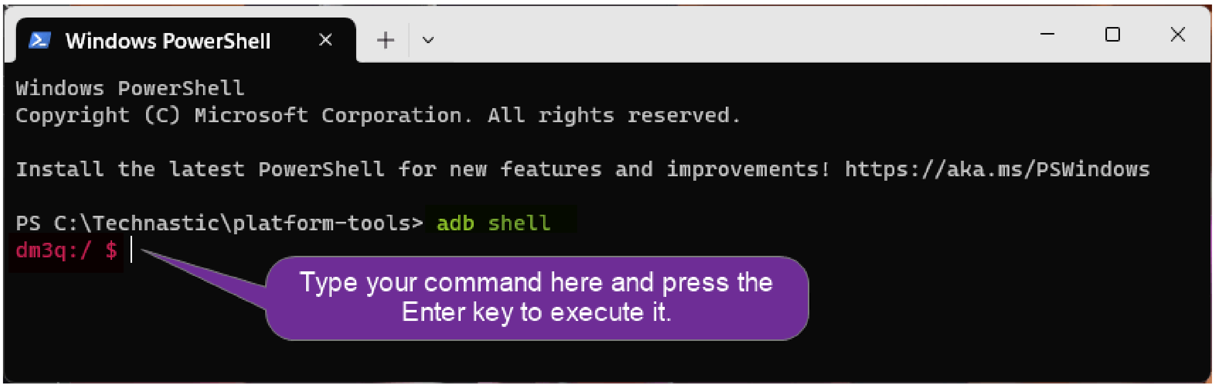
ADB Shell Commands List – The Ultimate Collection (PDF)

adb shell

This command activates the remote shell command console on the connected Android smartphone or tablet.



```
Windows PowerShell
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PS C:\Technastic\platform-tools> adb shell
dm3q:/ $
```

Type your command here and press the Enter key to execute it.

Before you can execute an ADB Shell command, you'll need to type '`adb shell`' in the command window, press Enter, and type or paste the rest after the '**$**' sign.

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adb shell pm uninstall

This is a useful command. Using this, you can easily uninstall unwanted system apps.

```
adb shell pm uninstall -k --user 0 com.facebook.appmanager
```

`-k`: Keep the app data and cache after package removal. If you want the app data to be cleared as well, use the following

```
adb shell pm uninstall --user 0 com.android.chrome
```

If you don't know the app package name for the apps to remove, use `adb shell pm list packages` to find it.

This command can help you if you want to remove all bloatware from your Android phone. Please note that most system apps don't have the '**Uninstall**' option on the device but this command works magically.

adb shell cmd package install-existing

Using the above command, you can re-install an uninstalled system app.

```
adb shell cmd package install-existing com.facebook.appmanager
```

adb shell pm disable-user <package-name>

If you want to disable a system app on your Android device, you can execute the above command followed by the app package name

```
adb shell pm disable-user --user 0 com.google.ar.core
```

adb shell pm clear <package-name>

Using this command, you can delete all data associated with an app.

```
adb shell pm clear --user 0 com.facebook.appmanager
```

adb shell pm hide <package-name>

If you want to hide an installed app on your Android device, you can execute this command line followed by the app package name.

```
adb shell pm hide --user 0 com.whatsapp
```

adb shell pm list packages

Using the above ADB Shell command, you can print the list of the app package names for all apps installed on your Android device. You can use this command with different parameters to get a more specific list of app packages.

For instance, if you want to list the system apps only, use

```
adb shell pm list packages -s
```

The following command will print the list of all installed packages with the path of the APKs.

```
adb shell list packages -r
```

To list all third-party apps installed on your Android phone or tablet, you issue the following command.

```
adb shell pm list packages -3
```

Do you want ADB Shell to show the list of all enabled or disabled apps on your device, try the command with parameters like '**-d**' (for disabled apps), '**-e**' (for enabled apps), and '**-u**' (for uninstalled apps).

```
adb shell pm list packages -d
```

```
adb shell pm list packages -e
```

```
adb shell pm list packages -u
```

The following command will list the app packages with their installers.

```
adb shell pm list packages -i
```

To list app packages with specific keyword filters.

```
adb shell pm list packages <keywords>
```

To find the list of apps along with their associated packages, execute the following command

```
adb shell pm list packages -f
```

You can easily get a list of group packages by a certain manufacturer, or some common term. For instance, if you want to list all apps by Google, you can use the following command.

```
adb shell pm list packages | grep 'google'
```

