

Manually install Gradle and use it in Android Studio

Asked 7 years, 9 months ago Modified 1 year, 1 month ago Viewed 298k times

I'm using Android Studio. How can I manually install and use gradle within Android Studio .

97 I've downloaded gradle from <http://www.gradle.org/downloads> version gradle-2.1-all.zip.

When I open the zipped file I can see bin, docs etc, but I don't know where to copy it. And even after copying how to use it within Android..



30



[android](#) [gradle](#) [android-studio](#)

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edited Mar 31, 2016 at 19:42

asked Oct 8, 2014 at 10:20



Forge

6,248 6 42 60



jackuars

user 1,123 1 11 12

7 File > Settings > Gradle > Use local gradle distribution – [pskink](#) Oct 8, 2014 at 10:29

1 Nobody said what path exacty should be used in local distribution. – [SwapnilPopat](#) Jun 26, 2017 at 14:56

@SwapnilPopat I added an answer with all the details needed: stackoverflow.com/a/54924485 – [Eric](#) Feb 28, 2019 at 11:27

1 what about if we edit the gradle-wrapper.properties manually without going to the settings and other stuffs? – [gumuruh](#) May 14, 2020 at 3:52

Sorted by:

Trending sort available

Highest score (default)

19 Answers

<https://services.gradle.org/distributions/>

64 Download The Latest Gradle Distribution File and Extract It, Then Copy all Files and Paste it Under:



C:\Users\{USERNAME}\.gradle\wrapper\dists\

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edited Jul 23, 2019 at 10:55

answered Mar 22, 2015 at 18:21



CollinsKe

user 45 8



Abdulla Sirajudeen

1,222 16 28

4 With android-studio 3.3, this won't work, unless you know exact hash, and put it under the hash dir. – [Eric](#) Feb 28, 2019 at 10:41

4 @EricWang First you can let android studio start the download, then you stop it, and locate the file as Hackbal said, you will find the hash already created – [Mosty Amine](#) Nov 23, 2019 at 15:05

and how do you start android studio to download? – [Sergio Solorzano](#) Dec 3, 2020 at 7:34

@SergioSolorzano Then Just Start Android Studio as Normal. After Build Complete it will be work
– [Abdulla Sirajudeen](#) Dec 5, 2020 at 18:33



48



Android Studio will automatically use the Gradle wrapper and pull the correct version of Gradle rather than use a locally installed version. If you wish to use a new version of Gradle, you can change the version used by studio. Beneath your Android Studio's project tree, open the file `gradle/wrapper/gradle-wrapper.properties`. Change this entry:

`distributionUrl=http\://services.gradle.org/distributions/gradle-2.1-all.zip`



Share Edit Follow

answered Oct 8, 2014 at 10:31



[Larry Schiefer](#)

15.6k 2 26 32

19 I am using my laptop offline, so I want to download and use from another source. Which is why am trying to do this manually. – [jackuars](#) Oct 8, 2014 at 10:49

4 Try temporarily changing the `distributionUrl` line to point to the zip on your filesystem, run your build (e.g. `gradlew assemble`) then when it is done change it to the correct URL. That should force Gradle to "download" the package from your filesystem and set it up as it expects, while leaving other machines ok when you commit the `gradle` directory to your VCS. – [Larry Schiefer](#) Oct 8, 2014 at 13:36

after two days, i see clear with you reply, a lot of methods on the web with grep, etc, and it was simple
– [stackdave](#) Jul 3, 2017 at 15:11

1 @TanyavonDegurechaff Check this answer which contains more details:
stackoverflow.com/a/54924485 – [Eric](#) Feb 28, 2019 at 11:29



Step 1: Go to the download site from Gradle: <https://gradle.org/releases/>

27

Step 2: Extract the downloaded zip file into a directory.



Step 2: Hit Ctrl + Alt + S (mac: ⌘ + ,) in Android studio/IntelliJ IDEA



Step 3: Goto: Build, Execution, Deployment >> Build Tools >> Gradle (Or just type in the searchbar Gradle)

Step 4: Select: (X) Use local gradle distribution and set Gradle home to your extracted Gradle directory. Click on apply.

