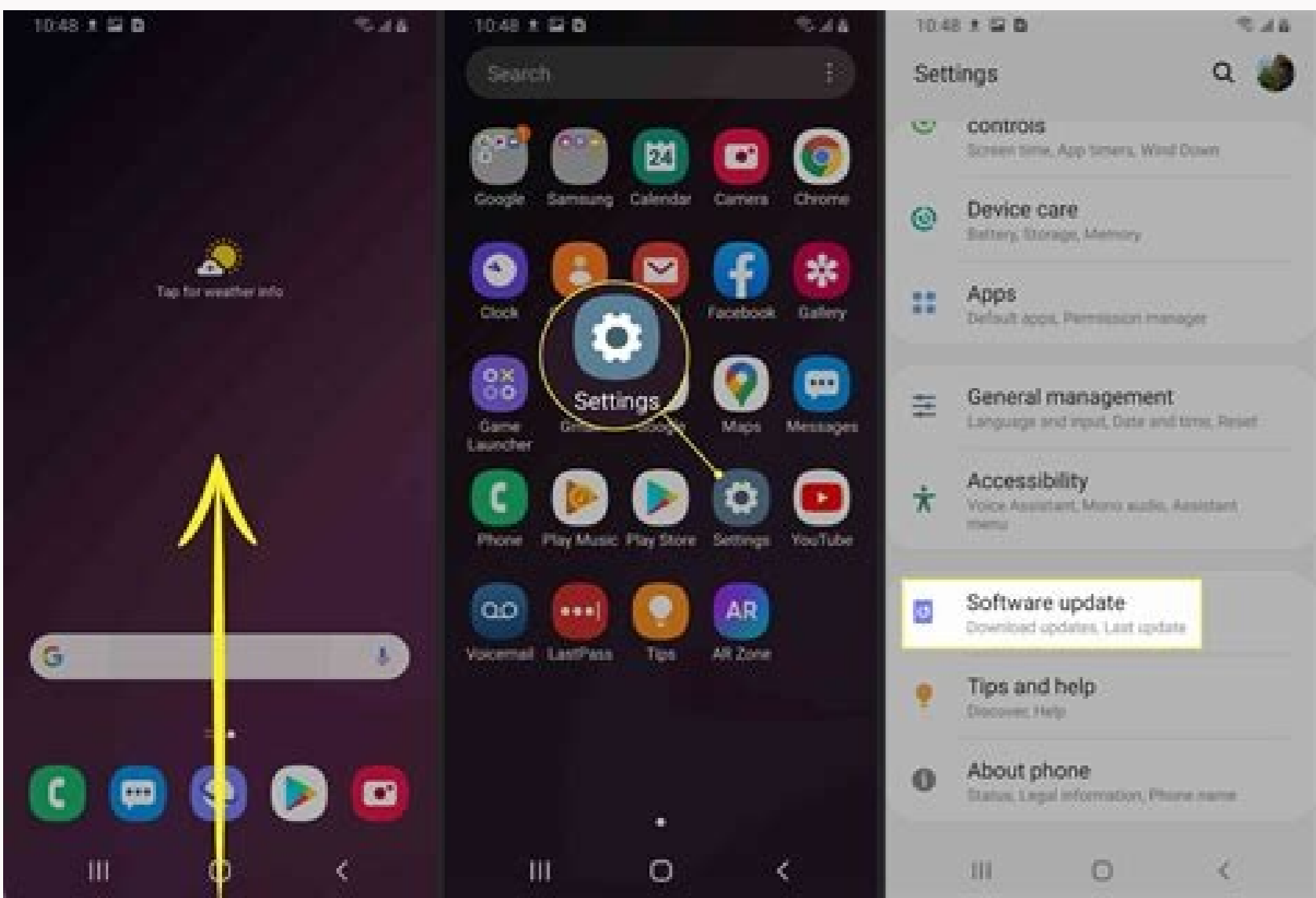
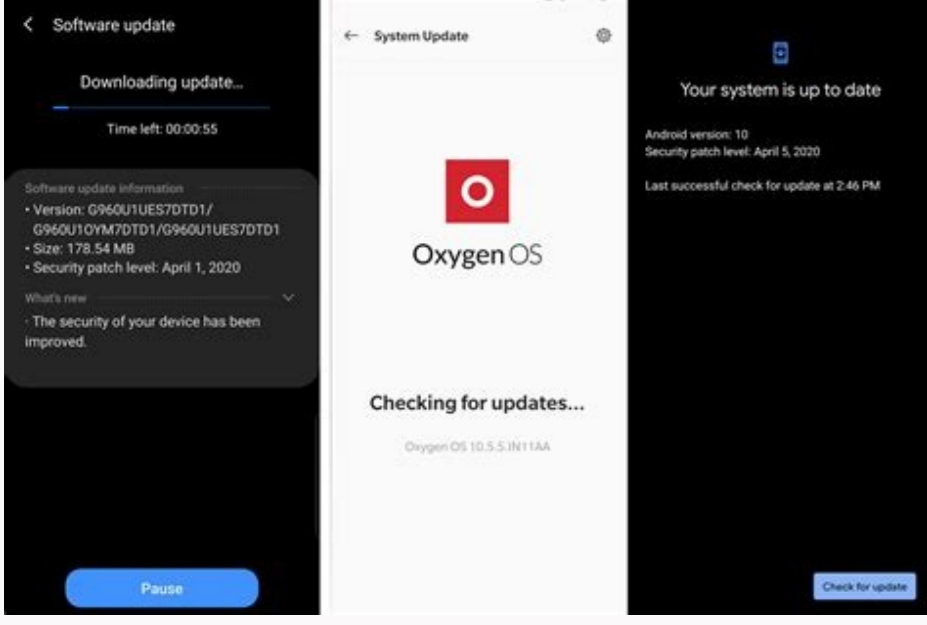
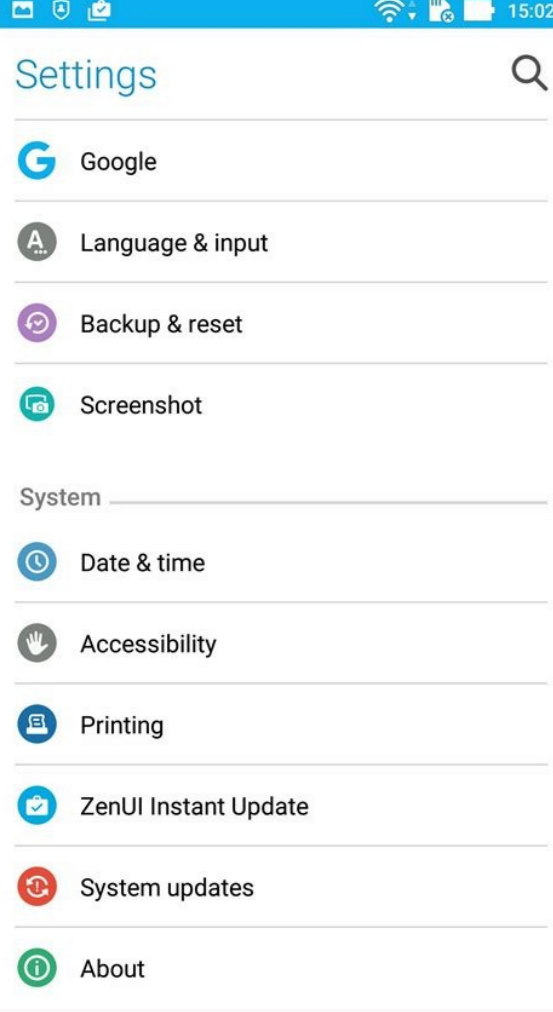


## How to check app version on android

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How to find the app version on android. How to check software version on android.

Home How to How to check your software version on Android Trusted Reviews is supported by its audience. If you purchase through links on our site, we may earn a commission. Learn more. By Peter Phelps July 29, 2022 4:16 pm BST If you're curious to know which iteration of Android is running on your phone, then just follow our simple guide to find out. There are many reasons why you might like to know which version of Android is on your smartphone, from compatibility issues to just making sure that your device is fully up to date. Luckily it's not difficult to find out this crucial information, and our guide will show you how to do it in a matter of minutes. What we used We used the Samsung Galaxy S22, but you can use any Android smartphone The Short Version Open the Settings app Scroll down to About Phone Tap on Software Information Look at Android Version How to check your software version on Android First of all, open up your phone's Settings app. This is the one with an icon like a mechanical cog. Once you're in the app, scroll down to the bottom where you'll see an option named About Phone. Tap on this. This step isn't necessary on all phones, many of which will have the Android version listed in the About Phone menu. However, in the case of the Samsung Galaxy S22 you'll have to tap on the option listed as Software Information. Here, you'll find the version of Android running on your phone by looking at Android Version on the list. How can I update the version of Android software that's running on my phone? This depends from phone to phone, but in the Settings app you may be able to tap the Android Version option or else tap a button which reads Software Update, which prompts your phone to search for eligible upgrades and gives you the choice to install them. What is the latest version of Android? As of July 2022 the latest full version of Android is Android 12, but Android 13 is set to be released shortly and will be available on compatible devices. Versioning is a critical component of your app upgrade and maintenance strategy. Versioning is important because: Users need to have specific information about the app version that is installed on their devices and the upgrade versions available for installation. Other apps — including other apps that you publish as a suite — need to query the system for your app's version, to determine compatibility and identify dependencies. Services through which you will publish your app(s) may also need to query your app for its version, so that they can display the version to users. A publishing service may also need to check the app version to determine compatibility and establish upgrade/downgrade relationships. The Android system uses your app's version information to protect against downgrades. The system does not use app version information to enforce restrictions on upgrades or compatibility of third-party apps. Your app must enforce any version restrictions and should tell users about them. The Android system does enforce system version compatibility as expressed by the minSdkVersion setting in the build files. This setting allows an app to specify the minimum system API with which it is compatible. For more information see Specifying Minimum System API Version. Set application version