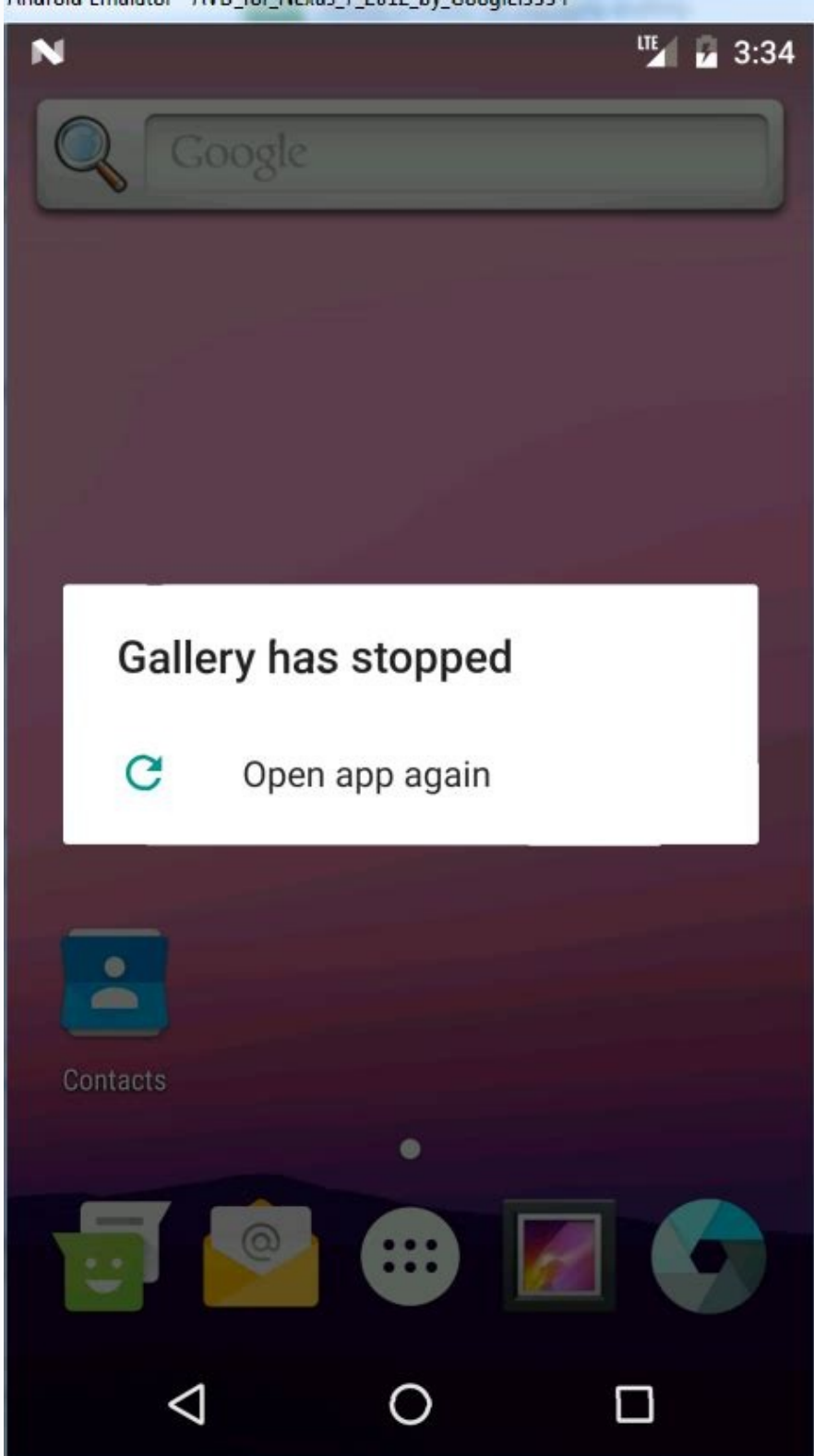
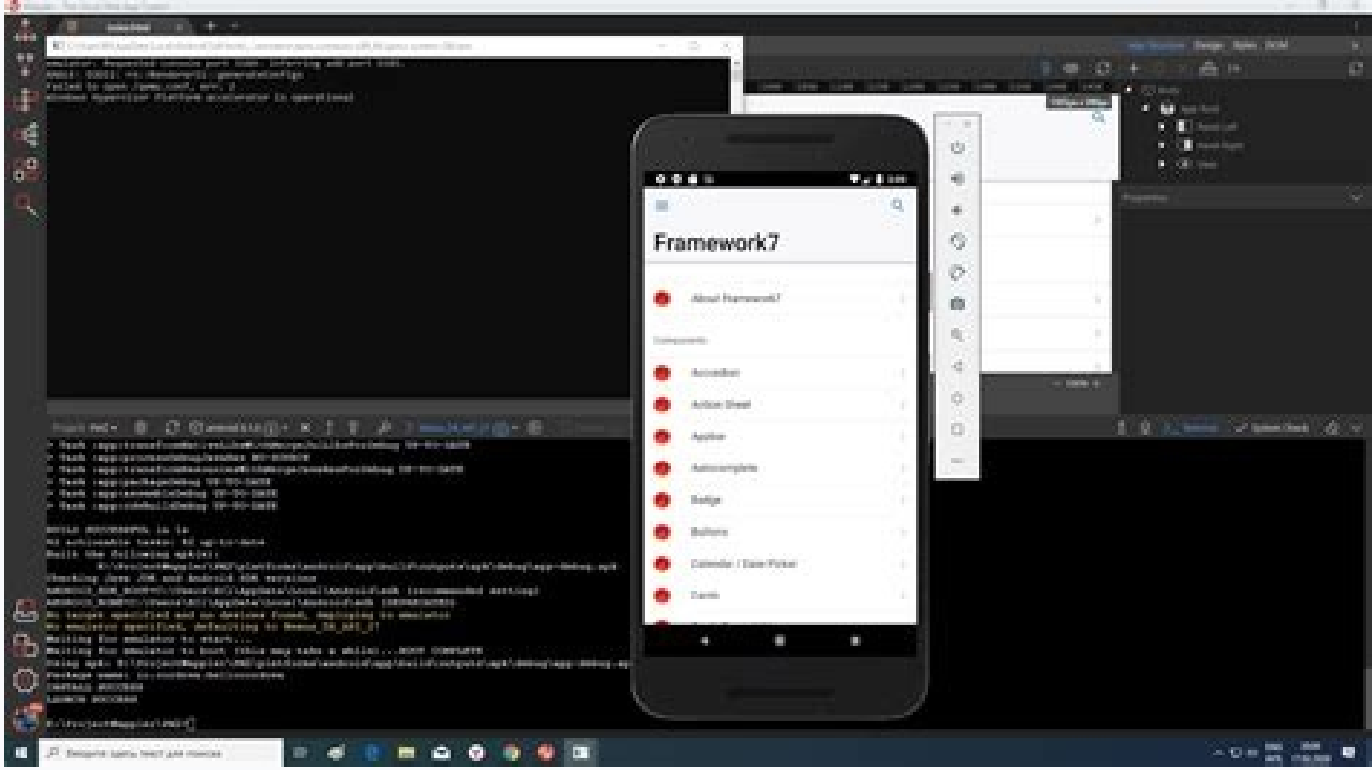


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You can install and run Android apps on your computer with the help of an emulator. We tested all of the best Android emulators for Windows and Mac, including portable Android emulators like Bliss OS, in order to help you choose one that best fits your needs. There are multiple versions of Android. Make sure your emulator can run the appropriate version for the apps you want to use. BlueStacks is one of the most popular Android emulators. It's free, easy to set up, and available for both major operating systems. It's most notable feature is the ability to cast to your TV so that you can play mobile games on a big screen. There are some interface and performance issues, but BlueStack is an overall stable program that allows you to run Android apps smoothly on your computer. Android has an official emulator for Windows that is part of the Android development kit. It includes a few pre-installed apps such as the phone dialer and messaging app. Android Studio is designed for developers to test and debug Android apps, so casual users probably won't need all of the extra tools that come with it. ARChon is a Google Chrome extension that runs Android apps and games in the Chrome browser. Setting it up requires you to enable developer mode on Chrome, and you may have to convert certain apps to get them working, so carefully read the instructions on GitHub before you begin. Bliss is a portable Android emulator, which means that you can carry it around on a USB drive. That way, you can use it on different computers running different operating systems. It's especially useful for developers or anyone who works on multiple devices. VirtualBox is capable of emulating almost any operating system. Since it can emulate any version of Android, you can run just about any app. It's especially ideal for developers who work on various platforms, but it might be overkill if all you want is a simple Android emulator. Thanks for letting us know! Get the Latest Tech News Delivered Every Day Subscribe Tell us why! There are an increasing number of ways to try out Android applications on your Windows desktop or laptop. But of the various methods I've sampled, none combined complete access to Android's basic functions with ease-of-access quite like American Megatrends' AMIDuOS. RELATED: How to Run Android Apps and Games on Your Windows Desktop with BlueStacks Unlike a program like Bluestacks, which is all about getting specific app functionality on the desktop, AMIDuOS is a complete virtual machine of (mostly) stock Android, recreating the interface and experience of a full Android tablet. Combined with a Surface or similar Windows tablet, running AMIDuOS can more or less replicate the look and feel of a full Android tablet, including web access and optional Google apps including the Play Store. It's a much better way to try out Android on high-powered hardware, though Bluestacks does handle individual apps more cohesively on a Windows desktop. Here's how to get started with AMIDuOS. Step One: Download and Install the Program AMIDuOS is commercial software, so it's hosted on the American Megatrends website. For the sake of this guide, we'll try the Pro version of the software, based on Android 5.0—it's free for a month of trial usage, after which it costs \$15, or \$10 for the older "lite" version based on Android 4.0. Make sure you download the software in either 32 or 64-bit, as applies to your version of Windows. The installer