You can replace 'google' with 'samsung', 'huawei', 'xiaomi', 'miui', 'evenwell', 'android', 'facebook', etc. to get the desired list of packages.

adb shell pm path <package-name>

This command displays the APK path on the device's file system.

adb shell pm create-user

With this command. you can create a new user on your Android device.

```
adb shell pm create-user username
```

adb shell pm remove-user

Just in case you want to remove a user from your device, you can use the above command followed by the `user_id` as shown below.

```
adb shell pm remove-user user 1
```

adb shell pm get-max-users

With this command, you can print the maximum number of users supported on an Android device.

adb shell pm list features

Use the above command to print all supported features of the system.

adb shell pm list permissions

This command prints the list of all known permissions on the connected Android device, optionally only those in `group`. You can use it with the following parameters.

- `-g`: Organize permissions by group
- `-f`: Print all information
- `-s`: Summary of permissions
- `-d`: List dangerous permissions only
- `-u`: List the permissions seen by users only

Examples:

```
adb shell pm list permissions -d group
```

```
adb shell pm list permissions -d -g
```

adb shell pm path

Get the path of a given app package.

```
adb shell pm path <package-name>
```

adb shell settings

You can use this command to print information about specific settings on your Android device. By adding different parameters, you can find the Android settings provider, current system volume level, notification sound, device ID, Bluetooth MAC address, mobile data status, current Wi-Fi status, etc.

- `adb shell settings list system`
- `adb shell settings get system volume_system`
- `adb shell settings get system notification_sound`
- `adb shell settings list secure`
- `adb shell settings get secure android_id`
- `adb shell settings get secure bluetooth_address`
- `adb shell settings list global`
- `adb shell settings get global mobile_data`
- `adb shell settings get global wifi_on`

adb shell dumpsys

It’s a very flexible command that can be used standalone or with various parameters to get data related to battery, display, CPU, RAM, storage, etc. The execution of this command will give you detailed information about the Android device’s software and hardware configuration.

Note: To use this tool, don’t forget to add permission to your Android manifest automatically `android.permission.DUMP`

```
adb shell dumpsys
```

Other variations of the command are as follows:

- `adb shell dumpsys package packages (get info about all installed apps)`
- `adb shell dumpsys input`
- `adb shell dumpsys display (get details about the display)`
- `adb shell dumpsys battery (get detailed info about your device's battery and status)`
- `adb shell dumpsys batterystats (battery usage statistics)`
- `adb shell dumpsys activity (get a complete list of all ongoing activities on your device)`
- `adb shell dumpsys cpuinfo (get detailed about CPU usage)`

Executing the `adb shell dumpsys cpuinfo` command, for instance, will print a list of CPU usage by the running processes and apps on your Android device.

adb shell wm density

The above command can be used to find out the pixel density of your Android device’s display.

adb shell dumpsys window displays

The above command will print detailed info like pixel resolution, FPS, and DPI of your phone’s display.

adb shell wm size

You can find out the display resolution of your phone with this command.

```
PS C:\Users\Technastic\Desktop> adb shell wm size
Physical size: 1440x3040
Override size: 1080x2280
```

If you want to modify the screen resolution and the pixel density of your Android device's display. If you're unsure about your device's display resolution, execute the command given below. Suppose your phone's display resolution is QHD+, you can easily change it to Full HD+ or HD+.

FHD

```
adb shell wm size 1080x2220
```

```
adb shell wm density 420
```

HD

```
adb shell wm size 720x1560
```

```
adb shell wm density 360
```

adb shell screencap

This command captures a screenshot and downloads it to your computer using the 'adb pull' command as described above.

```
adb shell screencap /sdcard/screenshot-01.png
```

adb shell screenrecord

ADB also lets you record your phone or tablet's screen and download the recorded video to your computer. Besides, you can also set conditions like video duration, resolution in pixels, video bitrate, etc.

```
adb shell screenrecord /sdcard/screenrecord.mp4
```

```
adb pull screenrecord /sdcard/screenrecord.mp4
```

You can stop screen recording using **Ctrl+C**. If you want to record the screen in a specific resolution, the following command lets you set custom width and height in pixels.

```
adb shell screenrecord --size 1920x1080 /sdcard/screenrecord-01.mp4
```

