

Adb cheat sheet

System

1. start adb with root permission

adb root

2. adb shell getprop

Get properties of device

Gets information on the SIM operator

```
$ adb shell getprop gsm.sim.operator.alpha
```

Gets the IMEI number of the device

```
$ adb shell getprop ro.ril.oem.imei
```

Shows the types of properties instead of the values.

```
$ adb shell getprop -T
```



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Gets the Android version of the device.

```
$ adb shell getprop ro.build.version.release
```

Get ADB serial number

```
$ adb shell getprop ro.serialno
```

Get the WiFi Mac Address

```
$ adb shell getprop ro.boot.wifimacaddr
```

Get Android device manufacturer details

```
$ adb shell getprop ro.product.manufacturer
```

Get Android device product number

```
$ adb shell getprop ro.vendor.product.model
```

adb shell getprop

```
$ adb shell getprop
```

3. Adb shell ps

Used to show the list of all processes in android

Show all processes that aren't session leader

\$ adb shell ps -A

Show a process with the particular PID

\$ adb shell ps -p [process Id]

Show threads

\$ adb shell ps -t

Show all processes that aren't session leaders

\$ adb shell ps -d

adb shell ps

\$ adb shell ps

4. adb shell set prop

Used to set the property service

Enable the GPU overdraw debugging

\$ setprop

adb shell setprop key value

adb shell setprop service.adb.tcp.port 5555

5. adb shell top

Used to show the process activity in real time

Displays the threads

```
$ adb shell top -H
```

Displays the specified number of tasks

```
$ adb shell top -m numberOfTasks
```

```
$ adb shell top -m 50
```

adb shell top

```
$ adb shell top
```

6. adb sideload

Sideload Over-the-air (OTA) package

Unzip a zip file

```
$ adb sideload
```

adb sideload path/to/OTA.zip

```
$ adb sideload /mnt/sdcard/Download/ota.zip
```



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ADB Debugging

Kill running adb server

adb kill-server

Package Manager

1. adb install

Install APK on device

\$ adb install test.apk

Push & Install multiple APKs

\$ adb install-multiple test1.apk test2.apk

\$ adb install-multi-package path/to/app1.apk path/to/app2.apk

Push & install multiple APKs as multiple packages

\$ adb install-multi-package test1.apk test2.apk

\$ adb install -r path/to/app.apk

Replace an existing app

\$ adb install -r test.apk

\$ adb install -t path/to/app.apk

Install an APK while allowing test packages.

\$ adb install -t test.apk

\$ adb install -g path/to/app.apk



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Install an APK and grant all permissions

```
$ adb install -g test.apk
```

```
$ adb install -d path/to/app.apk
```

Install an APK by allowing version code downgrade(debuggable packages only)

```
$ adb install -d test.apk
```

```
$ adb install --fastdeploy path/to/app.apk
```

Install an APK using fast deploy.

```
$ adb install --fastdeploy test.apk
```

```
$ adb install --no-streaming path/to/app.apk
```

Install an APK by pushing the APK to the device and invoking Package Manager as separate steps.

```
$ adb install --no-streaming test.apk
```

```
$ adb install --instant path/to/app.apk
```

Install the app as an ephemeral install app.

```
$ adb install --instant test.apk
```

```
$ adb install path/to/app.apk
```

2. adb uninstall

Uninstall the application using the package name

```
$ adb uninstall packageName
```

```
$ adb uninstall test.apk
```

Uninstalls the package but keeps the data and cache directories intact

```
$ adb uninstall -k test.apk
```

Logcat

Used to display the device logcat

```
adb logcat
```

Shows the Verbose level -lowest priority)

```
$ adb logcat *:V
```

```
$ adb logcat *:D
```

Shows the Debug level

```
$ adb logcat *:D
```

```
$ adb logcat *:I
```

Shows the Info level

```
$ adb logcat *:I
```

```
$ adb logcat *:W
```

Shows the Warning level

```
$ adb logcat *:W
```

```
$ adb logcat *:E
```

Shows the Error level

```
$ adb logcat *:E
```

```
$ adb logcat *:F
```



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show the Fatal level

```
$ adb logcat *:F
```

```
$ adb logcat *:S
```

Show the Silent level-highest priority

```
$ adb logcat *:S
```

```
$ adb logcat -b radio
```

Show buffer containing radio/telephone related messages

```
$ adb logcat -b radio
```

```
$ adb logcat -b event
```