is inside a zipped file, so you'll need to extract it using Windows' default tool or your third-party application of choice. Double-click the DuOSInstaller.exe file in the extracted folder to start the installer process. Click "Done" in the window when it finishes. Step Two (Optional): Install Google Apps Once the installer finishes, it should open up a browser tab that gives you instructions on a secondary installation package, Google Apps. This additional installation allows you to use the Google Play Store to download applications directly to the Android virtual machine, among other Google apps like Search and Gmail. Start up the DuOS program—it should be in your Start menu, while it runs in the background. Click the appropriate link for the version of AMIDuOS you downloaded. If you followed the instructions above, it will be the latest version available. Save the ZIP file, right-click it, and select "Apply to DuOS." You'll see a Windows notification that says "Updating DuOS." Wait for the process to finish in the DuOS window. Step Three: Configure the Virtual Machine Press the Start button or key and type "DuOS." Click "DuOS Configuration Tool." This program lets you adjust the various parameters of the Android virtual machine. In particular, you'll find: General: This screen offer the basic controls for the screen size, and manual options to share access to specific files and folders in Windows. Unless you need to use Android in a small-sized window instead of full screen or access specific files from the Android interface, you can ignore most of these options. The Full Screen option will let the Android interface cover the entire screen, with the power and minimize buttons next to the default Android navigation buttons at the bottom of the interface. The Normal Screen option adds a Windows menu button at the top of the screen with close, minimize, and rotate buttons. The Small Screen option is the same, only with a scaled window. Advanced: this screen allows the user to expand the amount of RAM shared with the Android VM. I recommend at least 2GB (2000 MB), assuming you can spare it from the rest of your system—you shouldn't use more than half of your system's memory for the virtual machine. The Moderate Resolution allows you to let Windows instead of the VM set the visual scaling, and "Manual DPI" lets you adjust the virtual size of the VM's screen. "FPS" will show a frames per second count in the window. "Simulated Network" lets the VM use your main computer's Internet connection—you'll generally want to leave it enabled. Devices: This page allows the VM to access the Camera, Gamepad, GPS, and Serial Port of your main PC (if it has them). Note the "camera swap" option on the first tab: it can swap the front and rear camera inputs on tablets like the Surface. Logs: This option lets you access the logs from Android's system. Properties: Allows the user to change the name and IMEI of the virtual device, which can be handy for services that detect them, like the Play Store. Click Apply when you're done. Step Four: Start Using DuOS From here, you can start the program just like any other. If you've installed Google Apps in Step Two, you'll start with a setup process including logging into your Google account. Just follow the on-screen instructions. At any time, you can click the minimize button or press Alt+Tab on your keyboard to get back to Windows. Most Android apps should run fine in the AMIDuOS interface, though hardware-intensive applications will be sluggish. It's a great way to try out apps in a larger interface. You no longer