information To define the version information for your app, set values for the version settings in the Gradle build files. These values are then merged into your app's manifest file during the build process. Note: If your app defines the app version directly in the element, the version values in the Gradle build file will override the settings in the manifest. Additionally, defining these settings in the Gradle build files allows you to specify different values for different versions of your app. For greater flexibility and to avoid potential overwriting when the manifest is merged, you should remove these attributes from the element and define your version settings in the Gradle build files instead. Two settings are available, and you should always define values for both of them: versionCode — A positive integer used as an internal version number. This number is used only to determine whether one version is more recent than another, with higher numbers indicating more recent versions. This is not the version number shown to users; that number is set by the versionName setting, below. The Android system uses the versionCode value to protect against downgrades by preventing users from installing an APK with a lower versionCode than the version currently installed on their device. The value is a positive integer so that other apps can programmatically evaluate it, for example to check an upgrade or downgrade relationship. You can set the value to any positive integer you want, however you should make sure that each successive release of your app uses a greater value. You cannot upload an APK to the Play Store with a versionCode you have already used for a previous version. Note: In some specific situations, you might wish to upload a version of your app with a lower versionCode than the most recent version. For example, if you are publishing multiple APKs, you might have pre-set versionCode ranges for specific APKs. For more about assigning versionCode values for multiple APKs, see Multiple APK Support. Typically, you would release the first version of your app with versionCode set to 1, then monotonically increase the value with each release, regardless of whether the release constitutes a major or minor release. This means that the versionCode value does not necessarily have a strong resemblance to the app release version that is visible to the user (see versionName, below). Apps and publishing services should not display this version value to users. Warning: The greatest value Google Play allows for versionCode is 2100000000. versionName — A string used as the version number shown to users. This setting can be specified as a raw string or as a reference to a string resource. The value is a string so that you can describe the app version as a .. string, or as any other type of absolute or relative version identifier. The versionName has no purpose other than to be displayed to users. You can define default values for these settings by including them in the defaultConfig {} block, nested inside the android {} block of your module's build.gradle file. You can then override these default values for different versions of your app by defining separate values for individual build types or product flavors. The following build.gradle file shows the versionCode and versionName settings in the defaultConfig {} block, as well as the productFlavors {} block, android {} .. defaultConfig { .. versionCode 2 versionName "1.1" } productFlavors { demo { .. versionName "1.1-demo" } full { .. } } } android { .. defaultConfig { .. versionCode = 2 versionName = "1.1" } productFlavors { create("demo") { .. versionName = "1.1-demo" } create("full") { .. } } } In the defaultConfig {} block of this example, the versionCode value indicates that the current APK contains the second release of the app, and the versionName string specifies that it will appear to users as version 1.1. This build.gradle file also defines two product flavors, "demo" and "full." Since the "demo" product flavor defines versionName as "1.1-demo", the "demo" build uses this versionName instead of the default value. The "full" product flavor block does not define versionName, so it uses the default value of "1.1". The Android framework provides an API to let you query the system for version information about your app. To obtain version information, use the getPackageInfo(java.lang.String, int) method of PackageManager. Specify API level requirements If your app requires a specific minimum version of the Android platform, you can specify that version requirement as API level settings in the app's build.gradle file. During the build process, these settings are merged into your app's manifest file. Specifying API level requirements ensures that your app can only be installed on devices that are running a compatible version of the Android platform. Note: If you specify API level requirements directly in your app's manifest file, the corresponding settings in the build files will override the settings in the manifest file. Additionally, defining these settings in the Gradle build files allows you to specify different values for different versions of your app. For greater flexibility and to avoid potential overwriting when the manifest is merged, you should remove these attributes from the element and define your API level settings in the Gradle build files instead. There are two API level settings available: minSdkVersion — The minimum version of the Android platform on which the app will run, specified by the platform's API level identifier. targetSdkVersion — Specifies the API level on which the app is designed to run. In some cases, this allows the app to use manifest elements or behaviors defined in the target API level, rather than being restricted to using only those defined for the minimum API level. To specify default API level requirements in a build.gradle file, add one or more of the settings above to the defaultConfig {} block, nested inside the android {} block. You can also override these default values for different versions of your app by adding the settings to build types or product flavors. The following build.gradle file specifies default minSdkVersion and targetSdkVersion settings in the defaultConfig {} block and overrides minSdkVersion for one product flavor: android { .. defaultConfig { .. minSdkVersion 14 targetSdkVersion 24 } productFlavors { main { .. } afterLollipop { .. minSdkVersion 21 } } } android { .. defaultConfig { .. minSdkVersion(14) targetSdkVersion(24) } productFlavors { create("main") { .. } create("afterLollipop") { .. minSdkVersion(21) } } } When preparing to install your app, the system checks the value of these settings and compares them to the system version. If the minSdkVersion value is greater than the system version, the system prevents the installation of the app. If you do not specify these settings, the system assumes that your app is compatible with all platform versions. For more information, see the manifest element documentation and the API Levels document. For Gradle build settings, see Configure Build Variants.

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