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Free apk emulator for pc

If you want to run Android on your Windows PC, there is no shortage of emulators available today. For those wondering, there are many reasons why you might want to use an Android emulator on your Windows PC. For example, Android developers can troubleshoot their apps, players can enjoy Android games on a bigger screen and the list goes on. That said, the problem with Android emulators is that many of them tend not to work as advertised. That's why I tried more than a dozen emulators to give you the 6 best Android emulators for Windows. Best Android Emulators For Windows PC (Updated October 2020) Android Emulators or Emulation in general is nothing new. It is basically a virtual machine running on top of Windows or another platform - similar to Windows running on a virtual machine in Linux or Linux running on Chrome OS. Technically, it is called a sandbox container and kept away from the underlying operating system. As we all know, Android is based on ARM architecture, so it becomes a little difficult to emulate Android on an x86-64 machine (Intel or AMD). So developers use something called QEMU to offer ARM on the go. It is an open source project that performs hardware virtualization by translating ARM binaries that can be understood by Intel or AMD CPU. In fact, emulation has become so better that it now offers almost original performance if you have the right hardware, which means that if the processor supports Intel's core-based virtual machine (KVM) or AMDs VT-x. On top of that, emulators have all sorts of Android SDKs and dependencies, so it runs on any architecture without any problem. Installing an Android emulator is quite easy on a PC. Emulators offer you an EXE file that can be downloaded from the link mentioned below under each emulator. After you download the installation file (.exe), double-click it, and it starts the setup wizard. Now click Next and follow the on-screen instructions. Some emulators like Nox and MEmu also download multiple libraries during installation. When the installation is complete, simply open it and sign in with your Google Account. You can now install games from the Play Store or another source. The first tip I would give before using an Android Emulator on Windows PC is that you have enabled virtualization under bios settings. It is extremely necessary if you want faster performance. Apart from that, move to the emulator's Settings page and enable hardware-based acceleration. In this way, the emulator will benefit from virtualization technology. Apart from that, if you primarily use Android Emulators for games, then go ahead and assign the keyboard and mouse settings according to your preferences. Then uninstall bloatware that comes preinstalled with emulator. It will make performance much better. Finally, and something very important, if possible, use a secondary Google account to log Emulator. Emulators are generally outdated and older OS versions for better compatibility. However, it can lead to serious security issues as well. Not to mention, there have been many cases of emulators mining Bitcoin in the background (case in point, Andy emulator) so stay away from these programs. List of best Android emulators for PC 1. BlueStacks BlueStacks is undoubtedly one of the best Android emulators you'll find on Windows. It covers not only games, but as a general user, if you want to enjoy Android apps on Windows PC, BlueStacks is a great emulator at your disposal. Over the years it has gone through many improvements and the current BlueStacks are based on Android 7.1.2 which is Nougat. The company has promised that it will bring BlueStacks 5 with a new gaming engine, and it will be based on Oreo. Apart from that, the best thing about BlueStacks is that it can run on any kind of Windows hardware, be it Intel or AMD. So the issue of compatibility is resolved with BlueStacks. Moreover, to provide a seamless Android emulation on Windows, BlueStacks has partnered with Samsung to bring the Galaxy Store on the platform. That's awesome, isn't it? It gives you access to a variety of quality Android games on Windows, including Fortnite, RAID, Sonic Forces and more. And let's not forget the show. The company claims that BlueStacks is 6X more powerful than the standard Android phones out there. In addition, it offers a variety of features such as multi-instance, key mapping and an AI-based gaming engine for superior performance. Also, it supports older Windows versions like 7 and 8.1 which is great. In tandem, BlueStacks is one of the best Android emulators for Windows 7. All in all, if you are looking for an overall best Android emulator for PC then BlueStacks certainly comes on top. Advantages Great Compatibility Feature-Rich Based on Android 7.1.2 Offers an app-store Cons Download: Free 2. Gameloop (Tencent Gaming Buddy) Gameloop is another way you can experience high-quality Android gaming on Windows PCs. It is a dedicated gaming mulator designed for players who want to play a variety of Android mobile games on desktop PCs. You may be surprised to find that Gameloop - formerly called Tencent Gaming Buddy - has been developed by Tencent as part of the desktop-mobile gaming experiment. Basically, you can only play PUBG on this platform, but now Tencent has brought support for a large list of Android games that include Free Fire and Call of Duty as well. In addition, you can get the Google Play Store by installing a separate module available in the setup. Basically, with Gameloop, you get Play Store support, all the popular Android games with mouse and tastemapping support. So to put it right, if you want an Android emulator for PUBG and other games on Windows 10, Gameloop is a much better proposition. Advantages Best for playing Android games like PUBG Many high-end Android games available Optimized for different graphics standards Cons LDPlayer If you are looking for an Android emulator for Windows 10 that is optimized for games then let me offer you the latest emulator in town, LDPlayer. It's been only a few months since its launch, but LDPlayer has quickly risen to popularity due to its great performance. I installed it on my AMD powered laptop and it worked flawlessly without throwing any errors. That means the emulator will comfortably run on Intel-based Windows PCs as well. For the Android version, LDPlayer runs on Android Nougat (7.1.2) for better performance and compatibility. There is also a dedicated app store for games, and they run pretty well on LDPlayer. To improve performance, you can also take advantage of Virtualization Technology from the Settings page. All in all I would say LDPlayer is an updated Android emulator that offers a simple but powerful Android experience on Windows computers, be it games or just general use. Advantages support