Android's screen recorder's duration is set to 180 seconds (3 minutes) by default. You can decrease this time limit according to your needs (180 seconds is the maximum limit).

```
adb shell screenrecord --time-limit 120 /sdcard/screenrecord-01.mp4
```

Similarly, you can also determine the bitrate of the video output. To set the bitrate to 4MBPS, for example, you can use the following value:

```
adb shell screenrecord --bit-rate 6000000 /sdcard/screenrecord-01.mp4
```

adb shell getprop & adb shell setprop

The ‘**getprop**‘ and ‘**setprop**‘ commands can be used to view and set or change the configuration of the ‘build.prop’ file on Android devices. The following command, for example, displays the Android system information.

```
adb shell getprop
```

Below are some more examples:

```
getprop ro.build.version.sdk
```

```
getprop ro.chipname
```

In case you want to change the value of an entry in the build.prop, you can use the `adb shell setprop` commands. See the examples below:

```
getprop net.dns1 1.2.3.4
```

```
setprop net.dns1 1.3.4.5
```

```
getprop net.dns2 1.1.2.3
```

```
setprop net.dns2 1.2.3.4
```

In the same way, if you want to change the configuration of the VMHeap size on your Android device, you can use the following command.

```
setprop dalvik.vm.heapsize 60m
```

The `adb shell getprop` commands fetch information about Android system properties, SDK API level, Android security patch version, Soc, Android version, device model, device manufacturer, ADB serial number, OEM unlock status, Android device build fingerprint, Wi-Fi MAC address, etc.

- `adb shell getprop`
- `adb shell getprop ro.build.version.sdk`
- `adb shell getprop ro.build.version.security_patch`
- `adb shell getprop ro.board.platform`
- `adb shell getprop ro.build.version.release`
- `adb shell getprop ro.vendor.product.model`
- `adb shell getprop ro.product.manufacturer`
- `adb shell getprop ro.serialno`
- `adb shell getprop ro.oem_unlock_supported`

- `adb shell getprop ro.bootimage.build.fingerprint`
- `adb shell getprop ro.boot.wifimacaddr`

adb -s shell getprop

To check the full configuration, running services, and information about your Android phone or tablet, use this command. First off, run the `adb devices` command and copy the alpha-numeric value of your device ID from the output.

```
PS C:\Users\Technastic\Desktop> adb devices
List of devices attached
RZ8M810BARJ device
```

Then execute the following command. Don’t forget to replace the device ID highlighted in blue with the ID of your device.

```
adb -s RZ8M810BARJ shell getprop
```

adb shell cat /proc/cpuinfo

Use the above command to get complete information about the CPU on your phone or tablet.

Manage App Permissions

Reset Permissions

```
adb shell pm reset-permissions -p <app-package-name>
```

Grant Permissions

```
adb shell pm grant <app-package-name> <permission-name>
```

Revoke Permissions

```
adb shell pm revoke <app-package-name> <permission-name>
```

Get Device Properties

By running the following command, you can see the system properties.

```
adb shell getprop | grep -e 'model' -e 'version.sdk' -e 'manufacturer' -e 'hardware'
-e 'platform' -e 'revision' -e 'serialno' -e 'product.name' -e 'brand'
```

adb shell cd

Change the ADB shell directory using ‘*cd <directory>*‘

```
adb shell
```

Then execute the following command:

```
cd /system
```

adb shell rm

This command lets you easily delete a file or folder from your Android device’s storage. Launch the command window, execute the ‘adb shell’ command, and then try the following command with ‘**-f**‘ (to delete a file) and ‘**-d**‘ (to remove a directory) parameters.

```
rm -f /sdcard/com.whatsapp.apk
```

```
rm -d /sdcard/WhatsApp
```

Note: Instead of ‘**rm-d**‘, you can also use ‘**rmdir**‘.

adb shell mkdir

Besides deleting an existing directory or folder, ADB Shell lets you create a new directory or sub-directory. Not only that, you can set permissions for the newly created folder.

```
mkdir /sdcard/NewFolder
```

```
mkdir -p /sdcard/NewFolder/NewFolder1
```

```
mkdir -m 644 /sdcard/NewFolder
```

adb shell cp

‘**cp**‘ stands for ‘copy and allows you to copy files and directories on your Android device.

