
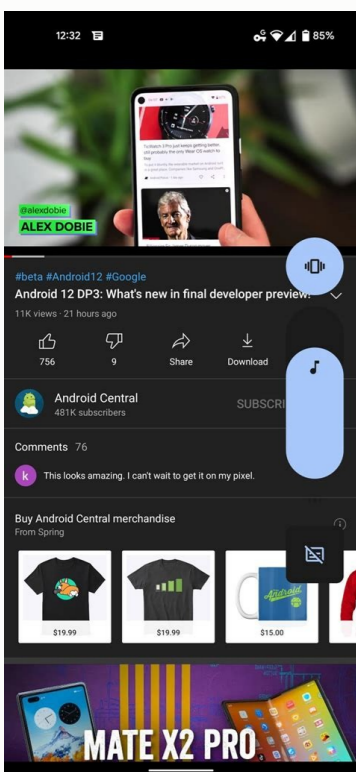
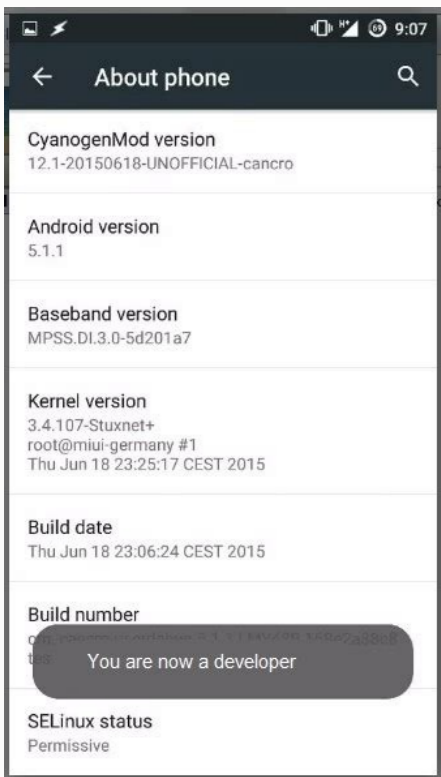
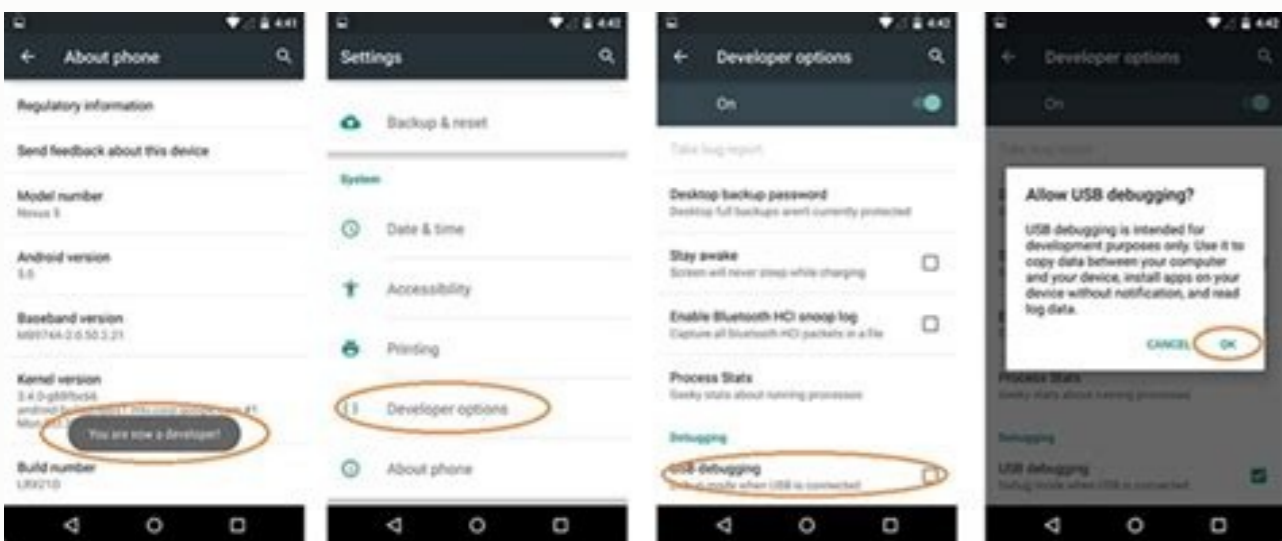


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**Next**

# Android developer tools adb



<https://developer.android.com/tools/help/adb.html>. Adb no permissions see <http://developer.android.com/tools/device.html>. <http://developer.android.com/guide/developing/tools/adb.html>.