Show buffer containing event related messages

```
$ adb logcat -b event
```

```
$ adb logcat -b main
```

Default

```
$ adb logcat -b main
```

```
$ adb logcat -c
```

Clear the entire log table and exit

```
$ adb logcat -c
```

```
$ adb logcat -d
```

Dump the entire log to screen and exit

```
$ adb logcat -d
```

```
$ adb logcat -f test.logs
```




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Write log messages to the test.logs file

```
$ adb logcat -f test.logs
```

```
$ adb logcat -g
```

Print the size of specified log buffer and exits

```
$ adb logcat -g
```

```
$ adb logcat -n count
```

Set the maximum number of rotated logs to the specified count value

```
$ adb logcat -n 5
```

Connection

adb connect

Used to connect to the device using its ip address

adb connect ip_address_of_device:port

Connects to the specified device at the specified port number

```
$ adb connect 199.64.70.96:5555
```

adb connect ip_address_of_device

```
$ adb connect 199.64.70.96
```

start the adb in USB mode

```
adb usb
```

File Manager

1. adb pull

Used to copy files and directories from an Android device

adb pull -a /fileLocation/fileName

Preserves the filestamp and mode while copying

```
$ adb pull -a /mnt/sdcard/Download/test.apk
```

```
$ adb pull /fileLocation/fileName
```

```
$ adb pull /mnt/sdcard/Download/test.apk
```

2. adb push

Copy local files/directories to Android device

adb push --sync filename.extension /path/to/push/to

Push files that are newer on the host than the Android device

```
$adb push --sync pc.apk /mnt/sdcard/Download/test.apk
```

```
$adb push filename.extension /path/to/push/to
```

```
$adb push pc.apk /mnt/sdcard/Download/test.apk
```

3. adb shell cd

Directory Navigation

```
adb shell cd /LocationToDirectory
```

```
$ adb shell cd /mnt/sdcard/Download
```

4. adb shell cp

Copy file from one directory to another

adb shell cp /source /destination

\$ adb shell cp /data/local/a/demo.txt /data/local/b/

5. adb shell ls

Used to list directory and directory contents

adb shell ls

\$ adb shell ls /system/bin

List files including the hidden ones

\$ adb shell ls -a

List only directory names and not the contents

\$ adb shell ls -d

Recursively list the subdirectories of specified directory

\$ adb shell ls -R /mnt/sdcard/Download

Print the size of each file

adb shell ls -s

Finds the location of the desired file

adb shell ls -lR | grep filename_

adb shell ls -lR | grep logo.png

6. adb shell mkdir

Used to create directory at any given path

adb shell mkdir path/to/directory

\$ adb shell mkdir /sdcard/tmp

Sets up permission mode

adb shell mkdir -m 777 /path/to/directory

\$ adb shell mkdir -m 777 /sdcard/tmp

Create parent directories as needed

adb shell mkdir -p /path/to/directory

\$ adb shell mkdir -p /sdcard/tmp/sub1/sub2

7. Adb shell pwd

print the current working directory

\$ adb shell pwd

8. Removing Files

adb shell rm

Used to remove the specified directory

adb shell rm /path/to/directory



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Forcefully remove without asking for confirmation. Won't throw any error if the file does not exist

```
adb shell rm -f /path/to/directory  
$ adb shell rm -f /mnt/sdcard/Download/test.apk
```

Interactively prompt for confirmation.

```
$ adb shell rm -i /path/to/directory  
$ adb shell rm -i /mnt/sdcard/Download/test.apk
```

Recursively remove directory contents.

```
$ adb shell rm -rR /path/to/directory  
$ adb shell rm -rR /mnt/sdcard/Download/test.apk
```

Verbose.

```
$ adb shell rm -v /path/to/directory  
$ adb shell rm -v /mnt/sdcard/Download/test.apk
```

9. adb shell touch

Create a file.

```
adb shell touch /location/fileName  
$ adb shell touch /mnt/sdcard/Download/test.txt
```