To copy files and then paste them, mention the source and destination locations as shown below:

```
cp /sdcard/OPWallpaperResources.apk /sdcard/DCIM/Camera
```

adb shell mv

‘**mv**‘ stands for ‘move’. This command moves a file stored on your device from the source to a destination location.

```
mv /sdcard/livewallpapers.apk /system/app
```

The following command will allow you to move a file with a new name.

```
mv /sdcard/livewallpapers.apk /sdcard/Wallpapers
```

adb shell top

This command displays the list of top CPU processes on an Android phone or tablet. CPU processes monitor can be stopped using **Ctrl + C**.

adb shell ip

Find out the WiFi IP address of an Android phone or tablet.

```
ip -f inet addr show wlan0
```

adb shell netstat

Displays the network statistics of Android phones.

```
adb shell netstat
```

Get a List of Device Features

```
adb shell pm list features
```

Make a Call

Make a call using an ADB Shell command from your Android phone.

```
adb shell am start -a android.intent.action.CALL -d tel:+19797220011
```

Send SMS screen

If you want to send a text message using a command, try the following code.

```
adb shell am start -a android.intent.action.SENDTO -d sms:+19797220011 --es sms_body
"Test Message" --ez exit_on_sent false
```

You can use the following command to

Input Text in a Text Field

You can input or print text on your phone using the command. I tested this command in Messages, WhatsApp, Facebook, etc. If a messaging app is not open, the text will open in Google Search.

```
adb shell input text 'I love this adb command'
```

Open URL in a Web Browser

Open a URL in your Android phone’s default web browser.

```
adb shell am start -a android.intent.action.VIEW -d https://technastic.com
```

Open the Gallery App

Executing the following ADB Shell command will open the Gallery app.

```
adb shell am start -t image/* -a android.intent.action.VIEW
```

ADB Shell Key Event Commands

Key Event Commands to Toggle and Trigger Functions

Android devices support KeyEvent commands that can let you perform certain actions that require you to press a hardware button or tap an app or UI option. You can control your Android phone or tablet device and even launch apps by using these KeyEvent commands. These commands might come in handy if the hardware keys on your device are unfunctional due to some damage.

- Turn Android device ON or OFF: adb shell input keyevent 2
- Press App Switcher Button: adb shell input keyevent KEYCODE_APP_SWITCH
- Press Home button: adb shell input keyevent 3
- Press Back button: adb shell input keyevent 4
- Press Call button: adb shell input keyevent 5
- End a call: adb shell input keyevent 6
- Press Power Button to wake up screen: adb shell input keyevent 26
- Turn ON the camera: adb shell input keyevent 27
- Open web browser: adb shell input keyevent 64
- Press the Enter key: adb shell input keyevent 66
- Press Backspace button: adb shell input keyevent 67
- Open Contacts app: adb shell input keyevent 207
- Decrease display brightness: adb shell input keyevent 220
- Increase Display brightness: adb shell input keyevent 221
- Cut text: adb shell input keyevent 277
- Copy text: adb shell input keyevent 278
- Paste text: adb shell input keyevent 279
- Make the device sleep: adb shell input keyevent KEYCODE_SLEEP

- Make device wakeup: adb shell input keyevent KEYCODE_WAKEUP
- Toggle Power menu: adb shell input keyevent KEYCODE_POWER
- Trigger Volume up: adb shell input keyevent 24
- Trigger Volume down: "adb shell input keyevent 25
- Trigger Zoom in: adb shell input keyevent 168
- Trigger Zoom out: adb shell input keyevent 169
- Menu: adb shell input keyevent 82
- Open Notifications: adb shell input keyevent 83
- Launch Search: adb shell input keyevent 84
- Play or pause media: adb shell input keyevent 85
- Mute audio: adb shell input keyevent 91
- Page up: adb shell input keyevent 92
- Page down: adb shell input keyevent 93
- Open Calendar: adb shell input keyevent 208
- Launch Music: adb shell input keyevent 209
- Open Calculator: adb shell input keyevent 210
- Volume up: adb shell input keyevent 24
- Make the lock screen sleep: adb shell input keyevent 223
- Wakeup the lock screen: adb shell input keyevent 224
- Make device wakeup: adb shell input keyevent KEYCODE_WAKEUP
- Toggle Power menu: adb shell input keyevent KEYCODE_POWER

Android Keyboard-related Key Event Commands

You can use the following key events commands to print letters, numbers, and symbols on your Android device right from your computer.

