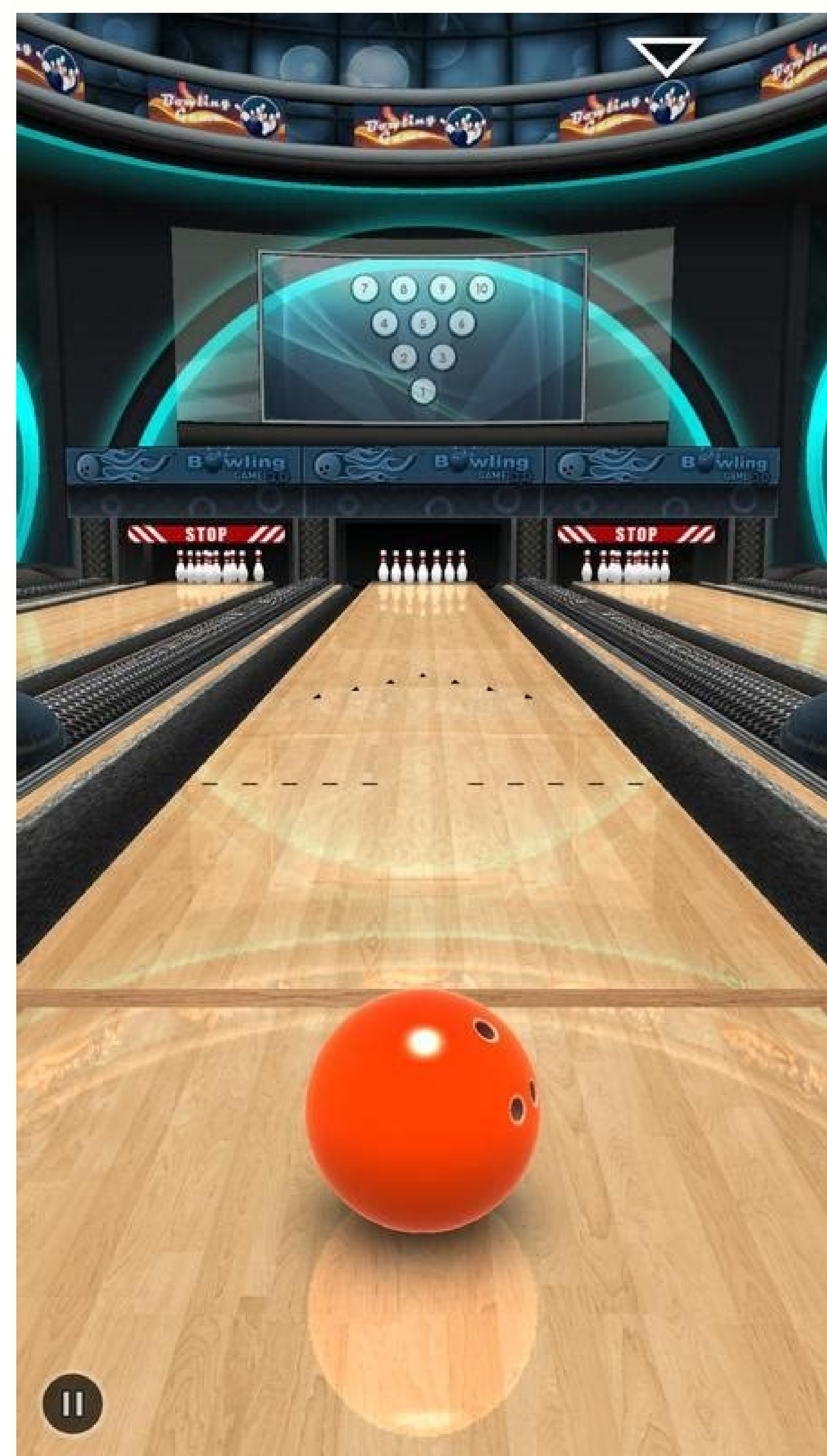


Upgrade android emulator

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To develop an app using Google Play services APIs, follow the instructions on this page to set up your project with the relevant SDKs, which are available from the Google maven repository. To test your app when using Google Play services, you must use one of the following: A compatible Android device that runs Android 4.4 (API level 19) or higher and has the Google Play Store app installed. The Android emulator with an AVD that runs the Google APIs platform based on Android 4.4 (API level 19) or higher. Declare dependencies for Google Play services To develop features that depend on the Google Play services APIs in your app, complete the following steps: The following snippet shows an example build.gradle file that uses the location library: apply plugin: 'com.android.application' ... dependencies { implementation 'com.google.android.gms:play-services-location:20.0.0' } New versions of the Google Play services SDKs with bug fixes and new features are periodically released. These updates are announced in the release notes. If your app uses a dependency that has been updated, change to the latest version in your app's dependencies to take advantage of these fixes. Note: To preserve the required classes, the Google Play services SDKs each include directives that instruct R8 on how to optimize your app. Check whether Google Play services is installed As described in the Google Play services overview, Google Play services receives automatic updates on Android 4.4 (API level 19) and higher through the Google Play Store app. However, Android devices without Google Play Store don't have Google Play services installed. If your app runs on devices without Google Play services, you might want to check to see if Google Play services is installed on the device before you attempt to use Google APIs, or enable features in your app that require Google Play services to function. To check for the presence of Google Play services on the device, use the isGooglePlayServicesAvailable() method. To then begin a connection to Google Play services, or learn how to detect whether the version of Google Play services installed supports a specific API, read the guide on Accessing Google APIs. Google Play services dependencies The following table lists the dependencies for Google Play services that you can include in your Android app. You can filter the list by device type by selecting one of the buttons, and you can search for a specific use case or dependency name by entering text into the box that appears after the buttons. Table 1. Google Play services dependencies to include in Android apps Use case and dependency name Supported devices Google Mobile Ads com.google.android.gms:play-services-ads:21.2.0 Phone, Tablet Android Advertising ID (AAID) com.google.android.gms:play-services-ads-identifier:18.0.1 Phone, Tablet, Android TV, Chrome OS Lightweight version of Google Mobile Ads com.google.android.gms:play-services-ads-lite:21.2.0 Phone, Tablet AdSense for Search (AFS) Custom Search Ads (CSA) com.google.android.gms:play-services-afs-native:19.0.3 Phone, Tablet, Chrome OS Google Analytics Services SDK for Android com.google.android.gms:play-services-analytics:18.0.2 Deprecated. Use Google Analytics for Firebase instead. App Index com.google.android.gms:play-services-appindex:16.1.0 Phone, Tablet, Android TV Android