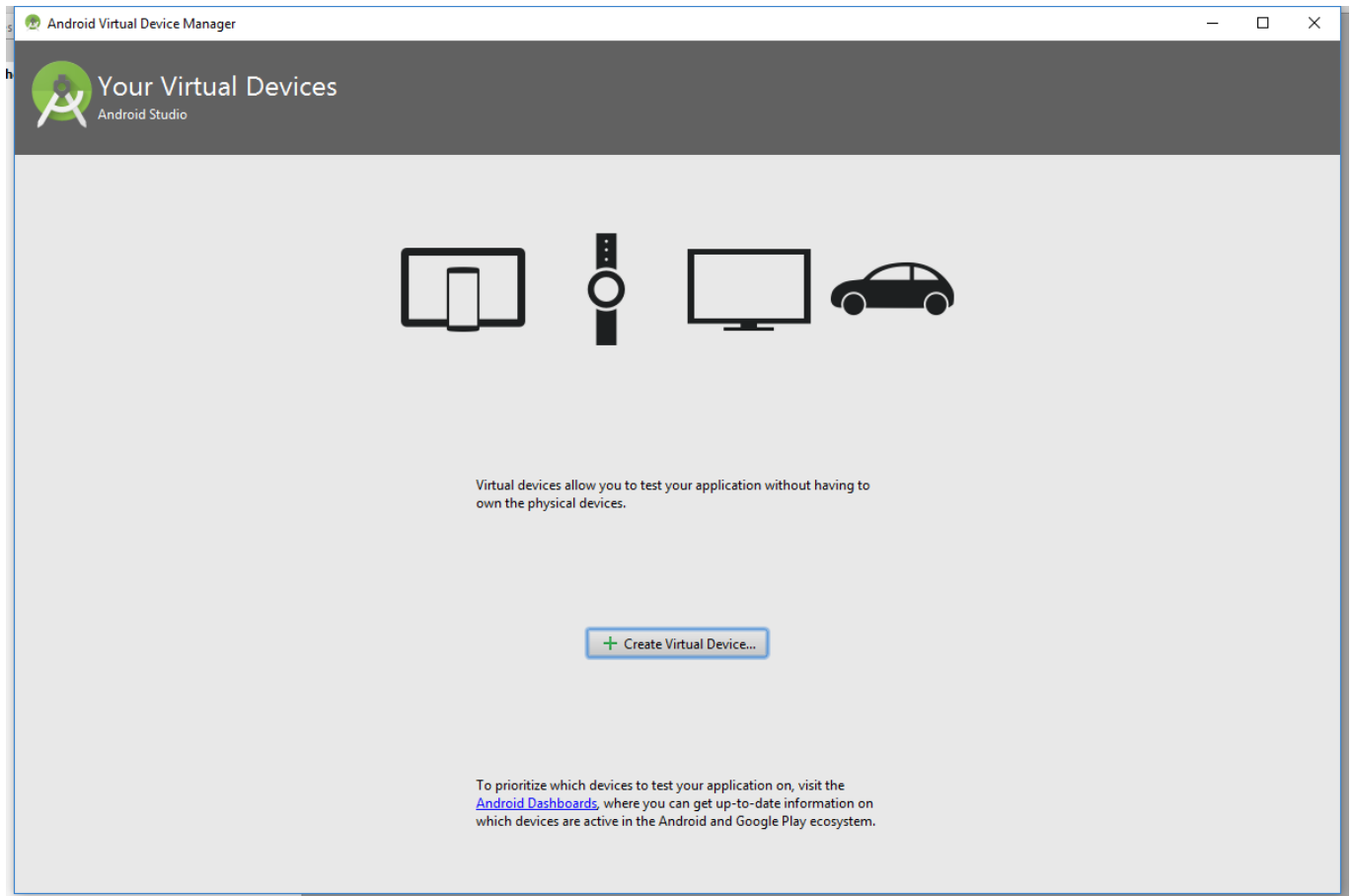


6. Create Virtual Device for Emulator