10. shell mv

Move files from one directory to another

adb shell mv /fromPath/file /toPath/file

adb shell mv /mnt

Force copy by deleting destination file

adb shell mv -f /fromPath/file /toPath/file

adb shell mv -f /mnt/sdcard/Download/test.txt /mnt/sdcard/DCIM/test.txt

Interactive, prompt before overwriting existing destination

adb shell mv -i /fromPath/file /toPath/file

adb shell mv -i /mnt/sdcard/Download/test.txt /mnt/sdcard/DCIM/test.txt

Not overwrite destination

adb shell mv -n /fromPath/file /toPath/file

adb shell mv -n /mnt/sdcard/Download/test.txt /mnt/sdcard/DCIM/test.txt

ScreenShot

1. adb screenshot

Take screenshot of the connected device

adb shell screenshot /path/to/save/screenshot

\$ adb shell screenshot /mnt/sdcard/Download/test.png

2. adb shell screenrecord

Record screen and other settings relating to screenrecording

adb shell screenrecord /path/to/save.mp4

\$ adb shell screenrecord /mnt/sdcard/Download/test.mp4

Set the video size, For best results, use a size supported by the AVC encoder.

adb shell screenrecord --size SIZE /path/to/save.mp4

\$ adb shell screenrecord --size 1280x720 /mnt/sdcard/Download/test.mp4

Set the video bit rate, in bits per second. Default 20Mbps.

adb shell screenrecord --bit-rate BITRATE /path/to/save.mp4

\$ adb shell screenrecord --bit-rate 4000000 /mnt/sdcard/Download/test.mp4

Rotates the output 90 degrees. This is an experimental feature.

adb shell screenrecord --rotate /path/to/save.mp4

\$ adb shell screenrecord --rotate /mnt/sdcard/Download/test.mp4

Add additional information...to illustrate bugs.

adb shell screenrecord --bugreport /path/to/save.mp4

\$ adb shell screenrecord --bugreport /mnt/sdcard/Download/test.mp4

Display interesting information on stdout

adb shell screenrecord --verbose /path/to/save.mp4

\$ adb shell screenrecord --verbose /mnt/sdcard/Download/test.mp4

Set the maximum recording time, in seconds

adb shell screenrecord --time-limit=LIMIT /path/to/save.mp4

adb shell screenrecord --time-limit=120 /mnt/sdcard/Download/test.mp4



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Network

1. adb shell ip

Display IP address of successful connections

```
$ adb shell ip addr show wlan0
```

Show IPV4 and IPV6 addresses

```
$ adb shell ip addr show rmnet0
```

Show the ARP table

```
$ adb shell ip neighbour
```

Show the Route table

```
$ adb shell ip addr show rmnet0
```

2. adb shell netcfg

Show Network configuration

```
$ adb shell netcfg
```

3. adb shell netstat

Display more about connections, Ports

adb shell netstat

Displays the routing table

\$ adb shell netstat -r

Displays all the Ports whether connected or not



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\$ adb shell netstat -a

Displays the listening server Ports

\$ adb shell netstat -l

Displays all the TCP Ports

\$ adb shell netstat -t

Displays all the UDP Ports

\$ adb shell netstat -u

Displays all the Raw Ports

\$ adb shell netstat -w

Displays the Unix Ports

\$ adb shell netstat -x

Displays the extended info

\$ adb shell netstat -e

Command to not resolve the names

\$ adb shell netstat -n

Displays PID/Program Name of the Ports

\$ adb shell netstat -p

Displays in wide display

\$ adb shell netstat -W

4 adb shell ping

Check the internet related services and network connections

adb shell ping URL/IP

```
$ adb shell ping www.google.com
```

Specifies the number of echo Request messages sent

```
adb shell ping -c numberOfEchoReq URL/IP
```

```
$ adb shell ping -c1 www.google.com
```

Amount of time, in milliseconds, to wait for the echo Reply message

```
adb shell ping -W amountOfTimeInMilliseconds URL/IP
```

```
$ adb shell ping -W 2000 127.0.0.1
```

Specifies the interval in seconds

```
adb shell ping -i intervalInSeconds URL/IP
```

```
$ adb shell ping -i 2 127.0.0.1
```

Device State

1. Adb shell dumpstate

Dump android device state

```
$ adb shell dumpstate
```



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2. adb shell dumpsys

To dump service and deal with batttery configuration

\$ adb shell dumpsys

Only list services, do not dump them.

adb shell dumpsys -l

Gets Android device battery info

adb shell dumpsys battery

list info on all apps

\$ adb shell dumpsys package packages

Changes the battery level

\$ db shell dumpsys battery set level 65

change the status to unknown, charging, discharging, not charging or full.

adb shell dumpsys battery set status 0|1|2|3

\$ adb shell dumpsys battery set status 3

resets the battery

\$ db shell dumpsys battery reset

Changes the status of USB connection to On/Off

adb shell dumpsys battery set usb 0|1

\$ adb shell dumpsys battery set usb 0