Step 5: Get rid of your unnecessary gradle files delete:

- **MyApp/gradle/**

- **gradlew**

- **gradlew.bat**

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edited Dec 1, 2017 at 18:01

answered Sep 17, 2015 at 8:45

Thank you Lee i edited my mistake. It is indeed Ctrl+ Alt + S instead of Ctrl+ Shift + S. – [guicey](#) Jun 26, 2016 at 19:43

Where do you press CTRL-ALT-S? in windows explorer after extracting the files? – [AaA](#) Jul 5, 2017 at 3:50

@AaA In Android Studio / IntelliJ IDEA, this shortcut opens your IDEA settings menu. I updated your feedback thank you. – [guicey](#) Jul 6, 2017 at 10:26

- 1 This works, but each time open project, android-studio will ask to confirm whether use gradlew instead. And I can't find an option to ignore that. – [Eric](#) Feb 28, 2019 at 10:41



1.Download the Gradle form [gradle distribution](#)

10

2.Extract file to some location



3.Open **Android Studio** : **File > Settings > Gradle > Use local gradle distribution** navigate the path where you have extracted the gradle.



4.click apply and ok

Done

EDIT 1: In the latest version of AS, the option is called "Use Gradle from: Specified location, thanks @Adam Burley for suggestion

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edited Mar 17, 2021 at 5:33

answered May 19, 2017 at 6:39



[Mukesh Y.](#)
 user 819 1 14 35

Which version of Android studio your answer applies to? in Android Studio 2.3.3 there is no Gradle under Settings Window (it is under Build, ...) and it does not have such option as Use Local gradle distribution – [AaA](#) Jul 5, 2017 at 3:43

file->setting->Build,Execute,Deployment-> Gradle. then select Use Local gradle distribution check box and give the gradle path – [Mukesh Y.](#) Jul 5, 2017 at 4:55

i think he is using android studio 3 and not version 2. – [gumuruh](#) May 14, 2020 at 4:02

In the latest version of AS, the option is called "Use Gradle from: Specified location" – [Adam Burley](#) Mar 16, 2021 at 18:19



Assuming this is a windows system and we are using **gradle-2.1-all** [Applicable to any gradle version, just change the version as we need]

9



All the gradles can be found in <http://services.gradle.org/distributions/>



Check the `<Your Project>\gradle\wrapper\gradle-wrapper.properties` Make sure the **distributionUrl** is

```
distributionUrl=http\://services.gradle.org/distributions/gradle-2.1-all.zip
```

This is enough as it will automatically download the gradle.

After doing the above stuff, if you have downloaded the zip, paste the **gradle-2.1-all.zip** in

```
C:\Users\<username>\.gradle\wrapper\dists\gradle-2.1-all\<some_hash_key>\
```

It will save the extra downloading time.

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edited May 4, 2017 at 7:05

answered May 4, 2017 at 6:42



Ajmal V Aliyar

1,289 12 18

Read the question again! it is asking `Manually` ! and yet your answer says `automatically` in an OFFLINE machine there is no way to download automatically! – [AaA](#) Jul 5, 2017 at 3:46

1 how to get the hash key – [Seth](#) Oct 17, 2017 at 8:10



9



(There are 2 solutions mentioned in existing answers that might work, but the preferred one - manually download gradle for `gradlew`, is lack of essential details, and cause it fail. So, I would add a summary with missing details to save the unnecessary time wasted, in case others encounter into the same issue.)



There are 2 possible solutions:

Solution A: Use location `gradle`, and delete `gradlew` related files. **(not recommend)**

Refer to this answer from this post: <https://stackoverflow.com/a/29198101/>

Tips:

- I tried, it works, though this is not suggested for gradle use in general.
- And, with this solution, each time open project, android-studio will ask to confirm whether to use gradlew instead, it's kinda annoying.

Solution B: Download `gradle` distribution manually for `gradlew`. **(recommended)**

Android Studio will download gradle to sub dir named by a hash.

