

## Android run service in background thread

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The frustrating problem with any smartphone is the battery that drains faster than you expect. Having recharged for a day after a full charge at night is always a sad feeling. Maybe you've also noticed your device slowing down, too. Problems often have the same cause. Background apps can use your battery and resources. Some applications may not be very well optimized, some may be malware, or some may just have an error. Don't be afraid! Turning off these rogue background apps just takes a bit of know-how. Some of these step-by-step guides will be very familiar if you are a power user, but we hope there is much to learn for everyone. Either way, the first step is to identify any problems and stop these unwanted background applications. The latest version of Android has great power management features that place restrictions on background apps and therefore extend your phone's battery life. One is called Adaptive Battery, which uses machine learning to figure out which apps you'll be using in the next few hours and which ones you won't use later, if at all today. Based on usage patterns, it places each app in one of the app's five backup buckets: Active, Working Set, Frequent, Rare, and Never. Each of these buckets has its limitations on the amount of resources it contains can use. Simply put, the app placed in the Never bucket is almost never used, so the system will restrict access to resources such as the processor. This means that it will use a smaller battery. On the other hand, apps in buckets, such as Active, are the ones you use the most and get full access to the system's resources, so you can expect to get all your notifications on time. The process is automatic and dynamic, which means that the system learns the usage pattern over time and moves applications from one bucket to another accordingly. Check out what drains your battery: Because battery life is so important, it's well controlled by your Android OS. To take a look at power-absorbing apps, just go to the battery settings of the battery. You'll get a list of exact two decimal points of what drains your battery. Depending on your device and software, apps will be divided into system or non-system applications, or hardware and software, for example, with this Huawei phone: The more you use certain apps, the higher they will sit on the list. Look for any apps you don't recognize using more than a tiny percentage of your battery. Any app more than a few percent worth looking into - saving five percent here or four percent there will add up. All that google app or service probably has nothing to worry about and just a natural part of using Android and Google Mobile Services. RAM: Using developer options, you can also check which apps dominate the phone's limited memory, or RAM. It is possible that the app does not Plenty of battery life, but when you're only running with 2GB of RAM and the app you don't use takes up a few hundred MB, which leaves you short on free memory. You can check it out in a few different ways, but here's a sure-looking winner who works in Android Pie, Oreo, and below: Go to the settings of the zgt; system qgt; about the phone. Scroll down and find the build number, then tap it seven times. This will allow the developer's settings on your device and you will see a notification that this has happened. Now go back to the system and you'll be able to choose developer options from there. Then go to the Settings of the developer's processes (or the settings of the system's zgt; the parameters of the start-up service.) Here you can view what processes work, use and available RAM, and which applications are using it. Again, some of these services are essential to keep your phone running. You should first of all be looking for demanding apps that you have downloaded personally. If this method doesn't work to unlock developer settings, just do a Google search of your phone model and developer options unlock. Stop the app, kill it or delete you can manage these processes in a number of ways. Find the app in Developer Options and stop it once you've identified an app that drains the battery or devours free RAM, there are several ways to stop it dead, and then consider limiting it or scattering it. The first one includes the developer's options for the service method that we described above. Notice how Messenger uses RAM through three separate services. Clicking on any app and clicking Stop will stop it from running and free up RAM. Be careful if you stop any important service just through testing or by mistake, you can smash the phone. It just needs a reboot, but it's a bit of a pain. Find the app, Force Stop/UninstallOnce you have identified your apps, it may be worth checking out all the apps you have installed and giving them once. Go to the app settings and notifications of the apps.You'll see your apps downloaded in alphabetical order, and from here you can click on any app and decide on the power to stop or delete it. As before, Force Stop can cause an accident, but you'll be fine after the restart. Limiting problem appsIf you want to continue using an app that appears to have high demand, you can limit what it can do. Some Samsung and Huawei phones include OS options for app management. In battery settings, Huawei offers the Launch Of Apps option, which identify specific applications, limit launches, and install energy-saving measures. Samsung also offers an energy-saving option to help manage apps. If you don't have access to a patented built-in option, there are certainly good apps to help. A perennial favorite is Greenify, which offers excellent control over applications and puts them in If you have a rooted phone, you'll have even more control, but it works well with standard devices too. One problem with apps like this is intentionally introducing another app to monitor your device. In our popular post titled 13 tricks and hacks to speed up Android, our very own Adam Sinicki noted that while background apps can kill the battery, the background killer app can slow you down as well: Downloading an app from nothing takes longer and uses more battery than switching to one that's suspended. If you open an app that requires more memory, Android will automatically kill the least important ones to make room. Killer tasks can actually end up slowing your device down. What's next? Android is just around the corner and we expect that Google will continue to upgrade android's ability to undo any apps that make your life harder. The first developer preview has already been released, but it doesn't show any new energy saving methods. We'll probably hear more about this as soon as Google officially