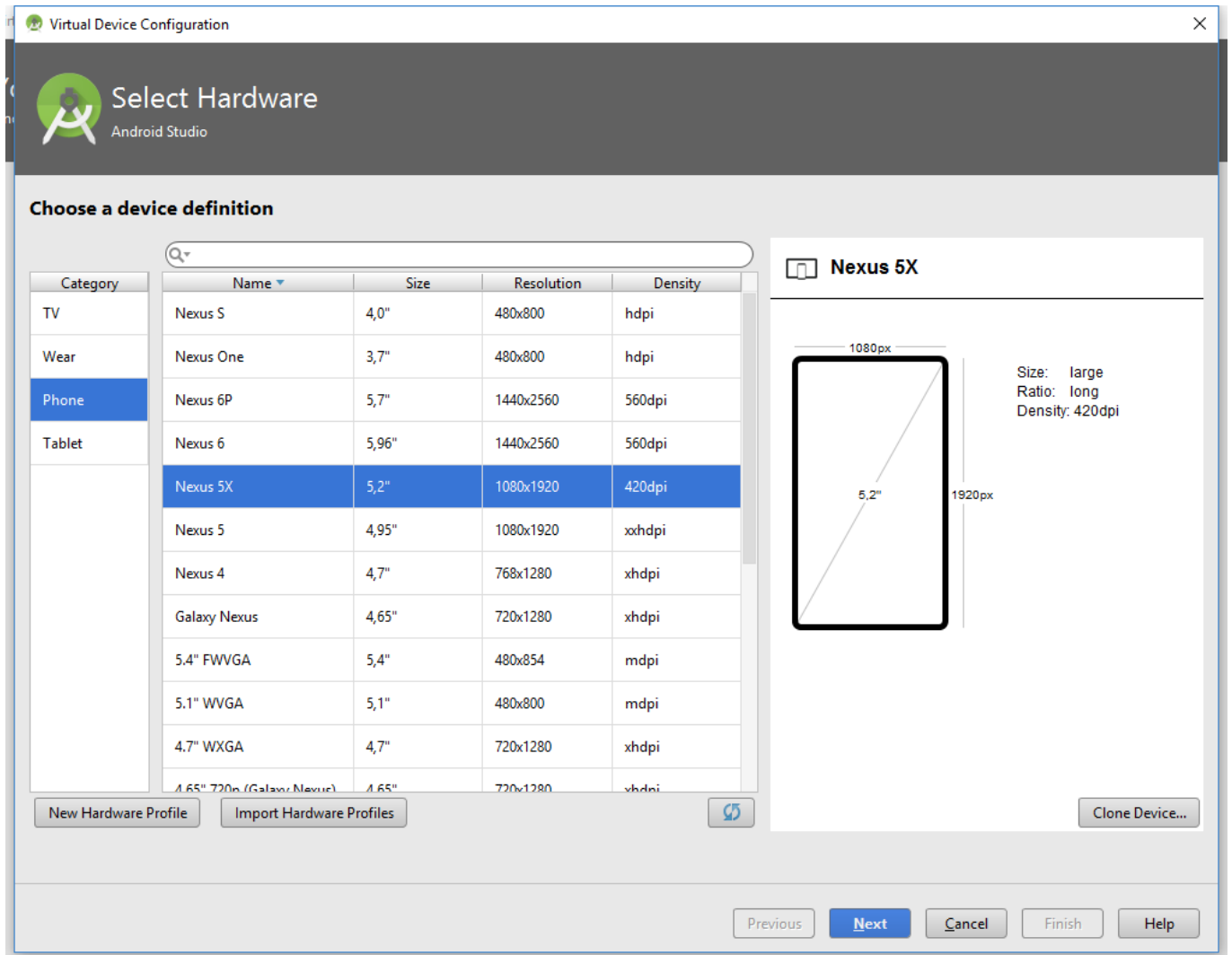
- Click on the menu : **Tools | Android | AVD Manager** :