To download manually, need to download to the exact sub dir named by the hash.

Steps:

- **Get the hash.**

- Start android-studio.
- Create a basic project.
- Then it will create the hash, and start to download gradle.
e.g `.gradle/wrapper/dists/gradle-4.10.1-all/455itskqi2qtf0v2sja68alqd/`
- Close android-studio.
- Find the download process, by android-studio.
e.g `ps -aux grep | android`
- Kill all the related android processes.
- Remove the blank project.

- **Download gradle by hand.**

- Go to the hash folder.
e.g `.gradle/wrapper/dists/gradle-4.10.1-all/455itskqi2qtf0v2sja68alqd/`
- There is a partly download file.
e.g `gradle-4.10.1-all.zip.part`
- Download the exact version by hand.
from website: <https://services.gradle.org/distributions/>
e.g <https://services.gradle.org/distributions/gradle-4.10.1-all.zip>
- Remove the `*.part` file.
- And copy the download file there instead.
e.g `.gradle/wrapper/dists/gradle-4.10.1-all/455itskqi2qtf0v2sja68alqd/gradle-4.10.1-all.zip`

- **Start Android Studio and try again.**

- Create a new blank project again.
- Then it shouldn't need to download gradle again.
- It will uncompress gradle in the the same dir.
e.g `.gradle/wrapper/dists/gradle-4.10.1-all/455itskqi2qtf0v2sja68alqd/gradle-4.10.1/`
- And starts to sync dependencies, indexing, and build.

Tips:

- After restart Android Studio & creating blank project again, if you see it says waiting for other process to download the distribution.
That means you didn't kill the previous download process, kill it first, then remove blank project, then create a new project to confirm again.
- Each version of Android Studio might use different gradle version, thus might need to repeat this process once, when Android Studio is upgraded.

BTW:

- Here is the dir layout on my Linux
(For Android Studio 3.3.1, which use gradle 4.10.1)

eric@eric-pc: ~/.gradle/wrapper \$ tree -L 4

```

.
├── dists
│   └── gradle-4.10.1-all
│       └── 455itskqi2qtf0v2sja68alqd
│           ├── gradle-4.10.1
│           ├── gradle-4.10.1-all.zip
│           ├── gradle-4.10.1-all.zip.lck
│           └── gradle-4.10.1-all.zip.ok

```

Suggestions to Android-Studio

- Since it's so slow when download gradle distribution within Android Studio .
It's better to provide an option to choose local gradle installation dir or .zip file to be used by gradlew .

Share Edit Follow

edited Feb 28, 2019 at 11:41

answered Feb 28, 2019 at 11:17

**Eric**

19.3k

16

134

171

but how to set up gradle.properties then? For example, I want to add parallel property but I do not want to change gradle.properties from the team project. – [ardiien](#) Nov 22, 2019 at 10:59

@YaroslavOvdiienko Does following answer your question: stackoverflow.com/questions/30333837/... – [Eric](#) Nov 22, 2019 at 16:33

The option to use local gradle was there in earlier versions of android studio (version 3x) , then some bone head admin within the android team removed it in Android studio 4x. – [Dr Deo](#) Jun 20, 2020 at 16:09



I used like this,

6

```
distributionUrl=file:///E:/Android/Gradle/gradle-5.4.1-all.zip
```



And its worked for me.

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answered Aug 21, 2019 at 9:17

**Gunaseelan**

12.8k

10

74

118

where do you add this? – [Sergio Solorzano](#) Dec 3, 2020 at 7:35

1 In gradle-wrapper.properties. – [Gunaseelan](#) Dec 3, 2020 at 7:42

download the desired package Then modify the distribution line to

4 `distributionUrl=file:/c:/Gradle/gradle-5.5.1-all.zip`

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answered Dec 15, 2019 at 22:09



[mohamed elshazly](#)

51 1

2 i think you have to escape the ':' with \: – [Eboubaker](#) Feb 18, 2020 at 11:08

1 @Eboubaker thanks your notice was very usefull :) – [Mustafa Muawia](#) Jul 29, 2021 at 12:51

I'm not sure why there are so many contorted descriptions of doing this. Perhaps because Android Studio (AS) is constantly changing/evolving? Nevertheless, the procedure is *this* simple.