both Intel and AMD PCs fast and easy Based on Android 7.1.2 Relatively less bloated Cons Not as feature-rich as BlueStacks Download: Free 4. MEmu Play MEmu Play is another amazing Android emulator on Windows that lately has gained a lot of traction. It's a tough task to mention a single or even a few features considering that the MEmu comes loaded with lots of useful features. One of the most prominent features of the emulator is the fact that it supports both Intel and AMD CPUs which are great from a compatibility point of view. As astounding as it may sound, but it's a feature that isn't available on many Android emulators out there. Apart from that, the emulator comes with the ability to run multiple instances of apps and Android versions at once. Moreover, the software is based on Android Nougat (7.1.2) by default and can also run Kit Kat (4.4), and Lollipop (5.0). It also allows you to have three different windows for all three Android versions. While the emulator has some great optimizations for gameplay, I think it's one of the best Android emulators for general users as well. You can run the emulator on any Windows version from Windows 7 to 10, and it's compatible with both Intel and AMD processors. What else can you ask for? Advantages Multiple versions of Android Excellent Compatibility Performance is very good for games Custom key mapping Disadvantages Not suitable for low-end PCs Download: Free 5. Nox Player If you are someone looking for an Android emulator on Windows that offers tons of features other than just gaming, well then, Nox Player is the perfect choice for you. We have previously reviewed emulator and boy, it comes preloaded with a lot of features. Gameplay optimizations, controller compatibility, ability to change your Android device's build.prop, and a completely user-friendly interface are just some of the things where Nox Player surpasses BlueStacks and other Android emulators on Windows. It is based on Android Lollipop 5.1.1, but can run multiple Android versions Android versions to Nougat using the multi-drive function. But one factor where Nox Player really scores over BlueStacks is the ability to get root access. If you've ever tried to cheer BlueStacks, you'll know it's a boring task. But on Nox Player, you just have to enable a toggle in the settings, and poof! - you're anchored. That's how easy Nox Player is to you and I think it's among the best Android emulators on Windows. That said, remember, the emulator became embroiled in controversy for its move to install bloatware against the user's choice. So it's up to you if you want to try Nox Player or not. Pros packed with features Built-in Root support Tons of customization Several Android versions Cons Install bloatware against the user's choice Download: Free 6. Genymotion If you're an Android developer looking for a way to almost test out Android apps in a Windows environment, Genymotion is one that you should choose. It runs offline through a Windows app and on the cloud through a web browser, so you have great flexibility. In addition, you have many options that you can choose your Android platform from Android 4.1 to the latest Android version. In addition, you can also install the Google Play Store by choosing your choice of GApps package. However, you can't install games like PUBG or Call of Duty, so remember that. Apart from that, the best thing about Genymotion is that you can integrate it with Android Studio on your Windows computer. You can build the app smoothly on your choice of device and platform. So to conclude, if you want to test apps on multiple Android versions in a Windows environment, then go with Genymotion. Advantages Best Android Emulators for Developers Supports the latest Android build Choose your own GApps package Cons Check out Genymotion: (Free for personal use, Desktop plan starts at \$136/year) Comparison Table Android Version Minimum RAM Windows Support AMD Support Gaming Support Price BlueStacks Android 7.1.22GB Windows 7 to 10 Yes Free Gameloop Android 7.1.23GB Windows 7 to 10 Ja Yes Free 7LDPlayer Android 7.1.24GB Windows XP to 10 Ja Yes Free MEmu Play Android 5 to 7.1.22GB Windows XP to 10 Yes Free Nox Player Andro Id 5 to 7.1.21.5GB Windows XP to 10 Ja Yes Free Genymotion Android 4 to 118GB Windows 7 to 10 Ja No Free for personal use: \$136/year Frequently Asked Questions Currently I would say, Gameloop (Tencent Gaming Buddy) is the fastest Android emulator for games. Apart from that, LDPlayer is also quite light and fast. Despite top-notch compatibility, I have not mentioned BlueStacks because it has been bloated with too many features. If you have a higher-end PC then BlueStacks is simply the best Android emulator. Sure, it significantly reduces your computer, but when it comes to feature sets, nothing beats BlueStacks. Apart from that, if games are what you're looking for, then you're better off with Gameloop. It depends on your PC configuration. If you have got a powerful specification (8GB ram, i5 and SSD) BlueStacks are better than Other than that, Nox is pretty good too, but recently it was criticized for its move to automatically install bloatware. I wouldn't really recommend Nox over BlueStacks. There have been reports of Nox installing bloatware such as McAfee and Chromium automatically without user consent. It also installed Segurazo, an anti-malware service that was detected as a virus. After that, Nox withdrew from this move, but for now it's up to you if you want to use the emulator. As I pointed out above, MEmu comes with three different flavors of Android that are bound to be heavy on resources. If you do not want such flexibility, I would recommend LDPlayer. It can run pretty well even on decent machines. Typically, 8GB is recommended to have a seamless experience while playing PUBG on emulators. Higher RAM ensures that the emulator does not freeze due to some background Windows activities. That said, you can certainly play PUBG on an emulator with 4GB of RAM, but don't expect a good experience. Yes, especially when the emulator is running in the background. I would recommend you to manually close the emulator after you finish using it. You exit the application under the notification area. Run Apps with Android Emulators on Windows So this was my list of some of the best Android emulators you can use to run Android apps on your Windows PC. Whether you're a developer who wants to test apps or you're an informal user who wants to play some games, you'll certainly find the best emulator for your needs. If you ask me personally, I'll be torn between BlueStacks and Gameloop. But with so many good options around, it doesn't necessarily have to be the same for you. Which of them is your favorite Android emulator for Windows? Chime in your two cents in the comments below. Below.

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