(Thanks to external contributor Spencer Low!) Fix a file descriptor double-close that can occur, resulting in connections being closed when an adb connect happens simultaneously. Fix timeout when using adb root/unroot on a device connected over TCP. The License Agreement forms a legally binding contract between you and Google in relation to your use of the SDK. Fix fastboot flashall on older devices such as Nexus 7. 10.1 YOU EXPRESSLY UNDERSTAND AND AGREE THAT YOUR USE OF THE SDK IS AT YOUR SOLE RISK AND THAT THE SDK IS PROVIDED "AS IS" AND "AS AVAILABLE" WITHOUT WARRANTY OF ANY KIND FROM GOOGLE. Although some new features in these tools are available only for recent versions of Android, the tools are backward compatible, so you need only one version of the SDK Platform-Tools. Before any of this information is collected, the SDK will notify you and seek your consent. 14.2 You agree that if Google does not exercise or enforce any legal right or remedy which is contained in the License Agreement (or which Google has the benefit of under any applicable law), this will not be taken to be a formal waiver of Google's rights and that those rights or remedies will still be available to Google. But if you want just these command-line tools, use the following links: Download SDK Platform-Tools for Windows. Download SDK Platform-Tools for Mac. Download SDK Platform-Tools for Linux. Although these links do not change, they always point to the most recent version of the tools. 4.1 Google agrees that it obtains no right, title or interest from you (or your licensors) under the License Agreement in or to any software applications that you develop using the SDK, including any intellectual property rights that subsist in those applications. 27.0.0 (December 2017) Re-fixes the macOS 10.13 fastboot bug first fixed in 26.0.1, but re-introduced in 26.0.2. 26.0.2 (October 2017) Add fastboot support for Pixel 2 devices. "Intellectual Property Rights" means any and all rights under patent law, copyright law, trade secret law, trademark law, and any and all other proprietary rights. If your application stores personal or sensitive information provided by users, it must do so securely. 10.3 GOOGLE FURTHER EXPRESSLY DISCLAIMS ALL WARRANTIES AND CONDITIONS OF ANY KIND, WHETHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO THE IMPLIED WARRANTIES AND CONDITIONS OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. 4.3 You agree that if you use the SDK to develop applications for general public users, you will protect the privacy and legal rights of those users. Fix devices going offline on Windows. Improve adb install output and help text. Updated Windows requirements. The platform tools now depend on the Windows Universal C Runtime, which is usually installed by default via Windows Update. Add product.ing and odm.ing to the list of partitions flashed by fastboot flashall. Fix hang in adb logcat when run before a device is connected. 6.1 In order to continually innovate and improve the SDK, Google may collect certain usage statistics from the software including but not limited to a unique identifier, associated IP address, version number of the software, and information on which tools and/or services in the SDK are being used and how they are being used. If you use the Android Recognition Service API, documented at the following URL: as updated from time to time, you acknowledge that the use of the API is subject to the Data Processing Addendum for Products where Google is a Data Processor, which is located at the following URL: as updated from time to time. You understand that all data, content or resources which you may access through such third party applications are the sole responsibility of the person from which they originated and that Google is not liable for any loss or damage that you may experience as a result of the use or access of any of those third party applications, data, content, or resources. fastboot Improve console output on fastboot oem commands. The new adb host-features command will tell you whether or not you're using libusb. 6.2 The data collected is examined in the aggregate to improve the SDK and is maintained in accordance with Google's Privacy Policy, which is located at the following URL: 6.3 Anonymized and aggregated sets of the data may be shared with Google partners to improve the SDK. This can be renewed with the ADB MDNS\_AUTO\_CONNECT environment variable. This is currently disabled by default, and can be enabled by setting the environment variable ADB\_MDNS\_OPENSOURCE to 1 when starting the adb server. 27.0.1 (December 2017) adb: fixes an assertion failure on macOS that occurred when connecting devices using USB 3.0. Fastboot: On Windows, adds support for wiping devices that use F2FS (Flash-Friendly File System). Increase the socket listen backlog to allow for more simultaneous adb commands. This ensures the tools are saved to the right place with the rest of your Android SDK tools and easily updated. Changed adb to no longer reset USB devices on Linux, which could affect other attached USB devices. Fix adb install-multi-package. 