App Set ID com.google.android.gms:play-services-appset:16.0.2 Phone, Tablet, Android TV, Chrome OS Google Sign-In for Android com.google.android.gms:play-services-auth:20.3.0 Phone, Tablet, Android TV, Auto, Android Go, Chrome OS SMS Retriever API com.google.android.gms:play-services-auth-api-phone:18.0.1 Phone, Tablet, Android Go Block Store API (includes user credential storage) com.google.android.gms:play-services-auth-blockstore:16.1.0 Phone, Tablet, Android Go, Chrome OS Google Awareness API com.google.android.gms:play-services-awareness:19.0.1 Phone, Tablet, Auto, Android Go, Chrome OS Utility classes com.google.android.gms:play-services-base:18.1.0 Phone, Tablet, Android TV, Auto, Android Go, Chrome OS, Wear OS Testing fakes for utility classes com.google.android.gms:play-services-base-testing:16.0.0 Phone, Tablet, Android TV, Auto, Android Go, Chrome OS Wear OS More utility classes com.google.android.gms:play-services-basement:18.1.0 Phone, Tablet, Android TV, Auto, Android Go, Chrome OS Wear OS Google Cast com.google.android.gms:play-services-cast:21.1.0 Phone, Tablet, Android Go, Chrome OS Google Cast Application Framework (CAF) com.google.android.gms:play-services-cast-framework:21.1.0 Phone, Tablet, Android Go, Chrome OS Google Code Scanner com.google.android.gms:play-services-code-scanner:16.0.0-beta3 Phone, Tablet, Android Go, Chrome OS Chromium network stack (Cronet) com.google.android.gms:play-services-cronet:18.0.1 Phone, Tablet, Android TV, Auto, Android Go, Chrome OS, Wear OS Device-to-device interactions (DDI) com.google.android.gms:play-services-ddi:16.0.0-beta01 Phone, Tablet, Android Go Fast Identity Online (FIDO) Authentication com.google.android.gms:play-services-fido:19.0.0-beta Phone, Tablet, Android TV, Auto, Android Go, Chrome OS, Wear OS Google Play Games Services v2 for Android com.google.android.gms:play-services-games-v2:17.0.0 Phone, Tablet, Android TV, Android Go, Chrome OS Google Play Games Services v1 for Android com.google.android.gms:play-services-games:22.0.1 Phone, Tablet, Android TV, Android Go, Chrome OS Matter API com.google.android.gms:play-services-home:16.0.0-beta1 Phone, Tablet Google Play Instant com.google.android.gms:play-services-instantapps:18.0.1 Phone, Tablet, Android TV, Android Go, Chrome OSSupported on devices that run Android 5.0 (API level 21) or higher. Fused Location Provider for Android (includes activity recognition and geofencing) com.google.android.gms:play-services-location:20.0.0 Phone, Tablet, Android TV, Auto, Android Go, Chrome OS, Wear OS Google Maps SDK for Android com.google.android.gms:play-services-maps:18.1.0 Phone, Tablet, Android TV, Auto, Android Go, Chrome OS, Wear OS ML Kit barcode scanning com.google.android.gms:play-services-mkit-barcode-scanning:18.1.0 Phone, Tablet, Android Go, Chrome OS ML Kit face detection com.google.android.gms:play-services-mkit-face-detection:17.1.0 Phone, Tablet, Android Go, Chrome OS ML Kit image labeling com.google.android.gms:play-services-mkit-image-labeling:16.0.8 Phone, Tablet, Android Go, Chrome OS ML Kit image labeling custom com.google.android.gms:play-services-mkit-image-labeling-custom:16.0.0-beta4 Phone, Tablet, Android Go, Chrome OS ML Kit language identification com.google.android.gms:play-services-mkit-language-id:17.0.0 Phone, Tablet, Android Go, Chrome OS ML Kit text recognition com.google.android.gms:play-services-mkit-text-recognition:18.0.1 Phone, Tablet, Android Go, Chrome OS Nearby