- **Clear**: adb shell input keyevent 28
- **Caps lock**: adb shell input keyevent 115
- **Number '0'**: adb shell input keyevent 7

- **Number '1'**: `adb shell input keyevent 8`
- **Number '2'**: `adb shell input keyevent 9`
- **Number '3'**: `adb shell input keyevent 10`
- **Number '4'**: `adb shell input keyevent 11`
- **Number '5'**: `adb shell input keyevent 12`
- **Number '6'**: `adb shell input keyevent 13`
- **Number '7'**: `adb shell input keyevent 14`
- **Number '8'**: `adb shell input keyevent 15`
- **Number '9'**: `adb shell input keyevent 16`
- **Letter 'a'**: `adb shell input keyevent 29`
- **Letter 'b'**: `adb shell input keyevent 30`
- **Letter 'c'**: `adb shell input keyevent 31`
- **Letter 'd'**: `adb shell input keyevent 32`
- **Letter 'e'**: `adb shell input keyevent 33`
- **Letter 'f'**: `adb shell input keyevent 34`
- **Letter 'g'**: `adb shell input keyevent 35`
- **Letter 'h'**: `adb shell input keyevent 36`
- **Letter 'i'**: `adb shell input keyevent 37`
- **Letter 'j'**: `adb shell input keyevent 38`
- **Letter 'k'**: `adb shell input keyevent 39`
- **Letter 'l'**: `adb shell input keyevent 40`
- **Letter 'm'**: `adb shell input keyevent 41`
- **Letter 'n'**: `adb shell input keyevent 42`
- **Letter 'o'**: `adb shell input keyevent 43`
- **Letter 'p'**: `adb shell input keyevent 44`
- **Letter 'q'**: `adb shell input keyevent 45`
- **Letter 'r'**: `adb shell input keyevent 46`

- **Letter 's'**: `adb shell input keyevent 47`
- **Key 't'**: `adb shell input keyevent 48`
- **Letter 'u'**: `adb shell input keyevent 49`
- **Letter 'v'**: `adb shell input keyevent 50`
- **Letter 'w'**: `adb shell input keyevent 51`
- **Letter 'x'**: `adb shell input keyevent 52`
- **Letter 'y'**: `adb shell input keyevent 53`
- **Letter 'z'**: `adb shell input keyevent 54`
- **Key 'comma'**: `adb shell input keyevent 55`
- **Key 'period'**: `adb shell input keyevent 56`
- **Key 'alt_left'**: `adb shell input keyevent 57`
- **Key 'alt_right'**: `adb shell input keyevent 58`
- **Key 'shift_left'**: `adb shell input keyevent 59`
- **Key 'shift_right'**: `adb shell input keyevent 60`
- **Key 'tab'**: `adb shell input keyevent 61`
- **Key 'space'**: `adb shell input keyevent 62`
- **Key 'symbols'**: `adb shell input keyevent 63`
- **Key 'minus'**: `adb shell input keyevent 69`
- **Key 'equals'**: `adb shell input keyevent 70`
- **Key 'left bracket'**: `adb shell input keyevent 71`
- **Key 'right bracket'**: `adb shell input keyevent 72`
- **Key 'backslash'**: `adb shell input keyevent 73`
- **Key 'semicolon'**: `adb shell input keyevent 74`
- **Key 'apostrophe'**: `adb shell input keyevent 75`
- **Key 'slash'**: `adb shell input keyevent 76`
- **Key '@'**: `adb shell input keyevent 77`

The following key events work on the numerical keypad of Android devices.

- **Number '0'**: `adb shell input keyevent 144`
- **Number '1'**: `adb shell input keyevent 145`
- **Number '2'**: `adb shell input keyevent 146`
- **Number '3'**: `adb shell input keyevent 147`
- **Number '4'**: `adb shell input keyevent 148`
- **Number '5'**: `adb shell input keyevent 149`
- **Number '6'**: `adb shell input keyevent 150`
- **Number '7'**: `adb shell input keyevent 151`
- **Number '8'**: `adb shell input keyevent 152`
- **Number '9'**: `adb shell input keyevent 153`
- **Symbol 'divide'**: `adb shell input keyevent 154`
- **Symbol 'multiply'**: `adb shell input keyevent 155`
- **Symbol 'subtract'**: `adb shell input keyevent 156`
- **Symbol 'add'**: `adb shell input keyevent 157`
- **Symbol 'dot'**: `adb shell input keyevent 158`
- **Symbol 'comma'**: `adb shell input keyevent 159`
- **Symbol 'enter'**: `adb shell input keyevent 160`
- **Symbol 'equals'**: `adb shell input keyevent 161`