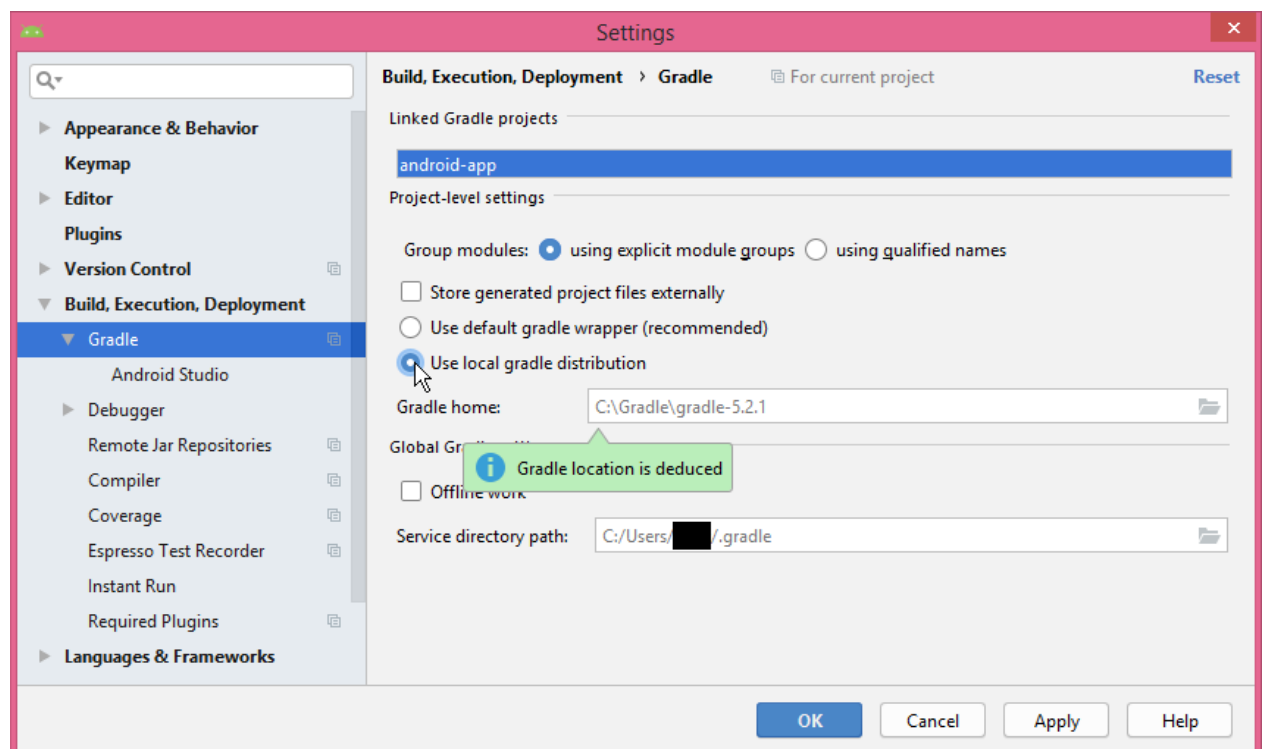
Assuming you have already installed Gradle in a suitable directory, mean that you probably also defined an environment variable for `GRADLE_HOME`, if not define it now, and restart AS.

For my example: `GRADLE_HOME=C:\Gradle\gradle-5.2.1`

Then fire up AS and navigate to:

File > Settings > Build, Execution, Deployment > Gradle

Now, all you need to do is to select: (o) Use local gradle distribution . AS will then tell you it found your local Gradle paths:



Hit Apply and ok and restart AS.