device discovery and connection com.google.android.gms:play-services-nearby:18.3.0 Phone, Tablet, Android TV, Auto, Android Go Show open-source licenses com.google.android.gms:play-services-oss-licenses:17.0.0 Phone, Tablet, Android TV, Auto, Android Go, Chrome OSSupported on devices that run Android 5.0 (API level 21) or higher. Screen lock quality check com.google.android.gms:play-services-password-complexity:18.0.1 Phone, Tablet, Android Go, Chrome OS, Wear OSSupported on devices that run Android 4.4 (API level 19) to Android 9 (API level 28). Google Pay for Passes com.google.android.gms:play-services-pay:16.0.3 Phone, Tablet, Android Go, Chrome OSSupported on devices that run Android 5.0 (API level 20) or higher. reCAPTCHA Enterprise for app instrumentation com.google.android.gms:play-services-recaptcha:17.0.1 Phone, Tablet, Android TV, Android Go, Chrome OS SafetyNet APIs (includes device attestation, safe browsing, reCAPTCHA, and app verification) com.google.android.gms:play-services-safetynet:18.0.1 Phone, Tablet, Android TV, Auto, Android Go, Chrome OS Google Tag Manager com.google.android.gms:play-services-tagmanager:18.0.2 Phone, Tablet, Android TV, Android Go, Chrome OS Tasks API on Android com.google.android.gms:play-services-tasks:18.0.2 Phone, Tablet, Android TV, Auto, Android Go, Chrome OS, Wear OS TensorFlow Lite GPU Delegate API for Google Play services com.google.android.gms:play-services-tf-lite-gpu:16.0.0 Phone, Tablet, Android Go, Chrome OS TensorFlow Lite Java API for Google Play services com.google.android.gms:play-services-tf-lite-java:16.0.0 Phone, Tablet, Android Go, Chrome OS TensorFlow Lite Support API for Google Play services com.google.android.gms:play-services-tf-lite-support:16.0.0 Phone, Tablet, Android Go, Chrome OS Thread Network API com.google.android.gms:play-services-threadnetwork:16.0.0-beta01 Phone, Tablet Mobile Vision com.google.android.gms:play-services-vision:20.1.3 Phone, Tablet, Android Go, Chrome OS Google Pay for Payments on Android com.google.android.gms:play-services-wallet:19.1.0 Phone, Tablet, Auto, Android Go, Chrome OS, Wear OS Wearable Data Layer API com.google.android.gms:play-services-wearable:17.1.0 Phone, Tablet, Wear OS Google Play services also includes several Gradle plugins, as shown in the following table. Note that the buttons that appear before the previous table don't change the information that appears in this table. Table 2. List of Gradle plugins included in Google Play services Use case and Gradle plugin name Supported devices Show open-source licenses com.google.android.gms:oss-licenses-plugin:0.10.5 Phone, Tablet, Chrome OS Strict version checking com.google.android.gms:strict-version-matcher-plugin:1.2.4 Phone, Tablet, Android TV, Auto, Android Go, Chrome OS, Wear OS After recently upgrading Android Studio to 4.1.3, I ran into an issue when trying to launch an Android Virtual Device. The error message read: AVD Manager — The emulator process for AVD Pixel 2 API 29 was killed.The AVD had worked perfectly fine while testing a React Native project a day earlier, so I knew that the upgrade was most likely the reason for the error. In this post I'll go through the steps I took to troubleshoot the problem, and provide the solution that I found which involves downgrading Android Emulator back to a previous version.TroubleshootingThe first thing I tried was to create a new AVD using the same settings as the previous one that worked the day before. I