8.1.2 If you use any API to retrieve a user's data from Google, you acknowledge and agree that you shall retrieve data only with the user's explicit consent and only when, and for the limited purposes for which, the user has given you permission to do so. 12.1 To the maximum extent permitted by law, you agree to defend, indemnify and hold harmless Google, its affiliates and their respective directors, officers, employees and agents from and against any and all claims, actions, suits or proceedings, as well as any and all losses, liabilities, damages, costs and expenses (including reasonable attorneys' fees) arising out of or accruing from (a) your use of the SDK, (b) any application you develop on the SDK that infringes any copyright, trademark, trade secret, trade dress, patent or other intellectual property right of any person or defames any person or violates their rights of publicity or privacy, and (c) any non-compliance by you with the License Agreement. 30.0.4 (July 2020) adb Fix fallback to non-incremental apk installation on pre-Android 11 devices. 3.7 Nothing in the License Agreement gives you a right to use any of Google's trade names, trademarks, service marks, logos, domain names, or other distinctive brand features. Upon disconnection, adb will attempt to reconnect for up to 60 seconds before abandoning a connection. 2.4 If you are agreeing to be bound by the License Agreement on behalf of your employer or other entity, you represent and warrant that you have full legal authority to bind your employer or such entity to the License Agreement. Improve performance of adb push on high-latency connections. 29.0.5 (October 2019) adb Slight performance improvement on Linux when using many simultaneous connections. 3.4 You may not use the SDK for any purpose not expressly permitted by the License Agreement. Downloads If you're an Android developer, you should get the latest SDK Platform-Tools from Android Studio's SDK Manager or from the sdkmanager command-line tool. Implement client-side support for compression of adb (push, pull, sync) when used with an Android 11 device. Improve incremental installation performance. Add support for incremental APK installation. Sort output of adb devices by connection type and device serial. You may not modify, rent, lease, loan, sell, distribute or create derivative works based on this data (either in whole or in part) unless allowed by the relevant Terms of Service. Improve error output for adb connect. Implement preliminary support for mDNS device discovery without a separately installed mDNS service. You are of course free to develop applications for other platforms, including non-compatible implementations of Android, provided that this SDK is not used for that purpose. 4.6 You agree that you are solely responsible for (and that Google has no responsibility to you or to any third party for) any breach of your obligations under the License Agreement, any applicable third party contract or Terms of Service, or any applicable law or regulation, and for the consequences (including any loss or damage which Google or any third party may suffer) of any such breach. Your use of any such API may be subject to additional Terms of Service. Fix Unicode console output on Windows. 9.4 When the License Agreement comes to an end, all of the legal rights, obligations and liabilities that you and Google have benefited from, shall be subject to (or which have accrued over time whilst the License Agreement has been in force) or which are expressed to continue indefinitely, shall be unaffected by this cessation, and the provisions of paragraph 14.7 shall continue to apply to such rights, obligations and liabilities indefinitely. Fix adb push --sync with multiple inputs. Android SDK Platform-Tools is a component for the Android SDK, adb root waits for the device to reconnect after disconnecting. 14.7 The License Agreement, and your relationship with Google under the License Agreement, shall be governed by the laws of the State of California without regard to its conflict of laws provisions. fastboot Adds support for partition layout of upcoming devices. 14.5 EXPORT RESTRICTIONS. Improve error handling for incremental apk installation. 1.3 A "compatible implementation" means any Android device that (i) complies with the Android Compatibility Definition document, which can be found at the Android compatibility website (and which may be updated from time to time); and (ii) successfully passes the Android Compatibility Test Suite (CTS). Fixed adb problems with some Windows firewalls, manifesting as "cannot open transport registration socketpair" (bug 37139725). This also fixes a related bug in the Android Studio Profilers that causes an AdbCommandRejectedException, which you can see in the idea.log file. fastboot: Improve output format, add a verbose output mode (-v). 2.3 You may not use the SDK and may not accept the License Agreement if you are a person barred from receiving the SDK under the laws of the United States or other countries, including the country in which you are resident or from which you use the SDK. If the users provide you with user names, passwords, or other login information or personal information, you must make the users aware that the information will be available to your application, and you must provide legally adequate privacy notice and protection for those users. You agree that Google may stop (permanently or temporarily) providing the SDK (or any part of the SDK) to you or to users generally at Google's sole discretion, without prior notice to you. Notwithstanding this, you agree that Google shall still be allowed to apply for injunctive remedies (or an equivalent type of urgent legal relief) in any jurisdiction. Fix some more crashes related to adb wireless pairing. They're also needed if you want to unlock your device bootloader and flash it with a new system image, fastboot Increase command timeout to 30 seconds, to better support some slow bootloader commands. 2.1 In order to use the SDK, you must first agree to the License Agreement. 