Now all the Gradle data can be found in your *HOME* directory, usually located here (in this case on Windows):

```
# tree -L 2 $USERPROFILE/.gradle/ | tail -n +2
```

```
├── build-scan-data
│   ├── 2.1
│   └── 2.2.1
├── caches
│   ├── 3.5
│   ├── 5.2.1
│   ├── jars-3
│   ├── journal-1
│   ├── modules-2
│   ├── transforms-1
│   ├── transforms-2
│   ├── user-id.txt
│   └── user-id.txt.lock
├── daemon
│   ├── 3.5
│   └── 5.2.1
├── native
│   ├── 25
│   ├── 28
│   └── jansi
├── notifications
│   └── 5.2.1
├── workers
├── wrapper
│   └── dists
```

Tested on latest AS 3.3.2

Share Edit Follow

edited Mar 29, 2019 at 16:47



Zoe stands with
Ukraine ♦

25.4k 18 113 146

answered Mar 29, 2019 at 16:38



not2qubit
user

12.1k 7 85 115

- 2 In the latest version of AS, the option is called "Use Gradle from: Specified location" – [Adam Burley](#)
Mar 16, 2021 at 18:19

@AdamBurley Even though I have set "Specific Location" to my system gradle, The build logs shows it still uses inbuilt gradle. Funny thing is that when I went to write gradle path, it automatically detected its location based on my system env variables. On side note, I can't find option to use system kotlin compiler in last few versions. Inbuilt compiler is slow, I remember in old version, I could use system kotlin which improved build time performance by a lot. – [Abhinav Kulshreshtha](#) Feb 24 at 17:35 ✎



Step 1. Download the latest Gradle distribution

3

Step 2. Unpack the distribution



Microsoft Windows users



Create a new directory C:\Gradle with File Explorer.

Open a second File Explorer window and go to the directory where the Gradle distribution was downloaded. Double-click the ZIP archive to expose the content. Drag the content folder gradle-4.1 to your newly created C:\Gradle folder.

Alternatively you can unpack the Gradle distribution ZIP into C:\Gradle using an archiver tool of your choice.

Step 3. Configure your system environment

Microsoft Windows users

In File Explorer right-click on the This PC (or Computer) icon, then click Properties -> Advanced System Settings -> Environmental Variables.

Under System Variables select Path, then click Edit. Add an entry for C:\Gradle\gradle-4.1\bin. Click OK to save.

Step 4. Verify your installation

Share Edit Follow

answered Aug 12, 2017 at 13:19

 [Masih Mol.](#)
user 87 1 7




3

Unpack it where ever you like. In Android Studio under Settings is category Gradle where you can specify external gradle location if you want. It probably makes sense to put gradle bin folder into your path.



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answered Oct 8, 2014 at 10:30

 [Okas](#)
user 2,616 1 17 26



Should I define Environment variables for Gradle to get it to work? If so how? – [jackuars](#) Oct 8, 2014 at 10:51

No, you dont need any special environment variables. – [Okas](#) Oct 8, 2014 at 10:52



Follow these steps

2

1. Download gradle



2. Extract the file to a specific location you desire



3. Open android studio Click on setting and on build, execution and deployment, then gradle

4. Enable work offline and change service directory to the location of the extracted filed.

This is what worked for me. I hope it helps.

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edited Dec 7, 2019 at 13:39

answered Dec 7, 2019 at 12:03



user158

user

11.6k

7

57

86



Ezekiel Adewale

21

1



2



in first step you should go to <http://www.gradle.org/downloads> and then choose your Gradle version and follow download link in GitHub and then download Gradle from GitHub. after your download is completed, you should extract the downloaded file in a directory (every directory that you want). finally open extracted folder and just run gradlew.bat and wait several minutes for completing download. and after completing download files, Gradle install itself automaticly. Gradle will work correctly for next times. i resolve this problem with this way and i tested it and every things are ok, so every one can test this way, it should working well. Good Luck.