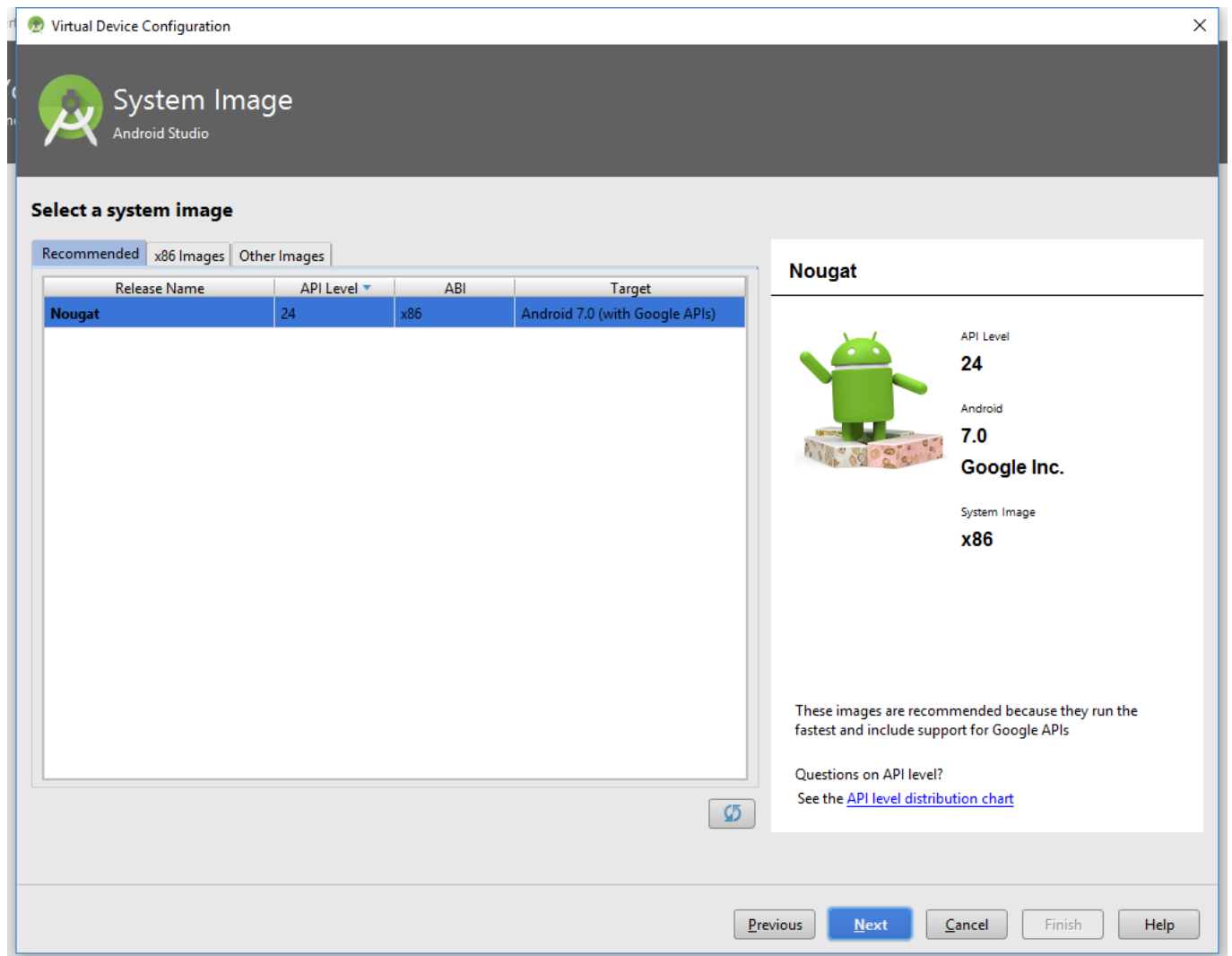
- Click on **Create Virtual Device...** button