tried this using API 29 and 30 to see if it maybe related to the API version, but this didn't fix the error.After searching for solutions on Stack Overflow and other forums, I came across a post that recommended setting the graphics mode to software instead of automatic/hardware. While this seems to work for some people, it didn't work for me.Another user had explained that uninstalling and then reinstalling Intel x86 Emulator Accelerator (HAXM installer) in the SDK Tools menu had resolved their issue, but unfortunately this didn't work for me either.Getting closer to a solution...The final debugging step I took was to try and manually start the emulator from the command line. I used this command list the names of each AVD and make sure the emulator had access to them in the first place.Once I got the returned list of emulators, I tried running one them.This gave me a new error which was a bit more descriptive at least. It read:After some more searching using this new error, I found a post explaining that Apple had introduced IOUSBHost in macOS 10.15 and it looked like the best fix was simply to downgrade to an older version of Android Emulator which does not require this framework, at least until I can upgrade my OS.After a lot of hunting for ways to downgrade, I came across this post which explained the downgrading process. It was difficult to find the right url for the legacy version of android emulator I was trying to install, but after some searching I found the URL for the previous stable release 3.4.5.I've outlined the steps to download and downgrade Android Emulator below.The SolutionYou'll find the URL for Android Emulator 3.4.5 here: this file is downloaded, unzip it and you should see the following contents.The location of the emulator folder currently installed on your machine should be at:However you can type the following into your terminal to double check where yours might be installed:The next step is to replace the files of the currently installed emulator folder with the files from the downloaded emulator folder. I recommend making a backup of the currently installed emulator just in case you need to quickly revert your changes.I did this with a simple copy and paste, where I was able to overwrite any files that matched by name. This is important because you will actually want to leave the package.xml file in place in the currently installed emulator folder. This file will essentially trick Android Studio into thinking you have the latest version installed.If you don't leave this file in place, you won't be able to launch your AVD using the Android Studio UI, instead it will try and automatically upgrade you to the same version that is causing the error in the first place. However you can technically still launch an AVD without the package.xml file being present by using the command line to run your emulator, but that isn't ideal.Once you've done this, you should be able to successfully launch your AVD again! If you check the SDK Tools menu in Android Studio at this point it will still think you have the latest version of Android Emulator installed though, in my case it was 3.5.3. To avoid this being an issue I was able to edit the revision tag on line 141 of the package.xml file to read:This error was a pain to figure out but I hope that these steps can help anyone who is having similar issues. If anyone has found another fix let me know!

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