13.1 Google may make changes to the License Agreement as it distributes new versions of the SDK. If you withhold consent, the information will not be collected. On Linux, when connecting to a newer adb server, instead of killing the server and starting an older one, adb attempts to launch the newer version transparently. Derive device locked state from property instead of parsing the kernel command line. 31.0.3 (August 2021) fastboot Support flashing vbmeta.vendor.img for fastboot flashall / update. 29.0.1 (June 2019) adb Hottfix for Windows crashes (bug 123129) Fixed Systrace command line capture on Mac 25.0.3 (December 16, 2016) Fixed fastboot bug causing Android Things devices to fail to flash 25.0.2 (December 12, 2016) Updated with the Android N MR1 Stable release (API 25) 25.0.1 (November 22, 2016) Updated with the release of Android N MR1 Developer Preview 2 release (API 25) 25.0.0 (October 19, 2016) Updated with the release of Android N MR1 Developer Preview 1 release (API 25) 24.0.4 (October 14, 2016) Updated to address issues in ADB and Mac OS Sierra Before downloading, you must agree to the following terms and conditions. 7.3 You acknowledge that your use of such third party applications, data, content, or resources may be subject to separate terms between you and the relevant third party. 29.0.4 (September 2019) adb Hottfix for native debugging timeout with LLDB (see issue #134613180). 31.0.1 (March 2021) adb Reduce TCP keepalive interval. 28.0.2 (March 2019) adb Fixes flakiness of adb shell port forwarding that leads to "Connection reset by peer" error message. You may not modify, rent, lease, loan, sell, distribute or create derivative works based on these data, content, or resources (either in whole or in part) unless you have been specifically given permission to do so by the relevant owners. Add adb transport-id to allow scripts to safely wait for a device to go away after root/unroot/reboot. Improve push/pull performance on Windows. Fixes authentication—when the private key used for authentication does not match the public key—by calculating the public key from the private key, instead of assuming that they match. 5.1 You agree that you are responsible for maintaining the confidentiality of any developer credentials that may be issued to you by Google or which you may choose yourself and that you will be solely responsible for all applications that are developed under your developer credentials. The remaining provisions of the License Agreement will continue to be valid and enforceable. 1.4 "Google" means Google LLC, organized under the laws of the State of Delaware, USA, and operating under the laws of the USA with principal place of business at 1600 Amphitheatre Parkway, Mountain View, CA 94043, USA. Add --fastdeploy option to adb install, for incremental updates to APKs while developing. 30.0.2 (June 2020) adb Improve adb wireless pairing. 30.0.0 (April 2020) adb Add initial support for wireless pairing. Fixes authentication via ADB\_VENDOR\_KEYS when reconnecting devices. 31.0.2 (April 2021) adb Support forwarding to vsoc on linux. 4.2 You agree to use the SDK and write applications only for purposes that are permitted by (a) the License Agreement and (b) any applicable law, regulation or generally accepted practices or guidelines in the relevant jurisdictions (including any laws regarding the export of data or software to and from the United States or other relevant countries). Client support for WinUSB devices that publish a WinUSB descriptor (required for Android 11) should no longer require a USB driver to be installed. 9.1 The License Agreement will continue to apply until terminated by either you or Google as set out below. 4.5 You agree that you are solely responsible for (and that Google has no responsibility to you or to any third party for) any data, content, or resources that you create, transmit or display through Android and/or applications for Android, and for the consequences of your actions (including any loss or damage which Google may suffer) by doing so. fastboot Add support for compressed snapshot merges. Other than this, no other person or company shall be third party beneficiaries to the License Agreement. Improve performance of incremental apk installation. 29.0.6 (February 2020) adb 64-bit size/time support for adb ls when used with an Android 11 device. 14.3 If any court of law, having the jurisdiction to decide on this matter, rules that any provision of the License Agreement is invalid, then that provision will be removed from the License Agreement without affecting the rest of the License Agreement. 14.6 The rights granted in the License Agreement may not be assigned or transferred by either you or Google without the prior written approval of the other party. fastboot Adds support for dynamic partitions.

27/01/2022 - Although some new features in these tools are available only for recent versions of Android, the tools are backward compatible, so you need only one version of the SDK Platform-Tools. Downloads. If you're an Android developer, you should get the latest SDK Platform-Tools from Android Studio's SDK Manager or from the sdkmanager command-line tool. Android Debug Bridge (adb) adalah alat command line serbaguna yang memungkinkan Anda berkomunikasi dengan perangkat. Perintah adb memfasilitasi berbagai tindakan perangkat, seperti menginstal dan men-debug aplikasi, dan memberikan akses ke shell Unix yang dapat Anda gunakan untuk menjalankan berbagai perintah di perangkat.

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