need a dedicated Android phone or tablet to experience the 1.4 million apps available in Google Play. Android emulators make it easy to run Google's mobile OS side by side with Windows, so you can always access your favorite mobile messaging apps, games and more on the PCs you already own — and take advantage of your larger monitor, hardware keyboard and other peripherals. Here are the best ways to run Android on your computer.Emulators are programs that basically mimic or act like the hardware and operating system of other machines. When you install an emulator, you get a virtual console in which you can install other apps and play around with the system. Whether you want to check out Android before you buy a device, develop and test your own Android apps, expand Windows' paltry app selection, or sync apps between your Android phone or tablet and your PC, you have a number of utilities to choose from.AMIDuOSOf all the Android emulators we tested, AMIDuOS performed the best. On AnTuTu benchmarks, AMIDuOS scored 45,611, compared to BlueStacks' score of 28,311 and Andy's showing of 31,299. AMIDuOS pulls off this impressive performance by running Android apps natively on your computer's x86 processor whenever possible, rather than emulating Android devices' less powerful ARM processors. AMIDuOS ran the performance-demanding Google Earth smoothly (and was able to find my location), detected and followed my "OK, Google" Google Now voice commands, and even allowed for copying and pasting text between Android and Windows.The fast performance comes at a price — \$10 for a lifetime license per computer (after a 30-day trial) and, like other emulators, high memory and CPU usage. The more memory and processing power your computer has, the better.For the money, though, AMIDuOS offers excellent performance and features, such as the ability to emulate a rooted Android device (so you can try apps and settings that you might not attempt with your \$500 phone or tablet). Soon, it will also run Android 5.0 Lollipop.Best for: People who want to run graphics-intensive or otherwise demanding Android apps, have enough system resources to run the virtual machine and/or want to try Android in root mode.Read AMIDuOS ReviewAndyAndy provides the full Android (4.2.2 KitKat) experience in either full-screen or windowed mode. You can basically do anything in Andy that you could on an Android tablet or phone, including adding widgets to your home screen, backing up your virtual device to Google and receiving app notifications. The latter comes in handy, because instead of leaving a browser tab open for Facebook or Gmail or needing your phone for messaging apps like Snapchat, you can just get the notifications in Andy.The program offers many ways for Android to interact with your PC (with either x86 processors or ARM processors) and even your phone. You can use your Android phone as a controller for Andy on your desktop (helpful when playing games that require tilting or tapping, if your computer doesn't support these). Android apps can be launched from your Windows desktop, and you can copy files between Android and Windows through a shared folder.Andy is also attractively 100 percent free, although its parent company is an alleged adware distributor (a fact that might give some people pause). The program also ran disturbingly slow on my two-year-old laptop, so a newer computer with at least 4GB of RAM, if not more, is recommended if you want to run Android apps with Andy.Best for: Those who don't have a touch-screen PC and who want to use their Android device as a