Unit 1.7 Setup Android Emulator. Hello everyone. In this video, we will set up Android Emulator using Android Studio. So first we have to download the Android Studio search on Google. Download Android Studio on the first link with the official website of the developer.Android.com. Open it.

We can download the Android Studio from the official website. Click on Download Android studio. Accept the terms and conditions. Scroll down below. Click on I have read and agree with the above terms and conditions.

Download it. It is around 900 MB 21 JB. I have already downloaded it, so I will open it. This is the file that I have already downloaded. Now we will install it. Click on yes.

Now follow the instruction to install the Android Studio setup. Click on next. Make sure to check this Checkbox android virtual device. This will install the android emulator.

Click on next. Note down the directory where the Android Studio will be installed. That it. See the program files in the Android folder. Android studio will be there.

We will wait for some time to install it completely. Now our setup has been completed. Click on next and start Android Studio.

So in the Import Android Studio setting, if you are installing for the first time, click on this Do Not Import settings and click on OK. We will wait for some time to load it properly. Help Android Studio improve android Studio click on don't Send Click on next. Choose the type of setup as standard. Click on Next and select the UI theme as you wish. I will select the Light theme. Click on next. Now note down the current settings that will be installed. Like the android emulator. Of the side, six of the sides, 363 MB which Android SDK Build Tools version and the SDK platform version will be installed. That is 33. And note them that Intel X 86 system page will be installed. In the X 86 emulator, acceleration will be installed.

That will help to start them later. And you have to make sure that your CPU must support virtualization so, HAXM this software will help to start the Android Emulator as a virtual machine. It only runs if your CPU supports the virtualization. Now click on Accept for the preview license Also click on Accept and Intel Android Extra License. Accept the terminal conditions and click on Finish. Click on yes to install the intel HAXM installer.

Now you can see that. It also created an Android virtual device. With the name pixel Three, a API 33. Click on finish. You can see here Android Studio has been start on Click on

New project. The Android Studio ID will be open to create and develop an Android app. But we will go here more action.

To start our emulators only. Click on More Action and click on Virtual Device Manager. Here you can see the setup.

Also created a virtual device. But we will create our own device. By clicking on Create Device.

Now there are several categories you can Create virtual devices for Android phones, Android tablets, VR OS for the smartwatch for the Android TV, and automotive for the car, Automotive for the cars. I will select the category as Phone and select the device frame as pixel Two. The sign is indicated in the Play store. That means this device will include the Google Play apps and its services. I will click on next. Now in the select system image, we have to select the Android version OS here. So you can see the latest Android version here. Right now it is Android API. Tiramisu. You can select the older version also and the CPU architecture that is given.

In the API section. And the API level that has been released.

So you can see the target with their official name. That is for the Android 12.0. It is android. As you can see the download button when you click on it, the image will be downloaded. Click on Download, select the license to accept, and click on

Next. The downloading will Start for the selected system image. That is for the Android 12.0. As you can see it is off. The size is 1.3 GB. So make sure you have enough space. In your local hard drive.

The system image downloading has been finished. Click on Finish and you can see. That this image can now be selected and click on Next. Provide the name of the Android virtual device. I will select Android twelve. Click on Finish to create the device.

You can see Android Twelve has been created. Click on this Play button to launch the emulator. For the first time, it will take. Some time to boot. For the first time, boot it will. Take some time.

Now the phone has been booted. You can see we can control the device via the mouse and the keyboard also let's go to the setting and check the Android version. Scroll down below to the about device. And here we can see the IP. Address provided by our host system. And you can see the Android version. That is twelve. Now we will see how we can start the Android emulator via CLI via the command line. So for that, we have to set. The path for the emulator tool and the ADB. So now I will go to the. Directory where the. Now I will go.

To the directory where the ADB and. The emulator tool has been installed. That is go to the users go to your user directory for this PC. It is CDAC, here in the address bar type app data local Android SDK. These are the tools that we require to run the emulator. In the emulator folder, this file is responsible to run the emulator. And all these folders are the system image of the Android device that we have installed. And in the Platform-tools we have the ADB tool. So now we will set the path for the emulator dot exe file and the ADB dot exe that is present in the platform Tools. So I will copy the location of this directory from the address bar and I will go to this PC. Right-click properties. In the advanced system, settings click on Environment Variables.

Here you will have two options. One is the user variable and one is for the system variable. Under System variable go to the path and click on add it. And here I will add a new Line.

In the emulator. The emulator exe will be there. So we just have to provide it here. Till the emulator folder. Now click on next to add the same for the ADB tool ADB exe file that is present in the Platform Tools folder. Make sure that the folder name is correct, that I have been shown to you. Let me show you again. In the SDK folder it is platform-tools.com and make sure you have written it here platform underscore Tools click

on OK. Click on OK again. So now I will open the command prompt here from the address bar by typing CMD and I will go back to. The directory till the user CDAC. And now here I can launch both the tools, the emulator dot exe file also and the ADB via emulator dot exe I can start the Android emulator. So we are the command emulators list AV DS to list the emulator that is installed in our system. So you can see that Android twelve. That I have created is listed here. So I will type emulator- AVD space the emulator name so you can see that on adding the path for the emulator we can start the emulator via the command line. Now press Enter and the emulator will start from the command prompt. Do not close the CMD window, otherwise, the emulator will be closed also. So you can see that emulator has been started. Let me open another command prompt window and here, and here, I will type.

ADB devices to list the. So you can see that one emulator has been connected via ADB and ADB is also running from any location because we have set the path of the ADB and the emulator. So now the setting up of the emulator and the ADB has been done. Thank you for watching this video.