Share Edit Follow

answered Mar 7, 2016 at 15:31



Bill

21

2

Read the question again! it is asking Manually ! and yet your answer says automatically in an OFFLINE machine there is no way to download automatically! – AaA Jul 5, 2017 at 3:47



1

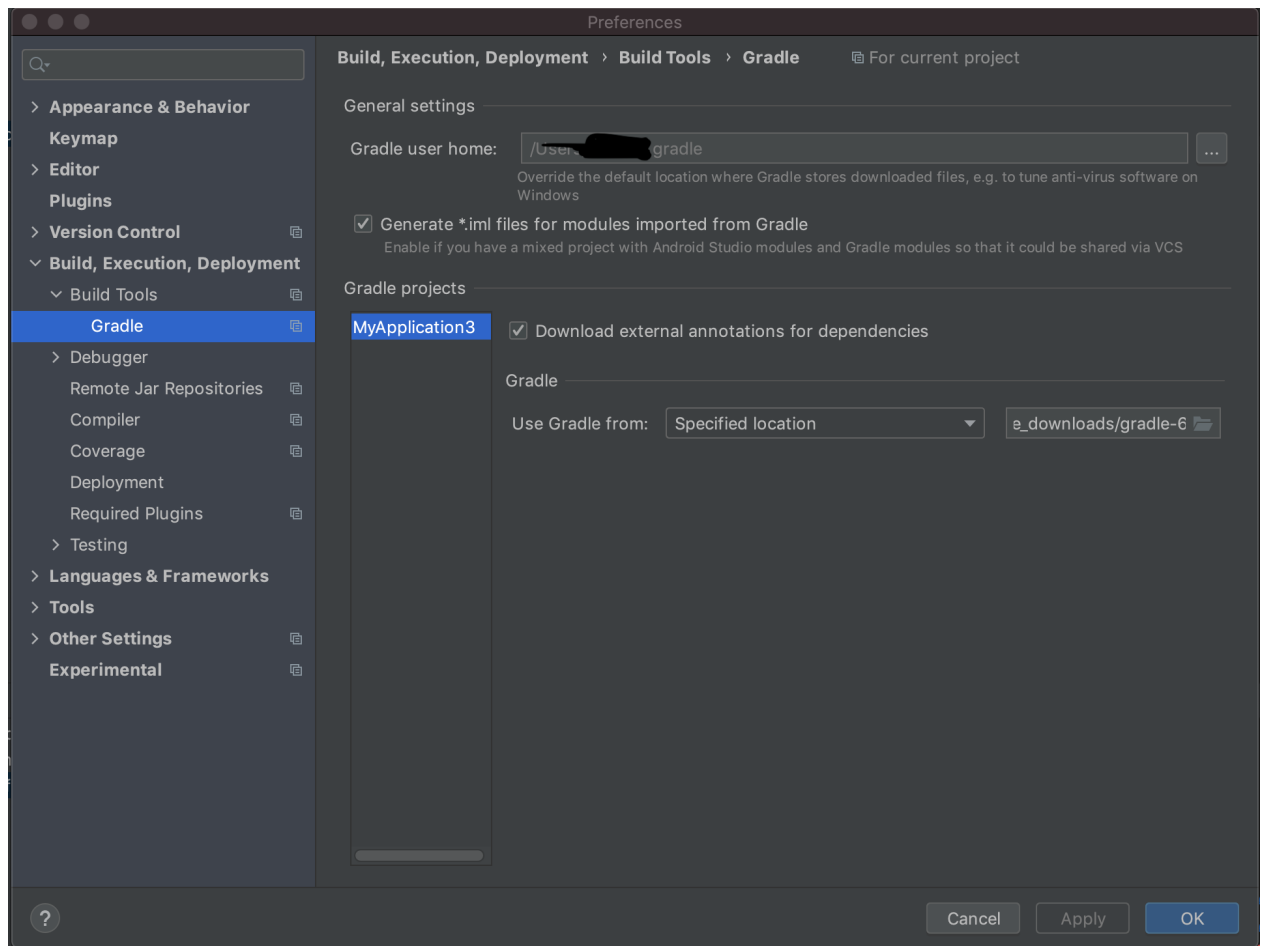


1. Download the gradle to your computer

2. Extract the file to any folder of your choice

Now there are two ways you can tell Android studio to use the downloaded gradle

1. Go to "AndroidStudio->Preferences->Build,Execution,Deployment->BuildTools->Gradle" and update "Use Gradle from:" to Specified location and set your path