game controller, have enough system resources to run the virtual machine, have a laptop with an ARM processor, want to run Andy on both Windows and Mac, and/or want to run Android in a flexible, resizable window (the other programs reviewed here only offer a fixed-size window).Read Andy ReviewBlueStacksBlueStacks App Player was one of the first Android emulators. Rather than virtualize the full Android OS, the program lets you install and run individual Android apps on your PC, either in full-screen or windowed mode. According to the company, the system is compatible with 96 percent of the apps available in Google Play and 86 percent of Android games.While you can search for any Android app to install on your PC using BlueStacks, it is particularly focused on games, as its home page filled with suggested games by category reveals. If you have a touch-screen computer, you can interact with Android apps just like you would on an Android phone or tablet: by tapping, swiping and tilting away.Unfortunately, although BlueStacks runs many games quite well, I found the program to be buggy and the user interface inflexible. However, it is a free program that doesn't take up a lot of resources (it requires just 2GB of RAM) — as long as you're willing to occasionally install BlueStacks' recommended apps. Otherwise, the program costs \$2 a month to keep playing.Best for: people who don't need the entire Android OS, want a free solution (and are OK with installing random apps) and just want to play Android games, particularly on a resource-limited computer.Read BlueStacks ReviewOther Ways to Run Android in WindowsBlueStacks, Andy and AMIDuOS aren't the only Android emulators in town.YouWave is another option, but it costs a comparably hefty \$19.99 and runs only the older Android 4.0.4 Ice Cream Sandwich.Genyotion, on the other hand, is free, and, like AMIDuOS, takes advantage of your computer's x86 architecture for better performance. It runs on Windows, Mac and Linux. You can choose a specific device to emulate — a Google Nexus 9 running the latest version of Android (5.10), for example, or another Android tablet or phone — and create multiple virtual machines. While Genyotion perfectly emulates the full Android environment, however, it's a tool meant more for Android developers. It doesn't include Google Play, so you can't install apps from there without work-arounds. And in my tests, I found bugs such as not being able to pinch to zoom in Google Maps. If you're willing to go through the steps to install Google Play, however, Genyotion runs most apps smoothly, including those using 3D graphics, but performance isn't as strong as with AMIDuOS.The official Android SDK includes a mobile device emulator. Like Genyotion, it's meant primarily for developers to test their own Android apps on their computers. While it's possible to use the Android emulator in the Android SDK to try out apps you want to run, the emulator is notoriously slow — perhaps impossibly slow, even.You can create your own Android emulator in Windows using VirtualBox and Android x86, but that's essentially like installing Andy or AMIDuOS, with more work involved and fewer user-interface controls.In short, for a completely free option, you'll probably want to try either Andy or Genyotion. AMIDuOS, however, is a worthwhile \$10 investment if you see yourself regularly using Android apps on your computer (and you can try it free for 30 days to see if it works for you).AMIDuOS ReviewedAndy Android Emulator TestedBlueStacks Evaluated

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