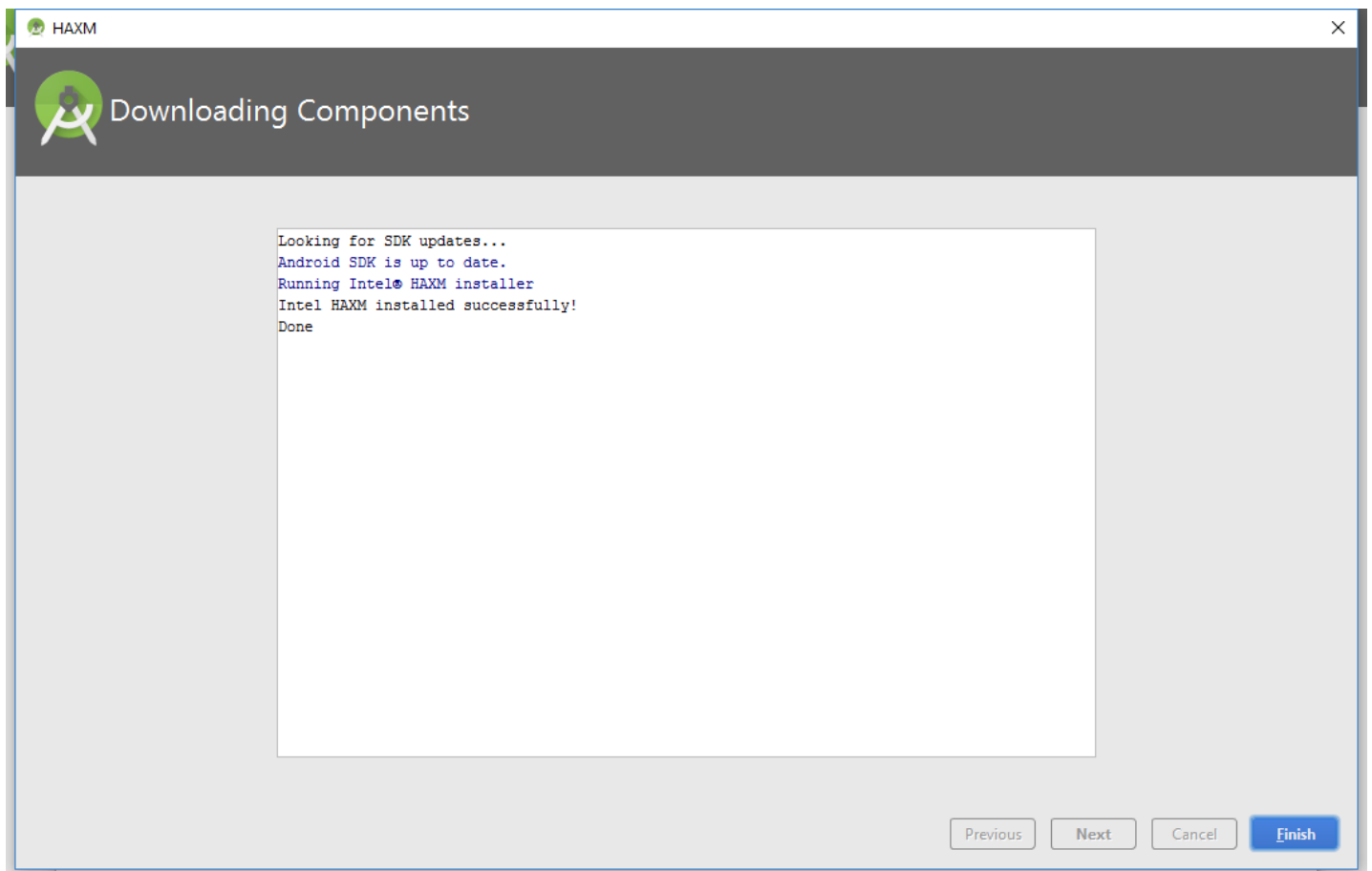
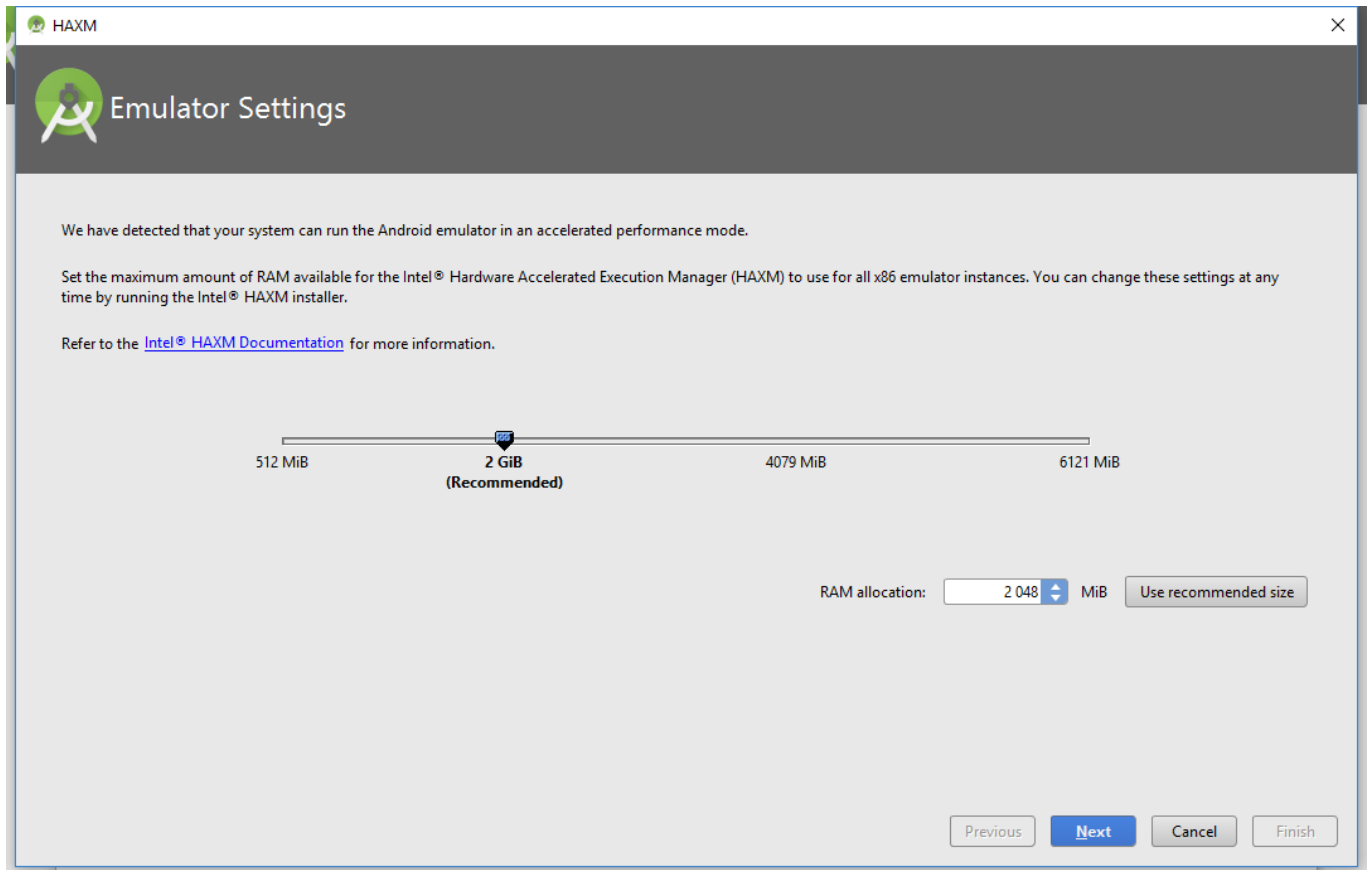
- Select **Nexus 5X**
- Click **Next**