- Go to gradle-wrapper.properties file in your project. This will be located in "YourAppFolder->gradle->wrapper->gradle-wrapper.properties" Edit the distributionUrl for example

distributionUrl=file:/Users/john/downloads/gradle-6.5.1-all.zip

Share Edit Follow

answered Mar 17, 2021 at 16:34

 **Prakash**
user 7,435 4 47 44

▲ Like @ said

1 <https://services.gradle.org/distributions/>

▼ Download The Latest Gradle Distribution File and Extract It, Then Copy all Files and Paste it Under:



C:\Users\{USERNAME}\.gradle\wrapper\dists\

but you have to first make **Android Studio** try downloading the zip file and cancel it.

That way you can get the *hash* and copy the file and put it under the hash

Share Edit Follow

answered Nov 24, 2019 at 14:16

Aryeetey Solomon
Aryeetey

4,996 2 21 27

If you are on LINUX follow the steps below:

0

- Go to the download <https://gradle.org/> and download the latest zip file (currently 3.1 is the latest version)
- Extract the downloaded zip file into /opt/android-studio/gradle/.
- Open your project in Android Studio and hit Ctrl + Alt + S
- Search for Gradle in the Search bar of the setting window
- Select: (X) Use local gradle distribution and set Gradle home to /opt/android-studio/gradle/gradle.x.x (where x.x is the version of the gradle zip file you just downloaded.). Then click on apply.
- Try to sync Gradle again if the sync has already failed. If not close your project and reopen your project.

Hope this solves your problem.

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edited Jun 20, 2020 at 9:12



Community Bot
user 1 1

answered Oct 23, 2016 at 18:42



rabra
user 39 4

Assume, you have installed the latest gradle once. But, If your particular project gradle version not match with the gradle version that already installed in the machine, the gradle sync want to download that version. To prevent this download there is one trick. First You have to know the gradle version that already installed in your machine. Go to :
C:\Users{username}\gradle\wrapper\dists, here you see the versions already installed, remember the latest version, assume it is gradle-6.1.1-all.zip . Now, come back to Android Studio. In your Opened project, navigate Android Studio's project tree, open the file gradle/wrapper/gradle-wrapper.properties. Change this entry:

```
distributionUrl=http\://services.gradle.org/distributions/gradle-6.1.1-all.zip
```

This way we prevent downloading the gradle again and again. But avoid this thing, if the version really old. If that, you will find this warning :

```

Deprecated Gradle features were used in this build, making it incompatible with
Gradle 7.0.
Use '--warning-mode all' to show the individual deprecation warnings.
See
https://docs.gradle.org/6.1.1/userguide/command_line_interface.html#sec:command_li

```

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edited Sep 4, 2020 at 15:04

answered Sep 4, 2020 at 14:52



Noor Hossain

1,276 1 14 21



On a Debian Distrubition I simply set

0

```
distributionUrl=file:///home/freduah/.GradleZip/gradle-6.7-all.zip
```



Android Studio Version ---- 4.2.1



OS ----- Kali GNU/Linux Rolling

Follow The Following Steps Remember It's Android Studio Version 4.2.1

In the Project Directory Go To android/gradle/wrapper/gradle-wrapper.properties

You Could set it with this syntax

```
distributionUrl=file:///home/<username>/pathToFile/nameOfFile.extensionType
```

Share Edit Follow

edited May 20, 2021 at 17:00

answered May 20, 2021 at 16:46



Freduah Gideon

user 984 2 7 18



1.Install gardle as per the given link <http://services.gradle.org/distributions/> 2.Extract this downloaded file in C:\Gradle\gradle-4.5 location 3.set the environment of gradle This

-3

PC\properties\advance system settings\Environment variable 4.let's start Android studio And set the path of gradle C:\Gradle\gradle In Android studio



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answered May 19, 2018 at 3:43



Suraj Maurya

user 1



Highly active question. Earn 10 reputation (not counting the [association bonus](#)) in order to answer this question. The reputation requirement helps protect this question from spam and non-answer activity.