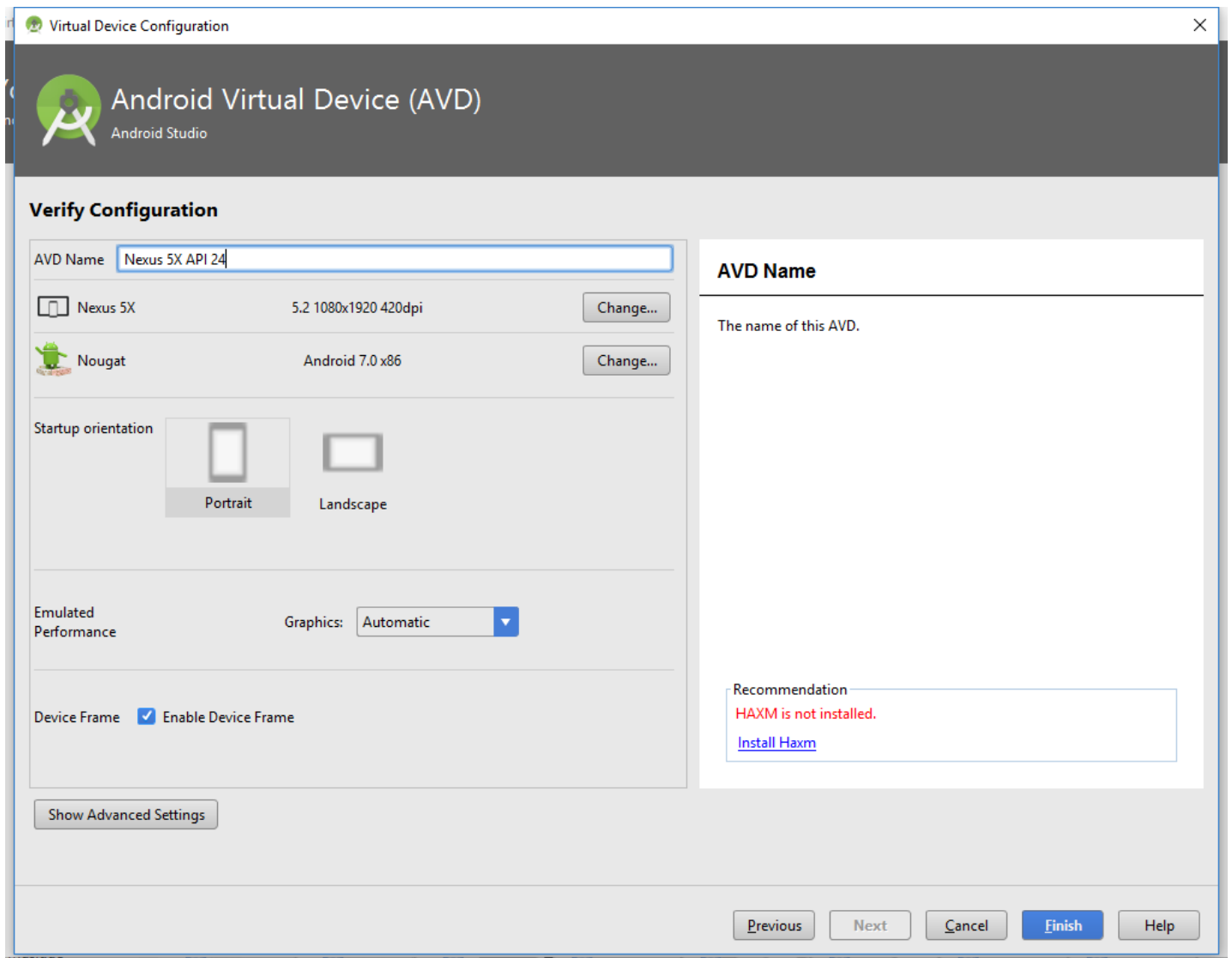
- Click **Next**



- Click `Install Haxm`




- Click **Finish**







- Click **Finish**

Android Virtual Device Manager



Your Virtual Devices

Android Studio

Type	Name	Resolution	API	Target	CPU/ABI	Size on Disk	Actions
	Nexus 5X API 24	1080 × 1920: 420dpi	24	Android 7.0 (Google APIs)	x86	650 MB	  

+ Create Virtual Device...

